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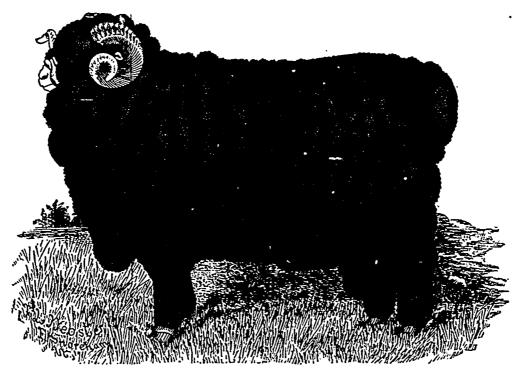
CANADIAN

and AGRICULTURAL REVIEW.

Vol. II.

TORONTO, JUNE 26, 1885.

No. 26.



Merino Ram "VENGEANCE," No. 33. Missouri Register. Owned by H. V. Pugsley, Plattsburg, Mo.

CREAM SETTING.

The following are the results of investigations made by Prof. Ford as to the effects of the ordinary methods of cream setting in Eng-

mental to a rapid separation of the cream. Of two samples of milk, one being shaken before set aside, the latter required eight hours to sep arate seven per cent. of cream, the time re

deg. before setting.

two samples of milk, one being shaken before set aside, the latter required eight hours to separate seven per cent. of cream, the time required by the other to separate the same quantity being only three hours.

2. Premature cooling of the milk before set ting is more serious in its effect upon a thorough separation than the first mentioned point. When milk conveyed to a creamery in a common vehicle by centrifugal separation gave 100 pounds of butter, a sample of milk of the same quantity and quality conveyed in the same manner, and set in ice water, gave only 87 9 pounds.

As a general rule.

In D. S. Curtis's pamphlet on wheat culture less will be necessary. From three to six pecks we find the following upon sowing and the quantity of wheat to the acre:—"As in many other farm matters, there is diversity of opining in more serious in its effect upon a minc the quantity of seed it is best to sow, but judgment and circumstances must deter in minch thorough separation of both seed and soil will render preparation of both seed and soil will render proparation of both seed and soil will render proparation. Climate and variety of wheat also have a bearing upon tribute the seed letter than others, some of the same quantity and quality conveyed in the same quantity and quality conveyed in the same pounds, while another sample, that had been less seed to the acre. Rich, fertile soil requires less, three pecks will be necessary. From three to six pecks will be necessary. From three to six pecks will be necessary. From three to six pecks will be necessary. The promature is about 19, sa general rule.

"Broadcast sowing is hardly safe with less cure is about 19, sa general rule.

"Broadcast sowing is hardly safe with less cure find and the curumstances must deter in the puncture of the growth of the growt

to 68 deg. gave 95.7 pounds, 54 deg. gave 91 sown in the spring than in the fall on the same pounds, 48 deg. gave 86.3 pounds. A means land. Many circumstances enter into the of restoring the original qualities of such milk determination of the question, so that carewas found in warming the milk to about 104 ful discretion should be exercised by each grower for his own special case. The manner of planting, whether by drill or broadcast, and land as reported in the Agricultural Gazette:

1. Shaking of the milk before setting is detri

OUANTITY OF WHEAT TO THE ACRE.

The style of drill used, make more or less seed in the style of drill used, make mo with all light, foul seed skimmed off, of course In D. S. Curtis's pamphlet on wheat culture, less will be necessary. From three to six pecks

THE CANADIAN BREEDER important and profitable industry, but the

AND AGRICULTURAL REVIEW.

Weekly Paper published in the Stock and Farming interests of Canada,

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CANADIAN BREEDER,

COR. CEURCH AND FRONT STS. TORONTO.

S. BEATTY, MANAGER.

Toronto, Friday, June 26th, 1885.

Advertisements of an objectionable or questionable character will not be received for insertion in this paper.

