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# The Canadian Live Stock and Farm Journal 

## Devoted to the Interests of the Stock-Raisers and Farmers of Canada.

Vol. VII. No. 5.]
TORONTO, MAY, I8go.
[Whole No. 79


## NOTED GELDING PRIZE-WINNER, "BLACKSTONE."

Owned by Mr. St. John, Toronto, Ontario.

## Our Illustration.

The subject of our sketch this month is a handsome gelding owned by Mr. St. John, of this city. This horse, in general conformation, is one of the highest ype of what a cood horse should be, and thosc of our de readers sceking an ideal cannot do better than indel- tracts notuce, and may in part account for the squareibly stamp on their memory the beautiful, yet true, ness and rapidity of his fore action. His body is sketch, that our artist has made. Blackstone is a strong below, and strongly coupled and firmly ribled. fine, up-standing horse, stylish in general appearance/A loin swathed in muscle, and a slightly drooping when standing, but when in action beauty mdiates|rump. gives hum that sweeping stride behind that from every feature. He is a horse that would at once counts for so much in a roadster horse. He has the eatch the cye of the must carcless observer, and, best of limbs, clean and fine, with tendons prominent though at first appearance he may not make a thor- and large. This gelding was sired by the well-known oughly satisfactory impression, he never fails to do so , Blucher, athoroughbred that achieved the high honor when carcfully cxamined, and his conformation noted of winning first as a two-ycar-old at the Centennial and qualities weighed in the balance. He is a beauti ? at Philadelphia. He was exported to Australia and
ful black in color, with small star on forchead. His is now in Scotland. Blackstone's dam was by countenance is frank, and every lineament of his features is distinct. A beautiful junction takes place
between the clearly chiselled head and well proporBlack llawk Morgan. Blackstone has won many laurcls in showings where conpetition was not wanting. He and Mayflower (now owned by Dr. Morgan, of Peterboro'), won the team race at the Toronto Industrial, '88, and again he and Tennyson wan the team race for horses 16 hands and over, at Toronto Industrial in '89. At the Industrial last year he won first prize as gentleman's road horse, doing the mile on a heavy track, before a 250 lb wagon, in 3.44 In conclusion we would say that the gauging of the worth of this horse cannot be done by proxy, but must be done by a personal view of him as he splits the wind before his genial owner, Mr. St. John, on Dufferin Park dave.

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## TORONTO, MAY, 1890.

## Original Plans, Devices, and Ideas.

If you have an original plan, device, or idea, that you thinh would be of benetit to your fellow farmen or stockinen, tumn to our March number and we how we will pay , ou for it if you send it to $u$ for publication. Space forbids us priating the whole wheme in full, on innols. We would refer those desiring to hnow ruste of this to our January, Februarg; and March numben, where the premiums are given in full with complete particulars.

## Our Hog Competition.

Wish a fervent desire to have our farmers clearly realize that the most protitable line of work for them to follow is that of live stock hushandry, we have decided to det vte wur beat energien and spare no expense to lay hare this fact wo strihingly that to one, be he ever so deep in the ruts of custom, can fail to grays the truth. We have convinced oursclves that through the swine industry we niay best demonstrate thi, because there is less difficulty in dowing up the sheme of competition with justice to all, and ala becaun we mav better can y it cut. We would like our stockmen to feel that thi is not undertaken - pecially to boont the swine industry, but mamly to prove in-di-puatably to our farmers that stock-raising and ut attribute will yield more profit than grain-growing. We view the mater in this light. Throush showing the farmer the profits in swine ralsing, and inducing him to undertake such work, which he will readily do if shown bejond dupute that it is profitable, as there in little capital needed in starting, we may reawnably hope that the light will gradually dawn upon him with the rewte that be will aspire higher, and enter ther branches of the live stoch industry. Forthis reason we trunt that every one intereated in tive stock matern will lend ahand, withat we may inconestably prove to the farmer that it is to his interest to follow such lines of work.

Following out this idea, we shall offer a series of prizes to the val're of $\$ 72.50$, divided 2, follows: value of tine prixe, $\$ 25.00$; value of cecond, $\$ 20.00$; value of third, $\$_{1500}$; and $\$ 22.50$ as the value of the fuurth. These prixes are for the best matketable hore, and it should be remembered that they are additional is the marhet prices of the hogs entered, as Messms Daviec \& Co., of Toronto, lave conviderateis and liberalls; consented so pas the highert masket price at the time for all that are entered.
In making the awards the judges will give momt prominence to (1) form and guality of the hog, keeping in wiew the market demands, ad also to ( 2 ) the cost of production as detcrmined by the foo' ' d , and other items of expense, as well as the age of the pig or time of production. In regard to the first, the ideal hos will be rmall in the heal, light in the jowl, long in the body, broad acrous the loins, full and deep in the hams, and light in the bone. The miature of the fat and lean, zs well as the nature of these, will be nonsidered important. In respect to the second. as one of the chief features of this competition is to determine the profit, we must have clear certified statements as to the age. roods fed, and full details as to the ext of production, white the various items of management followed by the winners will be of interest merely for publication.
We have printed forms now reads, to cend out in all intending competitors, and we would ask al! thinhing of entering
to cend in their names at once. In the meantime all that io |nceesary is to note the date of bith, and the vations itenne of erpence, wo that the furms may be readily titled out. We may ay that the prizes will be furtier vopplemented bs other. given by pablic- pitited men. We hall, as won as pomible, sive the timits of time between which the hog, hould le hipped to Mewn. Davies is Co. Kemember hiv wots you nothing, and that you stind a chance of winning a handrome prize, lec vides ohtaining the highest mathet price at the time for your hogs. We would earne tly ank all to give un their heantiest cooperation in thi mateer, for the value of the reculs so the live veck fraternity and vur farmers will depend greatls on the warmeth of the interent ecincel b) all. If further detail- are desired, a pontal cord addrened to un will be readily alswered. The forms will be wast to all applicumte.

## A Word to Horse Breeders.

The season is near approaching when the horseman will have his judgment activel; called into play on the choosing of tallions. Let it be remembered that one of the most effectual barriers that impedes the expansion and protitableness of our horse-raising industry is due to errors of judgment in choosing sires. In the first place, it is best bejond dispute to have nothing to do with a stallion that is not pure-bred. For draught purposes, judging between two furi-hed stallions, we would gise most prominence to bone, muscle, and pedigrec, in the order given. A stallion of strong frame and firm bone has the best foundation for muscular development. and baving these, he will as a rule have ueight. The latter is a prime feature in any draught horse, but it should be weight due to lone and muscle, and not to ov íeeling with soft food and drugs. A few are inclined to overlook the fact that there are serub pare-bred stallions as well as those of inferior breeding. There are inferior Clydendales, shites, and Perrherons, both in breeding and individual merit, so that it becomes of importane to discriminate closely between members of the same bred. I light stallion, one suitable for crossing to produce carriage horses, should, generally speaking, be not only possessed of lxone and musele, but these should be of the higheet quality. A stallion that is under sixteen hands, unless crosied on very rangy mares, will not throw stylish carriage homes fur which the highest prices are patd. In active disposition is also of the tiry importance, and this should show itself in a clean guirk stride and a gaj carriage. $A$ serions imperiment that has kept down the quality of our horses, both driving and draught, has leen duc to the atersion of many breeders to pay a few dollars evtra for the service of a superior stallion. Supposing you patronize a "plug" stallion lecause hus fee is only fise dollars, in preference to a pure-bred one of better merit in every way because the fee in this case is twenty dollars. It will cost as much to rear either, and we feel sure that if the pure-bred sire has been at all worthy of his service fee, his colt will sell for at least fifty dollars more than the other, when they lecone four year olds. That means that this difference of iffeen dollars in the first place has groun to be a difference of fifty dollars in four years, or in other words, that the invested fifteen dollars has yielded a gearly interest of over fifty per cent.

## Use Gypsum.

It has been clearly shown loy Prof. liolerts, of Cornell, that the liquid manure proluced from a herd of cows has a fertilizing value of forty four dollars for every hundred dollars' worth of fookl that they consiume. We will venture the assertion that on the majority of farms fully one-half of the liquid marure finds its way through the stable floor or dribbles into the creck. With straw liberally used the greater part
may be saved, but even under the best of management, with straw a considemble portion is lost. Through the use of gypum, or land plaster, in conjunction with straw, a complete saving may be made, and the value of the manure further adeced to by the fertilizing value of the gypsum itself. The best white gypum can be bought for three dollars per ton at the place of shipment, and as it only takes at the outvide one pound per day for each animal to save the liquids and keep the atmosphere of the stable sweet and pure, the cost per day comes to the small sum of one sixth of a cent. By a number joining together and louying in car lots it woukl conte much cheaper to them thinn if only small quantities were taken at one time. It is to be remembered that gypsum as a fertilizer alone is worth the cout price to the majority of farmers, while for purifing the atmonphere of the table and saving the loss of gases and liquidh of great fertilizing valuc it cannot le equalled.

## False Reglistration.

The worth of any stud, herd, or flock book depends almost solely upon the reliability of the registrations that have been made therein, and these ag.in rest upon the integrity and carefulness of the breeder in transmitting facts and the evactness of the compilers, and their ability to ferret out and exclude those entries of a suppicions nature that are offered. In most cases, to the honor of those using the registration records be it said, wrong emries ate due to carclensness, but it is a fact nevertheles that the conscience of some mortals is su little in comparison with their avarice that the former mas be easily swallowed up by the latter, and the eveuse " a slip of the pen" used as. Inalm to salve the wound in the minds of the honorable public. It may be of interest to some of our readers, and of benefit we trust to very few, to know that it is a serions matter to knowingly make a false registration, and further, that upon the culprit the law lays no gentle band. To our mind it really amounts to obtaining money under false pretences, for pedigree prosences a money value, and false registrations, knowingly made, are submitted with the hope of either securing more patronage or selling the stock for increased prices. We notice that the officials of the Dominion Draught Horse l3reeders' Society have lately been carrying on a suit against certain parties who had furnished false data. The plea set up by the defendants was that the false entry was purely a mistake, but it is a corious fact that the pedigree was made considerably more valuable because of the substitution. A couple of other cases of a similar nature were also up before the court, but owing to the oljection raised that the informations were not laid within three months of the committing of the offence the cases were dimmissed. - is bad enough to have " legal fiction" buffet hard facts through juggling lawyers, yet it is worse for dis-honest-minde! persons to know that through such quiblles as these they may defy the spirit of the law and yet often obey its mandates to the letter. Little tish, however, can swim in any bucket, and it takes a fine net to eatch them. The action instituted by the officials of the alove association will prove an effective reminder to those knowingly lax in their entries to be more exacting in the future. A case of somewhat the same nature was up before a Glasgow judge a short white ago. A stallioner represented his horse to a breeder as being a pure-bred Clydesdale, but after the latter had patronized him he learnt thai he was not a pure-bred, and on this account refused to pay for the stallion's services, though the mares were in foal. The outcome of the suit was that the judge gave decision in favor of the defendant.

## The British Markot for Mutton.

At present the nutlook for the sheep industry is brighter in many ways than it ha, been for some time. The fart has become known to many of our farmers that, all things considered, the sheep of the farm will compare favorably with any of the other domesticated servants in respect to the proluctiveness of their work, and reliability in mahing payments. Our American fricmels in such cities as !ubfako and New York have smacked their lips in an appreciative manner over the luscious chops that reached them from Candian pastures, lut the political practitioners have placed on record their disapproval of this, so that it is altogether likely our mutton must seck a market elsewhere. It is gratifying in this connection to read the report of the Canadian Govesnment agent at Liverpool. Mr. J. Dykes writes that, notwithstanding the large importations of frozen muton from Australia and the Niver l'latte, the price of live sheep has been fully maintainer and the primest Down sheep readily realized 20 cents per pound; and further, that the prospects for British and Canadian sheep raisers are better for 1890 than they have been any time within the past ten years. Mr. Djkes is of the opinion that with care and attention, and the introduction of Down sheep into the Dominion, breeders there will find a profitable market for all the sheep which can be exported to Grea Britain, despite the increase in the frozen mutton trade, and to warrant this assertion he refers to the present state of the market. He notes a novelty in the Canadian enport trade last year, namely, the arrival of a consignment of Canadian Jambs. It is sated that these were by no means of exceptional quality, but they arrived in splendid condition, and the mortality was very small. They were eagerly lought up by graziers, and the intention is to keep ibem as stores until next year. The venture is said to have been se profitable that arrangements are being made to extend the business considet.iliy: " Iif," says Mr. Dyhes,"by theintroduction of early ma,uring sheep, Canadian farmers could produce a lamb 60 lhs. weight, to ship to this country in October, I am contident they would find the British markets far more profitable than those of the United States, which have been hitherto relied upon, and the result would be a great development of the export sheep trude." A breeder in England has just published a report or his lambs, which shows that his wether lambs, fed in the ordinary way in the fields, sold for between $\$ 15$ and $\$ 12$ each, at from six to nine months old, probably the average did not eaceed seven months. There is nothing to prevent Canadian farmers with care and attention, obtaining equally satisfactory results."

## The Prejudice Against Barley as a Stock Food.

Prejudice, favorable or unfavorable, is one of the most malignant types of imperfect knowledge, as there is no other form that will so effectually impede the upward progress of man. It may be safely ztated that the intelligent man is most casily separated from his opposite, by the degree to which he is open to conviction and free from the nuluple prejudices that enshroud the human mind. Careful though he may be, yet the most liberal minded man is apt to allow his opinions to develop into prejudices, so that it be comes us to often inquire into our opinions, weigh thet arguments for and against with justice, and recon struct the conclusions if necessary. In this direction we would ask those that have no faith in barley as a stock food, to carefully consider the grounds they
have for such an opinion. We believe that this grain is lingering under a prejudice, and the difficulty is, that it is an impossibility to locate it. The principal reason way many have not fed it , has been due to the fact that it has always brought a good price in the market. As the price is now low, and as there is not much prospect of an advance, many will be in a quandary as to the extent to which they ought to sow this season, and hence, a few facts to show the value of this crop outside of that given it by the market, may not le amiss at the present time.
In nutritive value, barley and oats are very nearly alike, with the exception of the fact that the latter contaius considerable less husk or fibre than the former, and on this account oats have been specially valuable as a single gmin for horses. It must be admitted that barley unground and fed alone with hay, is a poor feed for horses, ime ground with other erains, or boilch, it is of great value for this purpose. A mess of boiled barley every Saturday night is excellen to keep the system of working horses in healthy condition, and used in this way it is equally as beneficial as a bran mash. Many horsemen believe that only oats alone should be fed horses, overlooking the fact that the latter, as well as the other animals of the farm, are fond of a variety, and on this account, a mixture of chopped foml, barley and oats in equal proportions, will often be surprisingly bencficial. It is the curtom in Europe, as well as in the Western States, to feed barley extensively to horses, and in the latter, it is cut early and made into hay in considerable quantities to be fed. For cows, barley has been found to give excellent results as a food, ground, and with other grains as a part of the ration. It is,however, specially valuable for feeding calves that are on skim milk, in conjunction with chopped oats. They like the mixture and do well $\cdot \mathrm{n}$ it. Barley has long been tried as a food for pigs and for linishing them off for market few ioods are so valuable. It is not as fattening as corn, but is ahead of most other grains in that respect. It only remains, in conclusion, to mention the high position that barley has always held in the estimation of the poultry fancier and alluded to its value as a green fodder when cut early It may be sown late for the latter purpose as it is not easily damaged by the first frosts. We bespenk for this grain a trial, for we are convinced that it now labors under a prejudice which it would be to the interest of all to remove.

## Washing Sheep.

Sheep-washing is of less importance now than in former years, iecause it is less universally practiced. However, a majority of the farmers of Ontario still wash their sheep, hence the modes of doing it is a matter of no little importance. The common practice is to drive the flocks to a brook where the water is sufficiently deep to cause the sheep to swim while in the act of being washed. An enclosure is built on one side, and after the operation the animal is allowed to emerge from the water on the farther shore. This plan answers very well where the water is deep, and he bottom of the stream does not consist of soft mud or clay.
Other methods, however, are preferable to this where the facilities are at hand. One of these is to hr ow a dam across a small stream with a board shute in the centre of the dam, and almost as high as the same, through which the water will run, and underneath the fall from which the sheep may be washed. The expense of this would be too great unless there
exists some further reason for the retention of the dam. Sometimes streams of more magnitude are at hand where permanent dams are already constructed with an evel. flow of water over the top for a considerable portion of their length.

Itere an enclosure maj be constructed on one shore, where the sheep are driven. A floor of loarde not closely laid leads from this to the farther shore, along which the sheep are led to be washed. This floor may lex protected on the lower side, or on both sides, by a low fence. One man hands the sheep through the lifting gate to the washers. With their rubber suits on they can work for a long time without dis. comfort. This plan is an excellent one in a neighborhood where the number of flocks is large. The farmers can club together, and share the expense of huilding the enclostures required.

In washing, the wool is presied together by the two hands grasping all that they will hold, and pushing them toward each other, while at the same time each syueczes the wool tightly within its grasp. This should be continucd until there is no more discoloration of the water when the wool is so squeczed. Beyond this any further labor expended is lost.

Tagging before washing is very important. This consists in removing all the portions of the wool, with an old pair of shears, that maj; be bound tegether by clots of dung. These tags if very foul are worthless, but sometimes it may be worth while to soak them and wash them for sale. Tagging had better be done at home, but may also be performed just lefore washing if necessary.
Another mode of washing, where streams are not at hand, is to construct a box of sufficient depth into which the sheep are led, but in this case the water requires to be changed frequently. There will be no difficulty in doing this where a tank is at hand sup. plied with a hose. but otherwise it may prove a laborious operation. It has this advantage, however : the water may be warmed to the desired temperature; which avoids the danger to the health incurred by standing long in a stream engaged in shecp-washing, when the temperature of the water is anything but agreeable. Rheumatism and kindred ailments is often the fearful price paid for the "fun" of sheepwasbing in a brook.

Latterly the tendency is to shear the sheep without washing at all, and where the sheep are at all kept as they should be, there are many things to recommend the practice. The fleece may be removed much earlier, which is a great advantage to the sheep. It is simple - uelty to leave the wool upon the sheep, on into the summer heat of the month of June, as is so frequently done. It also enables the work of shearing to be put past at a season of the year when labor is cheaper, and other farm duties are less pressing.
The great $0^{\prime}$ istacle in the way of the more general adoption of the practice by farmers is the difficulty met in the disposing of unwashed wool. There is no definite understanding as yet between buyer and seller as to the amount that should be deducted for shrinkage because of the dirt which the wool may contain. Some buyers deduct one-third, and some one-half. The latter amount is manifestly too much, unless in a very few instances where the management of the sheep has been neglected.

It is apparent, however, that no fixed rule can be adopted in reference to this, although a general one could be. The difference in the amount of dirt in fleeces of different flocks would stand in the way. Much, therefore, must remain with the judgment of the buyer, and, after all that can be done, individual sales will have to be matters of adjustment between buyer and seller.

The relative shrinhage of wabled an compared with unwathed "ool is ne" the eaviest thang to determine, owing to the difficulty of avertaining the weight of a tlece evactly lefore it is horn. The difference between the weight of an mnashed theece when tirst shorn, and of the same fleece washed after bhearing, dees not reprewent the exact amount of Jrinh.ige in a fleece born before washing, and the same fleece, if that were pmible, vhorn after warhing. The amome of goth which comes lack into the wool in the ereond case is to lae comidered, and thi is a vomewhat undeterminable factor.

Before concluding this paper we would like to call the attention of our readers to the wholom and humanity of hamdling in the most gentle way the proor dumb, creatures so easily injured while undergoing what must prove to them the most unpleasint ordeal of washing. Becauce of rough treatment in landling, and of orerheating on the way to the place of washing, valuable animals are oftentimes lowt.

## Keep the best Brood Mares in Canada.

The frble of hilling the goose that lay, the golden cge is as old as . Exop, but the acts which it condemm are as young as geverday. We find examples in the selling of the best of our brood mares to American luyers, which had better tee kept at home as breeders. This process has gone to such a length that it is assuming an appect of sectousness, especially in the line of heavy draughts. It might be taking strong ground to say that the farmer hould never sell the bent of his stud, for the price offered might be such that it would involve much risk to refuse it, but generally speaking the beet should not be sold.

The stringency of the times may account in part for this course complained of. That the Americans to whom we usually sell want animals of the first order is a further explanation, but that either of these reasons should justify a continuance of the practice is false logic. If we yield to the temptation to sell such mares there can be but one result, and it is this, that after a time we munt cease to hate good mares to sell, and so will love a market which we are most anxions to retain.

The old country brecelers set us a good example in this respect. In the breeding studs there, a number of mares are set anide which are virtually lalrelled "hands off," and if one sets upon them an eye that is ever so covetous, it is of no avail, for ordinarily they refuse to sell. The; know full well that unless the individuals of the stud generally come up to a certain standard of excellence, the tranatlantic trade must cease.

It is certainly very much to our interent that we are favored with the American trate in heavy horses, both for purpoes of breeding and iabor, and it needs no line of elatorate arguing to show that it is to our in. terest to retain this trade. If the tariff wall is raised higher we are not without geod hope of elimbing over it, providing we can produce better horses than are usually produced in the United States. Ourchief hope of doing this lies in breeding from the best in our own studs, and by raising sires of the most approved excellence individualiy.
The practice we are condemning is most discuurag. ing to those enterprisiag men who introduced good stallions into neighborhoods for the improvement of the standard of the horses in these respectively. They are not encouraged as they should be, for farmers whose mares are only inedium, or interior, cannot af. ford to pay a service fee equal to those whose mares are of approved eveellence. Nor is it reasomable to
evpect that the progren in such intances will be of a vers high order, for though the excellence of the male has very much to do with the production of geod horese, it is important at the cane time that the female le goml also, or the progeny will not lee so goral as it should be.

The evtent to which this trade might be developed is really without limit. The cities across our border, in all the newer sates, are growing with an amazing rapidity, and with their grow th the demand for heavy borevs heeps pace. The demame in our own lominion is very considerable, and is likely to be more. With due attention to breeding and selection, the acknowledged superiority of our horses may eacily be retained in the several Provinces of the Dominion. In such a case the market is sure for a long time to come, for a tax of tell dollars of a tariff, or even a much larger sum, would not prove an insuperable barner in the sale of horses of undoubted excellence, when these are wanted in the great republic which finds so much use for a large proportion of what we raise. "Aim high" is a mioto which leeomes alike the peasint and the king. It is upecially applicable to the breeders of good stock, for their mistakes are so very dititcult to rectify.
The line of argument adopted in this article is equally applicable to the breeding of all kinds of live vock. The lest must be retained with every successful breeder, so long as the rule holds good that " like begets like," or the change will be downward rather than upward, and this would be disastrous to the live stock intesests, which are by far the most important in this Dominion at the present time.

## To be Well Shaken Before Taking.

We hase been favored with a circular issued for the purpose of securing the opinions of those interested in our attle export trade, as to the advisability of establishang a port at some such place as Longue Point, for instance, for the hipment of American carte to the British marhet. We have already plainly evprened our viens of this scheme, and as the conclusions given then were the result of careful and thorough consideration, we do not abate one jot or title from our first povition. The draters of this circular rightly express their confidence in the good sense of the British auhoritics, but we are forced to differ from them in the assumption that this ame good sense will prevent them from schednling Canadian cattle, were our authorities so rasla and lax as to permit of Anerican cattle being inpped from a Canadian port. Sir Charles Tupicer, in his report as Hugh Commissioner says: "Calle diseases, and more especially pleuro pueumonia, have been very troublesome durng the past year. It will not have escaped your notice that seseral cargees of anmals affected with this seourge have been imported into British ports from the United States. There is no doubt the cargoes from Canada are being carefully watched, and I cannot too strongly urge the necessity for every precaution being taken to prevent the importation of the discase from the United States into the Dominion. The arrwal of a single cargo from Canada would have serious results upon the live stock trade." During the last seaton there has not been a single case of cattle disease in animals imported into the Bratish markets from the Dominion, while almost weekly the Canadian agent at Liverpool reports cattle from the United States slaughtered at that and other ports, are found infected with it. It is further stated in this circular, that the British farmers have petitioned the home government to allow American
cattle to be taken into the interior, and be fattened and fimiohed as our Canadian cattle are. Such a wwepling asmertion is not justitied by the facts. As Sir Jacol Wison at a recent council meeting of the Rogal Agricultural Society expressed it, the demand for stores is to a great extent local, and as dhat gentleman state, of this measure, " it is on this side of the water mainly advocated by the gentemen, who, however great their stake may be in this country, have considerable interests in the United States, which very naturally cause them to be anxious, if possible, to open up en eyort trade from that country to this." dt the same meeting a resolution was carried unamimonsly, emphatically protesting against any present relanation of existing regulations. The epistle we have to hand reasons thus: "Some 12,000 head of American cattle have passed in bond over 600 miles of Canadian railway since November last, on the journey to the port of Porthand. They were all unloaded, fed, and watered in Canada. They were not and are not subject to any inspection for disease by our government inspector. Some 200,000 cattle pass annually over 229 miles of Camadian railway. They come from Chiengo, and enter upon Canadian soil at Port Iluron and Windsor, and pass out at Buffiln for the ports of Boston and New l'ork. We have pointer out," they say, "thenumberof cattle that pass through Canada in loond. Why refuce to allow similar cattle to be shipped from isolated yards at Iongue Point, where they would have the benetit of a thorough inspection, as against nonc?" "The pres. ence of a small evil an never be made a justification for the adoption of a larger one. The Canadian government should at once take steps to see that catte shipped in bond should be inspected before they are allowed to lay a hoof on Canadian territory. We have observed with pleasure the firm stand the Dominion Minister of Agriculture, the IIon. John Carling, has taken on this question, and we would urge the desirability of still further lessimug the chances of this fell disease gettong a foothold in Canada. As to the advantages uged, the carcular states that there would be an wereased revenue at the St. Lawrence ports, a bisger tratice on the Camadian railways, greater impetus to the shipping trade of the St. Iawrence, a good thing for the farmers and millers in the vicinity of Montreal, and more business to thr: insurance companies; but what, we ask, of the bast interests of the feeders and exporters who profit to the extent of from ten to twenty dollars per head on every animal exported through the present clean bill of health that Canada can show? In the same circular we notice an appeal to Canadian patriotism, asking is it loyal to build up the trade of tue poits of New York, Boston, and Portland? We, in turn, appeal to the same strong sentmint, and ask is it loyal for Montrealers to buld up the trade of their city on the sacrificed body of one of the greatest interests of Canada? Remember that during the years 1887 and 1888 the United States government has expended nearly one million dollars in attempts to cradicate pleuro-pncumonia, not to mention the millions of dollars that have been spent since its first introduction in 1843 ; think of the fact that 150 cattle, more or less valuable, have been shughtered in Great Britain during the last four weeks, not to speak of the vast expense and trouble it has given them since its first introduction, nearly fifty years ago, and while doing this the importance of the heritage we have in our climate, and other healthy conditions, will be the more appreciated, and thought more worthy of being carefully guarded. As soon as our neighters to the south realize the truth of the whole-
ome advice given them lis the Rrieders' Gaidet, and at once adopt vtringent measures to wipe out this foul disease in such states as New York and New Jersey, then Canatian stockinen will, no doubt, be welcome to endorse such a cheme as that before us.

## Rambling.

HEREMORIS AT " the lidRK."
This herd, owned by Mr. F. A. Fleming, of Wenton, is in tine contition. The encouraging feature at the present time is the large number of calses that are coming to liand. The lach of this is the great sorrow of the stockman who is found very much in the show ring, and who keeps his catte fed very highly without an adeguate amount ofevercise.

The bulls in use arr Conqueror 2nd 33482, a son of the Enperimental larm buil, a three year bull Lord Fenn 24030, by Downton lboy (5877), 4434, and Wilton llillhury 36125.
leyond what we expected to find in this province. The Smith Brothers are showing movt excellent judgment in their selections, and have spared no pains to secure animals coming down from an ancestry renowned for performance at the pail. This wiil be at once apparent when we mention that the bood of the renowned Mercedes, Mink, Netherland Aaggie, Wayne, Clothilde, Siepkje, Artis, Tensen, and Thema straim thows freely in the veim of the animals of this herd.
The stock bull, Mink's Mercedes Baron, the weepstakes silver medal bull at the Irovincial 1:xhibition in 1889, is very perfect in his development, and is come from milking strains of much renown. Some of the females are of great beauty and size, as belle of Orchardside 2nd 6256, 11.1.11.13., the tirst Holstein cow in the land in the show-rings of 1889. Otherv of them are noted performers, as Belle of Orchardside 5809 , II. II. B., with a ecord as a two-year-old of $1037,1 / \mathrm{lbs}$. in 30 days, and Onetta 1816,

There are a number of Holland bred cows in the herd, which are proving themelve, move evectlent breeders. To enumerate them would prove tedious, as the cow, heifers, calies, and bulls, young and old in the herd, number now alout 65 head.

The stock bulls include Prairie daggic l'ri..ce, No. 2, II. F. H. 13. : Alrican l'rince, No. 1270, II.F.II. B. ; and Netherland Statesman' Cornelius, No. 6337, II.F.Il.IB. The first is a magniticent animal, and w.is never beaten in a Canadian show-ring, and the second is imported from Itolland.
 vis.te.
The imported Clydes of the a the this year again animals of great evcellence. 「. Vessrs. Beith seem to aim at getting the best animals $1 . .$. ; ran find, and their suceess in the business is a vtriking comme.:on the julgment which they show in making relec. tions.


Winucr of Fint Prize at hirmingham Shorthorn Slow and sale $18 y 0$. Sold for $\$ 3330$ for evmertation to South Imerica. Ripmoluced fnym Lomion Lizi Sfock Journal.

Miss Broady, the fanous prize winner 23852 , is still in the herd with her great wealth of nesh, and also Miss liroady 2nd 26399, imported in dam, and a tine rangy two-year-old, Miss Broady 2nd, along with a large number of good females, and a few young bulls. One or two pens of one year heifers show much promise.
Sales from "The lark" are largely for the American market, although for producing shipping steers to be finished on grass, as is largely pacticed in some parts of Ontario, some of those young bulls had better be retained by Canadians. The normal average of the herd is about to head. The straightforward square dealing that has characterized the management of the herd, along with the good quality of the animals, leads former purchasers to come again when they wish to replenish their herds. holateins at the chedit valdey stock farm.

We were not a litte surprised at the perfection of the management of the Smith Brothers, of this farm, not that we had any misgivings as to the ability of these gentemen, but the system practised and the fine slape in which we found things generally, were
D.F.H.B., with a milk record of 10,607 lls. in ten months.
The escellent breeding condit:on of the heral may be judged of by the fact that but one anmal is found in it which will not reproduce her kind, although the normal average of the herd is from 60 to 70 head.
the holstelns of the siring brook stock FARM.
Mr. A. C. Hallman, of the firm ot A. C. Hallman ※ Co., New Dundee, is plying his youthful energies with his accustomed vigor in the management of this herd. Having won sufficient haurels in the show-rings of former years, Mr. Hallman is resting in this respect for the present. His herd does not, as a consequence, contain any animals damgerously fat, and the calves at the Spring lirook Farm are coming both thick and fast.

The herd is built upon a succession of importations, that of 1884 coming direct from Holland. It contains descendants of such famous families as the Netherland Prince, Royal Aaggic, Billy Boleyn, Artis, Alexander, Willem 3rd, Empress, Johanna, Clothilde, and Lady liay.

The famous sir Maurice (4721), by Lord Erskine (1744), has been sold, and has gone west for the insprovement of the horses of Wellington. The four-year-old Sir Walter (Vol. XIII.), ist at London and Toronto in $18 S 9$, is a wonderful mover for a horse of his weight. His good ribbing, good back and quarters, give him a fine balance of adjustment. ITe is 100 good an animal to be allowed to go from Ontario.
The Knight of Craigburn (5118), by Sir Wiyndham (4728) Vol. VIII., is a heavy horse and well cone. The three-jear-old Ardlethen Boy (5493) Vol. X., is of strong type and fine development. He is by McCamon ( 3818 ) Vol. VII. The four-year-old Earl Lennox ( 6710 ) Vol. XI., is a pretty horse with fine form and limb. The four-year-old Fastfied siyle (6723) Vol. NI., by Ghillic Callum (3629), has won many prizes in Canadian show-ringe. Candlemas (5614), also four years old, large in body, and strong in limb, is a useful horse. Renfrew Gallant (Vol. XII.), the same age, is neat and shapy, with no undue weight, and crowned like all the others with grandest pedigrec. Easticeld Chicf (6715) Vol. XI., is cast in
an eveellent mumh，lowng munted eveellents and carrging dhandant silhy hair．Eavtiedd Iaddie（0719） Yol．Sl．N a neat clone compled hores，thate year
 Vol．XI．，Mc（olman（egos）Vol．Xl．，anl Clyale Admaral Vol．Nil．，all three－gear old，are lite the revt，whirable yecimem，and the same may lee sad of those not mentomed here．Indeed there are no cull．and nobe infeinor．and the excellence of the breeding may lee inferred from the freguency with which well namev as l＇rince of Wialev（073），I．ord Erhime（1744），I armey（222），McCamen（3SiS）． l．ard llepreloun（2905），and one or two scores of other ahoove equally gimel，weur un the pedigrees．
of the female，Mama，Vol．XIl．，Ino gearnold，by Bhatere（22S3）（al．S．．in one of the ment wapels Clydererer brought acrow the sen．

##  आג！いいい，bat－i！

The COyde．－There are prolalils half a doren pedigreed clyde brocel mares at tha fam，and all powessing that gerchnew of dumbt）which to wegreat an event has characterized the ctodeo．Ired ixeth here and at the home of James I．Dasidoon，near at hand．Fours of the mares have joung foals at foot． The tallion lewie （iordon hav recently leen pur－ chased from sorly lirothers，and he has wonder－ fully developed of late．He is aloo weellent in perigrece，as will lee clear to those who trace carefully the performance of his ancestry．

The Shoudhons，．．．We were amazed at the per－ fection of the shonthom heifers of this herd．There are half a doen of them one and two year old，which for quality，that thing which is alway，more eavily felt than decoriled，would perhap pubsle ans Short－ hom herd in Canada to produce the like．They are of Cruihshank and Cruihshank－Camplell strans， which almont mean that they ate（ruih hank strains One of them eypecially，a two－jear－old roan，a mareel of perfection，is one of the most perfect handlers ever turched by hamb．If Mr．I Davidson is suceewful in breeding from these，he is soon going to have a grand herd．

## kosehill．siock farm．

This farm is situated about a mole or wo from the bustling town of（ialt，and is approached ly a beautifuy rising walk that atfords at exery sep a emptovating view of the surroundang country．The proprietor is Mr．J．C．Detrich，of the manufacturing firm of Messr，Dietrich a Shurley At present the hine 0 breeding moself followed is the profuction of good serviceable drivers for the American market．It the head of the salpes stand，the standard－bred stallion Axland（6693）．His pedigrece is as follows：


A，and was bred ly Chas．Jachmam，the proprictor of Stony Sted lam，N．S．，the former owner of the now fanous Electionecr，of Palo Altu larm．Leland， the sire of Axland，was got by the well－hnown founder of the Hambletonian family，Kysdyk＇s Hambletonian 10，while，through his dam，he races to Seely＇s American Star，thus combining that blending so eagerly sought for now，the Hambletoman－Star cross． Through his dam Axland traces in almost equally
fertile sources of trotting lilord．Prineeps，the sire of Inv，w the presem headight at Indian IIill Iarm， Kemtuchy，and ingiving a grod account of hinuelf there，being now the sire of $i=$ inside the narrow circle oi 2：20 and leetter，including Trimhet $2: 14$ ，while his yeed－producing get are many．On his dan＇s side alow ．Whand traces to the favorally hnown fami＇y of diolddust，of Morgan evtraction，and further， through the mare cirace to the far－faned sire of pro－ dueng datur．lilot fr．It is not necevary to say more of the ancevors of this horse to warrant the statement that his breeding is a happy combination of the best．In appearance he in a leamifully fini－hed harve，a darh hrownin color，and clear of all markings． He has all the spirit and quality of a thoroughbed， with the conformation and breeding of the trotter． An melligent face，mild，though clear eye denote： that Aland is not one of the ratle headed clan，while his mucular and lone development and rangy appear－ ance procham his value as a getter of superior driving stech no matter hon cold the blood of thowe given him．Inothar stallion here was Captain，by Victor， grandon of Volunteer，dam hy Eelipne．This horse is a rich chevenut，evtra well－developed for a two－jear－ old，as he stands fully tifteen and a half hameh，and has all the appoarance of a matured horse．The stables elso cantain a number of good brood mares， including 「iellie Golddust，by Dorsey＇s Golddust，the founder of the Golddust strain．It weukd be going too much in details to mention all the colts，but it may be mid that they all，more or less，showed a repetition of the gool qualities of their sire，Asland．They were all possessed with his characteristic freedom and rapidity of stride．And the fact that they are all from mares of indiscriminate breceling is a strong testi－ monial to ．Wand＇s prepotency．A splendid pair of small drivers had just been sold at the thme of my visit，and a neat span they made．Mr．Itictrich also holds for sale a strong，nice bay gelding of the hunter stamp，that would weigh about twelve hundred ；and another encellent driver，rangy，a nice seal brown，and of－plendid action．

## MR．SADIER＇S SUFIOLK STALILONS．

It is stated by reliable athorities that over five times as many Suffolks left Great Britain for America last year than ever before，and this certainly mdicates that their qualities are being appreciated on this con－ dinent．Few importers have done more to populanze this breed in Canada than Mr．Saller，through the importation of horses of mert．Young Ilero（1515） is well－known to most Canadian horsemen．At the time of our visit he was in excellent trim．A pen description of him cannot do honor to the subject． He has a very antelligent and expressive face，full neck，and crest finn with muscle．In foot and limb he has the best of bone，while his arm and gaskin is very muscular．Lie stands over siateen hands，on ，hort legs，but is deep in the body，while he weighs over twenty hundred．Cupkearer III．（566）was his sire，and his dam was Butler Moggy（326）．This staltion has covered himself wath honors in the show－ nong，having won seventeen frst－prizes，three second， one third，two specials，eight diplomas，one gold medal，four silver medals；and also in England as a threc－year－old he captured a valuable silver cup． Roschill，another stallio，at these stables，is a get of Young Hero（1515），dam Spark，by Houcher＇s Suffolk Punch．This staliion is a beautiful rich chestnut in color，standing fully sixteen and a half hands high． He has a splendid appearance，with superior develop－ nent of bone and muscle．He also has made a glori－ ous record，being first at Industrial＇ 85 ，first in class ！of ten at Columbus，Uhio，＇86，tirst at Toledo Tri－

State Fair，and uecond at l＇rovincial（（itelph）in class of fouteen the sume year．In＇ 87 lee won the red ticket again at Toronto Industrial，and followed this up the nevt year by securing first and silver medal at the same exhibition．Mr．Saller aiso had a spank－ ing pair of blacks，one by Camada Southern 2：35，and the other by（Hephetw 1416，by Almom 33．They are an evcellently matched tam of tinest quality，and leest of action．Another bay mare by liart＇s Messenger， dam ly lifileman，was also in these vables．She is a leantiful mate，high in quality，stylish in appearance， and quick in action．

## The Shorthorn Bull Pinnacle．

Thi，divtinguished bull calf was bred by John （iame，of（ireat Rissington，Glowcestershare，and was sold to Ifessrs．Yeomans for $\$ 3,330$ to go to South America．He was calved July 30th，1888，being b； Risington lat 4 th 56410 ，（who，with his tuin brother，was sold at bingley IIall in 1888 for 6339 ）， and ouf of link $52 n d$, bs Nonpareil，of the cele－ brated Mason P＇ye fanily：IIe is descriled by our London manesake as leing dark red in color，and a level，lengthy hall，with goond head and horns，even top，wide in ront，and with good fesh and hair．Ile was successfully exhibited last year，and it is said that he was so much thought of at Great lissington that he was mated with one of the leest heifers there．

For the Canadian lave．Stock ario Faky Journal．

## Seed TIme in Manitoba．

## THE STALIION SHOWS．

（lirom our ouvn con rispondent．）
seed time，though close on a month lehind last year in coming，was all that could be wished when it did come，and there never was a season when land was in a better state of preparation．It is alleged by those who ought to know，that there has leen three feet of snow in many parts of the prowince this season， and，in an ordinary season，this would have made a lig store，melting so late as it did but this year the streams have searcely moved above their ordinary low level，and there are，in the south－vest of Mamitolin， atretches of country that are actually too diy for a free germination．All within 60 miles of Winnipeg the snow has been most abundant，and grass and grain must do very well indeed．We have not any Conanza farmers here and don＇t want them，but McLean and McRobbie，at Portage，will seed 1800 acres，and Messrs．Springstein，Sorlyy and Camplell Bros．， 800 acres each．The real strength of this country lies in the half section men，and，where fam． ilics and groups of old neighbors from the east have settled，make by far the most pleasant settlements every way．We are having a considerable influx of good settlers from the east and some from the old world，too，but none that we value so much as the ready－handed men from the east，with their carloads of stock and oulfits．
Besides the work of seeding，which will be got through in good time，our attention during the month has been taken up here and there with local stallion shows，about a dozen in all．In outlying districts there are from 6 to 12 such horses present，some of them rather better than their pedigree，at least，to look at，and some of which the pedigree is the best part．At such a comparatively ${ }^{2}$ w place as Elkhorn Ifound two pedigreed Clydes，it a string of pedi－ greed mares fit to be seen anywhere．The horse，as a rule，pattakes of the nationality of his owner．Mir． Head，of Rapid City，who brought in some very well bredClyde mares，and had last year very hardluck with them，has fot them on a different tack now．They cither work for their living or＂rustle＂for it all through winter，getting only a moderate allowance of hard feed，and are doing well every way．He wants no more mares stuffed for sale，and finds that consti－ tution in the colt can be more certainly relied on，the more rough the fare of the dam．A good few mares have had，last winter， 100 much of this mode of pro－ moting corstitution，for feed has been both scarce and dear，and stock has been pinched accor jingly． Big herds of cattle，of all ages，and strings of colts are now going to and fro，being taken back to their homes，on old farming districts，from the places where more abundant food necessitated their being wintered． Baie St．l＇zul，the great northern lakes，and Lake

Dauphin, have wintered some thousands in this way, hay and water being always in reaeh, and wagon load of early calves head the homeward bound $\boldsymbol{p}^{\prime r o}$. cestion.
Our government has come down pretty liberally With $\$ 7000$, to pay premium for the contemplated fall show at Winnipeg. Thry take no other hand in it, and it must be controlled by the city men who started the movement, the city itself passing a by law to raise $\$ 25,000$ to put up the necessary buildings. It will tahe pretty live management to build and make perfect preparation - for a good sized thow in Octoler, the carliest date at which the show can be held, but there aever was any movement here hefore that had such hearty concurrence from people all over the province, and, with a goos season, a very fine show may confidently le rechoned on.

Though the Iortage IIorse shou was the big event of the spring season, the three along the couthern line, held at Manitou, Pilot itound, and Morden, were will very useful. Along with some rather poor ypecimens there were some very good horese, both imported and camadian bred, at all the places, provine that everywhere farmers who are careful of their breeding may have the best of sires if they wish to pay for them.

In the neighborhood of Manitou there are a good few cattle atlicted with alout the same symptoms is la geppe in the human subject, and which Dr. Young, the local veterinarian, has no hesitation in pronouncing la grippe and treating accordingly.
The farming proupects for Manitoba were considerably improved by a few moist days following a severe wind storm that came up from Dahota on the $19 t h$
April. From broad casted and harroned land, a April. From broad casted and harrowed land, a on presodrilled land, especially where the drilling ran east and "est, no harm resulted from this cause.

## Better Accommodation for Cattle Exportation.

The accommodation at Montreal for the exportation of live stoch is not in heeping with the importance of this industry, and it has on more than one occasion
given rise to discontent on the part of exporters. The given riee to discontent on the part of exporters. The
Dominion Live Stock. Asociation have taken the matter in hand, and we trust that the cwic authorities may recognize clearly the magnitude of the interests at stake, and assist in affording exporters bater wharf accommodation for the loading of catte and sheep upon the ocean steamers. The association have advanced the following well grounded arguments in a circular, that has been sent to the Montreal Board of Trade, and other influential bodies:

## To the Prosadent and Counct of the Montreal Boara

 of Tradi.i. The iise stock industry has assumed gigantic proportions within the past few years. The season of iSS9 showed an increase of 25,000 head of cattle and 13,000 head of sheep. The total value of hive stoch shipped from this port in 1889 was about $\$ 8,000,000$.
2. Canada is destined to be a great agricultural country. Farmers must of necessity raise a certain amount of stock, as root and grain crops impoverish the land whilst cattle enrich it and pay the farmer equally well; therefore we belleve the export of live stock is sure to continue to increase. It interests us as live stook exporters and you as representative citizens of Montreal in providing proper facilities for the handling of this important industry.
3. In view of the contemplated harbor improve. ments, we deem it a proper time to bring the matter t. the notice of your board. We respectfully ask that wnarves be set apart (say at Hochelaga or Windmill point), where ocean steamers could receive their living freight after the general cargo had been completed. Both railways should have access to such wharves. Union stock yards would be built and the animals would be put on board direct from the sheds, thus effecting a great saving in time and protecting the poor dumb animals from all the abuse and rough usage that they are at present subjected to. This vould centralize the business and reduce the depreciation and mortality to a minimum.
4. The custom of loading cattle and aead freight at the same time is disastrous to us as cattle exporters. In most cases the animals are kept upon the wharf for four or five hours under a burning sun, tramping through general cargo (which is usually littered all over the wharf, such as fine clay pipes, sheet and
scrap iron-horning, cutting and maiming themselves, and very often jumping into the river. All the lots of cattle have to le kept separate. This is no easy matter considering the number of teams that are continually driving through them.
5. The abuse the animals receive at this port, owing to the present system of loading, put them in anything but. fit condition for the ocean voyage and the English and Scotch markets. In many cases large numbers die from exhaustion. Witness the mortality on the steamship Cartharmian last year, in which over 1 So head of cattle died between here and Duelue. "lhi was largely due to the animals having been heated up on the wharf previous to loading, and to the fact that the steamer liad not completed her cargo, and had to remain at the wharf for several hous after the cattle were aboard. Catte that are heated and eveited at the loading depreciate very much in value, and where a heavy mortality occurs the balance usually land in a wretched condition, thus entailing heavy loss to the owner. We can instance several similar cases of heavy mortality during the past six year, but we think it is not necessary, as any person who has occasion to frequent the wharf will readily admit that a great improvement is required in the loading and handling of catle.

For rill Canamin Live Stoch ind Fary Journal.

## A Sheep Rack.

I noticed the plan yougave of a sheeprack modelled after those in use at the Ontario Agricultural College; as I think ours is better only on the ground that it is casier made and cheaper, I forward it to yoll. It is so very simple, besides being very cheap, that a handy boy could make it in a day. It will accommodate 20 sheep. The ends are mare of $4 \times 4$ scantling 12 fee
long, cut in two and balved together as in $1 \cdot \mathrm{gg}$. I.


Fig. 2.
Four hoards 15 in . wide and 12 ft . long, will do for the sides (A Fig. I.). I Iave an opening (A Fig. 2.) alout 4 or 5 inches wide, so that the sheep can pull the feed out nicely. Nail up the outside ends at $B$ and the inside at C, then get a plank 12 or 13 in . (Fig 1) in width, and put 4 or 5 in. sides for a trough, as in C Fig. 2., and make rests for it at each end aloout a foot from the ground. Bore a hole through the boards at C Fig. I, and into the end of the trough, and put a pin in each end so that it can be removed if necessory. Set a board, B Fig. 2.: about six inches wid, hato a groove just where the scantling cross
above the trough to prevent the sheep jumping above the trough to prevent the sheep jumping
through and zetting folder in their wool. A three inch piece nailed across the top and down to the sides meeting at the ground-board is necessary to strengthen it. The total cost of the work is not quite $\$ 2.00$, labor included, and being close at the sides, no chaff or dirt falls upon the sheep, and fifteen or twenty sheep can feed from it at once.

James Bowman.
Mount Forest, Ont.

Mr. D. P. McPuall, Vernon, Ont., writes: "I am two you cvery success and hoping that the Srock Journsis may have a widespread infuence. It should benefit the farming
community very much."

## Dominion Live Stock Association,

We have received a number of communications in regard to the Dominion Live Stock Awociation, and deeming the matter of general interest, we would say that to become a member the candidate must le vouch od for by some member actively engaged in the stock trade. ILis name is placed before the lixecutive Committee. If accepted, he is entuled to the rate of one cent per mile on the C.I'.K. and (G.T. R., provided he has owned and shipped ten car lads, of stock over each road. In other words he must ship in his own name, ten carloads of stock over each road, in all twenty cars, before he can secure the cheap rate. The admivion fee for members is ten dollars, and the annual subscription is three dollars. In a recent letter the obliging secretary of the association, Mr. W. Cunningiam, say, "Our assochation is of immense benetit in cave of united action being required, and it is well worth the subscription price of three doll:rs per year to meet regularly, and dicus matters of interent to the trade, even without the privilege of cheap rates. The outlook for thecattletrades not particularly-bright, at least not for those speculaturs who have loought so many cattleat ic. toi 14 c. per lb, dearer than lan year. of course the farmers and others who have lad the distillery cattle, have benetited largely by the jealousy and competition. I thinh the marhets in Emgland and scothand will te fully equal to lavt year, but I do not belteve that cattle that are bought at 5 or $5 \frac{1}{2}$ cents cat make money. Lat is ear the top price was 61/2 cents. It would take 7 cents to mate money this year for the eypurters."

For the Can mom Live. Smek ayd Fany Jotryal.

## Raise the Quality of Beef.

Now that times are hard, prices low, and the Gecters of fat cattle have ditficulty in making their sales how a protit, it is more than ever necessary that only the best quality of beef, that which will bring the top price, shall be produced. If any kind will leave a margin of profit, that certainly will. What hind of beef is most in demand? What quality will bring the best price and make the most profit? Inimals of medium size, tieshy, and young. Those that will give the butcher rich juicy meat and plenty of it on the best cuts, moderately fat, and if marlocd, fat and lean mised, so much the better. The Cbristmas fat $o x$ and heifer have had their day, and it is past. In vears gone by, the feeder who could I ring ont the fattest, heaviest animal won the prize, and sold for perhaps ten,twelve, or fifteen cents per pound live weight. The butcher who purchased hung up the animal as an advertisement. and never expected to get cost from the sale of the meat. It was decorated with gay rosettes and many colored riblons. The purchaser of each portion was entitled to have his name displayed thereon, as buying so many inches of solid fat. Similar animals may still win the prizes at our Fat Stock Shows, but no longer can the feeder obtain such prices. Householders are more andious now to get meat that will be pleasant and palatalle. In our larger cities especially, more quality is needed in the beef. A few cents in price is not thought about when a first clas article of food can tre procured.
At the last Christmas market at Smithfield, Londor. England, there was a great demand for animals weighing from ten hundred to thirteen hundred, live weight, young well-bred, well-fed animals. Quality of beef was wanted. The prize animals were neglec ted. Animals weighing a ton, fat as they could be made, were not looked at. Animals half the weight, not over-fat, with rich meat, were eagerly picked up at big prices. Such animals can be produced by Canadian feeders and farmers in large quantities. For such there is always a good demand. They must have quality, a large proportion of the blood of our best beef breeds, be well-fed from the day they are dropped, and ready for the butcher under three years old. For a good second quality the dairy cows of the milk and butter districts, crossed with a good beef lreed, will make a suitable animal. If our feeders will take up this matter heartily, instead of our shipments to England being 85,000 head, that number might easily be doubled, and the profits of the feeder more than doubled on every animal. We have far too many scrubs, they cannot be made to pay. Feed the kind and quality needed by the consumer, and price and profit will be all right.