THIS PAPER may be found on file at GEO. P. ROWELL Spruce Street; where advertising Bureau (10 may be made for it in

OUR ILLUSTRATION.

The Merino Ram Vengeance, the subject of our illustration, is the property of H. V. Pugsley, Plattsburg, Mo., and was bred by H. T. Brookins, of Richville, Vermont, is of the Atwood and Robinson blood, sheared 371 lbs. this year.

MR. DOUGLAS ON THE CLYDESDALE CROSS.

Last week Mr. Douglas replied to our criticisms on his presumed newly discovered cross for the production of carriage horses and heavy weight hunters. Notwithstanding what he says to the contrary, we still maintain that the experiment has been tried many times both breed of horses, and some wretched specimens here and in the United States. Speaking as a have been sold in this country from time to dealer, of course Mr. Douglas, like other deal-time. Not long ago breeders must have size ers, is apt to attach undue importance to his regardless of everything else, and in those individual judgment as to what is good and bad days many ill-shapen, unsound, worthless brutes among draught horses. Now THE CANADIAN were imported that have done very great in-Breener is not the mouthpiece of any clique pury to the draught horse interest in this counof breeders and importers, and occupying such try. Among the Clydesdales now in the counfrom off the face of the earth.

mares has given rise to a lot of ungainly brutes that are in every way objectionable. They have all the duliness, all the coarseness of coat and tissue, the flat "brashy" feet and the sluggish action of the draught horse without the redeeming features of size and substance. Such crossing we shall always do our best to prevent. It is unnatural and can only be productive of evil. What Mr. Douglas proposes certainly looks better on paper, but it would be much more promising if he would for the time drop the prejudices of the dealer and look at the subject as one who had no axe to grind rather than as one who could see no good outside of his own shop. The experiment involved in such a violent cross is risky enough under any circumstances, but it becomes doubly so when hampered by a prejudice likely to warp his judgment. If this cross must be tried, the mare should be of a type no more widely different from the male than is necessary to impart the required size and substance, and this was why we were inclined to recommend either Percherons or Suffolk Punches. As regards Mr. Douglas' supposed descriptions of what he deems the leading characteristics of these breeds, they may be very amusing, but they can only be regarded as the prejudiced expressions of a dealer, and can carry no weight with men who really desire to breed good horses regardless of the cross that produces them. Any one who had an opportunity of comparing Mr. Walker's little band of Percherons, and the Suffolk stallions of Mr. Sad dler and Mr. Carson, which were shown at the Industrial Exhibition last fall, with the other heavy horses on the grounds could not attach the slightest importance to the descriptions already alluded to.

There are good and bad individuals in every a position it cannot permit such attacks as Mr. try there are many gummy-legged, loosely Douglas makes upon the Normans or Percher- coupled, flat-footed, ragged hipped animals, the ons and the Suffolk Punches to go unchallenged. progeny of which any good horseman must be As a dealer in Shires and Clydesdales, he may sorry to see perpetuated; but at the same time think it wise to attack the wares of other deal- we are happy to say that there also some exers, though his "say so" may not altogether cellent animals in the country, including native wipe the Suffolk Punch and Percheron men as well as foreign-bred Clydesdales. To compare the breeds of big horses, fairly the Per-Without wishing to injure anybody's busi-cherons or the best specimens of them that have ness, we will state our views once for all on been shown here are not extravagantly heavy. this question of big horses. Extremely heavy While they have plenty of bone for the prohorses are fashionable for certain services on posed cross, they have also good action, strong both sides of the Atlantic, and for the purposes coupling, good feet, handsome crests, and a certo which they are usually devoted they are tain compactness and smartness of outline that doubtless all right, though for anything except is just what is wanted under a thoroughbred show there are very many of them unnecess cross. Now, we do not pretend that these sarily heavy and clumsy. So long as these smallish Percheron mares would be as good for animals are kept by themselves and in their producing heavy draught horses as the "wide" own class the breeding of them may prove an Clydesdales which Mr. Douglas so greatly ad- along" because we regard "docking,"

mires, but any horseman of common sense, not breeding of Clydesdale stallions on common blinded by prejudice, can see that such mares being nearer to the character of the thoroughbred sires must make a less violent cross, and consequently they will be less liable to produce monstrosities. In the produce of such mares as we have seen among the Percherons there is not the cleft rump, the hairy legs, the very large flat feet, the slack loin, and the sluggish action usually found among what would be regarded as average horses of the very heavy draught class.