Guelph, Ont.
D. McCraer \%

## FintheCssmesalar minh and Farm Juermal: <br> Prairle Stables.

 ox bismyt.
Iv wome of our intending pranne farmers would like to hum how to butd a cheap and comfortable vable for the proitio, I wall try to goc jout a plan ol a complete prame sable, town house, and hay shed. Is mont of gur reallerv will how the chef item of en. wane in lmbling with uv is thot of gettang the lamlere,


 the manure fran the stade is tahen out at the coat emd, $"$ that encrythag whept elean on the west. It will lee verot that there are two dinars in the celet chal (1) admit stexh. Tlere are eight juxt apme which yout cill attach wire ur a rail in three sectious marhed III.I-is. 2 , fus the inupme of heepmg stoch from towng the wall wath their horms. Ilehore haslding the will put up the irume as hown in lig. 1. (iut the upright proviv long enough tu lev platical in the crambl, ay eqgitecn inchev aldut. We as ta hold bour



 coth will there is a palc watherd is faviened to. the p-at at corlis will, a dit num the fill lengeth of the invile of the vables, su present cattle from tearmg the wall in waing wut. ( c $^{\circ}$ are pold or cord, th le wat weviling $f$. The cenlugy $f$ is raiced oner the

 $1: E$ are wal upan the rox.f. Jen ann place willow ors larih upent tepl of the rafters and ener that ol late curan of lough grany, wo an tu make a , menth surface for the wal. The walv
 phouph inche inches wide, and four to sh
 In obltidncd asound any vough or low ; . oumd. - Neer fhughins them sahe your youle, turs the twe side towarits you abid eut pour semb

 and are place lymon the ground davhoun in
 The valile wall iv two wals or twa feet wille. The romit houme is four walvar four feet wille, . mid baile two feet high at rear and hojed uy fo wersiv feet at the wall of the sable. Tin lower up the wall, place in the posis. Tuo coral-ate then run lenghwix, and upon thew gilace the rafter-, and cover same as the vable, with the evelition that the gomif is made - fronger and conered with there tiers of wals with point lischen. Thecevonlver. Ine cavily lifted in sooas fands, abl phaced in a wagon and hauled t" the devired alte. Tahe a soale and dige out alxout two feet in the rixit borme, and place the will at the back of the bonve, and opperite cach end of bach wall, wa dio raive up the wall wisle cnough so. whmit a wag'on and team when hauling in cnough Totus will here the wall warm and mahe unloading much eavicr. 1 the 1 represents end of the stahle as if end wall hatllwen taken toun E: E: are the silles of the stall. It will lre een on ligy. I that every fonath wal iv laillacronwixe was totic the wall fongether. Care mun le tahen tos till all lexne joints wis en prevent atr from pawng tarnugh, almo fo level cach courwe if soml on t.on in miake a level led fort the nevt. IS Is in Fig. 2 in fued alley, $C$ is ferl lon, I) in vall fur work team, cight fect wide, and handy to the dowr. The reve of the valls are seven fect, exech the ane "ypuonte comer (all, which is eight fees wide. The full wilth of the wable invale is thirty fect. The form mangers are each eno feet wirle: id are the crow allew. There is one windou in the noth vige at ket end of the seot house, and one in the slixit at the northeent comer. These will give ample light wen north vide. Cut a hole in the diver the aine size as the glas in the bindow sash, and tail. auh on the dowor, then take four piece. $2 \times 2$ fi. halie thene tregether at cornet, aine size an cav, and place them on the ash, and with four vimall tolt favern all tuthe rdoxi. Then take a small wite ('sin.). and ran this actoss oner the window four incho apast. we earh vide of the winlow. Then run one ncroun the apfraite uas in the centre of the window, taking a furn around each wirc and fasion each
end to keep all in place, and protect the window from leing broken. Then you can place windows on the soult side to suit your tavte. To put hay in the lof you have a mand door in cast end. lig. 3 is a haye shed at the west end of the sable, made of sis ponts and is cords (i). There cords may be cut to uit the size of the shed. The one end will revt on the valile and the uther on posts placed two feet in the ground, and of the same height as the vathe. Care ${ }^{\prime}$ mowh te tahen to coter wer the entrance to the table, mol hathe on a door at the entrance. This is all thas in necenary, as se lase veareely ans gain here in the fall. I3, putting the hay in the sluct. commencing to lmide in around the wall, first, and atternards filling in the eentre, this will come out first, leas ing that at the walls up to hecep out som and wimd. The hed is cosered with a few pole, and

gauntlet, and lest such reticence might be detrimental to the breed, I shall attenpt in this paper a short account of what is hnown of its derivation. The woths which treat fully on the various breeds of pigs are few in number, and in none that 1 have met wit is there any complete accomet of the dereent of the different varietics. To form a consecutive marrative, one s compelled to cull a little from all, and although much is of necessity. teft to competure, yet sulficient informatom is afforded by standird authorities to enable one to slean as complete a history of the Improsed Large Vorkshive anof any wher variely.
llibhus goving b,ach to the wild hog. from which all maturahss agree that ont domeverated pigs ans devended, it will be suthictent to conmence at a much later periond. Cears ago, and proer tathe time at Coplanal, there was a breed of pigs which evisted wer the greater part of Einghend, and penewed many of the trainatithe whol hog ; they were lomg and bony "the leg. light as ageyhemed in the carcon, and hod long heod, and large tlapping ears; their chief rewommendation treing their proliticnew, som the care they tosit al their otfopnug. Cophand, in his Agricultere. Autient amb Molerniremarhs that he recollected a cuiliar lreed in lrelamd, lon it his time it was whomm tor lxe met with, at fact which may te probably wocomed for ly the impronement juohen of by
 paper. Comant to a lates perioxlit scems unanimomIs agted by all authornow on lise vosh, that a large lincel of pidin presouled in mont of the lenglinh comatic, which. while undoubtedly the same omed jer evilinted dertain mumer differenees from the local circamsance, to which they were subjected. (If theere, the shd York or lincolnh hire fig crisemmes called the Wowl pigy whels alxumsted in the lincolmhire il kandin Xurh hire, wav one of the lagent typor, hating long lens: that udev, narrow hach, weah luits, and large lunes sers iong from heal to tail, chetly whate in ein. rs, with co.rree curl! hair, hut wero telerable fecilers In lecicenterdire, shersphire, cimucester hire. llerefordhite, ete. dificreth tym of the vame breed prevailed, whike that in Che hive was the laowert of Fitughth huss. The hather itome from $3^{\prime}:$ to in $^{2}$ fect hagh, were kong ixalied, marrow bached, wobsided, large jrined, and long limixal: their heals were large and their hroad pendant eas hang wer their eyes, their shins lxing lomes and coarce, but they fattened to an chormons weight, without re puiring a greater propmotion of fowl than a maller lieed: their color was wnally white wath patches of hate or blarh. Accorthing 10 "Isritivh Ilwhandry." pullinhed bander the uperinendence of the sixiety for the Diffusion of C'seful Kumedge, importations of Chincese



Fis. 3.
hrush then put on, and then a litule hay, to kect nut som, and thus gru bave a comfortable place to feed from through the cold weather.
Sashatcheuan, $\therefore$ W.T.
I. C.nwel.

Fir the Cavanias live stman and Fary joinnal The Improved Large Yorkshire.
some months agu a desire was eyprewed in Tur: insiman lime hiome fontral, that nome hiecelet of the lmproved large fioth-hire wertd give an account of the oryon of the breed. I hat lecen in hopes that the sulyect would have leen taken up ly a mare elficient pen than mune, but as seceral wonth: have now clapeed without any breeder tahing up the

There were (wo distinct varieties introtuced, the white and the blact, the former ixing letter shaped than the black, but lew hardy and profilic : they were mall himbed, cars and head fine, romed in the carcac, thrishimed and head wimberded in the neck that when fat the end only of the nout could le seen, lut they were for the ment part much waller than the common run of litrofein swinc. Alout this time, breceler of all kinds of pigs appear to have applied themselves towards semedying the uncesiatle guali tues of their repective breeds, and theac Chineve importations gained great popularity, experimental croses being tried with them on nearly every varicty; these were douhntess attempted in order to meet the then demand for early maturity, although even at that period it is stated that for lacon the Yirokshire was preferred (Stevencon's Sursey, 1. 537). Morion, in his Encyclopedia of Apricelture, publisherd in 1555 , mentions that the large frect,or Wold jig, had in his time made as great an mpersement as any- hreed, and had become the wow protitable kind, leing then hnown as the improved winh pig; he describes it as lxing well formed throughour, head of tine length, uith pleasant, mild, decule countenance, cars droop. ing lat not ion large, lack lirad and very lighty covered, with nide well-iet rump and chine, loins broarl. rith ypringing, deep siden and full chest ; color, white: hair long and thinly set ; it, conunucs he, is a very tine specimen of the pig, grows very fast, feeds rapidly, the quality of the pork being remarkably E(xxl, and having i full proporston of tine lean meat. Whether thi improvement was effected ly selection or ly crossing, it is impossible now to be asecrained.
the alleged cross with the kerhehire is hardly to be sustained, and if any crons Mas used, it is such more probable that a dash of the Whte Chnere nould have been emploged. Ihwow of tow direct esidener of ant unch forejg mfunom, and even if suth a means had leen adopted, the foremp chememt mus have treen utilized to a very hmated extent, dive it would nuturally be evpected that not only the omtward form "ould have leen chatured, but alse the charmeteritie quahties of the Yorh hive would have leen completely lost. Again, when we comoder the many different types of the lorhshare diserbbuted over the differest counties, it may not unreawonably be concluded that the improvement has effected by a judicions-election of the several strains; for comparing the improved Latge lorkshire of the prevent day with his ancentors, "e find that athough much impsoned in form, he still retains ese eral of the characteristio remarhed on by standard writer-, and while mot of the obiectionsable features of the rhil spe have leen siminated, all the more saluable qualites have feen retainel; the long head of the early Iritish pig has been shortened, while the faoping ears have leed reduced in sire :and are now neither dremping or priched, hat the lengith and depth of side, the large propertoon of lean, and hugh gualty of ats meat as well as is prohtienes. and care of its offepring, $\cdots$ conypicucus in its ancentor, are still eminently the characteristic of the improned large torknhire The cotallisled color of this lireed is a pure white, but esen now an occavional invtance occurs of a specimen with a blue or back patein ou the st in : this,alt hough undevirable in a utoch animal, is no puofof of inepurity, but rather the contrary, leeing a clarr case of ataviom, or throwing bach to the ohd Che-hire pis, whose color, I have ixefore mentioned, wax usually "hite with patches of blue or back. The history of the improved Large lorh whire may brieth be recapitulated as fullum: : he trace his deweent through the improwed Wohd : he mentioned by Morion, Io the old lierh white, which at one time was common wer the greater part of Eingland, the feveendants of a breed of pigs whelh, in the nords of copland, wan not only the principal brecd in England, but alos cisted in Ireland. the direct descendants and powe sering unmistakalile traits of the with heng.
-lentcol...

For the Cavainl lat smak and Faks lat keat

## The Jersey at the Seaside.

Amidnt rain and unh hinc, gonel report and bad, from ninety in the shade of lomming days to zero in the deprenvon, Jacol.S. Mart, the genial and plueky lieceder of high-class Jerseys, has kept on through it if in the even tenor of his way, building up a berd of this denirable clas of butter-makers, until torday there doen not stand in the wole Dominion a tiner herd, or a letter reprectration of the world-renowned St. Lamert Family than may be found at Saylirooh siock farm, situated on the Home Water of the picturengue "lille 13ran Dios." A tronk might be written deacribing the truly delightfal cituation of the farm, sheltered as it is ly Iron Mountain, the lake to the front dotted with inland, of enuerald green. In all Nova scotia. wotel nor lxatuy spots, from the land of Evangeline eo the wider and storm-pet shore of Cape North, none eacel the lake and surroundinan of the glorious "Bras I"ur."
The large herd of Jersey owned by Mr. llare ardid not a little to the coloring of the urroundings, for who is theece after all, that does not admite the deer. like form and siaceful couline of the Channel IVand leatuties?
it the head of the sayhrixth herd vands (l-car of Si. Immbert, ivy Baron of Sis. I ambert, out of Cowlipe of St. Iambert. Igain, as henchman to the great Osear, Sayloroch owns Jack Front of Sit. Anne, a double grandonn of Jack Frovt of Sit. Iambert. The chief is amonges the leest bred Victor llugo bulls. in the world, and the fancier of thi great lictor Hugo Stoke Pogis crow rnly know: the merit of such a bull as lack frous of st. Inne to intensify the butter-producing roperty of a herd of cows. daughters of Baren of St. Limbert and liomeo de llondir.

- The herd onnists of 35 females, celected for unusual merit, not only in woint of size and bircecting, lunt alw as dam of inore than common hutser-prorucing qualities. Iilly Tully Montague, a daughter of Nomien de londir, Stohe Pomis gred lect son, (thought by many): Jeautiful liells, aghoinus cow,
with a luter tef of 15 Hn, Nullergin daughter, her
dum male a text of 21 llom, and the hed fuir to ecliper her dam a, a butter cons, hilly diharal, Cowhap l'ogis, lammer' laughter, ("owlip, of ti. lambert zad, and a hoot of other, out of which it wombl be ditituld bo chemere, hat one the pick fors dhenemg. As all are oo fill of merit. Why, in the chd lxommeng day , when Jerney, were Jer-ey, and quoterl up to the thousands, the herl now to lee found at sisboreme womll have leect worth $\$ 50,000$, if a dollar.

The cow are jut the value, jut as uneful, jut as Ineautiful as they eser were, junt as much thought of for ther truly great qualitic, as they ever were. True", -peculators dongot trade in them now, as they once did, and as they would again if they conld only get so forel a thing a formerly, but such a thing cannot soll happen again. keal walue, however, is leecoming the homdard for gend Jerecy cons, and from \$100 to $\$ 300$ are common quatations for good rejreect tatises of the Jerey family.
The Sit. lambert fimily vill hosh the hat, anal will for many a year to come, and owners of members of the tribe will find reader ales tor their stoch than for any other family of the vame lireed. Mr. H.urt reprrs sale- regular and with a tendeney upnard,
 his büyers lxeing principally dwellers in tuwn and village, "ho hecpone con. and the he tind realy to payj fal big yice for gexhl maples.

Friend Dart werer loat fath in the Jerveg, alway, believing they would come bacl to pablic fator, and he was right, for torday no con in all Canada bas wath a bold on. the pablic favor anthe beantiful little Jercy con. Should you ever paes through cape Breton, reader, mind don't fail to call at S.jperowik, for if you bove a Jer-cy, then will you see them here in perfection. .ire you fond of anglingt? then there is no better place in all Canada for trout tishing than that to which friend Hart can direct oou. and if you wish to hear the language of Joln Hielandman spoten in all it perfection, as pare as at the vill of Kint) re, then in picturesque (ape breton it may the heard in all it Doric bradnew and simplicity.

Fikmek gohns.

## Fif the Civaban line Stikit avd Fiarm Jol penal.

 Selection of Breeding Pigs.In commencing the hreeding of pige, as of atl other live stoch, the hist thing tw le condidered is, have we the right hind of tock to make a conmuencenment with? l'erhaps, thecefore, a few words on the peoint most ewential ti, a gaorl brood woll may not le out of place.

Profinoor Lang, in hi admiralle woth on wine, "The Book of the I'ig," quoter that famons obid Engli,h writer of zoo years ago, Marhham, as ajing: - In the choice of your wine let them le lagge and long of laxly, decp suled and deep le:lliel. thick thigh anil thort lex, high, rlean, dhick neck, short and wrong groim, and agoked thich chine, well vet with tiong bristu.." Such is the deveriplion of a gewn pig an given loy an agricultural writer of the 17 th cen. tury, and I do mot know that we, in the 19th century, can improne on it very much : for, if cur part pachery and hacon curers are to le lecliever, the fig they want for their trade to day in thel long, deep, pgy, with medium hams and a preponilerance of hacen ade-

Ilaving, therefore, decided to seleet a sum that answers as nearlv an posible on this deseription, what other points are we fol lowk for in her? Well, tiry of all, if jon ide. velect one out of a large litter, and endeavar to the - sure that nut only her mother. int alwo her mote smiode ancestors, hate leen fanous for their prolitieacy, and while considering this paint, din not forget to mahe sure that your wow han swelve teats at lean, as without that numiber she will lie umable in raise a lange litter of young pis -uccesulfy. In ad. dition to this, a goorl brecding wow mus ponems a trong, vigorous comvitution, and it is alus very esential that her temper le gentle, as it is, itu ny opinion. an almont hopelens tank tw attempt to raine a litter of Pighsuceexsfully when the dam is cither two nesions or fou satage to allow herself and her pign in le. handled quictly. Last, hut not leasi, if ponsilste, try and ohtain a sow that powesses a gimpl, traight, unhrohen peligree, for ly this alone can youl le in any dexpeceertain that she will tmanmit her uwn forel qualites to her offpring.

Having now decided on the various pisints that the desire in our ou, the next consideration is. how old
must the be lechite we allow her 1 commence lised. ing? on thi posint we find that opinionn differ ven
considerably, some well hnoun hirecter, ach as Mr. N. Benjabich, of Ingli h Berhohire fame, and Mr. Fired Coate, equally well hnown among fanciers of Blach Dornet, recommending the mating of yelts "ith the lonat at the xge of sis month, whle oflers. among them (on). Ilatt, the well haown brecter of Large Whites, prefor not to allow their pelts to breed Fefore they are twehe month, old. The greater mumber of treeders, howeder, appear to ahe a comere midway lexiseen there, and adsuse coupling young wn w whthe har when they are eightor meme monhs
 the lext age, prowiled that the yelt lec strong and well krown: if otherwie. we shenhli reconmeml allowing her (1) run a couple or three months longer, and in no cose nould we recommend beeding young wow hefore they are at leant cipht months old. Hase now ohtained a wos that $i$, mour opinion, suitable to form the foundation of eur herd, the nevt thing to do is su celect the lonar to beed her to, and here we require toreverese as much, if not more caution, as as we didi in relecting the wow : and yet, how often do "e lind it colhernise. A farmer will gh from sale to ve and tinalls purchare a vow that is, in shape and -ppowowts, dit in.ot can le devied, and then, when the time comeste breed her, deres he tahe the same amount of trouble to find a lxar that will mate well witinher! No, inelecd: in nine caves out of ten he "ill vemd the hired man with her to some lwar that he his neter cten seen. and that may, for aught he hon-, prisesivenatly the sume weah points as the son dos that he is about to ke coupled with.
I would, therefore, impress upon wre readers as trongly av presille th. fact that. 2x in cattle lireeding the lith is half the herd, mo in wine brecting the fower is to le considered at han of paramount importance.

In chexoing your lanar pigh, always select une that, in addition tor the ructary qualtication of form and shape, is gericelly pure lired, amil no matter how jerfeit in form he mas lx. neter allow swurelf to le persmaded fow we a leor that is the offiping of other than pure-bred stoch on lush vide. The following diagram (copicil from "The Bomit of the l'ig"). show: very clearly how different will tee the renth of beeding from purc-hred and from half-linedsiren:

 Mongrel,$~ H a l f ~ H o w n ~ I ~ M o n g r e l . ~$
In the tirn cavely wing pure-hred lxarn cominually, weges in three crowes a, animal containing a veri mall adouivure of inplurelifond; white in the second cax, loy using half-hred invead of pure-bred male, and cuating them wish conmmen soik again, the progens duitudles lown to alment its original state: Ind yet, in hou many caver du we find this practice carojed unt by our (anadian farmer foomer lasn pas one dollar for the ure of a pure bred ixar of one of the improwed beerlo, they will we a half-bred at tifty eent lecause be is a genal lowher, quite regardlew of the fait that he is as likely we throw stock tahing after the mont worthevanecitor he has on his dami ${ }^{\text {dile, }}$ an he iv one tahing after hmoelf. Let me, therefore, imprew upnon the lex-inner in pig breeting the necesity of never wing athy hut pure-bred mate, and alw, of atisfying homelf that the lanar prowesen thoce punt in whicth the wom in laching, an hould bie orll and the lxarar penew the vame failing, that failing iv certain to tre seprembeced in a marhed lagrec in the offyring.

What the Aim of the Breeder of Pure-bred Dairy Stock Should Be.
 ini at Wi-4hoh. Mirah $z=$ isw.
The lealing aim of the lirecter of phere-lised daing loch, like that uf all other hovest milong nourtal, is to mahe his lalars and capital as prenluctiv eas possible, and to ilo that the chief conselerations are the demands of the beat marhet for has promect. The mont protitalle market for the aterage hreeter to cater to is that which one it origin to the demanols of the ordinan: dhiryman, and hence, in treating of this question, $I$ thati firct conviler what the orelinary dairgman mont wants, or, in uther word, what is in most demand, and then endeasour to indieate the lines the breeder thould strive in follow in veching in meet these lemand

The mont eliective facters that determine the profivof the ordinary clairyman are the members of his hert.

The influence of the herd through its worhing capa city for dairy purpones will depend principally on the extent to, which recourse has tren had to purs lered blood. The successful dairyman. in the majority of cases, meedlee dependent on the brecders of pinere bred steck only to the evtent of requiring a pure bred bull (o) heal his herol. In chooming a pure lired amimal as his stext bull the dairyman maher the centuries of skilful lireceding hehind any well hered animal of pure lireeding stepping stones to a higher development of his own. The pure bred amamal represems in the tle h the leat thoughts and evpertence or able lireceders at worh through long perioch of time. In lise years. by usimg pure-hred dairy hullo of a ingele breed and type,
 of his herd.

Secing, then, that the otchnary datryman must use a pure-bered bull on hiv herd to minhe the munt protit, it is, then, importans for the beeder to look into this matter, and note what are the atrithtes evpected in a dairy hull for thi puapese. Thistrale, like all others. maj be cullomed amd expmated.

In the Inall that head his herel the dairyman hopres to hase all the geod features of a dairy animal os intensitied and fixed by brecding and management that, if ued on commongrade converach of the female, produced "ill surpans its dam for practucal dars purposes. To prade up the working amimak of his herd the dairguna must hase a bull representing the highest development in breeling and imbisidual merit for dairy purposes, and let it be remembered that the highen development of any characteristics is only possible by special breceling after a special ideal. Then, again, the chiryman requires this stoct hall of his to lave the poner of transmitius his dualities without fail, and special breedug in union with shgor ous constitution are the gualitice that gite strength to prepotency in bulls. The dairyman, then, wants a bull bred for a purjooce, able to transmit it, and of sach vigor and health as not to weahen, hut rather add to. the constitution of hiv get.

The lines to le followed by breeders of pure bred stock secking to beet the wants of the dainyman are:-
(1) Sclect and develop your cons for ther yrecial work as alairy animals.
(2) Breed with a view to cencentratm: these quali. ties, and with the object of veming their sure repetition.

In respect to selectum. not omby must the eye and hand be critically and intelligenly used. but afurther step must le tahen. the conss shombld lee tested to get at their carning capncity. See that the cows of the herd are of gexel size, strong but time in the lonebroad loined, whe quarteredi, and decp, fall harrelled. The cow with the largest vorage capacity aml the lest developed digesting powers will give the larget returns. If she has the hligestive ability of utilize her food, and the long udder to make use of the forml she digets, then she will, as a consequence, hase the tortuous milk veins, and, perhaps, the mith mirror that many attach importance to. Teting for qualit! and quantuty must go hand in hand. I-or ihe ordinary and quantuy must ko inaminn secking to grade up his herd the cream guage will ansuer, but the breeder should surels spare the time and expend the laloor necessary to determine and devclop the hutter capacity of each and every one of his cows by the scale, and actual tests by the chum.

Hy developing the censs is meant the ;radual unfold ing of their jowers as dairy animais throught testo, ;iknl feerling, and management. The chicf concern of the brecder should lie to develop, the latter-producing brecder should to to develop the butier.proxiucing
capacits of his cows, for it should te rememinered that the chief factor in determining the qualit! of the milh is that of breed and inditidual characteristios, and it is the prolicy of the lieceders that fis the features of the breed. It has lecen shown lis exiensele expermeme in respect to the proxlucuon of unl!. ". that quantit! is the sesult of forkl infuenco," white ". "pality so the result of the make-up of the amimal" li iv a wund principle that a cowe that has loeen ele evopert to her full capacity will give a calf wheme chances of liemg a gored dairy cow are far mreater than oue froma a cons of equal merit otheruice, hum nut deseloperl. All horsemen aequaintel with the viandard hrevi troter hnow that developed sires, or thene with securds, are in far greater demand than thome whhout a mark, smply lecause they are more likely to tranumb their speed to theis prosent, and snis is with cond By tmaning a cow upio her full emprity he is not onls improter as a brecaler, but alwo lor pracural dany jurpmes.

In renpect to the breeding phase of the question, berth the selection and development, in unixon with the pulic) of the breeder, muse lar for a special purpose. It i hest for the ordinar! dairyman to get a cow that will meet all his comitions, but to do that he wams a bull that has been bred for a known purpose. It s a principle of heredity known to all breeders that only the fined characterintics of a breed are cerain of being trammitted, and hence the importance of hreeding for a special ideal, so that the desired seatures may become lied. In climbing the ladder of suceess is is sad that man, in reachung for an upperroumd must let go his hold upon a lower. In seeking to develop a breed of dairy cows you must sesign your hold on the lower rounds if your reach for a highter round, and. in other words, in breeting cows you will have to give "1) monor pomes in favor of major oner. To ponat the mumal, it is a mutake to expect, by using a buil of beef form for a while and then one of dairy form, to get the all-parpose cow with the highest development in all directions. It has been statel that it e dairyman wants a hull possessed of prepotency, so that the hull may graft his qualities on his progeng: Prepoltency is dependent on the breeding, whether for a purpose or not, and alvo on vigor. Abull that has lehind him a long line of ancestors that hase leen bred for a parprose wall invariably throw stock of the best for that purposc. Constitution is a quality that all breeders shonld pat a high value upon, and to sr ure the lest development of this, careful breeding, gord feeding, and heallifful management are necessary. Breeding animals too young will show its effects in sm-"robone, decreased heart girth, and a weakened vitato,

If the breeder conforms with these jideas, and thus carefully considers the wants of the ordinaty dainman, and gives his closest attention to the mecting of those wants, I have not the least hesitancy in predicting that he will always tind a market for his animals in Cimada, for dairying with us has leconce one of our greatest wealth producing industries, ard it must Jecome mote so as our superior dairy prexlucts are recognized in the markets of the worlit.

## A Long Established Firm Strengthened.

## Editor Canabian lite Stoch and Faky lothnal:

Sir, - I tes to inform you and your readers that, baving been in actue business fur tu enty-one s ears, as ateltoncer and agent for the sale and purchase of the varicus pure breeds of this rouners, and having had practucal experience licfore that, dating from 185 , I find it devirable so relieve ayself, to some extent, -of Latorioun deazih which year by year increace: 1 hare, there. fore, thin das taken sato gantuenhip, Mr. Jomas M. Welb and Wr. Williann Holenes, Inolh of uhom hate, for wome years guv, Ixen in my offire, the former atterniting to the exterior, the lat ter th the interior dejaxtment, and have thus lirionae hown th a larar rinaller of my cennection.
I Sall, Imucter, will retalia complete comatol of the minuess, and .onunue to devote my beat cnergien to the advancemeat of :he intere so of onur cmanection: my denise being to jerpetuate the wiem of businew which 1 my welf have deceloped, and which I have found to nork mosthily and well. to the adian. axge, 1 beliecte, of heceders and owners of herds and mocks in thas country, and. 1 max say, in all jatis of the world.
The name of the firm will mow ix John Thornton \& Co., and letters in future will le wo sinnel.

1 bean in remain. yours very truls.
joms Tumestos.
; Prncers St., Hannerer Square, Inndon Wi., kna.

## London Dairy Tests.

bibitor Canabian l.inkStick and Fakm Jolksal: -is a teallet of jour interecting gaper. I thave liesth sery much intereted in the diw unvou of the 1 amman malk tess. huti $I$ bate lieen unable to see is in the light that ans if rour coresponremaplace it Mr Kelum say what he will duow uathat the fercer in $x$ 'iead hy Mr. Cheemnanis vale of puntre, as well an
 concmlerasinn, has 1 fall in we where his fizure ate contert; he adds up the per cent. of fat and wolicis and divide ly four. Ific
 the aretage weight of fat and whids iv alout one-fnurth the pert cent:it certainly io mat. It comen ont one-fourth with Jolie St. lambert, as het milk in mundv wav one.fuirth is a hundred.


fourth of this would not be i.4t, which is the weight of fat int tuenty-four hours, per cent. meats per hundred, and let Mr. Kehurn tinure it tha way. If one hutudret pounds malk made
 four hours), would make leos, mulapls 13.85 by 38 , and divide loy tox will give hinn 5.24 , multiply the per cert. of fat 3.72 , ly. ${ }^{8} 8$ and divide hy 800 , will give 1.41 , whicla is wethen of volith
 will plainly see in the correct way, I will undertahe to show Mr Relburn that without taking the cont of feed maso consideration, the Ayrnhires by Mr. Cliecoman's cate of peints, would have colle out ahead at Lomden:
Tuan Jeney milk in lis 176, averase per a cmi. of fat 4.70, maltiply by 176 and divide by $1 \times 0$, wablit सive 8.27 fat by to witats
 295 days a.alved, one point for andays 3s day: gestation, one puint for sullay... .. .......... $\quad$ i. 61

Total Ayrohire milh in lime ass, werate per cent. fat 2. St, multiphl by eds and diaids lis bex, would pive 6.85 a yomint,
369.33
 pwilles. poinc.. . .... . . . .... ........ 370.32 33.0.) $+\infty .81$
Mr. Keburn reminds Mr. (iuy that the Jerrey; cow Johie St. lambert tands today the swecptahes mitch cow of the Dominion, with a more of 13.38 ; the made this mure at King. von in a8ss in tuenty four hourn, and hy Mr. Keburn' fixturing: from the unie cale of points, it takes Mirs. Jonas three Jerves. three days to saore $163.6 a$ it is certainly a caedit to Mr. Reburn that thas cow stand, the champon malla cow, as well as to the breed the repremet, hut we wuid renand him alw, that the As rhite con wis setond in the race, and only eight pomebehind the champion.
He atco tell us that he in ready to meet all hreedshy the nules as latd down hy any of the three Promeorman: he may, Inet he with
 us the Jer ejs wete ahead at Iondoat by Mr. Cheerman's male of mints, without tolhing the core of fect intu cuncideration.

Gitenlarro, Manitala.

## Improved Yorkshires.

Falitor Canabiac link Stach and Faks Iolknal:
Before froxeentin; to diccuan vers briefly the question of Im. proved lorkhires. permit me to exprest to sone kind friend in the Dominion, my thank , for wo kindly forwarding io me mpies of ymur mont valualle and interestina locksal. I can asure you that ut wam.nt welcume addition to my list of home and foreizn live stixk and asricultural new guper, of which wame twenty-fice per werh artive at Holynell Maror.
1 wav glad to fint shat yout had in an editorial in yuur Decem. ber number, called atention to the desirabilizy of the farmen in
 of piñs, hut what in of will greater amsenyence, the breeding: of the leat lowsilde kishl More wholerme adice could twa weil le given, the it appeare more nected since from what Mr. W. Daviec, the head of the firm of Meornt Daviex \& Co.. of Turonto atatc, hiv firm acticalls hav on go su the Siates for a consuderibice pingurtuon of the pier reguired in his beainexs This must is a great dur on the brealers and feeters in Canada, vise we in Finglaixl look upon the jriga arown and fol in the stater av hy mo mean of the firt claco, and jet we are sold, by one who hnowr, that the really goved pigs are watce itl Canada. The satural advantapes enkeyed by jeur home

 nem" From all parts of Eumpe we are hearing of greater attention leing paid to she kind of ang reared. aint to the mames of feedurg th. The zreas amprotenent made in the cunnz of hawn. and the conmunent uncteace in the demated for it, are swo of the atan -ances, lout the low price of cerrals and the hiah wive of meat lave mot leen withorth their influence. On
 am athe to eprati will winte confitence, as during the lavt few years I have hippeel lange numblen of pigs to every country in Europe excent Belgram; even initactland has impurted sonir ciahty lxans and vrit- from Hodswell Mabot: to Denmark 1 sent has year forts-riaht hreerlin: pinkx, aml I have now thity boars alone onderel fox alhat country; thirteen are on omet for Kikux. and 1 have already this seacon chipyed wise in the


Spain. This proves two things, that the foreigners are alive to the advantares arising from the possession of the really; good stock, and that the Jimproved Yorkshure is the pig of the gerionl. some perwis have asked what is an lmproved Xorkhire. It is a sub variety of the Large White Yorkhure, which has leen produced at Holywell Manor, by selecting for a great number of years, the longest, deepect, and widest of the pigs for breeding purpoves, and also those with firc bonce, plenty of straight silky hair, the most prolific, the quichest groners, and the factest fatteners. The derand at the present time is for pigs which at the least cost, und in the shortest time, will furnins a long and deeposided, light forerpuartered, lean carcass of pork, weighing some $260 \mathrm{ll} s$, and from the eaperiments made in all the bucon-producing countries in Europe, no pig will fulfil these cunditions to anything like the wame extemt as will the really Improved Yorkshire. Some light-bodied, long-legged, and cuarse specimens of the Iarge White lireed have lieen sent to Germany, and even to Canada; these are not likely to increase the popularity of the Vorkshire breed.

Holjwell Manor, St. Iver, Hants, Euztand.

## Veterinary.

For the Canaiman Jive Sturk and Faka Jolknal.

## Infuenza.

" LA GRIHYE" AMONGST HO."iES.
By De. Gkensiut, Guelph. Oth.
There is consideralile analogy between "La Cirippe" in the human subject, and Catarmal Influenza in the horse. During former reported epidemics of Influenza, it is recorded that epizootics have occurred simul:aneously in some instances. We have no report of anything of the kind during the recent epj. demic, but we are liable to experience such an outbreak in our horses at any time; hence, it will not be out of place to describe the synuptoms and treatment of this complaitit, in response to the request of "Enquirer."
About the first evilence of illness noticealble, is dullness and alepression, with impaired appetite, and cough. If the eemperature is taken, it will be found to have sisen to $104^{\circ}$ or $105^{\circ}$ : from $100^{\circ}$ to $101^{\circ}$ being alrout normal in the horse. The pulse usually runs up from thenormal-thirty-six-tosixty orseventy leats to the minute. The coas becomes rough and dry look. ing, the cars and legs cooler than natural. Nervous depression is frequently so great that victims stagger in moving. Crackling of the joints is also sometimes noticeable. Very soon there is a discharge from the nose, at first somewhat thin but soo: lrecoming tenacious, of a yellowish white color and profuse in quantity. The watcr drank relums through the nos. irils, and masticated food is ejected from the mouth as soon as the attempt is made to swallow it, owing to the sore and inflamed condition of the throat. Another well marked symptom is the rapid loss of flesh, which is not to le wondered at, from the amount of fever and the inability to cat.

As a rule, fatal results need not be feared if dis. cretion is used in the management of such patients. It is of the tatmost importance to alluw the animal to breathe fure air that is moderately warm. The body should le very warmly clad, a pail of cold water kept constantly lefore the animal and changed 25 soon as it becomes dirtied lyy the discharge from the nose.
Two drachm iloses of nitrate and chlorate of potash may lie discolved in the drinking water three times a day. Noattempt should tic made to pour anything down the throat, as great damage may be done. Give the gratient anything it will eat, but laxative food, suchas grass, roots, boiled grain, mash, etc, are particularly suitable. The skin around the throat should le stimulated with a thin mixture of mustard and water. It is generally ten days or two weeks be. fore the patient shows evidence of much improvement, but as soon as the appetite and ability to swallow are regained, recovery takes place rapidly.
Gentle walking exercise should be given as soon as the animal has strength enough.

It is when animals are not taken off work as soon as any sympioms of the presence of the trouble is apparent, that serious cases are experienced. Or, if proper care of the animal, particularly in the way of attending to his comfort, is not taken, frenuently fatal complications arisc, as inflammation of the lungs or liver.

## The Farm.

## The Clover Seed Midge.

The growing of clover seed was at one time an innportant industry wh the farmers of several sections in this country, where its production yielded them much revenue. During recent jears, however, this industry in some of those localities, indeed in unany of them, has well nigh ceased. This is owing to the ravages of an insect known as the clower seed midge (Ceciitomyia leguminicola), which, for several seasons past, has found a bountiful repast in the he:eds of the common red clover, with the result that in most instances it has proved valueless as a seed crop.
When the clover seed midge is present the bloom of the clover seems sickly, and the plant as a consequence does not make that sigor of growth even, which it otherwise would.
The clover midge in its perfected state is a two. winged fy, about the size of the wheat midge. This fly deprosits its eggs in the tubes of the undeveloped flowers in the young clover heads almost as soon as these legin to form. At first they are not more than the hundredth part of an inch long, leeing so minute that they can searcely be seen with the naked ege. As many as fifty of these egts have sometimes been discovered in a single head of the clover, In about ten days these eggs hatch, and the young larne works its way down the ulue of the flower to the seed, where it finds the means of its subsistence.
The larve, when full grown, are about one-twelfh of an inch long, and are usually of an orange red color. When they mature they leave the clover ieads and dop to the ground, but not until they have destroyed the seed in the seed-perd, which, for the time being, furnished thou with a home. When they fall to the ground they take refuge leneath the decaying mater on its surface, or burrow themselves a short distance below the surface of the ground, when they enter upon the pupal stage of their existence.
There are two hroods a year in this country: The larne of the first are full grown carly in July, and of the second in September. It is the larive of the second brood which do the principal portion of the mischicf, as the small red clover does not furnish much seed with the first crop but with the second, which ripens in September.
In this we have one explanation why alsike and mammoth clover usually escape the ravages of this pest. They do not sipen till late in July, and so come to maturity between the time of the first and second broods of the mialge.
We are thus also fumished with the key which enables us to elude the ravages of the destrover when growing small red clover. If we can adopt any plan that will eause the clover seed to ripen before or hy Seprember, we will thus be enabled to cheat the milge. This we can accomplish by pasturing the clover until, say, June 10th to 15 th , and then allowing it to produce a crop of seed. Woth brouts of the midge are thus outwitted, since there are no heads furnished which the first may attack, and before the second brood of the pest has had a being the clover seed is ripe. One difficulty, however, is sometimes encountered which renders this plan less valuable than it wonld otherwise prove.
The dry weather usually encountered in August is alverse to the maturing of the seed, hence a crop that is less valuable is ofentimes harvested than ir the same covid be alloued to rupen during the first half of September. Other remedies have been suggested, but no one of them is of much practical value. That
which recommends the cessation of the growing of the clever plant for a term of years with the view of starving out the milge is the most effective could it be carried out, but it is entirely inabmeticalle, for we cannot do without clover for a single jear though we do not grow it for the seed at all. No other fomge crop will take its place cither for the production of pasture or folder. We wam it to draw down ammonia from the amosphere and to draw up nitrogen from the sulsoil for the enrichment of the cultivatable portions; we want it to fill the soil with its roots and rootlets which, hoth in life and death, itnprove it mechanically and chemically, and we want it because it has no expal amongst the grases for the production of milk.
When the larve of the midge is found in purchased seed it has been recommended that the same be heated to a degree which will with be sufficient to destroy the germinating power of the seed, but which will, at the same time, hill the insect. This plan, however, will not be alopted by one farmer oul of a thousand because of the halor and skill which it involves, and is, therefore, practically of but litule value.


## A Bag Holder.

A correspondent sends the Philutelphia finvin and fïreside a sketch of a lag holder that has much to commend it. A is the stud or side of granary; B is a eleat with a level on the top nailed to the stud: $C$ is the holder, with tenpenny wire nails to hold the lag. This cleat is the same as the one mailed on the stud. When in use this cleat fits on the one on the stud. The holler can lie used anywhere and the organizer of the idea says he has five cleats in his mill and only one hag board.

## Salt for the Wire Worm in Corn.

As far as the corn crop is concernel, there is no insect so cffective in its manges upon it as the common wire worm (Agriotes lineatus), and especially are its ravages sc:ere when the commendable practice is to follow sod with corn. Though the loss from wire worms is greater when sown after sod, yet the fact that the corn crop yields heavieston land rich in vegetable matter warrants the adoption of the practice. The season just jast is one that has theen caceptionally favorably for this pest, owing to the unusually open and mild winter, and it is altogether likely that it will seriously affect the corn in most districts. The first indication of the attacks of this insect will loc noticed in the young corn just as it gets nicely above the ground. The leaves assume 2 yellowish hue, and after a time wither up completely. If the corn plot is observed to be yellow in spots, the trouble should at once be investigated, ly digsing up a few specimens that are just leginning to tinge, and, if the trouble is due to this pest, a small worm hard as wirc, of a orange yellow color, with six legs on the fore pare of the body, will be atlached to the roots. When it has finished its work, indicated by the uniform yellow color of the young plant, the blade may be easily pulled up, as the worm has completely scparated the stem from the roots. In respect to remedies, the most salisfactory that has yet been tried
is top ilresing with salt and nitrate of wolla as wom as the attachs are ubsersed. The salt checks the attachs of the worm, white the nutrate of sula pushees forwatd the joung corn. Other manures such as neh farmyan manure, or lecter liguid manure, would serve the pura se of ile motrote of sula, and le mure canly olsamabes. The salt was be appled an quantutes varying from 300 to 500 libs. per acre, accorthng is the nature of the soil and the severity of the attachs. The value of salt as a top dressing for pastures is not appreciated as athould lee, as at at only miproves the latter for feeding, making them finer it is sand, but appled as heavily as from 500 to 600 llb ., it is effectual, as a rule, in ridding the wil of the wire worm. Even in lingland, where one would natumally conclute they had lattle use for salt, owing to their proximity to the sea, this fertilizer is used extensisely on grass lands and mangels, as well as to lewen the ravages of the wire worm.

## For the Casautan Line Stock and Faki Jotrenal.

 Willows as Live Fence Posts.Fences secm io le necenary, ando if su, are an evpensise necesity, conatawbly whe of the farmers
heaviest taxes. Poor, richety fences, will soon sponl heaviest taxes. Poor, richety fences, will soon sponl a good stock, anod, and is wh.at nu farmer can afford to have, as they are useless for the purpence designed and propogators of weeds, lushes, and briars. Fencing material in a wooled country is aluays plenty enough, so it is where stones alxound, and, in order to compete with the world as prolucers, we must do do our uork principally with hores and machinery, and for this reason our fiedds must lee rid of stone, and in a good wall they become useffl and ormamental, as well as a most effective larrier agninst all kinds of stock eacept sheep. It repuires good taste to place fences just where they add mout to the good looks of the farm, as well as serving the farmer's lest purposes as a fence. I lelicce the farmer thould try to have fener and better fences; many farms are sadly distigured by too many fences. Koad fences are frequently ton near the rond to permit of that cultivation of jmprovement which add so much to the looks and value of the farm, and is the prinepal cause of show bloctiades.

Fences, as I said in my lirst sentence, are an expensive necessity, and any materal or method wherely we can reduce their present cost, and adat t" their effectiveness as a fence hin reducing thent yearly eapenses for repairs, should receive favor. In fact, if we can at once haic a substantial, cheab, ornamental and "everlasting" fence, it is what we certainly want. Stone, where stone abounds, should be used for our permanent fences, but where they do not and cedars are getting scarce or eren likele to become scarce, they should be kept for the fences which will bearcequired to be moved occasionally, but in other cases for line, road, and where fences will be permanently required we beliece nothing surpasses, for cheapness, looks and efficacy combined, the "grey willow." for a living post. They will live in all sorts of soit, neter sprout from lelow the soil to encumber the ground, and only a few willow ures will prodace hundreds of posts. The bores never affects them is they do the locust and some others, and they secm to have no objections to our winters. As the limbs are always straigh, they can all "utilized. The limbs for posts should be cut in the spring in lengths of $6 \$$ feet, and may $l$ - used as small as $21 / 2$ inches in diameier, and then, with an iron thar as the only tool necessary, make holes six fect apart and two feet deep, and stick these limis in the ground, large end downwardis, and hy fall they are there for ctermore, the roots preventing the frost or even an ox from heaving thern out. I place the pests near torether, as the cost in material and latoor is mercly nothing, and the wires when put on last letter, as the nearer together the less coniraction by cold, consequently less breat. age. A plain, smooth wire always being put at the botrom where sheep are kept, to save their hool, and the top a wood strip to be visible, especially where horses are kept.

Trife Protirkss.

## Is Rape Hard on Land.

! Jhem Casaman l.inas bich and baky Journat:
Sis, - I have heard wane people as; that mpe is hard on land.

K.gpe wantat be hard on tand if it were cht and zemoved from the fedd, fust th the sime sense that turmpa are lard on land. Jint when it is pastured on the ground it does not tend tompoverish the wil. It wusually fod off with vieep, and the droplus fall on the same land on wheh the rape secw. More. wer, drupping of deepe entich tand very effectively when thes fall on coft ground, 2 n, onane to the treading of the slieep, they are conciderabls morymorated whth the latd. Thiv method of
 howeser, that rije reyurev molice somed land to grow it well.

## Corn for Ensilage.

Fithur Canautas ling Stock and Fakal Jol'mal:
Drak Sik, Will youkitrdly tell me which is the best com for enslage purpuece, and .uline.

## Lorh Co., N. 18.

J. Kizntкs.

During the past wawn, at the Ontario Agricultural College. Guelph, becarly sixty varietien were grown vide by sude, with the result that the following are recominended where the growing: ce:son does not exceed too dajs. Peaser', Prolfic. King Philip Fint, Pride of the Nurth No, as and tompfelluw. Where the scason is longer, or where it is more favorable, the following sancties are spoken of as worthy of cummendation- Wixcoasin Whate flint $\$$ isconsin lillow llam. Sithes, Pride of the Nurth, Wisconsin White Dent, AngelorMidnight, Golden Dew. Drop, Canada Yellow, Horse Tooth and utheres in sections of the pruvince where larger sarieties of curn will mature--enough to allow the corn to grow to the glazing or ronsting pericil-the the following varieties, it is stated, may be expected to return harger sields than those already nemtioned: Manmoth Southern iweet, Ked Cubl Emilage, Ciant Prolific Sweet Ensilage, tharp $T$ with, Hichory King, Parioh Whise Dent and othern

## Corn Cultivation.

I sum in the Aprit number of Jocksal, past to hand, matruc.


 grown much corn here and are novices in the eulatation. It
seems to me that such haranu ing would tike $i$ out by the roots, and alw wreak dount the sialks, and in that uay destroy many
phanis If thic on not wo would you kindy let me and othere
 uf as ju, would for sumiks, or sow on a fars surface"

Jomers trily:
Charlutetown, p, p- 1 .
Corn should, by all meaus, ie sowin on a flat surface, and shoutd tot even be drilled up on cultuating th, av wemetmes dune, as such bulling has a tendency to sheil the ran from the rasic Harrowing 18 , as referred to in the above letter, will ansu er a most excellent purpose and will not be followeal hy any; injurious resals worth speaking of. It is posibile that now and then a sialk may be torn out, and one hese and there broken, but the whole number thus injured will be rehaively vers small, and shis will hoth true whether the com is what bradcast or in drilk It is vactls ixetter, however, all thingronsidered, to sow it in drille

## Ontario Agricultural College Course.

Eaditur Canaman l.ay Stock and Farm Jourxal
(1) I have six acres of land whichit wish to sow to roots. The hand is heavy ciay, and nor sery nch nor vers dirs . Is is level with the excecpson, of a few ranvel knolk, 1plonghed part of it
deep hav fall, and would have plounhed the remainder had $\}$ derp hay rall, and would hive plowithed the remainder had J
time. It was wheat stubble. I have not had vera sood cropx of sumips for the pexs few jears, and 1 was thanking of sowing
 carrote What portion of sied land would jou advise to cow to cach kind, and how mach would wou sow to acre"
(2) I hate been thinkina I nould take a three monthic course at the Ontario ARncularat Coliege next winter, cornmencing
$j$ an. st and endine the Lav of March. 1 would like vere much to kr ow how muchit wivald cost me including buard and tuition foe, 1 thould like to cake a longer course but annwt a aford it.
Wilfrid P.O., Ont.
(1) The amount of land to sow to the different enops mentioned should be determined largely by sheuse that is to be made of the crops. Ordinarily, farmerx only grow enough of carrots to feed their horses once a day in winser, and, in mous instances, bus suffient poxatocs for home uce. From the decription of the
land it wuild weem inure sutatible for mamgels than for turmps, and the e vould, therefore, le promegailly grown upon at. The mert phoughed in the f.ll divild he fint in wilh mangels as the) vhould aluaje go ill early.
(a) The coss of tution at the Ontario Akricultural College for shree mumbin would be the cume as for a jear, thas is $\$$ so. All Hudenis whe do nut tahe a regular course would require to boand outside. Board conts \$3 per weeh, which does not inclute wanhirg. and students whe learrd out are ant required to work. Ans sudents who can enly attend for a year, or a pars of a jear, should velect the subjects wheh they care mast to learn about, and concentrate therrattention on these. They have the uption of diving this if hes thoox, and so are enabled to take the purely agricultural lectures in :oth the fint and secosid year-

## Wisconsin Farmers' Institute BulletIn.

Editor Canabias line Stiock and Faki Jourmal.:
Dısak Sik,-I vend you by mail Bulletin No. 3, Wiscunsin Farmers lustiate. The edition consites of 31,000 conpies, and ahhough the cume number was inued of Nor 1 and 2 , they are nearly exhaused. I shall take pleasure in sending any of your readers No. 3 , if they will send me their name and past-office with 10 cemts so pay portage.
We lave held sixty four two day institutes this winter. They were well attendel, and 1 know they are enlarging the horizon of our farmers. 1 ami more and more convinced that the nust practual and successful method of reaching the farmer cothrughth the Farmers Inoutute and meetings of like character. The three hundrel two dass' neetings held by the Wisconsin Farmers' Institutes have dune more to reach the great mass of unreached farmers in the St.ute in the past four years than all the other agencies of society combined. These meetings have aroused and implanted a hunger for leetter intelligence in thousands where but little hope existed. The farmer can be reached ouly by the practical, successful ways and methods of a brother farmer in whon he has confidence.
The professional man with fine spun theories, who will talk an hour abouts nothing, will let no daylight into the intricate probems thas the average farmer has to solve, that of leas price and less productive poner of his land ; bus it is the successful farmer who can say " 1 have cone it," that will liberate the farmer and mate him an intelligent business nan. The agricultural paper, the agncultural book, the experitnental station, and the Farmers Institutes are for the farmers who read, study and think. Success to then. Yours very truls,

Madison, Wis
For the interesting work we have been favored with we tender our heartiest thanks to Mr. Mortison and his co-workers, and for the exceedingly kind ofter he nakes our readers we feel sure that we may take upon ourselves the privilege of as heartily thanking him on their betalf. Under the careful guidance and matelligent management of Mr. Momson, the Instututes of Wisconsnn, as mediums for reaching the farmers, and inducing them to alopt better pracuces, 'iave no equal on this or any other conturent to our knowledgs. Such enthasuam and energy have they under miteltigent control that even we, distant though we are, have been sharens more or lexs in the benefits of their counsch.
The silo, for some tume the hazy vision of a few enthusiass, through the agency of these Institutex was brought within the practical grasp of every farmer, and proven to be an economical factor of inextimable worth, and so loud was the pean sung in its favor that many of our farmers caught the strain as well as the idea, and neter yet have we heard one regret itsaloption. In respect to the practice of the dairy; garden, farm, and every other phace of the farmer's vocation, they tave been no leas innuential, and the one feature that stands out strongly in the management to account for this rapid progress is the fact that they did not scek, as Mr. Morrison aptly put it, the services of " the piofexsional man with fine spun theorice, who will talk an hour about nothing."
We have heard offrials of our own Institutes bewail the apathy shown by our farmers, and there is no doubt, in some cases, ample reason fot such; but if our sectetaries of the different Institutes will accept a word of advice from an eamest friend, they will not delay one moment in availing thermselves of Mr. Morrson's kindness: and if, after carefully reading the ahortpithy. practical and thoughtful papers contained in this bulletin, thes donot see the cause of the unbounded suecess of Wirconsin Institutes, and the moderate success of some of our own, then Our insight into institute work has availed us nought. - Ep.

Jons: Mclarkn, of Cleaville, Ont, writes: I have been pajer for the farmet.

## YoungStockman's Department.

## Our Prize Essays.

To deepen the interest of our farmers' hoys in the wurk of the farm, and so strengtlen their love for a life in the countrs, to awaken their slumbering talents and stmmulate their efforts for self.improvement, we offer the fullowing hook-prizes ns inducements for the bojs to write on such subjectsos we shallannounce each month:

1. The Soil of the Karm, by Scott \& Norton.
2. The Chemistry of the Farm, by Warington.
3. Hamdhook of Apricsilfury, by Vrightion.

The conditions to be observel by competitors are:

1. The writer must not be over 87 years of age.
2. The exsay inust not exceed onc columin in length.
nonthare to reach $u s$ on or before the 15 th of the preceding month.
Iissays for June Competition:
(i.) The Kearing, Feeding and Management of Steers for Marhet.
(2.) Selection of Ireeding Digs.

Escays for July competition:
(1) Has the IMg a place on the Farm.

## Our Barley Competition.

We are pleated to state that the selieme we started underwas last month in respect to barley growing, is meeting with hearty encouragement. The tames are coming in fast, and to induce when to joun in she contest, we publish a lins of the cumpesiturs received up to date.
The Barley Bulletin of the Daminion Government. -The bultetin on barley lately issued by Prof. Saunders, Director of the Dominion Experimental Farm, will mark, we senture to say, an epoch in the agriculiural history of Canada. What we are going to do and here describe has been incited by the statements made in that excellent document.
The Fallure of the Importance of the Canadian Barley Crop. - A fcw years ago barle; was one of the most profitable crope the Canadian farmer could produce. His grain was of the best. There was a great demand for it in the United Stater. The American fasmer could not produce so good a srain; nor could the produce enough for his market. The consequence was that Canadian burley was grown for profitable cale in the American market. Now, however, the United States farmea has leamed to protuce a good grain. And the demand for barley there is greatly lessened owing to the use of corn, rice, glucoce, and other substitures for it. The result is that barley growing has become unprofitable to the Canadian farmer.
Two-rowea Barley, - All the above appliss so "six-rowed. barley; the kind hitherto principally prown in Canada and used in the United States. In England the lariey used is tion roourd; but awo-rowed barley has been but little cultivated in Canada. The price of two-rowed barles; in England is such that if a good two rowed barley were grown in Canada, in sufficient quantities to permit of its being transported to England at reasonabile cost, its price in Canada would range from 86 to 98 cents per bushel of 56 pounde Ever; Canallian farmer will. therefore, sce the mportance of trying to mise $a$ :wo-rowerl haries that will satisfy the English requirements
What Two-rowed Barley Should Be.-Two-rowed lar. ley should be plump in the Lernel, and lighs in the huck; and it showtd not be cwt wotil the sraix is fwlly rifc. This latter cundition is of grest importance. Again, the grain should be perfectly whole, and it should contain no admixture of she sixroserd sort. Moreover, it should not weigh less than from 54 to 36 pounds per measurel buchel.
Best Varieties.-Prof. Saunders has been at great pains to get samples of the best varietiex of two-nowed barley, and these he has had tested in various parts of the Dominion. From all the different varieties we have selected The Beardiess, as the one that, in our opinion, promises the best returns to the Canadian grower. The Beardless voriety is bearded like other sorts, but it often sheds its beard when fully ripe; and it drops its beard so easily when mature that it is more easily threshed and cleaned than other sorts. We may add that Prof. Saunders also thinks this Beardless variety to be one of the very best xorts.
Suporiority of the Bourdioss Vardoty.-Bexides these points of superiority, the Beardless variety teturns a good yield per acre (sol/a bushels at the Experimental Farmat Ottawa); and its weight per bushel is alco gooil ( 56 pounds at the Exprerimental Farmi at Nappan, N.S.)
What We Propose to DO.-Through she courtesy of the Hon. Mr. Carling, Minister of Apriculture, of Ottawa, and Prof. Saunders, of the Dominion Experimental Farm, we are enabled to offer to every joung subecriber of Thr Live Siocx Jounxal. who desires to enter our competition, 3 -pound bas of

Lag will contain exactly 3 pounds, no more, no less. It will be sent, post-padd, and/fre of all charges, to any applicalts who will send us his name, on the understanding that the applicant shall comply with the conditions of the competition.
What the Competltion will be In.-The competition will be to see which of our young subseribers shall be successful in producing the greatest weught of pure, clean granlin from his 3-pound big of seed. The grant muse tee sown by lamself, cultivated by himself, harvented by himself, and threshed and cleaned by himself. Then it must be weighed, and its weight and purity and the integrity of the whole proceedang must be attested by disinterested watnesces, ar Ia pound of the graill harvested must le sent tu us, that the anards anas lee justly made.

What the Prizes will be.-We shall award four prizes, ol the value of $\$ 20.00, \$ 15.00, \$ 12.00$, and $\$ 4.50$, respectively, for the first four best results. These prizes will not be in money, but will the chosen rather with a view to permanent value and utility, and their suitablity to keep in remembrance an achievethent of more than ordmary interest. These prizes wilt be described in subseynent issues of Tifr live Stoce Joursal. It is probable that we shall be able to announce new supple. mentary prizes.
Other Condiltions of the Competition.-lntending competitors must be subscribers (either in their own name or that of their parents or guardians) of The live Stock Jouknal. They must not be more shan 20 years of age on ist of September next. They should send in their names as competitors as soon as possible. They will then receive their bag of seed, and a blank form of report. In this report they must enter such jarticulars regarding tume of suwing, acthod of sowitg, metliods of cultivation and manuring, time and mauner of harvesting, and weight of grain obtained, av we shall ask thon. The attertation of the witnesses as to wetghng, etc., must be made on this report also. Then this report must be sent to ur not later than the ist of Septeinber. Fach competitor will also be expected, at the cloxe of the season, to fill in a blank form which will be supplied by the Departnent of Agriculture, and to send a pound of his grain to Ottawa, as a sample of what his method of cultiva. tion has been able to effect. The successful .ompetitors will also be required to cend us a pound or two of their grain, for exhbition at the principal fall agricultural exhibitions.