We commended the Suffolks for similar reasons, though, owing to their great size, many of them might be found too heavy for the pur-

Mr. Douglas' objection on the ground of color is another which would carry but little weight save with a breeder. Let people discover that they could find the best form, action, style, and substance among the greys, and the silly prejudices against that color would rapidly disappear.

HIGH KNEE ACTION.

Writing from London, England, on June 4th, "C. I. D." takes us to task for differing from what he terms the prevailing fashion. We wrote condemning excessively high knee action, but our correspondent rather illogically finds fault with us for condemning, as he supposes, a wholly different thing. We never found fault with "action," and the more graceful it is the better, but what we criticised was the folly of those who on this side of the Atlantic were striving to ape the follies of English flats. It is very probable that true horsemen are much the same the world over, and that which is ungraceful and awkward is not likely to find favor with them, either here or in England. We were striking, not at graceful action and horses showing plenty of quality, but at just such coarse-headed chucklethroated, awkward gaited brutes as we described, and which were being picked up here very eagerly a few years ago by "flats" who "knew all about the home market you know" for shipment to England. There were many such buyers in our market a few years ago, but though they were in their own estimation connoisseurs as to the tastes of English horsemen they soon found their efforts at cultivating untutored Canadians and Americans as to the style of horses "gentlemen" should drive much too costly to be maintained on the means within their reach, while several unpretentious but practical horsemen made a very good thing out of sending over the much-abused longtailed trotters. It was at the follies introduced here by those who talked the slang and aped the general style of English horse-dealers that we aimed our arrow, and we are not without hope that it may have landed somewhere near the mark. On the other hand, we cannot see why "C. I. D." should ask us to champion the cause of "overchecks," toe weights, "knee boots," and "brutes blundering

"gingering," "bishoping" and other cruel or Shire, and Flemish giants. In pairing the ass dishonest practices, unworthy of any respect with the horse it was soon noticed that the ass able breeder, owner, or dealer. As to the pace was the most prepotent, and the object of such at which "gentlemen" care to drive, we are a cross being an increase of size and strength, not sure that anybody has authorized "J.I.D.' in Spain and other Mediteranean countries in his pocket, buys a worn-out hack for seventy- disease. In temper the mule is almost identimore, and then manages to get rid of the rest much larger size than the ass. of his means by a series of equally useful and profitable investments, would perhaps meet "C. I. D.'s" views asto what a gentleman should be; while some of the best and most enterprising citizens both in Canada and the United States cannot be regarded as gentlemen because they drive trotters, and long-tailed trotters at that.

THE Missouri Merino Sheep-Breeders' Association will send Vol. 1st of their Register, bound in heavy paper free to any wool-grower who will send his address to the Secretary; bound in cloth \$1.00. Blank applications for membership and flock reports furnished free, by addressing the Secretary and Treasurer, H. V. Pugsley, Clinton County, Plattsburg, Mo.

Correspondence.

THOROUGHBRED CROSSES WITH CLYDESDALE MARES.

To the Editor of THE CANADIAN BREEDER.