What the Compatition will Effect. - This competition will enable every' competitor to obtain, at no cost to himself, a sample of the most valuable variety of what is going, in all probability, to be in the future one of the leading grain crops of Canad.n At the end of this season he will have, if fairly successful, someyring like two bushels of seed grain. Sowing this next year, he will have at the close of the season say from 25 to 40 bushels of seed (or perhape nore) availalbe for 1892. He will thus have, in addition to a great deal of most valuaibe experience, a sufficient quantity of seed to emable him to enter upon the production of iwo-sowed barley as a profitable pursuit.
Conclusion.- Now, boys and young men, send on your names at once. Iet us bave a grand contest. Should the anterest taken in shis competation be what it should be, we will do all in our power to maks it uxeful to the country at large, and especially useful and profirisle to those aetively engaged in it. We taust to be able to add to our praze list considerably. Remember that the question whether tworowed barley can be profitably gnown in Canada is as yet undecided. Many people think it can. Each farmer will have to find out for himself, that is so far as his own faras is concerned. He must also learn how to sow it, how to manure it, how to cultivate it, how to save and curcit. He can learn this only by practical experience. If you engage in this compettion, and learn all this, and if it should prove that tworrowed barley is a good crop for Canadian farmers to pronluce, then you will be pxe or fico ycarr aticat of all these who do not begin to get their expenence this year. The apfomed list gives thoce that lave already entered the competition. We are pleased to note that all parts of Canada are repre sented. We would be glad to fatie $a$ number of our young stockmen resident in the marious provinces enter into the contest, for by their doing so, the resulta may be made far more valmalle.

During the past month we hive received the names of the following competitors addlitional to those published in the April isue.
S. Hosk Balmoral Nills, N.S. A. J. Hewson, Allanburgh Ont. Norman Howden, South Cayuga Ont. Georsc Cooper Ormctown, Que. N. Cates, Napinka, hlan. Wm. H. Steven.
son, Ancaser, Ont. Arhur Neighen, St. Mancis, Ont. I. R. son, Ancaser, Ont.
Rankin, Hamiota
Rankin, Hamiota. Man.
Fo
Forks, N.W.T. H. C.Snow, Pheasant Forks, N. W. II. Exidie
R. Lewis, Burford, Ont. John Brooks, Adelaide, Ont. John Robertson, Adelaide, Ont. A. H. Sellar, Sourisford, Mian. E
MeBride, Bradford, Ont. L. G. Brinow, Rob Roy, Ont
 Lifn, Ont. John A. Stecle, Trenton, Ont. Levi Pike, Locust
Ifli, Ont. A. E. Dinkle, Dundas, Ont. Robert Anderson,
Thombury, Ont. W. W. Fisher, Benniller, Ont. F. W.

Rilance, Beaverton, Ont. J. E. A. Jardine, Prince Albert, N.
W.T. Willie Clarkon, Maion, Ont. A. E. Eooney, W.T. Willie Clarksol, Maiton, Ont. A. E. Eooney, Laurel, Ont. Chas. Carruthers, Colborne, Ont. Allan Mekinnoin Port E.gin, Unt. Alex. Elhost, Woodbridge, Ont. Jrank Riely Locust Hill, Ont. Sorris Merritt, Smithville, Ont. J. R. McLocust Mill, Ont. Norris Merritt, Smithville, Ont. J. R. Mc Allan, Churchill, Ont. Georke I angdon, Yctherton, Ont. G. 11. Goude, Flesherton, Ont. 1. H. Ruscell, Exeter, Ont. J. 1. Iawric, Mongolia, Ons. Wm. Miller, Mlarklam, Ont. Edgar Foster, CLarksburs, Ont. J. G. Hastie. Dromore, Ont. Jolın Atkincon, Wrodlurn, Unt. Citnton Davis, Klemburg, Ont Wm. J. Denes, Granger, Ont. Daniel Balland, Woovjord
Ont. A. H. Scarlet, Florense, Ons. Cliarles Eastman, War Ont. A. H. Scarlett, Florenec, Ont. Charles Eastman, War wick Wert, Ont. John James Waldon, I.indsay, Ont. W. J. A. C. Uuckfall, Brudepport, Ont. Julin Mitchell, Ifrownsville A. C. Yutkfald, Bradgeport, Ont. Julin Mitchell Irownsville, min, Om, Simon J. Fraser, 13radtord, Ont. Willie Kaikon min, Ont. Simon J. Fraser, Bradtord, Ont, Willie Kaison
Adelaide, One. J. V. Carr, Hopeville, Ont. Gejrge S. MeKee
 Hew won, Allanlurk, Ont. Werley Parkinson, Elimvilleront. H. (S. Webster Florence, Ont. Jolin Simpson, Moffatt, Ont A. W. Dewar, Kertch, Ont. Thomas Stewart, Upper Kent, N. 13. Edion W. Sanders, Compton, Que. Alfred Irvine, Holstein, Ont. Herlert Irvine, Holstein, Ont. James M1. Carruthers,
Ormstown, Que. Andrew Stewart, Gillie's Hill, Ont. Bruce Ormstown, Que. Andrew, Stewart, Gillic's Hill, Ont. Bruce
Dewar, Kertch, Ont. I. H. M. Moore, Moore's'Station, Que Dewar, Kertch, Ont. S. In. M.. Moore, Mcore's Station, Que laide, Ont. F. A. Clark, Ayton, Ont. A. H. Ledger, Burford, laide, Ont. F. A. Clark, Ayton, Ont. A. H. Ledger, Burford
Ont. Ralph K. Rudd, Bden Mills, Ont. Wm. E., AicFarlane Ont, Ralph K. Rudu, Eden Mills, Ont. Wm. E. AicFarlane, W. Gowan, Springvale, Ont: Li. E. Shack, Hagersvill, Ont.
Henjamin Coutts, Vichers, Ont. Walker J. Lamb, Walkerton, Hesjamin Coutts, Vicher, Ont. Walker J. Lamb, Walkerton,
Ont. Win. Jockic, Zephyr, Ont. Peter Gandincr, Leadturg Ont. Win. Lockie, Zephyr, Ont. Peter Gandincr, Ieadburg Ont. W. J. Keanedy, Vemon, Ont. Lee Leaman, Charlote: town, P. E.i. Herbert A. Edwards, Watford, Ont. Thos E. Caskcy, Tiverton, Ont. James Lanmont, Caledon, Ont. Harry
Wallace, Waterloo, Ont. C. Newisn, Pheakant Forks, N.W.T. Claude Sniter, Attercliffe, Ont. T. A. Crawford, Bethel, Ont AIf. F Tindale, Casilederf Ont. T. B. Keeling, Brunner
Ont. Wm. Flock, Sinclairvile, Ont. Ont. Thomas Chicholm, Gale, Ont. H. K. Mck'enzie, Luck now, Ont. K. J. Baldwin, Canboro, Ont. J. T. Baird, Guilds Kent Co., Ont. T. P. Everall, Fall Kanche, Chiliwhack, B.C W. Mrydon, Nespewa, Man. Willic H. Mitchell, lennoxville Quc.

## Feeding Young Pigs After Weaning.

Before the young pigs are weaned, they will be able to eat nicely where they have been allowed access to fool beyond the reach of the sow. If a little skim milk is put in a low trough thus situated, the young pigs will learn to drink it before they are two weeks old. It should not lee allowed to remain long in the trough at a time or it will sour. After a few days some wheat middlings may be stirred in with the milk. Where this is not at hand oatmeal will answer, but is costly, and ground oats will also answer, but not so well, as they are too coarse.
Where the pigs cannot be thus fed apart from the sow, if the trough in which she feeds is low, or if planks are laid in front of it. the young pig: will soon learn to eat with the dam, but the food in such in stances is not likely to be quite adapted to their young stomachs.
They may be weaned at six weeks, but are all the better to remain with their dam until eight weeks old, providing she is well fed, and when weaned, they should at first be fed four or five times a day, of the same ration given them before weaning, that is, wheat middlings and skinn milk or buttermilk, or when these are scarce, swill from the house.
Various other kinds of meal may now be added alone or in combination, taking care not to make the fat-producing foods 100 prominent in the mixture. These are such as peas and corn. The object should be to make the young pigs grow rapidly without fatteniug them.
The following mixture will certainly answer well if milk or house swill, or even water, is fed along with it, viz, equal parts of ground peas, ground oats, ground barley, and wheat middlings. As they become older, the proportion of the peas may be increased until it is doubled. The meal should be stirred in the liquid before being fed.
Now looss, try your hand at mising young pigs. Don't be content to get the "rumts" of the herd to experiment with, for runts never pay well, no matter how skillfully managed. If you could weigh your pigs once a month, or oftener, it would add much 20 the interest of $y$ jur work. They should gain quite a bit more than a pound a daj for the first lew months, and when six months old should weigh alout 180 to 200 llss.
I must not forget to mention that you nust be paricular to feel them only what they will eat up clean, and try and feed them as regular as clock-work.
I will probably tell you how to manage them when grass comes plentifully about the first of June.

## I':e Feeding, Care, and Management of Working Farm Horses.

## 

B) Fkancis $K$. Domus, schomblerg P.(I., Ont.

Farm horses should le fed at all tmes liberally with good hay; two-thirds timothy, one-third clover is best. They should have cut sheaf oats with meal on it twice per day, with one gallon of oats at each feeding. A few carrots once per diys is goxd for them, and it gives them an appetite. ? hes should be watered before being fed three times per day, and well cleaned every morning ; and in the evening after worhing their legs should be well rubbed and their feet cleaned out, so that there will tee no mud or vones in them. Therr shoes should le removed at leastonce per nonth Care should te taken that their shoukters do not get sore, and to prevent this, their collars should Le rubbed with a smooth stick and cleanerd liefore putting them on. Iloof ointment is gooll for stich sores on hurses. Horses when worhing steady should hate thear mangers filled with hay at night, and in the murnug they should be given all the water they will drimh. Then give one gallon or over of oats. Cleaned and harnessed after this they are ready for woth as soon as their oats are eat at noon. Water them before putting them in as they are mostly too thirsty to eat if not watered. For dinner, give half a bushel of cut sheaf oats with one gallon of meal on it, then after the teamster has had his dinner gise each horse lwo heaped gallons of oats. Une hour and a half shoukd do them at noon. At night, water them before put ting them in and feed same as at noon. Tahe off their harness, rub them down well and clean out ther feet, fill up their manger with grod hay, and give then plenty of clean dy straw to lic down on. The bedding should be all thrown wat in the morning and the flowr scraped out clean. A good meal chop for horses is made by chopping ten hushels of oats, tive bushels of harley, five bushels of peas, and five hundred pounds of bran mixed. One gallon is enough for each horse with the cut feed. They should hase exercise when not working.

## Thoughts From the Boys for the Boys.

Amther Henshbrger, of Tintum I. O., Onf., wsiter us that he was very much pleased with the prize we sent him, and ako encloces another excellent exas on "Farm Horses." The exaly is written in a very neat hand, and the elomights are, as a rule, uell expresced He Nay, writing of the feeding: "Feed then cus has; chopped oats, and bratn, made into a mash, in me ing and crening. (iise them sweet hay at noon and then aats and bran mixed. If would not le wive to give rules as to the amount of feed thes hould have, fur wome honse reyuire mure feed shan othen Do not pach their has in a rack, but put it in a box or manger, then they can eat ulat thes choose and the rest can le given to the cantle. . . Ninajs aive them plenty of calt."

Williasi H Hhaik:ksuis, of Kuhtion, Ont., agal fuartecir, sends usa capital essay for one so young in yeare Xivt onls does it consain much sound sense, but it is clearly wrutten in a neat hand. He toucher upon a too common practice wilh frolitwome and thuyghtess boys, and his advice is certanly of the lest. He sass. ' Never tease o unt horses while they are eatinsi, or at any other time, as it nakes them angrs, and it us very apt to make them kick or bite. When you are working with horses, do nut sell it them and jerh them around with the lines. and if they do not do just as you want them, do not swear at them or hit them a cut wath the whip. Thus is advice that every boy should follow, and at certanly showr that our essayist has a kind heart and iscarcful not to pamithe animals under his care, and this is one of the moc, actui-nble, as werll as profitable, teatures of a good stockman.

Artiliz F. Seliar, of Sounsfonl 1P. O.. Ont., writer on Farm Honses. The escay shows that the uriter know nicereof he writer He sajs: "In feeding horsec, the quansity of grain given at a feed may be regulated according to the amount and character of the work being done, lut they uughs, at any time, to get at least from 5 to 6 lbr . of onts, whole or chopped (the latter preferred), at a feed, as they will then derive all the lernefit from the grain, and they should get no more lay at a tume than thes will eat up clean: alcu, I think it beat to gne them thetr water before feeding."

Henay Hocarth, of Brooklin, Ont., forwards a thougheful essay on the same subject. The exsay is bristing with hard
facts, showing the writer to be well agyuainted with the manage. ment of horses. "I Hange the woiter when they are not workugg, the; shoudd be given good liay and of few wils. Some peopice prefer to feed them clit feed, wath a little meal and bran. A few turmin or carrots are good to keep them tiealtis, with
 When spring comer on thes should le fed heas ier, and to hareden themup for spring work thes thould be put to work gradualls, to present them from leing trombled with wre aboklen and failing in condition . . . A horve will do just an math work with monderate, areful feedeng as 11 will if fed low heave, athil be tes linble to be vick
 merit lining formand veseral pomis that were werlmonel by othere He wrise "The haruew buald lee kept wot and clean, and on cold murnings, when the bit sfonls. it thath lee steamed before putting it in the horse's in suiti, av is will wherwise stick to their tongues and pull iff pheres of shol, which cancer great pan" Treating of waterng, we bunt doffer
 watered is fed any had of grans whele want, ow the: ase apt
 wrong in another. It is a had pratise to give a hores that is warm a prolful of cold water, as at wall unduabedls wase founder, but at the same time, a muthtul of we willquench their thist for the tume bemg and thes the leant barms shems.

Weilbs M. FMilti, of lienmaller, (int., writing on Farmen horses, drewes ths ideas an clear hanguage. He writen - "Feed the worhang horses, each mornms, three fourthe of a gallon of chopjed oats and half a gallun of bran, or else one and a fourth sallons of chojrjed cats and all the clover has they will eat up clean. At noon feed une gallon of whole nats. liefore feeding: thas, see that thes are watered, athd give thent thetr has before they recenve thelr watc fior the evening meal feed to each hone one gallon of kailed oats with a little bran mused. Do man neglect so suppls vour horver with sale"

## The Dairy.

## Sweet Cream Butter.

Darymen, more than any uther class of workers, how the least deference to opmuns of their own fellow, unlews such are huilt on rock-lottom facts, and conversely they show most respect for opinions that coincide with the tr practice. In conformance with the tirst mentioned thought, all along the line of progress in the dairy industry we fital broken idols that were once worshipped with fervent zeal. The dairy dypartuent of the New Surh Expriment statoon, as a revult of some of there enperiments, once more starte rudely the upholders of the sour cream theory. They state that in every trial there was less cascin in the liuter made from sweet cream, and the hutter was caner fread from milh and furctign manter. The adrocate of the sour cream method held thes as his heat argument The conclusinns they arric, at are . 1 Suect crean thould le chumed at a consuderable luwer tenaperause than aud cream. 2. When the temperature is properly auluned, the fat is more fully recovered in churning sweet cream than in churning , our cream. 3. The butter is casier freed from muth and requres less working. 4. The flav our is genume butter navour, dependem more upon foot and less upon tencontrollable changes in acidifying the cream. They state that the flawner of hutter made by churning sweet cream is altogether different from that obtained from sour crean, but they advance the opinion that itisonly amatterofeducationtothistaste. Theseresults will at least set lutucrmakers shinking on regard to this matter If the attention and work necemary to ripen cream is annecessary, the sooner it is known the Intter. A correqumudent of /foard's /arryman states that last january he tried six experiments in thin direction, three with ripeted cream and three with cream perfectly sweet. He weighed the milk care fully that was set for churnug on each tr:a, and the result wasthat meverycascheobtainerlas much butter from the
weet cream as from the ripened. In his own words : "In each trial, I put into the cream before churning hatf a pmand of tiverphel sale to the amount of cream that wimitd mate twele pounds of theter. The salt has at chemical effect upon the cream that canse- it to liberate the butter as perfectly as any process of churning will. Creann that is sweet and salted in the mamer alpowe hated will churn as easity as when aciduied. To get the hees result from the churn, the buttermilh should not be above $60^{\circ}$ Falr. when the churnug is done. Will the sweet cream butter keep? se, 11 will heep long ellough in the winter time to le all eaten up in this marhet and command the highest marhet price. Then why go to the troulbe of sourng cream, if one can get as much butter and can sell all he can mahe at the hughest market price by churning suet cream? I have a dairy of sixty cows, make butter sis months , wad cheese sia munths. Niever suld butter for less than twenty-five cents per pound. I nave been in the business for twemty years."

## Protecting our Cheese.

It would lie indeed wonderful if such a reputable article of commerce as Canadian cluecse, which is so highly thought of in the world's markets, should not be initated or lifelled in some form or other. It appean that for some time back considerable American cheese has been shipped through Canada to the Bratish markets, and has shere been disposed of, profiting by the good name that all cheese coming from Canada has mate for itself. To put a stop to this shameful practice, as well as to secure the co-operation of the: government in dascournging the production of "tilled" cheese (which is worse than skim milk checse, being made from skim milk, with the alseracted fat of the cream replaced by other fats), a deputation consisting of representative men from the different dairy associations of Ontario, waited $u_{1}$ pon the government. I'rof. Kolictson accompanied the deputation, and with hom the delegation left the task of presenting a memorandum for the consideration of the Minister and government. Through the Ingersoll Chronicle we learn that the objects soughe by the deputation are brietly as follows:
"That all cheese made in Canada from unadulterated milk, and containing not less than 3 per cent. of butter fat, shall be marked both upon the cheese and upon the packages, with a standard brand to lee adopted by the (iovermment. The use of this brand shall tex optional with the manufacturer, but its use upon cheese made from milk, where skimming can lex proten sufficient to impoverish the article, or upon clacese not made in Canada, shall be a panishable offence; and second, that all cheese made in the Conited States, and shipped in bond through Canada and from Canadion ports, shall be branded 'Uniteal States product in bond,' so as to distinguish them, in lauding, from Canadian goods. Other matters of consideratile importance to the dairymen of this country were adsanced ly the deputation, such as having registered numbers for all factories; also gising power to the provincial inspectors to prosecule where fraud is detected, but it is scarcely likely that these will tre acted upon this session."
When such an important incustry as this is imcled, prompt and decisise action is called for, and this no douln the government will recognize and act upon.

## Butter for the British Market.

The Canadian agent at Bristol, Mr. J. W. Down, comments in an interesting way as follows, upon the status of our butter in the lrritish miarkets, and also throws out some hints which will no doubt be appreciated:
futter is improving, and, with care, shippers lorwarding good quality only will soon find a ready and remmerative marhet. there is always a good demand at fair to high prices for choice butter, while nolooly wants poor hutter at any price, except in very fow evecptional instances. Now there is not much prolanbility of the average quality of Canadian butter wing tery materially impoicd until the present mode of manufacture in private dairies, and hauling through
stores, is alamioned, and the creamery system generally adopted. The advantages of the creamery system are to secure the manufacture of hutter under the les! conditions, thus insuring high guality as well as uniformity of plazlity. Another great advantage from the creamery system would be in the mode of hand. ling. The butter would be s:ored at the factory as fist as turned out, for no creamery woutd be without good storage facilities. The handlingof butter would thes pass out of the hands of the storekeeper, who, as a rule, has not the facilities for properly storing the article. Indeed the mode of handing, with poor storage facilities, is, to a considerable entent, accountable for the large quantity of poor butter. Very grod butter, after storage for a few weeks, under the ordinary conditions as are usually available at country stores, would be certain to cume out deteriorated in quality. To hokd butter at all for any length of time, even with the best facilities, means a deterioration in value, for the fresher the butter the belter it is. It is not an article that jmproves with age. But when the facilities for holding are poor, the deteriuration in quality is very rapid. The quality and mode of packing butter in Manitoba has greatly improved citring recent years. Formerly every manner of vessel was used for packing louter, pails being frequently used instead of the regular firkins. Country dealers are also learning that the earlier hutter can be marketed the better it is for the quality of the article. There is, however, plenty of room for further iniprotement. Of course there are difficulties in the way of a general adoption of the faciory mode of manulacturing butter in a country with so sparce a population as Mlanitoba. The creanery industry, however, should be encouraged wherever practicable, in the hope of improving the butter trade of the country.

There is vast room for improvement in the quality of a large portion of the butter reaching our markets. While looking to the creamery system as an important factor in the revolution of the butter industry, yet the fact should not le lost sight of that it is also necessary to edtucate farmers' wives in the art of making good butter in their private dairies. It will be a long time lefore creamery butter will supersede the present home-made article. It is, therefore, necessary to endeavor to incluce private makers to turn out good butter. The matter is a difficult one to handle, no doubt, but the importance of the question is such that it is worth white making an effort to attain the desired end.

## Poultry.

## A Prize Gobbler.

An American contemporary, 7he fiarme Journal offered a prize for the heav iest turkey raised by a sub. scriler during $\mathbf{1 8 8 9}$, which was won by a golbbler that upped the beam at 27 pounds. The statement as to his feeding says that for the first two wecks he was fed a diet of hight bread wetted with sweet milh, with a relish of hard boiled egg. Later on he was fed on bread and milk. The bread was made of corn and oats, ground to a coarse meal. This meal was made into a thick banter, with sour milk, salt and sorla, and bahed. This was his daily bread until alise to eat whole corn. After the ist of septemier the was batched May 15th) he had for a ration twice a day either com or oats. During his rapid growith and development he had the sange of the farm, and, no -loubt, helped himself to several quarts of hoppers and sundry other articles.

## The Feeding of Fowls.

## [fiknt balek.]

Two or three papers on this sulject may, it is hoped, prove acceptable to our readers, expecially those of them who lave not made the feeding of fowls a sub. ject of special study. Very much waste, it is apprehemded, ofen takesplaces from feeding in a sims of mechanical way, without much variation of methol during the entire year. Sucha counse mas le borne
with wher the fowls are of necessity kept in confinement, but when they ramm at liberty, as they usually do on the farm, there should tre as much variation in the methuds of feeding, especially as regards quantity, and also to some eatent as regards quality, as there is in the weather and natural food supplies.
As regards quantity, the simple rule in feeding adult fowls, and indeed fowls of any age, is to give them just what they will cat clean with avidity and no more. Any food left lying on the ground, or in the troughs, is a waste. While this is true in regars to winter feeding even, it is preeminently so in regard to summer feeding, as, at that season, the food fed may be eaten up clean, and still may sometimes be properly regarded as a waste, as had it not been given the fowls thes would probably have provided for themselses an equal amount by foragng. We would not have our readers infer, howerer, that no summer feeding is required. It may be necessary throughout the season, hut never in such quantities as though the fowls had no chance to furnish a part of what they weed themselies. We have seen selffechang troughs m which supplies of grain were kejt all the tume. Possibly these may lee of some service where the purely fattening process is going on, but for other purposes they are a dead failure. If fowls are allowed access to a feeding trough so supplied with grain that they can help themselves at will, they will become more imbolent than the loy with brawny arms and plenty of natural brain-power who is never sequired to do anything by his paretitsother than tocat and sleep, answer the roll-call at school, and seek out self. indulgences through the avenues made accessible through the possession of a plentiful supply of pocke money. The boy so treated will become a lubber, and the fowls so treated will become lazy touts, although it is true they may be worth a little more per pound than the boy. Fowls thus fed will lay on fat, a! d the egg-production will gradually cease. After a time they (the fowis) will become machines, and nothing more,for the consumption of food without any tangible return. When just enough is fed to sutt the surround ing conditions they remain active, and vigorously prosecute the search for what more they may want. The exercise thus taken is favomble to free esg-prodaction, and also sustains undiminished the powers of reproduction, so that judicious feeding has a powerful infuence on lertility or the opposite of this.

When the food fed in execss is soft in kind, and of a nature liable to ferment, the evil is nuch aggravated, as the food then tends to produce loathing, and ultinately induces indigestion, which culminates oftentimes in some form of disease. If the next meal is placed in the feel trough on the top of this fermented mass the evil is aggravated. No one but a sloven will allow himself to commit such a cruelty upon the fowls. Farmers' daughters never become so forgetful of the importance of cleanly habints as to feed their pets of the barn-yard in such a style. Their good sense will teach them the wistom of feeding just enough, esjecially of this soft moistened food so susceppible of fermentation, and if, by a-mischance, any of it is left they will apprehend the necessity of removing it. We do not mean to give any countenance to the opposite mistake of feeding the animals too little food, which would indeed be a false economy, for then the exercise required would be too much, the excessive expenditure of labor in searching for food being guite as truly a waste as when the food given is cacessive in quantity.
Much must be left to the enercise of good sense in these maners. To know just how much fool to give, the exact hinds to be given, and to know when to withhold, reyuires much judgment, and all these things will be much qualified ly the attendant conditions.

## The Chickens, their Growth and Treatment.


On the chickens hatching, they were aliowed to remain for 24 or 26 houts under the hen until they were completely "nest-rije." With the mother they were then placed in corps of improved pattern specially desigged for the poultry deppariment. The mothers were confined to coops, but the rhiskens could run at large or return to brood at pleasure. The coopss leecane the homes of the chickens mat they were removed in the fall to winter quarters. On the wate remnerd in the fall to winter quarters.
chickens feathering suticiently to keep themselice
warm by nestling together at night (genamilly at the age of four or five weeks), the mother was removed to her quarters in the poultry house to resume laying, and each colony of chicks returned to their own coop with out hesitation. The coops were so arranged that on being closed for the night the immates were secure against all enemies in the shape of rats, weasels skunks, ete., while proper ventilation was not lost sight of. In rainy weather a double toof on each coop was drawn forward and made an excellent shelter. It conld also be used as a shade in the hot season. Care was taken to prevent lice on the chickens. These pests are insidious and deadly foes to the young chicks and cannot le two energetically guarded against. A great deal of this precaution can be well oliserved at the time of setting the hen, by ruddug her body of all such tenants. In the early sumuner of the jear 1888, two methorls of feeding newly hatched chickens were tried, viz., the dry (hard boiled eggs and bread crumbs) and the wet (bread and milk), lout with one or two exceptions in the past year the bread and milk system was adopted and with excellent results. This method is particu. larly adapted to farms where large quantities of butter are made and there is plenty of curdled milk to feged. The bread was put into milk, squcezed nearly dry and so fed. It contained moisture enough yodo for drink, and in consequence, water was not given to the chicks until they were several days old. Sour milk was left for them to take when desired and was always enjoyed with great relish. Feed was given as frequently as they would eat and as much as they would take. Ton much importance cannot be altached to the fact that the first few weeks of the chicken make the future fowl. A chicken half starved, or stinted from any cause in the first five weeks of its existence never regains the loss afterwards. Chickens for table use should be pushed from the first day they are able to eat. As the chickens grew up the last feed in the evening was gradually changed to wheat and crushed corn, and pains were taken to see that every chicken went to its coop with a crop full. The bread and milk gave way on shorts, cornincal, ground oats, bran and other suit ble materials mixed in burling water with a handful or two of ground meat to the chickens which could rot get grasshoppers or other form of insect life. The mortality among the earlier chickens did not reach beyond 5 per cent.-R'efort 1890 .

For the Casadian Live Stock and Farbi Journal Duck Raising for Proilt.

## Miss G. Willson.

There is no poultry on the farm that is more useful and profitable than ducks; useful in their untiring cestruction of insect life, while profitable as a hardy fowl, requiring little care, and demanding a goxl price in the marketr looth as a table delicacy and for their feathers, which is quite a consideration, as the latter are always salcable.
There are a great many varieties of ducks. the leadiing kinds which scell 10 have the preference for domestic use are the Rouen, Aylesbury, and I'ekin, cach claiming for their own some special recommendation, but any of the above-named varietics will give good satisfaction if well cared for, and the strain kept pure. In many farm-yards ducks are allowed to breed in-and-in until they dwindle in size, and being but poorly cared for, soon become anything but a credit to those that handle them. It is an object to have carly ducks, so the first eges should be hatehed under brooding hens, which will make good mothers for the young ducklings. When ready to leave the nest give them a low-sided pen, covered with slats or netting, having one end closely covered to provide them with shelter and warmth at nights.
The best food at first is bread, moistened in milk or water. After a day or two any soft digestible food will do, but it should lee cooked, especially if cornmeal is used, but oatoneal is better. A litlice cooked meat, chopped fine, and mixed with their food is good, hut should lie sparingly used, as it is relaxing. Too much water should not le given at first, a shallow tin kept filled will le quite enough, into which a handful of coarse sand should le thrown. While in the downy state they require a great deal of feeding, and should le fed not less than five or six times a day, as early as possible in the norning and just lefore going to rest at night. When a few weeks old they will do with mach less attention, hut should be fed, at leasf, threc times a rlay, and vith regularity, as they are
creatures of habit, and, if , llowed their liberty, will usually return for their meals at the accustomed time At this age they should have free access to a pond or stream, but beware of their enemies which lark in such place, turtles being the mont troublesome.

In titting ducks for the early market they hould have a course of feeding for two or three "eeks of broiled or seakled meal, and soaked grain It is to be remembered that com is the mose fattenng fookl that conld be fed. By soaking the gran there is not so much danger of their injuring themelves by overfeeding. Fegetables voould be given them, and the necemary supple of fresh water mul grasel. During this time thej should be allowed only tiberty enough tokecp them in heath. As wom as they get their first coat of feathers they are weady for market. Ducks that are intended for the fall or clorisumas market should le sparingly fed, larels emough to keep them groning. C'ntil a few weehs previons lo killing tham glle them the same treatment as your early ducks had, the drakes will require longer feeding. Duck, white srowing, are sulbject to diferemt livesse- the mont troublemme being woblen lumpo om the under part of the jomes of theor feet, cansing great lameness, and Which they seldom get oler: and they are aloo often troubled with weakness in their hach. These diseases are thought, he weme vriters, to he catied hy freding too much conce:arated fockl while growng ; and this, I think, to be the cave, as some of my ducks that received no care whatever, but had to tild ther living as best they combl, were not at all affected in this waj: On the nther hand, about one-half of them that were strongly fed with grain were lame, some becoming altogether uneless, although all rased from the same stocik.

## Horticultural.

## For the Cavabina linf Stuxk and Fary Jucknal.

The Best Method of Setting outian Orchard.
As the growing of frums for market purposes has proven to be protitable to mont farmer a short artucle on this question will be apprectated by thene desiroms of adding to their revente in this way:

Of late years fruit, and eupecially apples, has become a profitable product of the farm. Ind those farmers who are fortunatic enough to have good orchards of the proper sarietie, are realizitg good incomes from that sonuce. $I$, a natural consequence this has given a great stimulus to tree planting, and many new, andi in a good many cases large orchards have of reeent years been set out. If is my intention therefore, to give a few practical hams on this subject, from knowledge that I have acquired largely from my own experience. In the first place then, your best judgment should le exercised in selecting a suitable piece of ground. If you have a clay farm a sand or loam spot should be chosen, (if stuch is to be found on the place), regardless of location, as trecs will thrive much better nit thas kind of soll. 1 would also suggest that the orchard be mosed a reasonable distanc. from the house, as the practice of planting orchards round the house has been altogether too conumon, much to the detriment of both. The next step necessary after having selected the ground, is to build a gock substantial fence that will be proof against all the animals on the farm. Thuusands of dollars have lieen lost in thes country by the destruction of young trees, fust for want of a proper fence to protect it. After having the fence complete, I nould plant spruce along at least the north and west sides of the orchard, as theswouldaffordalmost complete shelter from storms in that direction. This would be a great advantage, inamuch as some of our best varietics have tender word and are liable to le destroyed in this way. It 1.5 very desirable also that the land thould tee thoroughly underdramed, and I would recommend that the the lee set in the
ground alout three feet deep and two rods apart. It would be well the prestous fall to cultivate and prepare the soil as you would for a crop, and should it lee preceded by a root crop all the better. Cireat pains should tahen in planting the trees etraight, as it adds greatly to the beanty of the orchard. In order to secure this, it is a good idea to measure of the ground first, and place a peg or small stake in every yot where a tree is to be planted. Trees should by all means be planted not less than two rods apart; in dugging the holes remove all the loose surface soil to one side, that it may lee used around the roots of the tree after it is planted. If the soil is stiff or lard, care should be taken not to dig the holes too deep, for should the season come wet, water will lay at the roots of the trees and kill them, therefure, dig the lowles large in circumference and shalluw in depth, and if the root of the tree be nut sufficiently curered when level with the top of the ground, hall it up as you would your corn. He sure to pare off neatly, all broken roots, and trim off the limbs, leaving the routs and lombs evenly balanced. Difer gour trees are planted muleh them well with coarse manure. Be careful in keeping the manure back a few inches from the tree, for if it gets in contact wath the barh $t 1$ will caune it to rot. A great mans trees hase been destroyed in this country by mese and other vermm girdling them in the winter time, when the now is deep. I find a grod preventave against this nuisance is to hill up the trees with earth high enough so that it will be abwe the show, and remove the same early in the spring. A great diversity of opinion eaists as to the lest varieties to selest, although all are agreed that winter fruit is the most protitable. The same sule should be applied to the selection of frait trees, that a man would apply to the selection of a goxed cow. The conclusion to be arrived at is: What variety will proluce the most and at the same time command the best price in the market? I will not attempt to give any advice in the matter, further than by saying that if I were planting an orchard of three hundred trees this spring, I would plant one humdred Baldwins, one hundred Northern Spy, and one hundred Rhode Island Creenings.

Reral. Farmer.

Fur the Canamas lane Stoka and Fara Journal.
A May Talk.

## By Mos. Anste L. Jack.

As a chald, I rememiker the May prole wreathed with flowers that never falled to bloom for the day, and the delight of all in this holiday of sentiment, when Gorl says, "Iet the earth bring forth." In Canada, nith our short season and great hurry, there is no tume to spare after the frost is out of the ground, work presses, and hardy seeds must le sown. We expect io have peas in June, and potatoes hy Dominion Day in this province. lly that time the bed of asparagus is ready to take a rest, and we stop culting. This vegetable is not so well appreciated as it should be, though it is as casily grown as a crop of potatoes, and once planted will last for twenty years or more, if properly fertilized. We have an acre that has been fifteen years cropped, and seems as strong as ever. This is one advantage, no spring planting to do. The rows are plauted far enough apart to cultivate by horse power, and the method and planting given to a field of conn will ansher here. One-year-old plants are the best, and the variety called "Conovec's Colossal " is largest and best. A top diressing of salt is said to be bencficial, at any rate it keeps down weeds, and is death to some insects. lieing a marine plant it is supposed to need salt to supply the neces. sary food when planted inland, out of the reach of a saline atmosphere.

To cook asparagus, it is only necessary to put in as small a duantity of water as possible, w) as to retain
all the juces, and the water in which it is boiled is thichened with a little flour, butter is alded, and it is aroured over the vegetable after placing lengthwise in a dish.
The medicinal value of asparagus is frecly acknow. jedged, and it is recommended in cases of dropsy, being a diurctic, and possessing curative qualities in sciaticat, gout, touthache, and all rhemmatic affections. The head of this household proves yearly the truth of this, as the rhemmatism only returns in early spring, before asparagus time.
l.ettuce is the first salad ready for use in May, and should be largely used by those of a nervous temperment, as it contains a large quantity of milky juice, that i- if a narcotic guality, a mild form of opsium, and has a sedative effect on excitable people, without injurious results. Radishes are of value in cases of scrofula, and act on the kidneys, so that there is tase and medicinal need for these vegetables that are with in the trach of every one in the month of May, when the stomach craves a change, after the long winter.
The first green in the garden is mint, prized for its use as a carminative, and as a saluce. In the latter form, it is often brought to table even in hotels, so badly made as to be quite spoiled, with a depost of stggar at the lottom and too much vinegar. The mine after leeing finely chopped should lre covered with water for an hour, then the sugar added (ahout four ounces to a tablesipoonful of chopped mint), and enough vinegar to give the recuired sharpmess, all vinegar loeing a mistake. Cress is considered a purifice of the blood, and if sown early in May grows very quickly. It is washed and caten with salt, to bread and butter; no prettier dish comes to the table at this season, than a center of scarlet and white radishes, with a circle of green cress. Dandelions are grown now in hotheds, like any other vegetable, and come as early as the first spinach. There is no doultt of its value in skin diseases and dropsy, while its action on the liver is thoroughly well known to the medical faculty: It is simply cooked, and when grown in hotbeds is crisp and sweet, not having the bitterness that is found when the roots are old and coarse, and outcloor growth, strong, quick growing and blanching greally improve the flavor. In the woods of this fair Cinadia, there are Ilepaticas blooming long ago, and Spring lleauty follows closely; wedelight in the Hepatica or "Hepsie dear," as one of the children lovingly named it long ago. But as May abvances the woods are full of Trilliums, and of blue and white Violets, the latter growing near swamps, while the dainty blue Violets send their rootlets and fowers in every direction. There is nothing more beautitul than these shy blossoms of the woods, and they can be acclimatized in a wild garden, near the bouse, generally thriving lest under the shade of a tree, and blooning a little later than in their native haunts. The yellow bells of the $\log$ tooth Violets are quickly followed by the pale pink hearts of the wild Spectatites, all May flowers. There is a freshness in the air, a new life to everything, tree and shrub are bursting into leaf and bloom, all nature is awake, let us be up and doing. "It is not always May," and what is forgotten now, cannot le redeemed till another spring, and though our yearly miracle is often a little late compared with the southern climate, $u$ is as Lowell says:

## "I like our backward springs,

That kind $o^{\circ}$ hangsle with their green and things.
An when you most give up, without more word, That the fields fullo o hloccoms, leavec, an' birds; But when it does get ntirred, there's no gin out."

## For The Casadian live Stock and Farm Journal:

## The Castor Oil Bean.

There is no ormamental plant more desirable fur lawn decoration than the Castor Oil Bean (Ricinus), giving for the labor expended on its cultivation an ample return in graceful and beautiful foliage of oriental appearance. There are many different varities, the biorbonienses A, borens being one of the most desirable, as it will attain such remarkable growth during the season, specimens often measuring from ten to twelve feet in height. The plants will thrive best in a shady place, and the foliage, under such conditions, has a more brilliant appearance. The beans should be planted as early as possible in soft rich soil. They seldom bear transplanting. The best way after selecting a suitable place is to remove the carth about a fort and a half in depth, and the same in diameter. Fill in with well-rotted compost, adding a littic less
than one-third of the soil removed. Flant the bean abom two inches deep, and as soon as the leaves make their appearamec water freely, and occasiomally with a weak dilution of liquid manure. This is the secret of success, as the phant will grow in proportion to the nourishment given it The seed of the alvove-named variety can be purchased from Mr John A. Bruce, of ifamilton.
(i. W.

## The Apiary.

## Bee Notes.

At the Rhode Island Expjerimental statoon the subject of bee-keeping forms one of their departments, and from a recent bulletin we take the following conclusions they have summed up: (1) " We believe and have endeavored to show that beekeeping is of sufficient importance to deserse the encouragement and protection of the State. (2) That bees are of great service to groners of various crops, as well as proftable to their keepers for their honey and wax. (3) That honcy bees do not injure sound fruit, and that the damage done to unsound fruit must be comparatively light. (4) That to prohibit bee-kecping is unconstitutional, and that no one need refrain from keeping them on account of opposition due to :gnorance, fear, jealousy, or the ill-will of their neighbors (though all reasonable precaution should be taken to prevent annoyance or accident). (3) That this prejudice against bees is sure to give way to public opinion in their favor. (6) That a widespread knowledge of bee-keeping would increase the products of the State.

## fur the Canadian Lave Stock and Farm locrnal:

## Alsike Clover for Bees and Farmer.

## By R. F. Hol.tekatas, A.O.A.C., Komney, Ont.

It will certainly pay a bec-kecper who is also a farmer, possessing a farm with clay or clay loam soil, to cultivate alsike clover. Now because I am a beekeeper it is to be hoped that no one will be uncharitable enough to form the opinion that I am blind to the farmer's interest, and sacrificing that for the sake of the bees. Upon light soil alsike clover is not the success it is upon heavier. For the bees thete is no surer source of honey thail from alsike clover, and a very beautiful honey it gives. For the farmer it is considered that alsike clover is as good a crop, or better than wheat, and it pays better one year with another than red clover. In parts of the county of Haldimand, it is grown year after year i,g almost every farmer, and this must be strong evitence in favor of it as a crop. If kept for seed there is little, if any second crop. If pastured right along it is very good, and it furnishes pasture continuous. I understand it has all the advantages for the soil that other clovers have.

Upon this subject, Doctor C. C. Miller says, in the American Bee Journal, he doubts if it pays to use land for plants useful for their honcy only; the honey crop might be a failure, and then there would te no return from the land. The Doctor thinks melilot may possibly pay for this purpose. But a crop like alsike clover will give a paying crop even should the honcy crop from it fail.
J. S. Molersinan, Sydney, C.B., writer: "I have enjojed
Mix. Euran Pickel, Wellburn, writes: "I thought I would write to you zelling you that am very much plenned with the year 1800 as it is a very useful book for stock breeders to read and shows one where to go to.get pure bred stock."

## Farmers' Daughters' Column.

## Our Prize Essay.

With the avoived object of helping our farmers' daughters to make the life on the farm more pleacant and more enjoyable through a wider knowlelve of the work that maj properly come under thrir ginidance, we purpuse offering a series of prizes for ensays written by them on various topics. That there need not Le any lagring on account of the want of subjects, we stall from month to month suggest a few, but it is to be remembered thata choice of any prize will be given to the writer of the bett essay on any suitable sulject that reaches us that month. You may choose jour own sulject, and if none better reach us that month, and the subject chosen is one that will interest the other readers of this department, a choice of any of the prises will be given to the writer. The conditions to be observed by the writer are:-
(a) The essay must not exceed one column in length.
(a) The exays for competition fur the prizes to be given in any month are to reach us on or before the 1gth of the preceding month.
The subjects suggested for July conpetition are:-
(a) The Best Breed of Fowl for the Canadian Farmer.
(2) Flowerang Shrubs Sutable for Canada.

Essays for June competition:
(1) The rearing, feeding and preparing of geese for market.
(2) The growing of rasplerrice for home use.

The following are the prizes we offer:
(1) The Caradian Queen one year, $\$$.00.
(2) Secis, cuttings, bulls of any kind, select ed from the cata logues of any seedcman advertising in our columns, to the value of $\$ 2 . \infty$.
(3) Vick's Illustrated Floral Magazine one year, \$1.00. (4) The Ladies Home Joumat, one year, $\$ 1.00$.

This list will be increased later.

## The Feeding and Care of Ducks from time of Hatching untll ready for Market. <br> [pRIzE RSSAY.] <br> By Elizaberis Dobson, Schomberg P.O., Ont.

First collect the eggs as they are laid. I prefer selting them under a hen, as she can be confined better than a duck. Dust the nest well with sulphur. As som as the ducks are twenty four hours old remove the hen to a coop in a dry sheltered place. Feed bread crumbs and shorts mixed with poiatoes, as dry as possible. Give the ducks a hard-boiled egg if they are weakly. After, when they begin to cat, give them sweet milk to drink, and plenty of clean water. Potatocs and shorts or meal mixed are good with scraps of meat or liver chopped finc. Wheat screenings make excellent feed. Cabbage, lettuce, and greens chopped, are devoured greedily. The ducks should be led five times per day till they are four or five weeks old, then four times per day will do. If allowed their liberty they will pick up a great deal. In the fall they should be closed in a yard where they should have plenty of water and sand given them. At this time they should also be fed on pointoes and meal mixed and given warm three times per day, and grain onec. They should get all they can eat for two or three wecks.

## The Farmer's Garden.

[fRIze essay.]
By Miss Amaxda Brown, Binbrook, Ont.
Most offarmers think that allthe time and labor expended on a garden is thrown away; and hence it is wholly neglected, Now such an opinion and such a practice should be corrected at once. There are many farmers who seem to think that if in the spring they plough up a few square rods, and plant the land with potaioes, corn, a few pumpkins, and a bed of onions, they do not need to venture any further.
The garden should be selected with particular reference to its exposure, and the quality of the soil. If both of these are good, there will be little difficulty in having a gool garden. The soil should be deep, and casily broken up to the depth of about twenty inches, and be brought by repeated manurings and plough-
ings to a similar richness throughout. Nearly all our cultivated garden plants require to be brought forward as soon as possible, outr short summers barely affording time for maturity, therefore the land should be ritged up in the fall, to afford early planting in the spring. The size of the garden must lee governed by the quantity of supplies expected from it.
In making selections of seeds for a garden, great care should be taken in securing such varieties as will keep the article in season longest. On this, the profit of the garden depends. I d, not pretend to dictate what articles shall be grown in a farmer's garden, as the state of the soil and the taste of the individual must be consulted. I will give you a list, however, of many articles essential to a farmer's garden.
Early potatoes, as those in field culture will fumish a later supply; com, the sweet, and common early; lettuce; radishes; cucumbers; onions; carrots; beets; turnips; beans of which the bush, and large speckled cranberry, are perhaps the best; cabbage, the earliest that can be obtained; squashes; melons, such as the citron, muskmelon, and watermelon; tomatoes; celery; a strawherry leed; also currants, gooseherries, masperries, and other common fruit should not be overlooked in planting a garden
I do not suppose that anything like a list sufted to every irtividual has been given, as one's own taste must be regarded. Particular locations may be more favorable to the growth of some and less favorable to the growth of others.
It can scarcely le doulted, that vegetables may be produced in the garden for half the cost of their equivalent in other kinds of food for a family. Let a person make a memorandum of every article taken from a good garden, at a lair market price, and the amount at the close of the scason will be incredible. No person, whether rich or poor, should neglect this importart branch of farming.

## Thoughts From the Girls for the Girls.

Miss Martha W. Fishzr, of Benmiller P. O., Ont., writes us an interesting essay on the Farmer's Garden. She says: "If the farmers' daughters of this faur Dominion of ours would give more attention and care to their gardens, and take more interest in gardening, some farms would look more pleasant and attractive. A garden on the farm is indispencable, and besides, gardening is a pleacant work, and it is aloo very bealthy exercise."

Miss May McMillas, Lomeville, Ont., forwards us two capital exsaya, one on the Farmer's Garden and the other on Raising Ducks. Her advice is practical and clearly stated: "The first thing necescary for 2 good garden is to have the ground well manured and thoroughly worked. All plantz, ex. cept vines, should be placed in rows, as it is casier to weed and work the ground about them. . . . Nothing is of more use to 2 house than a good vegetable garden, neither does anything beautify it like fowers, flowering shrubs and a pretty lawn." The exsay on duck raising is especially original: "Ducks are easily hatched and easily raised, but if set under hens the eqges should be occasionally sprinkled with wamm water, for if not, the inner skin will become tough, and the duckling will not be able to make its way out. 'If under ducks"this is not necessary, as the duckk, when off, will be in the water and the feathers will be wet, so the ezss are meistened in this way. . . Of all the domestic fowls, ducks are the germediest. When feeding for market they should get Indian meal, mixed with milk and potatoes, mashed with shorts and other soft food."

Miss May Dovle, Morriston, Ont., favors us with two hirs rate essays on the subjects that were set for this month." In respect to the garden she says: "The vegetables can be grown in rows withless trouble than in leds. The rows should be wide enough apart to allow of cultivation with a one-horse plow. In these rows the vegetables should be put from 8 to 12 ims , apant, berry; bushes from 2 to 4 fl." The management of ducks she gives as follows: "Ducks should be fed bread and milk, chopped grain, and given plenty uf fresl, water: When four to yeven. days old you can let them go to the water. Feed twice ${ }^{2}$. day on grain, chopped or whole, boiled potatoes, turnips, and onoe a week sunflower seed. Feeding ducks at night or morning will luing them home."

Miss Nyllis W. Seith, of Druart, Ont., for one oaly ten years old forwards us a very intereating exsay on the Garden $\alpha$ the Farm. It is a well written article, short and to the poinc. She says: "In the first place, the garden abould be the beat bit of land on the farm, well drained and manured. It. shoold be
phoughel earls it the yprab and harrowed thoroughly. 1as it off in bedo of mitalle hire-we like them lung and marrow wo that chey mas le eavily worked from each sule. The first thing to phata lethace, an will stand quite severe weather. Then union, leecte, cartut, and radishes, clucely fulluwed by pean and leams, Nandid tre phanted every two neehs itl stceesson. Of cumse the garden should comain a few rows of wome good kind of early polatuen, alco turnips, paranips, cauliflou en, and cabhe es, the hatter being earfly and hate varictins. 1 nuat not forget amentom my favorste lanurice, waternelons and muck melous, which slould have a favored curner." In a foot note grater in the fine $\downarrow$ promg weather

## Jottings.

Farmers' lastitute at Walkerton. Jases A. I ama,
 us to mention in May mumber, that "0 "he intention of the


Holstein-Frlestan Assoclation.- Owing to the delay in recenni. the luiter we lave lund that it would he


Rogers' Peeriess Hoof Ointment. - This ointment has a
 new and tochnent. It in said tu in tavaluatle for troublen con-
ne.ted with tie hoof, softening in its nature and at siclaumed lieals more rapully with. soltening inh nature and temedy. Al applied on sores. burns,
 shoutders and othier like
tended its applantions
Chatham Fannlng Mills. - This mill has reached a poputhic highest terms of it. Shipments are now made to all

 isa ruller atachment to clean all dust off stwh gran as beans.
 neceviss to re er
ing in ths journal
Fertilizers.-Mr. Joseph Siratford, of Brantford. Who places an advertusement with us, is at prevent preparedt to supp.
p's customers with she beyt brinds of land sith. Fypminn, and Ply customers with the bett brands of land sate. Fytmum, and green, tho insecticides that frutt grow ers cannot afford to do
without. The use of pypum as an alsorvent and as a fertitizer is not aimuch appreciated as it should be and the some may is not as much apprecrated as irhoulation and the sume may, feature or his worh to handle only the best brands, and on that account he funds that his trade is spreading wonderfully: See his advertisement in thin number.
Live Stock Agent.-Canadian breeder and inporters will find it of great Asistance to them in their work to correspond
with Mr. F. (G. Preece, of Shrew shury, Fingland, who is fully


 speci 1 armerngements as to freight, ar wellas considerable experi. eice in chippinge he is able 10 nake very favorable serms for
the purchase and deliver or live stock to any part. We woula

English Barley, -The Dominion Bovernment, for onnveni-


 number of haver requiredi on ham e inirducers of " Ne Sivenesx, and is a prizetaker, Wiever shewn. Price, soc. per Seeds. Phants. Bulbs." Their reputation as seedsmer, stands A1.-(Adve.)
Shipping Facllitles. - We beg to draw the attention of of Steamsthos, which appears in this iseul. These lines Line from Conada. During the past winter the fine large steamship "Amarintha" has been addod to the Donaldson Fileet, and three fine new stel <teamshups to the Rose Fleet, all fifted up with the latest improvemenss receessary for the sare cariage of hive stock. They have amo, as with the other stenmersor the chese, applet, and other pernhable farm products, Mlessrs, furnith all further information that may be required.
Woll-Morited Recognition.-As a clear instance of the fatt that no hamidrawn ines en natura separation stem the ef from a oontemporari, acruss the ocean, the firrouttural Gastite: "We heartil); welcome the cmportant step which the
Dominion Government has taken with a view to the smprovemen: of the dairy indutry or ranada for wime ume the darry men of Canada have urged the appoonement of a Dumimon officer, whose duty it should be to take charge of the expentments in dairyins now alwus to be conducted at the Dominiun fapms in the various Provinces, and gencrally to motruct the
darymen Tor Canada, hy lectures fand Shullecins, in the less methols of increasine sind injuroving the Candian suphly it The appointment of Prof. Robertonn at Dominion Superintendent of Dary ARraculaure. Prof. Robertson is recemmed as one of the hishest authorities on dairying is Camath, if nut in the UnurmStates. No better appoiniment cuald have been made.
Canadian Ayrshire Association. - Twentecth Anuiversir ur the establishnent of the Canada Ayrchire Herd Reconl, at hontreal, and the Aunual Meeting of Ayrhire 1. Anil 1 ,'
Asn. or Camada, was held in Monureal on the sath of $A$ uril last. Asn. or Canada, was held in Montreal on the sth of April last.
Thicre was a large attendance of members and patrons from the Province of Uuelece and Eariern Ontarto. Mr. Wn. Roditen of Dannagenct. Ont.p prended. He was unammously re-clected mectein. as mouph in eurged the appomment of another, the Steyenson, sec.-treanurer, and the executive committec. were reeclected. The reports showed that the first volume of the Herd Book had been revived, completed, and distributed. The printing of the second volume was nearly conpleted and would alco be distributed. Copies of the books will continue to be
furnivhed to each of she cuintier Arricultural Societies as books furni hed to each of the countiey Arricultumal Societies as books
of eference. Fach member of the Astociation who pays his of reference. Each member of the Aseociation who pays his
sutiseription will receive the copics free of clante. Entries in
 Stevenson, Montreal. Changes were mate in the fees of mentlervhlpand entries. It was agreed that the Herd look would he pranted frequentis, of a mure convenient ine, and kiven free to subcribing memlers. Interesturg partacularm contained m
 value of pure bred Ayshires to the dairy farmer. Aloo report of mitk tests that had beens made in Great llritain, the United stites, and Canadia, wome of which excecded the Jerncy teits.
in every ciace the) exceded the revults obtaineal frum Mr. In every cace they exceeded the renult
Guy's Ayraires at I ondon, Ont., last fall.
Toronto Industrial Exhlbitlon.-The enterpricing Di: recton of the Industrial Fexhibition Acociation are aknin mak-
inf great preparations for their next amnal fair, which is to be inf great preparations for their next amual fair, which is to be
held at Toronto from the 8th to the zoth of $S$ ephenler next, and from now matil the holding ne same the work will be vigorbeen busily engaged reviving the prize list, and have cumpletel the same in mose of the departments. they have increared some of the unaller prizes in the hore department conviderably and have aloo added a new section for pair of carriage horse, hackney or lights seppers. The special swcepitake prizes for herdh of horse to be shown during the firt week of the fair have been left the came as last year. The lloard have decided
to add $\$ 500$ to the prizes in the catle department, $\$ 225$ in the poultr) department, and the prizes in grain and gasrcultural alco been added to the list, the Farmer, A Athocate ond the Holvein Breeden A weciation of America havins offered specai priven for a dain test; the Hereford Brecders Aswatition Sioo for Herefords ; the Shropshire Breeders Aswciation of Encland \$50 ithe Canadian Clydesdale Association, $\$ 30$ : and the West-
ern I depart:nent and many more have becia conmbututed. In the tive storh department, the arrangements will be the ame as in previous yean, the cattle having to be exhbired the se sond week are offered for homes during the first week. The Dis Disectors have resolved to mahe the coming e? hibition excel in every was posible any previously held, expecially as a larye number of the holding of the same, and on this account they whth to make it particularly atractive.
What our Friends say of it. - From amons the many complimentary tootices our contemponaies across the mean hav Sorby, of Gulperh, we take the followine The Alare la Express of Landon, Ensland, says. "We have received a very handsome catalogue of the hish-class stud uf Clydextales owneil by Messrs. D. © O. Surby, of Guelph, Untario. We cinnot re-
 viz., instructive example of what a privatecaualogute shoula be given in the clearest maraier - . We havie only to add tha The illustrations are good, and the entire get-up and printing is
 on it as follows: "Mesers. D. \& O. Sorby, The Woodla do, Guelph. Canada, have sent us a copy or a munenficently ilius trated catalogue of their select stud of Clydendale horses, from which we gather hat, almost without excention, ench pedicte traces, in one or other of the conversing lines, to the blood of Daynley ( 222 ), Prince of Wales ( 673 ), and Mackregor ( 5487 , three of the moxr remarkable sires ever found in Scotland, or indeed an The Norts.
frome Mesth Brifish Abricul/ urist ays: "We have received Clyderdales into America, a cony of a sumptuously got up is distine of their ctock which they issued. The catalogue is pot up. but alco from the interesting way in which hie caient fartis respectung the ancestral sires of highdescent cuted port of. The catalogue is illustrited by beautifully exc cuted portmits of prominent animals in the stud. Fancien of
Clydesdales will find shis catalosue at once omamental and Clydesdales
interesting.