DEAR SIR,—In my last letter recommending a cross of the thoroughbred stallion and Clyde but the original type has unfortunately been mare, I said that crosses were not objectionable lost by too great an admixture of thoroughbred as they are generally more healthy and strong blood. than the offspring of parents both belonging to the same variety. I also said that I expected, as a rule, to get the locomotive system from the sire and the nutritive from the dam, by using as a sire the male of the oldest and best established breed as the most prepotent, and I promised to support these notions by some illustrations. The first I will notice is the mule as the most striking. The mule is the offspring of a horse, equus caballus and an ass, equus asinus. Naturalists look upon them as one species eral appearance, and the mare had given the derived from some remote original ancestor. size and somewhat modified the action. Prince But they have so long diverged that they may Orloff's object was not the carriage horse but now be classed as distinct species, which is the trotter, and he subsequently introduced a if it were so, the goose with the golden eggs is proved by the fact that although they couple great deal of thoroughbred blood in his stock, soon killed. When the Germans have once freely together, the produce is no longer a and succeeded in establishing a remarkably mongrel, but a hybrid sterile. In support of good breed of trotters, although not to be commy theory that the oldest and best established pared to the best American ones, but perhaps breed is the most prepotent, I will say that the the superior intelligence of American trainass has been for centuries a fixed breed without ers might account for the difference. I believe varieties—at least in Europe, for in Asia I I have said enough to show that my theory of believe there are varieties, whereas in Europe crossing the thoroughbred and Clydes is not the horse has been allowed to run into endless altogether visionary, and as I have no doubt

to draw the line. We are quite aware that wherethe mule is so generally used, the practice is while there are many "gentlemen" in this invariably to use a jack as a stallion and a large country who pay very little attention to either mare as a dam. The result is an animal who speed or style, there are some who like horses that in general appearance resembles the ass a great will show a first class trotting gait. These latter deal more than the horse short stiff; neck, long would of course be set down by "C.I.D." as "no ears, skin and hair rough, generally black, gentlemen." The youthful dude who comes to mane and tail very thin and short, hoofs apthis country with two or three hundred pounds parently contracted, but hard and free from five dollars, cuts his tail shorter than ever, cal with the ass, obstinate, patient, thriving on fits him out with a big lumbering dog cart and food on which a horse would starve. At the brass-mounted harness costing perhaps \$400 same time, from the large mare it attains a

In sheep I find some invaluable crosses which

may now be called established varieties by the Southdown ram and ewes of larger breeds. The sire of a well-established breed being the most prepotent, communicates the locomotive system, which carries with it the skin, the finer wool, the dark color of face and legs, and most valuable crosses from the ewes larger than weight-carrying hunter to a polo pony, brings himself have thus been obtained, and are now classed as distinct varieties, the Shropshires, the Oxfords, and Hampshires. Reasoning by analogy, could we not try to get, by judicious crossing of thoroughbred stallions from our own. and larger mares a variety know is now in great demand, a carriage horse large and stylish, looking to the sire for quality and for size to the dam? Should the first cross of a thoroughbred and Clyde be too heavy and not stylish enough, the thoroughbred stallion might be used again, and their second cross would probably answer our purcarriage horses. The Cleveland bay, once so celebrated, was, I believe, created in that way, The Orloff breed of trotters, so celeorated in Russia. was the result of a cross very similar to the one I advocate. Smetanka, a thoroughbred Arab, and a Danish mare produced Polkan. Polkan out of a large Dutch the matter very cleverly. First of all they mare produced Bars, who combined the blood, secured a large number of English mares, and muscle, power of endurance, and temper of Smetanka with the size of the Danish mare. There evidently the prepotency of the thoroughbred, owing to his long pedigree, had given the locomotive system, the organs of will, and gen-

some men intelligent and observant, I would be most happy to hear what remarks or suggestions they may have to offer on this most interesting subject.

> Yours, &c., H. Q. St. George.

Oakridges, June 22, 1885.

INTERVIEWS WITH HORSEMEN.

The Daily News has recently been giving, under the heading of "Workers and their Work," reports of interviews with leading men in the horse world.

Mr. Edmund Tattersall referred to the condition of the Turf, and we report some of his remarks on the wider subject of horse-breed-

'You think, then, that good two-year-olds

are unlikely to undergo depreciation?

"This is an exceptional year, and I cannot say; but for the last two seasons Mr. Chaplin's two-year-olds sold during the July meeting have averaged about a thousand guineas apiece."