## Publishers' Column.

## Our Watch Premium.

Still Successful.-Our Watch Premium is still continuing pa altract workersi, and to give satisfaction. We could print younc friends have of she watches and of THg Jouknal, but our
space is pace is 200 valuable, and we must refrain. However, we
would refer inquirers to the finelist of testimonials published in THE Livy STOck Jouksal for february.

Satisfactlon Guaranteed,-These watches are guaranteed to give salisfaction. We cho not send them out ourselve ${ }^{\text {a }}$, They we never secing thent. If there is any defect in the watch Jessrs. Kent Bros, will make it right.
These Watches are Good. - These watche are good. Several of the young men in our onite have provided themselves pleased with thrm, nud declare then to ine good, honest timekeepers, and in every way satisfactory.
Watch No. 1. - Waich No. 1 (a solid strong, huning.cased, sten-winling watch) is given for ten new subscribers to 'rus Lelve Stock foundat at the regular rate of \$r.oo a year.
Watch No. 2. Watch No. 2 (beantiful whd silver watch, stem-wimding, and either open-riced or hunting-cased) is Riven fur tuelve new nulscrilxers to
regular rate of $\$ .00$ a year.

Description of Our Watch Premlums.-If any of our younk riends wamt 1080 go work 10 earn one of these good descriptous, order blanks, return forms, sample copies, and all ecessry information for, coing to work to rom cluls.
Why Cannot You, Young Friend, Obtain a Watch 9 - Why camot you obtain a watch, as so nany others of your comrades have done? Have you triel? If not, set to work at

The Banner Oat Premlum.-The Banner Oat Premiun, nuw withdriwn. Our ants are all exhausted $\mathbf{2}^{-1}$ we can lupply no more.
Sample Coples, ete. - We shall be glad to furnish sample securing of anbucriptions, to anyone desiring them
Trial Subserlbers. - We will send Tis LAe Stock Jouk. trial subscriptions must be written out on our blank orderoforms proviced for that purpuse.
How Trjal Subseribers Count.-Three new trial sub. serins
plans.
How to Secure Your Own Copy Free.-Send us $\$ 2.00$ With the names of two nete sulncribers, or $\$ 1$. 50 with the names scription rial subscribers, and we will invaince your own sitbcription one year free. Remember that the sulikcribers $s 7$
olanind nust be new, old sulscribers will not courn. The tral subscriptions should
we will writen out on blank orter fornis which we will supply on application.
How to send your money. - Send it hy Registered Letter. This is a perirctly sare and satisfactory way . if the amount is
large send thy Post Office Money Order. Noter send money is large send by Pust Office Money Order. Nater send yroncy is
an anmpisternd Hetter. There is no means of tracing it if it be an wnereisteryd letter. There is no means of tr
loxt, and losses are sure to decur row and asain.
Keep your eye on thls column.-Keep your ege on this column. In it every month, you will find sumething to interest
you, and also to profit you, as we hope. Now, send in your you, and also to profit you, as we hope. Nuw, send in your
The pleture of the Ontarlo Agricultural Colloge. -
We have received from the late manalers of the Jouksii a number of finclithogmo number of fine lithograph pictures of the Onfarto Apricsl/aral good view of the College and the surrounding buildings and grounds, and quite suitable fur framing. To every present sub we will send a copy (if, equc-fed) of this picture until the stock is exhausted.
How to address your ' atters. - Address all currespund. ence to Tas J. E. brrant Publishing Company (Limitad), 58 13ay Street, Toronto Put all matter intended for the erlitor,
all
items of news stock notes, and matter intended for publica. all items of news, stock notes, and matter intended for publica.
ion, on separate sheets. Please bear this in mind ; it saves non, on separate she
guod deal of trouble.

## A New and Very Liberal Premium.

Boys, this is for You. - Hundreds of hoys have leeen at our weth premium necribers for ThB LIVE STOCK JOURNAL Un But so many have tried to get the full number of ten and twelve and have not quite succeeded that, in onder to reward them, we and userulness, cannos be sumacsed in liberality, "takingness, and userulness, cannot be surpassed.
What Our New Premplum is Llke. - It is intended expressly for you, boys; that is, for you rather than for your elders. You are all anxious to get information; but you want
to get it in an agrecable form and upon tonpics of current interest. So our new premium is a book, a new book, a book of grea interest, of most useful information, upon a topic now uppermoss $n$ the thought of everybody-the great continent of $A$ fica.
What Our Premlum Is.-It is entitlod: Pictorial Africa, Narpatives of their Perils, Adrenturrs, and Achicurments


Further Description.-Tile above is the tite, but it gives one a very poor and meapre idea of the book. We may cay further that the work consicts of 400 pages of heavy white piper, beautifal engravings, many of them, full-puesed, and a fine
What the Wurke is About. -To give even a summaries he ountents would require this whule page; all we can sap here is that the work comprises a history of all the great exploring
expeditions made into Arrica, and full acoounts of the great expeditions made into Arrica, and ful zecounts of the great
explorere themselves-Bruce, Mungo Park, Burtun, Speke, Grant, Murchison, Baker. Mofat, Livingsone, Gordon, Staniey of the travels of Livingstone, Gordon, and Stanley, particularly In fact, it contains everything of importance that one wants to know concerning this most wonderful country up to the very latest times; itx penples, animals, fruit,
climate, resources, products, etc, etc.

How the Work Is Illustrated. -The illustrations are not only very tumerous, but yery interesting and beautiful. They comprise portraits of livingstone, Gordon, and Stanley, and many other explorers; hunting scenes, war scenes, and domestic scenes; landscaper, inountains, waterfalls; native races, bative animals, native forests; pictures of the slave trade, of caravan traffic, and of local traffic; in short, everyshing of interest that aeeds illustration concerning the whole continent, and that in reat fulness.
The Value of the Work. -This book has been only just recensly publibed in England. We contrul the niarhet for Cannda, and copies can be secured only from us. So the price is just what we say it shall be. But it would lre considered a very desirnue book at $\$ 3.00$ in any invokstore; and we shall not
sell a copy at a less price. The postage alone on the book when sell a copy at a les price. The posiage alone
we send it out as a prenium will be i3 cents.
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This is a Liberal Premlum. - Now, hoys, this is a l.hiekal is working for us to oltain wew suying when we tell you that his look, you will be earning larger vages than you will mate at any other er 'oyment for a long time to come.
How to go to Work. - First make sep your mind to do so. Then send to us for sample copies, blank urders, return forms return envelopes, etc. Then set right about the work, and do not rest till you have secared the requisite number of names For further particulars see our "Publishers Column.
Finally.-Finally, we are so satisfied that this book will give pleasure to you that we say this: 1f, when you receive it, you do not find it just as we have represented it to be, we will return you yuur money, and yet send on LIas Live Stock Jounkat.to

## Stock Notes.

aristatter partaking of the natwic of an Advertisement qusll not the inserted in these colunens.

## Horses.

W. H. Mitisian's (Woodstock), cob pony stallion, Lord Mar, won firse prize at lloston, Mass, in a class of twelve.
Thr Hahas National. 1 mifuhtiag, Co., of Montreal, inake change in their old and place a new advertisement with us

Mr. Kow of Avon, Ont., writes: " I lavejust sold the Cleveland bay stallion, Santa Claus, advertised in the March number of Tus Jouknal. Mr. John Jackson, of Glenallan, Wellington Cuninty, was the buyer. In Sama, Claus Mr. Jackson has one
of the liest stock hories in Canada."

Canada
The select stud of Clydesdales owned by Mr. Edward Char'. 1, Stocks fieldoon-Tyne, England, were recently sold. Ti25 for Black Bess, and zons for a bay fillyof 188 , both being $\$ 1225$ for Black Bess, and 1025 for a baj filly of 1884 , both being
Lought by D. Riddell, of Faisiey. The scven two-yearold fillies made an average of about $\$ 3 \infty$.

A draf of Clydesdales, numbering thirteen, from the Earnock stud, of which Mir. Robs. Wilson, Mansurace, is the proprietor, realized an average of 600 tos. sod. each. The highest price was paid for Earnock Queen 7944, fualel in ' 84 , got by Darnley
222, out of Bride of lammermoor 2506, namely, 220 guineas 222, out
$(\$ 1,1 \infty)$.
A.s. H. H. Hurn, of Burlingion (Hamilion P.O.), Ont., Durposes selling by public auction, about the middle of June, sume These horses are all regictered in the Canndian Clydece years Sid. llook, and are bred by swme of the best breeders in that wellknown cenire of pure-lired Clydesdale stock, Markham township. Particulars of this sale will be anmounced in our issue for June.
W. H. Hutciunson, of Woodlands Farm, of Portsmouth, Ont. writes: 1 sold last week the imported Cleveland Bay stal. lion Ingnanthorpe Lad No. 8 si , Cleveland lay S. 13 ., to Mr. H. lee Borden, of Tonti, Illinoss. The lad is a very stylish horse and was winner of first prize at Midland Central and Hay of
Quinte fairs as three-year-old carriage stallion, and aloo diplomas Quine fair as best carriage stallion any ape last yoar They at each fair as best carriage stalion any ape last year.
know a good horse on the other side and will have him.

A correspondent, writing from Manitola, says: "The latest additions to the Thoroughbred stock of the Melita District is a Clydesdale stallion, General Lee (5034), B.C.S.13., imported by John Miller, Esq., Browgham, Ont., August, 888 g , owned by Mr. Wm. Ferguson, of Peterboro, who is going to farm on quite an extensive scale near Melita; ; also a Berkshire sow from J. G. This animal is also from imported stock, and in farrow io an im. ported boar."

The tenth annual sale of Clydesdales and panies, the property of the Marquis of Londonderry, Ireland, was held a short time ago. The Shetland ponies sizesaveraged from 8.3 to 10.3 hands,
realized pricer trom $\$ 10010 ~ \$ 275$. Clydesdale mates sold for from $\$ 500$ to $\$ 2050$, the latter proce being paid for Star 3739, a get of What Care I. Mr. D. Riddell bought Regent for $\$ 1550$, and Conspiracy, out Pearl uf Avondale, for \$2500. Two-year-old fillies averaged $\$ 250$, iwu year-old colts $\$ 425$, yearling fillies
$\$ 270$ to $\$ 375$, yearling colts $\$ 100$ zo $\$ 325$. $\$ 13010 \$ 375$, yearling colts $\$ 10020 \$ 325$.
We are informed that at the dispersion sale of Shire horxes, the property of the late Hon. E. Coke, Longford Hall, Derbyreached: 「hirty females averaged $\$ 7 a 5$; four fillies averaged

## Advertisements.

## GREAT SALE BY AUCTION.

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stiongly muscled, cleun limbed, and would niake an excellent stıongly muscled, clein limbed, and would name an excele is
hunter. As a gentleman's horse none could be better. Will be sold reasonably.
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## Stock Notes.-Continued.

Sitss; only 3 aged stallions were sold, averaging $\$ 1925$, and one of these brought $\$ 3150$. Two mares brought $\$ 3000$ each. Fityytwo were sold in all. The preference of the company:
ascmbling at Lonsford on she 16 th of October, was very dis. inctly in favor of black, and whole thack in particular.
At the Victoria Horse Bazara, Belfast, Irelan., Mr. Robson held his thirteenth annual collective sale of Shorthorne It was the most extensive one yet that has ever been held there, as no
less than 173 lots were catalogued. The farmery Gavettes says that owing to a lack of quality in some cases purchasers, though well disposed to buy, did nut seem inclued to invest except at certain prices ; the result was that the average was reduced to a sumewhat low level. The highest average reached by any one herd was a dran of seven bults that averaged about \$170. The hishest price realized for a single animal was, in round numbers, $\$ 200$ for a bull.
Henky Bark, of Douglas, Ont., has recently purchased from It. Arthur Johnston, of Greenwod, One., 2 ery fine wo. yeas
old pure-bred Clydeadale stallion, sired hy his imported Prince old pure-bred Cidecdale stallion, sired hy his imported Prince
of Wales horse Prince of Clyde (saso). This colt, though only in fair moderate condition, is full of promise. Sired by one of the very best brell Prince of Wales (673) hurses ever brought to Canada, and out of une of the best mares ever owted at Greenwood. His feet and pasterns are juss to the taste of your Glas.
gow expert. His joints are clean and welldefind. His bone gow expert, His joints are clean and well.defined. His bone
is clean and hard as fint, and ornamented with 1 nice fringe of is clean and ha
soft silky hair.
The Farmer and Stockbredier says, anent the Suffolk Horses: Hold as the assertion may seem, we candidly think that the Sur. roth Punch has improvel nore rapidy or recent years than any
other draught bred. It is in fewer hands than other breedy other uraught bred. eventually from the fact that is has been fosiered and upheld by tenant farmers, by an inductriuus class of men who have to study urility more than rancy. Anyhow its progress has beell solid and substantial, while the attempts on the part of breeders to rembve defects and perfect the type of the breed, have been attended with wonderful success.
The largest sale of horses that has ever been held in Toronto was conducted at Grand's Repository during the week of Apri
isth to 19 th. The following figures will prove interesting rshiage and saddle horses, sold Tuesday, brought $\$ 12.727$, average $\$ 303 ; 68$ carriage and saddle horses, sold Wednesday, brought $\$ 170 \$ 8$ average $\$ 251$; 93 draughe ind general purpose horses, sold Thursday, brought \$12 o6,7, average $\$ 19$; 79 e
draugt and general purpose horses, sold Friday brought $\$ 8,927$ draught and general purpose horses, sold Friday brought $\$ 8,927$,
average $\$ 113$ i 40 ordinary workes, sold Saturday, brounht average $\$ 13$ i 40 ordinary workers, sold Saturday, brought
$\$ 3,40^{2}$, average $\$ 86$. Total, $\$ 52,229$. The sale was well $\$ 3,40$, average $\$ 86$. Total, $\$ \$ 2,2$
attended by luyers from all parts
James H. Wilson, of Lifford, Ont, has purchased from Mr. T. Evans, of Yeverton, the Clydescale stallion Juss the Thing (2148), a grand son of Damiey (222). Mr. Wilsons enterprise in
securing such a valuable stock hose is commendable. fust the Thing is a stallion of good stamp and will beyond doutt do honor to his present stables. A local authority says: "Mr. Wilson's last efforts is sure to catch the farmers fancy, and it is only what his energy and enterprise deserves at their hands, as he is now the premier horsemast of the distnct, having controlled the following well known sires: Ivanhoe, Sootish Champion Cufle,
man. man.

Creighton is the name of Mr. A. C. Hell's latest purchase sired by Beaumone, dam Souvenir by Harold (sire of Maud S. $2.28 \frac{1}{4}$ ), and dam Nutgall. (full sister to Felix 2.281/) by Nut wood 2.1814. Heaumont is by Belmont (sire of 30 trotters in the 2.30 list, among them Nutwood $2.181 / 2$, and Wedgewood 2.29 out of Midnight (by Pilot Jr.), dam of Jay Eye See 2. 10 and Noontide a.203/4. This is certainly rich breeding, and indivi dually the colt is, barring size, first class. He is a rich bay in color with black points, when full grown will be $15 / / 4$ hands high, and is more a Harold in appearance than a Belmont. He He is quite a respectable addition to th. trotting stock of Pictom He is quite a respectable addition tost, trotting stock of Pictor
County.-Easterm Chronicle, Nл spow, N.
W. H. Millana, who has been visiting in the Western States, boutht while in Kansas at a high figure the celebrated stallion Walker Sprague, record 2.34\%, trial 2.223s, by GoySprague $2.291 / 2$ dam by Capt. Walker, public trial 2.16 , the sire
of the dams of Harry Wilkes $2.131 / 2$, Gen. Garfield 2.21 , Charlie of the dams of Harry Wilkes $2.131 / 2$, Gen. Garfield 2.21, Charlie Friel 2.18 and other noted horses. It is unnecessary to go
further in his pedigree as it will be seen Walker Sprague is as finely brad as any troting stallion in America. He has never been trained but 3 weeks in his life, is eight years old, stand $15.21 / 2$ and weighs, in fair condition, $8,100 \mathrm{lbs}$. This stallion cango any day in 2.30 without training. In color he is beautiful seal brown has splendid head and eyes, grand shoulders, back and thighs. with the very beit legs and feet. He has a number of colts rising two years all of which can trot
fast and will scon show what Walker Sprague is Sentimel fast and will soon show
Revierv, Woodstock, Ont.

At the Stranrear (Scotland) show and sale of Clydeadales there were eighty.two entries. Owing to the large reserves placed
upon most of the attractive lots few sales were mule. A Princt of Wales colt, Stranrear, bred by Mr. Agnew, out of a mare by McCamon, was placed first over twenty yearlings, and also woo the cup. In the yearling filly class of twelve entrier the first prive was taken by a Cairtbrogie Stamp filly. A' noted Top Gallant, out of 2 mare by Samquhar, was first in the wo-year-old coit ciass. There were twelve entries of iwo-yent old fillies, and first was awarded to a get of Belted Knight's. A get of Ben Button was awarded first over the four three-year-ol colts showil. The three-jear-old filly clase was stated to be the best in the show, and first was won by a filly from Mr. Riddles
Duke Kirg, out of his famous Lord Ljon mare. It is stated that owing to the very high reserve prices, ranging up to $\$ 2,250$ only $a$ few cales took place. The highest price realived was $\$ 1,265$ for the first-prize two-yearold filly. A yearling tis sold

## Stock Notes.-Contixncid

Messks. Rougrt Brith \& Co., of this town, exhibited their imported Clydedale stallion Sir Walter, at the annual cultural Huciety, held on the Montreal Driving Park, Poins St. Charles, on Tueslay. Eighteen as fine a lot of ctallions as one would wish to behold appeared on the field, and after a minute inspection Beith's Sir Waller was awarded the gold melal and prites the Society guarantee sixty mares for service at sto each with the privilege of service to an many more as may $x$ put a not less than $\$ 52 \mathrm{ench}$, which make the prize at least $\$ 1,000$ besides the gold medal. Alr. J. Clarke, ot Uttawa, was awaridel 2nd prize on his imporited horse Windwr, and Mr. Kobert Ness, of Howick, 3 nd prize on Dandy limnont. Messrs. Percy if
 ata handwome price. He is five yerrs old. -Aotes in ilat from Boamantills.

Mk. T. Evans, of Yelverton, the enterprising importer and dealer in Cisclesdale horses, reports recent siles of two fine thiree-year-old filles, Anmie Park (976) by Sir Hildebrand (4024), and Cherry Lass (Vol. xi.) by Old Times ( 379 ) to Messrs, hang and
Melarry of Port Perry. Thece are realy two good mares in Melastry of Porr Perry. Thece are really two good mares in
color and weigh 3,300 ibs. it is needless to say they were color and weigh 3,300 lbe It is needless to say they were
bought at a long price, as these are the mares whifl carried of bought at a long price, as these are the mares which carried off
 Young Dill ( (Vol. xi.) by Baron O Shiceve (3403), a fine 2 wo-
year-old fill wh.
wood second at last fall's shows with Paisley jem (Vol. ai.) the winner of the D)erby in Scolland last year. The latter, yet in possession of Mr. Fvaris, is a fine out standiug filly and is a hall-sister to Just ihe Thing. With one exception this filly never took second phace. Owing to his fine selec. toon in the lave importation he las been very fortunate in clear.
ing his stalls, notwithstanding the hard tinies. In his stables ing his stalls, notwithstanding the hard tinnes. In his stanles there are two fine three year-old stalhons, Auchenlecl2 (1333,
C.CS.B.), (744, B.C.S.B.), and the spirited Thivle (7342, 13. C.C S.B.), (744s, B.C.S.3.), and the spirited Thisle ( 7342 , H. C . S.15.) These have silt elge pedigrees, are dark-browns in
with superior qualty, style and actoon. -Camadtan l'ost.
H. Grorge \& Sons, of Crampton, Ont., write us that they have been very successtul with their imported Shire staliol
(lenox No. frenox No. $7^{534}$, at the spring stallion shows, having saken old, and sweepstake for the best draught stallion any age, and ${ }^{2 t}$ Ingersoll he look first prize in a class of five imported Clydesdale stallions for the best draught stallion rising three years old. Leenox is a low see, blacky colt, with very heavy bone, and weighs $1, y^{25}$ ths. They also report thefollowing sales of Ohio Improved Chester and Berkshire swine: One pair of Chesters and one pair of Berkshires 10 the Model Farm at New
Brunswick : one pair of Chesters to James Rettie, Living Suring P.O. one boar, Chester, to Francis Smith, Campleelleroft Pr.ing one Chester boar to W. O. West, Jericho Piop ; one Chenter bear to David Rendy, Tavistock P.O. ; one Chestee sow to W. H. May. Trenton ; one Chever sow to R. M. Brown Cowans ville, P.Q., one boar and two sows to Havid Doble, St. Augus. Chester boar to John Hickingbottom, Bly th: One Chester sow to C. High, Beamsville P.O.; one parr of Chesters to Frank Knighe, Avonroy P.O. ; one Berkshire baar to G. D. Ellic,
Thedford P. Thedford P.O.

It has always been the practice at "Island Home 'stock Farm," Grosse Isle. Nich., to give the horses exercise cn the road ; bus the weather of the past six weeks has made the roads so muddy on the lsland-the soil being a heavy clay, that Savage e Farmm have been compelled to give the horses nos they, it is said have the larees stallon wables in the world they, it is said, have the largest stallon wables in the world became smooth enough, a grand parade around the Island wisis aranged. One or the drives around the island is about tive miles ong, and when the lass animal was leaving the gate of "Island Home," the one that started firt was just coming in on his way lack, making 2 continuous line of first-clans live stock
five miles long. An amusing incident occurred which dermon five miles long. An amusing incident occurred which demonstrates the affection horses feel for one another. Savage \& Farnum have a very fine inported Shetland pony; 1 wrd lond
onderry, and he live in the same box sall will their famcus onders; and he lies in imported prec, eeron Stallion, Pluvoise 3755 ( 683 ), where they sumble and piay like a pair of puppies. When the procession samie, but the litte rascal would not budge withour his biar stall companion, so to keep peace in the fanily, he was allowed to march with Pluvoise, every other animal goiog single file.

## Cattle.

At a recent sale at Kendal, Eng., the average price brought by ninety-eight Shorthom bulls was $\mathbf{C} 18$ 229. ©d. The hightest price was alout $\$ 175$, for a jearling roan

In the stock notes of Mr. D. K. High, of Jurdan, last month the brackets () used by the Brisish, regitration authorities were used by mistake
George Ballachev, of Edgemont Farm, of kirantrord, Ont., writes: Sinee writing 1 have sold the bull call Major Myrtic ${ }^{12} 2325$ : to Mr. Landon, of Burford, and a sow and boar to Mr. Micalpine, of Aughrim. The youngsters are deitghted
birth of the first Shetland foal from the litile mare Tiney.
Anocher portion of the famous Sittyton herd has been saved from foreizn exportation, as Mr. Sutton Nelthorpe, of Scawhy, Lincolnshire, has purchased all the members of the Violet trile, said to be one of the uldest and finest families of the Sittyton herd. It is stated that these clanged hands at high prices
At the annual Galloway bull thow and sale held under the 1 spicen of the Galloway Axricultural Societ y at Castle Douglas, scorland, there were shown one huadred and fify-two young ulls, and he hundred and forty-five contestants. The prices ranged from $\ell_{19}$
to X 2 a

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est nutice. References Ly pernission to Mk. joskitl Vasce est nutice. References by pernission to Mk. Josk
New Hamburg, Ont, and other (anallan lanporters.

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## SHEEP FOR SALE.

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## Stock Notes.-Continurd.

Journ McNkil., of St. Johns, Newfounaland, lias secently imported four serijareca ayrshare hericrs and one bull. The "as limst at the Antrowsull show in November lati. Ayishite brealers will be glad to hear of this new addition to their rank.
At a reatit sale in tireat britan of Scotch Shorihorns, fortyTho ammints were suth at an averaxe price of C35 125 . The highest price wass pund for cinderella bilh, of quineas ( $\$ 325$ ).
 smums arer.sed $\mathrm{C}_{33}$ is od.
diboes Strwakt, (iillies, Hill, Ont., writes: "Our Dur-

 tadion (1'ride of Canhetom (3550)), for the season; he is low - ., with heavy boue, and is a goul suck getter.

Mk. L. ${ }^{\text {M }}$ Vseconts, of Minuewta, reports to the Jersey
 frome each cow or hiy jerrey herd. The is siated by the above ciicen as, Ibs. ench of curn maal shorts and brat 3 lles of oit meal, qullo. of corn suilage, and $s$ low of clover liny.

Thoneton's cinculak, a valuable recond of shorthorn
 the year, aud perbaje what is more imeresting, a summary of year and permajk what is more ine the total whes cimducted by this firmi numbered hints, at whach were disposed : 348 hicad oi Shorthorns, and the average price was about \$175.
Massk. Stunky, hakcias ${ }^{2}$ Co., of Port Hope, Ont., have jupl secured to head therr select hate herd of shorthorns, from Mr. Johntollo of Greenweod, de very excellems young livender hurt-leggel, deep-bodied, thick young bult, with plents of


Williay Wilion, of Edinonton, Ont., has very recently purchased from ilr Johnton, of Greenvool, a very superior young bull of Mr. Jolmwan's "ell-known Crimson Flower family, the tribe that produced the Messrs: Currie © Suns weepsatakes
bull at the Provinctal fhabitun at London, in 8880 , Vecides butl at the Provincal Erhatiton at London, in 1889, besides mans uther equalls goed ones, inchudng the cow that won frist Wrie at the Provincial athintion at Guclphin 1883 . Crimson Wartare, though
oughy gool one.

Tus committee on ayriculture of the local lexislature of New 1 Brunswick recenty passed resolutions, whech were adopted recornmending the government to 1 mpori ten Hovitein bulls be widd at the exhibition to be held in st. Johni in the fall of the precent jear. It was also recomunended that the present slock on the provincial Stock Fatm, including the entire horses im. ported, with the exception of one, Harry Wilkes, be sold, is they' urge the government to keep the latter two years longer.
1). Alesxasdkr, Brigden, Ont., writes: "I see a communicithon from this County in your stock notes necasionally; You mas remember thin County is nutedfor large gas welk, and people are api to bed ta need more or less by thetr surround-
 womething to praise in our stock; rood is thas good luee If names of anmals were not mentioned we might think stock noter very complete, but good treadine in animals is like the sune in bipeds, it carrics unnustakable evidences with it."

Mr. D. McKay, Box C, Owen Sound, Ont., writes: " 1 am a little behind the tume thin ycar m renewing iny sulscription to Ink jouksil could hardy do withous is it is such a great
help ino us in the back country in the way of stock-raising. I help int use in the jack country in hie way of stockraising.
have taken have taken Ths Jouknsi, since it shrte, and it has hown me
the necessity of petting somewhat betterstok. 1his spring I wought rom smieh af son, inpe price for. Ihe finc lull calf, darh, red, sot by a bull that Mor Smith gos rom Mr. Dryden, M.'P.l', and it promises to naketh fine animal."

Willeial Kough, Mravertine Fann, Owen Sound, Ont.i
wries: "Mr. Alfred Mann, of lowmanville, visited us on asiti of Narch, and pirchacal the followink Galloway cathe, year Lings, a bull and a heifer. The lharno, 6117 , bred by W. Kough, sired by Claverhouse, Imp. ( 4250 ), $\mathbf{6 1 4}$, dam Duchess Loulse and, 2830 ; Sybil K 3rd 5308 , sired ty Stanley and, Ontario Experinitental Farn, 2837, dam, Sybil 2nd, Imp ( 10,088 ), 4619. Industrial, last ycar. Sybil K zrd, was 3rd at Toronto industrial lass ycar.

Gro. "Allacugy, of Edgemont Farm, Braniford, Ont., proving. Thave latel cold the yound loull Chesterficld $m 12234$ to Mr. Bmavan, of Dunuville ; Berkshise boanr to Mr. Good,
 Yari, Ont. : Yoar to Mr. Taylor, of Woolktock; hoar to Mr.
S. Le Camplecl, Simeoc; and boar to Mr. J. F. Smith, Molawk. Seven of my Shropshire cwes hambed twins before I got one single one, all have lambed new but one. I have this season am getting some monster lambs.'

Messks. Thomas batlangrank \& Son, of Stratford, Oit. Greenwood, Ont., the very promixing young bull Indian Prince, of the grand uid Nonpareil family, so well and favourably known at Sittytun and Kinellar, not only as prize strock and hreelers of prize stock, hat as milkers. The dam ot Indan
Pnice, imported Nonpariel of Kinellar, is the best milkerin Pnice, imported Nonparicl of Kinellar, is the best milker in
the Greenwood herd, and Mr. Johnston says one of the beat

## Stock Notes, -Continued

inilkers lie has ever known. Indian Prince is out of the same as the heifer calf that went first prize in 188 as the Provincin Exhibition at London, as wen as first prize at the Industrial Exhibition at Toronto the sane year.
Mr. C. M. WinsLow, of Brandon, Man., breeder of Ayreshires states that with ordinary pasture in summer, and good hay and wheat bran brain in winter for a number of years and of lat averaged as follows: 1880,10 cows average 6,025 lbs. of milk 81, is cows average 6,176 lix a of milk; 82,9 cows average 6,67 lin. of milk; ; 83, is cows average $6 ; 168$ lbs. of milk ; ${ }^{\prime} 84,16$ cow average 6,814 bs, whf milk: ${ }^{189}$, it cows average 7,025 lis. of milk: 86,16 cows average 6,238 lbs. of milk: 87 , 16 cows aver are 5,782 lbs of milk; 88,10 cows average 0,388 ivs, of milk en logy on the tnilk.producing qualities of the $\Delta$ yrshire.

Jonkrd Yuith, Mcadowside Farm, Carleton Place, Ont. writes: "I have made the following sales of Ayrshires: Two cows, Teen of Meadowside-ri4ot-and Susie of Meadow cow Venus, No. (ash, one-year-old heifer, Queen of Meadow site-si99-to Robert Reid, Hintinburgh; one year -old bull ienernl Lanark, 185, to Amos A. Neintow, North Wintains lacy or Meadowside 4432 , and yearling bull Waler Shane 857, to Jovepla Mc Cord, I'reccott; yearling bull Lard Lanark 88 , to 1 . Edmund, Jasper; yearling bull Meadow ide 180 to I'lomas Dhillipe, Woudleridge Dakota, U.S.; and one heifer calf to I). Mclaren, Mlagarry li.
Join McHuch, proprietor of Kendalville Shorthorn herd, Cresco, Iowa, has placed an advertisement with us, stating that he $n$ ill dispose of 120 head or his Shorthorns on J when 11 th and 12 th. re well-bred Cruikshanks, and a number aredirect inmertations The three stock bulls that have treen mostly used are well. -bred Crijkshanks, viz: Double Gloater 85526, Glamis $8671 \mathrm{~S}_{\text {, }}$ and dy al Victor (a Victoria) Vol. 35. Mr. AicHugh has success. nits; exhibited at the leading fats, and with a group of females swept all before him at Iowa, Illinois, Wisconsin state fairs. For full particulars we would direct the attention of our intersred readers to our advertising column. This is a rare chance if securing good animals of this poi lar tribe, of a popular
oread.
Mk. Daniel Steinmetz, of Schoeneck, Lan master Cu., Pen., U.S., has purchased a small lot of Galloways from Mr. Thomas McCray, Guelph, eight cows and heifers and a bull. The bull is a very fine one, imported, and one of the celebrated Hamah family. The cows are all of good quality and well bred, several of them having ublizined prizes at our hows Kate 11 . of Murrayton (iosor) looked especially well, with a one cont of hair and good lines. She was one of the best, and was closely followed by Victoress In. of Closebum (9649), by Lucky Times ( 3058 ), one of the prize bulls at the last Royal Show at Windsor, England. The young heifers Chusie (soap) and Jeanie Gardiner (5936), Wore winners at Ottawa and King stop shows last fall. Mr. Steinmetz has an old acquaintance with the Galloways and likes them well.
Bollekt Bros., of Cassel, Ont., write: The demand for choice Holsteins is better than ever this spring. During the lass few wens to Mr. A. E. Plumier, Waterville, N.B., and the others o Mr. Wm. Forrest, Jamestown, Ont., and Mr. George Green Oxford Centre, Ont., and the cow to Mr. Those Thompson, ron Bridge, Algoma. The young bull which we lately shipped to Mr. N.H. Meagher, Q.C., Halifax, N.S. to head his fine herd, reached his distant home safely, per G.T.K., in the short space of forty' hours' travel. He has given good satisfaction. Mr. Meagher expresses himself thus: prom what I have seen of him, he far exceeds your representation regarding hims. We also purchased from 1B. B. Lord of Sinclairville N.Y., the fine tine ill May. This we believe to the richest cow ever brought to Canada.

Mr. Arthur Johnston, of Greenwood, Ont., reports as follows: The demand for really good young Shorthorn bulls, fit to head herds, has not been liker during the past ten years, hough purchasers have very grudgingly paid anything like decent prices. There has been quite as much enquiry after - place. The demand for heavy t!raught stallions has pro bably never been so dull in the par: inn years, and the sale of registered mares has not been slow sr i ir many years. Ordinary useful workhorses have been abrolu. $\mathrm{l}_{5} \mathbf{y}^{2}$ a drug in the market. farmers store cattle have sold higher at' public sales than they have ever done before in this country. Sheep of. all kinds and all grades are'very high, and in great demand. In short, all Il chases of shive stock are high and sazrce excepting horses All classes or live stock have come through the winter in better condition or in the very best of form, without a really wort the herd. AIn $S$
aim. Smith, of tia pika or Missis, G. Smith \& Son, of excellenti, this personally informs us that their herd has done pare- bred jerseys, all of the best strains. They expect a crop of about forty calves this spring, mostly all from their stock bull Nell's John lull, a get of Canada's John Bull, and a richly of the well known Ida of St. Lambert. This herd is a working one, as large quantities of cream are shipped daily to the leading one, as targe quantities of cream are shipped daily to the leading they can deliver the cream to their Toronto patrons within five hours after it leaves the cow. The Welsh ponies also bred by here gentlemen are doing well. They will have, as soon as the coaling season is over, at least seventy head. They have made numerous miles during the parr year, chiefly to our neighbors to the south. The firm at present, besides the large stock before mentioned, also carry nearly one hundred head of Berkshires clover pasturage for pigs, and pea meal for their cows.

## SHEEP FOR SALE

## 

SOUTHDOWN SHEEP.
Flock first established 1837. Commenced exhibiting 1867. Since then have taken her of medals and diplomas


Imported Ramp used only.
${ }_{173}^{18}$
stock for sale.
Richmond Hill, Ont.
Dispersion of Mr. Henry Mab's Flock Southdown Sheep in England,

Messes. John Thornton \& Ce. will sell by Auction without any reserve at Streetly Hall, Linton, Cambridgeshire, on July 22, I 890 the entire remainder of this noted flock of Southdowns, bred entirely from the old Babraham Flock of the late Mr. Jonas Webb and comprising 250 yearling Rams and ewes (being the lambs of 1889 ).
Particulars may be had of John Thornton \& Co., 7 Princes Street, Hanover Square, London W., England.

JERSEYS FOR SALE,


## Jersey Bulls.

Gur FAWRES, solid fawn ${ }^{2}$ yea
Show, 1888.1889 . A model bull. from St. Heller bull, out of est prize cow. Both are registered Also, for sale, a few yearling heifers in calf. Prices reasonable, Come and see, or address
J. C. SNELL edmonton, Ontario.

JERSEYS FOR SALE.
Several fine Jersey Heifers ; choicest strains, $\begin{gathered}\text { Prices low. } \\ \text { is } 8 \text { Write } \\ \text { G. M. BEEMAAN, NAPANEX, ONT }\end{gathered}$

## SWINE FOR SALE

THOROUGHBRED BERKSHIRES.
FOR SAL.E, a number of Thoroughbred Berkshire Sows in pig: Young cows and boars 7 months old. Young $\mathrm{P}_{\mathrm{Si}}$ - 6 ,
C. R. DECLEESER, Chesterfield P.O., Ont.

## Berkshires for Sale.

[ HAVF for sale a few choice Registered Berkshire Monas abut two momus old, also a few sows from two to six monas. Tail ship to one. Saissaction guarantee. HENRY ARKELL, Arkell, Ont.

SOME CHOICE

## Suffolk and Berkshire Sparing Pigs



FROM IMPORTED STOCK.
38 EACH, OR
$\$ 10.00$ PER PAIR.
(Will Register.)
Also Sows and Pigs of different ages. Three Bull Calves is months old, from Imported Bates Bull. Prices reasonable.
F. J. RAMSEY. Dunaville, Dit.

CHESTER WHITE PIGS
We are now Booking Orders for spring pies.
This is the time to order and secure first choice.
R. \& J. GURNETT

Ancaster, Ont.
BERKSHIRES.
SPRING HITTERS OF
CHOICE REGISTERED BERKSHIRES
Now Ready for Shipment. Also a few Choice Shear. ling Shropshire Rams.
 SPRINGVIILE - - ONTARIO.


CHESTER WHITES origi. mated in Chester County, Pa. If you send to me I can give you stock that
will please you and benefit you, will please you and benefit you, dy Ib s. at maturity. Walter 4553 is
a noted hog valued at $\$ 600.00$. Write

T. W. PALMERS LOG CABIN STOCK FARM! 150 PERCHERONS. 100 JERSEYS.
To be Disposed of this Season.
For catalogues and particulars address
I ME8RILL BLOCK, Detroit, Mick.

## FOR SALE.

CLYDESDALE STALLION.
Bred from imported stock, 3 years old in May, good animal.
ALSO 4 SHORTHORN BULLS,
Ages ranging from 7 months to 3 years.
Or will exchange for good Clydesdale Brood Mares or Fillies. Apply to
John Idington, STAATFORD, ONT.

MOATED CLYDESDALE STALLIONS FOR SALE importation including the winners of several prizes in Scotland. Also a few Canadian-bred Colts and Fillies on hand. ${ }^{1} 493$

New Glasgow, Pictor Co., N.S.

AMERICAN
CATTLB-CLUB JRRSEIS.
BALLACHEY. lirantfon, Breeder of Percherons, Sh br-
No offer paper publish ae ie havinila or out of $\dot{i}$ fives No diner paper publ farmer such value folia whey as The Live Stuck

## Standard-Srod Trotters,

32 Journal.
former
 now ley as -

Stock Notes.-Continucat.
J. F. Akazikli, of takehurit Farm, of Oakville, Om, kindly: favoun us with the followink renults of his sile on the soth of Aprih. The atendance was Roud. Cow. Huse bleames 31576 tu Jolin Crowe, (juelph, ssoa Cow. live of Copless Sprith's




 36007, to IIr. Palfer, Iramphon, stos. Heffer, lakkelume

 jecamis buri oxjuz, to perer lisun, Holtein, $\$_{75}$ Calf.




A. C. Hatzmav \& Co., of Spring Browk Furm, of New Dundec. Ont., writes: The demand for choied lholtein-Friecian-

 The inpuned cow Worthenell, Na. 1923 H.F.H.13, 10 Mr. Andrew Menderwin, Raneville, Ont. The imported cour Artic

 Prince, No. 1270 h.r.1.1.s. There are a fine pair and oughe to half-sizer to lrince of Artis, a hull of great quality and one of the herd bulls at Iake side, owned by stiths, Powell $\$$ Lamb, Eyracuse, N. $\%$ ii and daughter of that grand old sire $A$ ris, 127 A.H.13., so vell kitown to Hoksein breetien The youmg bull Wigtun. No. 1333 , we sold to C. Wazter, Maden, to hrad his heral or Hiktean- Fricsians, and this Lull has for hio -ire Emppire,



 fine los of calven dropped of hoth sexes, of extra breeding and yuality:
 of pure bred Holseins, neluding 3 year-olds, have given on an
 dajut Outs sules have been reved. We send to Agricultural
 pion, whose dame cave of tbe of milk in one day, opi the in
 Modest Gint jrd gave \& llac of milk in one day, ussty lbs in Januario isxi, as a a-year-old. Her dam as a a yejear-old gave $10,2 a 9$ lix of milk in a year, whilst her sizes dam, Princess of Wayno 3 rd, save $19,932 \%$ libe of milh in a year, 18 like 1302 of butter in a weck, 76 liwa $12 y$ oze in 30 dass. Alvocomafrom adranced rexibity stiok on looth sides, and their records ${ }^{2}$ re all been govi. Hi. AJ. A. Ma Gulay, of Harraston, get Sicphje fth Stink Mercedes luron, Hikjike 4th, and Young Wie bieat. The young bults dam gaic 41 , llice of milk in one day, 3343 lix in
 butier in a week, of lbe or milk in a das. Young Wiebien is from advancel registry stock and is a very promising heifer. Mr. Is, Kien. of $X$ inona, guss a grand foundation herd. Siepikic 3rd. Mink Mercedes heads the herd, and Maud Tenven, 1 ady Marinja znd, Markares sih, and Wicu de Sjut. Maud Tencen's dam gave 20 lixe of buttice in a week, zia7 $1 / \mathrm{lbe}$ of milk in 21 arch Last. lady Marinja and is strong in the ililly Boelyn and Ondine blood. Ondine pase goy lbs of milk in 2
 Then we sidd a fine youns bull te Mr. Thomar Ihuter, of Dur: Tham weentre, lielle of Orchardideck Eatiseley. His dam gave ham Centre, helle of advanced recistry: The sire is our Duke of Edgely:"

## Shoep.

At the dispercion sale of W. I. Masen's (Eng.) Nock of I.inculnchire sheep, 57 s head unld fot anaverage of about $\$ 20,00$.

A Hampohire I hown Sheep Ifreederv' Aswaistion has jusi lieen formel in Eineland for the purpore Anmungse mases othere connag within the woute of surh an Asmecation) of the cstallathing and pmblishing of a flock brok for thic bread of shecp.

Mgeske Jntuald, Nansbla ant Waltzks (Eing.) in their annual alostract of Shrognhire sheep sales during 1889 , show that refisiered sheep brought 25\%, more shan unrefisterce ones Over 12.000 sheep of this breed pused through their liands, and the highert puncer werc siooo for ram for Mr. (iraham- nuck, Scoo for ram for hock of Merers P. \& (G. Evanain fak, and Sjas for one from flack of J. Er Fameer.
The rejorts from ail park appcar to talls in promouncang thas a vers; ruitful year for lamiks Not onls do many Camadians quote intancer of this, but from acrms the ocean the nexs is culturit zeports a cace of a shropohire ewe belonging to Mr. iblakeman, of I)ration, siving hirth osthe unprecodented number of seven limine four were hom alive, and the other shree were dead when lamied. Thic euc is quated to be quite healshy, and is nursing three of the lamin, the fourth being handed over to the care of a foxter mother.

Messke. Jons: Turagnitos A Co., 7 Princees-street, London, fingland, will sellity aurtion, withont reserve, on Tueadas; July asmd. ©0, at Streetly 1iall, the remainder of Mr. Heng. lambe are principully by Gloucenter, Einterprice cal, and that fame theep Camindsechire lionehi bo the Duke of Kichmond las July for 210 guineas. The flock of Mr. Webb is made upt mestly by drafin from the old thalraham flock of.Mr. Jonas Wehb that had a worhlorde reprutation. This

# -IMPORTANT <br> Shorthorn Sale. <br> <br> FROM THE KERDALLVILLE HERD <br> <br> FROM THE KERDALLVILLE HERD GRESCO, IOWA. 120 HتA:。 

20 Mrifes and 1is Bulls of Cruickshank Families Proper.
SATIE, JUNTE 3.2 AND 12, 1890

0N the above date the most imporinnt offering of Cruickshank Cattle at public sale in r890, will be held in CRESCO, IOWA, a night's ride from Chicago. One-third of the Scotch Females ( 20 in number) at present in the herd, will go to the highest bidder without reserve. This draft will include, among other Sittyton Families, four Lavenders, five Victorias, three Brawith Bud, Secret, Venus, etc., etc., etc.

Numbers considered, the quality of this draft has never been excelled at public sale in the West. Sooner than incur the trouble and expense of sale in Chicago, I shall pay half the freight on all purchases to desrination.

The larger part of sale draft is made up of Scotch-topped animals, including many show-beasts. A Canadian by birth, and a liberal purchaser at various times, of the best Scotch cattle to be had in Canada, I extend to my Canadian friends a cordial invitation to visit my sale and secure some now popular Cruickshanks.

FOR TERMS AND FURTHER INFORMATION, WRITE FOR CATALOGUE.

## J. W. E. G. G. Judy, John HeMugh, Proprietor, Auctioneers. <br> 20159 <br> Cresco, Iowa.

## FOR SALE. <br> PURE BRED <br> Imponted clydesoale stallion,

BENLEE OF CULLEN (s537), Vol. X., foaled 26th June. 2S8S; Color, buy, white stripe on (20e: hind frett white rebore Vari: Sire of Dam, Young Lofy (c9i), Vol. 1. Also

## OME IIMPORTE CLYOESDALE MARE,

GEORDIE Vol. XII., fouled June $188_{7}$; Color, dark brown, two white legx and white face : Sire, Sir Archibald Huchanan, of dam, Campsic (ing), Vol. I.
Horser can be seen at stable, EAST STREEST, OATS. Fill particulars by post. Address.

JAS. NICCONBIE, Ginit, P.OヵOnt.

## Three Young Shorthorn Bulls For Sale

Mizdixg Strain. Faxmers Paicec. ALEX. RETCHELE, IEverary P.O.Ont.

## St.orthorn Bulls.

1 Bull, aged 5 years; 1 Bull, aged 19 months; 1 Bull, aged i4 months; i Bull, aged 12 months. All of Dom. S. H. H. B. registry, except the laull aged 19 months, which is eligible to N.S. II. B.

> A. C. BELL,

Trout Brook Farm, New Glasgow, N.S.

Stock Notes.-Coxtinned.
final diquerion of the fountain head of Southdown blood will afford Canadian bredern a grand opportonity, Sec advertisement this iscue.

In a recent issue, the farmer and Stockbrecher mentions the following noted digyersion sales, each of which was, it syys, in its way "epoch-making." On July 3rd, Mr. Henry Webb sold the grrater part of the Stanker' Hall kluck, which is descended frum the flock of James Webb, with the result that 408 liead, all enes and rans, averared about ssp, ol on the foforing day which was descentled from Mir. Samuel D) ruce's pioneer flock of the breed. 447 head, includiug 100 Lanks, sold at an averake of alout $\$ 30.00$. On Septembe fith, the entre fock of Shropshises, which were bred ly Mr. T. Mansell for many years, wais sold, and the $3^{83}$ head, including over 150 lambs, brought an average of about \$50.0.

## Swine:

Was. Sandrhs Spencik, of Holywell Manor, Eing., repore the nle of fifty three boars, yelts, and sows of his improved one hu:dred and sixiy-six pigs lave been sold from this herd.

Kusia is now bitling for the Britich 'aceon market. The first consignment reaclicd London a short tine ako, and it is suid to le of a dualisy about midway letween the Anierican and
Canadian on the one hatw, and the test home sorte on the other.
-E. D. Geokrib, of l'utnam, Ont., writes: The denatad for the poputar Cheater White is ever increasing: sixiyseven spring
 iill Top, the innst successul Choter hos in the U. S. Show-ring last season.
R. \& J. Gurngrt, of Ancaster, Ont., write: " Our pigs are wintering fine. Two sows, our lay importation, are finc ones, lxeing very lengthy, and, we think, just the pigs to suit the prexent market. In December, 1868 secing a hal pase auversent for price liet, and sens sas for 2 cow in pig the euaranited sent for privice like, anu sent sas for a cow in pig (he guaraniced time in February in a terrible state, she could scarcely walk, and was not in pig, wo we had her senved by our omn boar, after a acod deal of trouble. The sow was so lad that 1 thought she would die. We wrote to Mr. Eaton stating the condition of the sow, and asked what we were todo; he sud he would give us anything on his litt at half-price. We maited until July so xee whether the sow would get better of not, and as she got romewhat betucr, although citht farme, we con thasemonthold piss endine $\$$ I3, lixs price being $\$ 55$. We heard nothing from its Eending $\$ 13$, hixs price being $\$ 25$. to he heard nothing from the Eaton for some time,so we wrote to him ; still no answer. Then Hearing he was at Ruffalo International Fair, we went over to see him, but did not see him personally. His man told us that he was perfectly reliable, and he woukd speak to him. 1 rold him we did not want fall pirs, and he said Mr. Eaton would do what was sijht. After waiting some time we wrote and told him if he did not send pigs or, as agred we would adiertize him as a froud ; he sent the misx in Novemixer. They arrited al he had midepd the order 1 thouthe it nther hme, as 1 had writien to him so many times Since the pigs have arrived 1 have writuen four or five timex for pedigrea, but he is not have writen four or hive kimer or perdxrex, cut he io not $\$ 60$ and $\$ 701$ consider Afr. Eaton has beat us out of this, except pork price for the pigst It he war a Canzulian I would enter an action apainst him for damafec, but as he is an American I cando nothing but let other insending purchasers know how we hate reen used by him, so thas they may not be beaten as we have been. mopine that this will not occup tho much space, burs in in

## Poultry.

A. G. H. I.Uxtos, of Hamilton Poultry Yards, Hamilton Ont.. reportcthe following sales from January axi: Three Cayura
 Comb Hrown Lexhoms, Georre Cooper. Orangeville ; 1st prize She hrahma cock, at Hamileon and Toronto. and two hens, ea , Manson, Toronto: Black Spaniah cock, Mra Kay , Gail Aymaire cows. 1 heiter and I bull, imported for C. Ayswin, White Rose Comb Leरhoms, istrio Pekin Rantanrs, is trio Houtlans, I trio Lighe Brahmas, inlack Hambars Cockerel and 7 hens, 2 xingle comb White Lectom hens, 3 trio Silver single comb Rrown Leghorn cockerel, harred pockerel Kock cockerel, Wm. Newson. Nocthville, Mich. : I Lanmehan ockerel. John Duncon, Collingwood : I trio Iangehans, Georse S. F. Garden, Seaforth: 3 trio Cayuga ducke Geo A. Cham Vers, Winoma is Silver Wyandotre cockerel. H. Goode, Shanty Bay; 1 trio harred Plymouth Rocks, W. H. Millman, Wood. trock: S Silver I aced W yndorte henc, Gea E. Bullock. Jr, Doon:s White Pjprouth Reck oock, 3 Isight Brahma hens, Malcolm Camphell, Swan Iake, Manitoho I Lijhh limama cockerel. J. Srhlichter, Waushington is trio Huff Cochiny, R. 1 . Weltr. Toronto: i Silver Laced Wyandotte cock and 3 pallets, Golden Sebright Rantams, Gea llennett. Charing Cross: a Goiden Sebrikht Rantams, Gea Mknnettichand Craxs; ${ }^{2}$ White ferhorn oock and s hens, Rich. Van Winkle, Iod Herxen Ca. New Jerney; i pair Red Fowls, $H$. A. Chadwick, Winniper, Manioboa iz barped Plymourh Rock occkerel, A. Á J. Milaic. Glen Sandfield ; B brown breaked Rer Game Hantam palket. C H. McCrac. Dunnville ; 3 barmed Plymouth Rock rens. C. W. IAwran, beeton; a harred Plywrouth Rock cock Erels. R. S. Stevenson,

Romedy fop Earrennese - Pripghatic barren znarex,


## GUERNSEYS !

## THE GRANDEST OF DAIRY BREEDS

Combining the richness of the Jenty with size approximate to the Holstein or Shorthorn but standing atonk and UnKquallsin in producing the richest colored butter in midwinter on dry feed. Gentle as peti, jersistent milkers, and hardy in
constitution, they combine more qualifications for the dairy or family cow shath any other bred. constitution, they combine more qualifications for the dairy or family cow that any other breed.

## IN THE OLD BRICK GUERNSEY HERD

Are daughters and grand-daughters of the renowned Island prizewinuers: Excelslur 1st, Cato, Fair lad, and the famed Squire " lev, alluxbeletts, of St. Andrew, Jeweler and Lard Femwood and nearly all the descendants of the fatnous Swain dixter cow Hazelnut, 2788 , leads stie herd with lord Fernwood's son, whone dan won special premium at the N. Y. Ili ir Show, Squir Kent, grand-son of the noted lady, Fimily Foley and Squire of Les Vauxbeletts and Kohinoor, al wo winner of 1 l . First premium a 1. Y. Dairy Show, are coming into service. All particulars in regand to the breed and herd, individually, clieestully given.
S. P. TABER WILLETS.

Rosiry, Jong Island, N. Y.

## LITTLE'S

 PATEMT FLUID K(NON-POISONOUS? SHEEP DIP AND CATTLE WASH

The best Non-poisonous Sheep Dip and Catte Wash in the world.
A "CREMTO, IL FOOD" FOR TRE WOOL.
Rapidly increases the quantity and improves the guality. IT IS EASY TO USE,
Requires ves; little preparation, mixes instantly with cold water eaves no sediment, no scum, no waste.
CERTAIN DEATE TO LYCE, MANGE,
And all insects upon Horses, Cattle, Calves, Piss, Doss, ctc Superior to Carbolic Acid for Uliers, Wounds, Sores, Saddle-Galls, Sore Udders, etc.
EXTRACTS FROM SOME OF OIIR NUMDEROUS CANADIAN TESTDIONTALS.
"We think a sreat deal of it."-Prof. Brown, late of Agricul. tural College, Guelph.
"Sure death to lice on catte and colts"-Robs. Marsh Lorridge Farm, Kichmond Hill.
"Gives great satifaction."-W. Whitelaw, Guelph
"Best ever user."-Jas. Russel, Richmond Hill
17 GOLD, SILVER AND OTHER PRIZE DEDALS have been awarded to Little's Patent Fluid Dip in all parts
of the world. Sold in lare tins at $\boldsymbol{B}^{\text {in }} 1.00$. Special termas io Breeders, Ranchmen, and othera requiring large quantities.
manufacturens and rmorkietors,
Horris, Litile Som, Deracaster, Eng. Ask your nearest drugeist 10 obtain it for you, or write for it, with pamphlet, etc, to
ROBT. WIGHTMAN, DNUGGIET


KINNDUL PAEK STOCK FARM, NETW LOWENT, ONT.

-merincks AxD נMfortens of chotce
AREREDEEN-ANGUS PDLES.
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