"Touching hunters and other horses, are they in demand?"

"Taking the average of the last two or three years, everything that is good, from a first-class a full price. The demand greatly exceeds the supply, for horse-breeding is no longer pursued here as it is abroad. The mares have been sold out of the country at a high price, and we are now importing foreign horses descended

"If it is impossible to breed any but racehorses and cart-horses at a profit, is this result

to be deplored?'

THE EXPORT OF HORSES.

"Foreigners would think so if it happened to them that they could not get a thousand horses for the army at a week's notice, as you certainly could not in England at the Governsecond cross would probably answer our pur-pose and establish a variety of very stylish big carriage horses. The Cleveland bay, once so or roadster has vanished before the railway, which has brought a different class of horse forward. The late M. Cavaliero, who used to buy largely here for the Austrian Government, frequently said to me, 'What fools you are to let this fine business of horse-breeding go out of your country!' The Austrians and Germans have made extraordinary attempts to improve the breed of their horses, and have gone about from time to time buy first-class sires in order to keep up and improve the quality of their horses. Count Lehndorff frequently buys a fine stud horse here and takes him over for the benefit of his great breeding establishment at Graditz."

"These large purchases for abroad must have enriched our English breeders and dealers?'

"Not so much as you think, for the Germans. know when and how to buy to advantage. And improved their breed of horses up to the necessary standard for army and other work, an occasional fresh sire, to breed other sires from, is all that they want to keep up a good head of stock."

"I gather from you that the business of rais-

ing horses is very largely carried on abroad?"
"On so large a scale that Englishmen, not in the trade, have not the slightest idea of it. The largest horse-breeder whom I know of in varieties, from the Shetland pony to the Clyde, there are amongst those who read your paper the world is Mr. Oppenheimer of Hanover, some of these they actually breed for color, one middle class horses In the great majority of stud farm being devoted to chestnuts, another important countries, excepting England, there to browns, and so on. Foreign horses are so is a national stud—an establishment which races." largely imported here for draught that I should costs much money to start it, but which, when think about half of those you see about London once started, taxes Prussia, for instance, for no come from across sea. They do not come more than £100,000 a year, a mere trifle in our much in the way of our business, being mostly Budget of ironclads."

Budget of ironclads."

"You think, then, a national stud and a sold by private contract, but the import of horses into England is very great. Germany sends a higher price for cavalry horses would stimulate large number, so does Belgium, machiners and breeding in this country?" draught horses generally. American horses come over in great force, and France sends her grey Percherons to draw our omnibuses."

worthy of regret is that every other kind of lish are in a minority. animal is no longer remunerative to breed in this country.

NATIONAL ENCOURAGEMENT TO BREEDERS.

"Do you attribute this unfortunate result to Free Trade?

"Rather to the want of national encouragement to breeders."

"Surely, all matters of business are better

left to private enterprise?"

"I am not sure that the breeding of animals the losing game of telegraphy and interfered with the business of common carriers with the Parcels Post. I am not saying this is wrongly doctrine of private enterprise. Now, the recent improvement in English live stock is hardly due to private enterprise. Taking the United

impossible to mount the few cavalry we have. It is actually the case that there is a kind of scramble to mount half a dozen regiments whenever they are wanted. Our cavalry is insufficiently mounted, for several reasons, one the winter months are over the yearlings are with any of our grain feeds. It is a cor-

"You think, then, a national stud and a (English) Farm and Home.

"There is a national stud with a great breeding establishment and centres for stud-horses in France, Germany, Austria, and Russia. "We then appear to be driven as breeders There would be about 2,000 such sires in to the two extremes, the race-horse and the cart-horse?"

There would be about 2,000 such sires in each of the countries I have mentioned. The conditions are various. In France I think the well as the Suffolk Punch, have their stud-books. All this is well enough, but what seems in disregarding all such considerations we Eng-

"Granted that such a scheme would answer here, what place would you find for your cen-

tral haras for producing sires?'

It has a charming climate for " Ireland. horses, and the scheme would be popular. Every Irishman loves a good horse!

EARLY DEVELOPMENT IN HORSES.

Mr. Matthew Dawson, in conversation with the representative of the Daily News, said he considered the subject of early development a is not an exception to what may be a good rough rule, although it has been severely broken of late, for the Post Office has taken up return for your money. You will not, for indone, but merely as an exception to the money and get it without delay. In the same way cattle and pigs are bred to put on flesh while young, and yet in the face of this there are people who wonder why we race two-year-Kingdom altogether, it may be fairly said that olds, and why we do not breed hunters and nearly all such improvement has been effected carriage horses and wait five years to turn our alone, or mainly, is not to be reliby the liberality of persons not actuated by money over. There is no possible reason why ing best growth in young pigs. cept under very favorable conditions. to breed ber, they are perhaps 16 to 18 months old, they to inflammation of the bowels. The best a charger, as nearly as may be, to take the risk are taken up, put into breaking, and used very bunch of six months pigs the writer saw last of what kind of beast he will turn out, keep tenderly and gently till they get used to the bit year was fed on wheat middlings, without

who has commonly 600 horses in his yard. Not him four years, and then take £40 for him. and go with a boy. Then they are sent short canters, gradually increasing in speed and disestablishments for breeding purposes, but in agement is given by the nation to breeders of tance until they are handy, and learn the use

RULES FOR PIG FEEDING.

In considering the values of foods for making growth we cannot do better than to keep in mind that the food for growth and health should contain all the elements demanded in the growth of frame and muscle. The mill feeds contain enough of the heat formers. Nature each of the countries I have mentioned. The furnishes in the food for young the very best conditions are various. In France I think the combination of elements, and if we imitate that Government has a claim on the produce of we shall make no mistake. Maize alone is a "They are the most valuable in actual Government has a claim on the produce of money and turn it over more quickly than butters and carriage horses. There has been a great improvement in cart-horses. The heavy All these sires have certificates of soundness, mineral elements needed to make bone and mineral elements needed t Lincolnshire blacks seem to be disappearing and cost little to the country and less to the before the Clydesdales and the variety now horse-breeders. And the Minister of War has maize, both of which, as a first claim. This may appear a lop-sided artemporary, they make fat rather than bone and muscle, and lack size and vigor. Clover and grass are such grand correctives that when the pigs run on grass they can make fair growth on maize as the grain ration. Maize is the best feed we know of for fattening a hog, but our aim now is to grow a hog-to build up the largest frame, heaviest muscles, and strongest constitution at least cost. When we get the frame and constitution we can readily clothe it and stuff it with fat by means of maize, which gives a feed that is about two thirds starch, or, to express it in terms of fat, contains about twenty-six pounds of fat in every hundred pounds of maize.

Maize is not a substitute for milk. It is rather the complement-of-skim milk. It is rich in heat-forming elements, while skim milk is poor therein. They stand as about 8 to 3 in stance, wait even a year and a half or threequarters to sell your sheep. You would rather
sell them as lambs. You get nearly as much too heating and fattening, and too poor in muscle-forming and bone-building food, to he given alone to young animals—in fact, it is much hetter to discard it altogether in feeding animals under six months old." From this and what we have said, it will be seen that maize alone, or mainly, is not to be relied on for mak-In fact, until immediate commercial considerations. There have been herds and strains of blood, of course, but the benefit of these has been distributed over the country by people who kept sires, but some judgment and discretion milk or oats. The hat-forming elements in bulls, and boars for the benefit of their neigh-borhood, and not with the hope of instant are required in applying them. Horses vary maize, compared with the same in oats, are as profit. The 'fancy' home farms and breeding in their constitutions like men, and large ani- 60 to 40. The nutritive ratio of oats is nearly establishments kept in various parts of the maize is only 6. For pigs country by public spirited residents have vastly light-fleshed ones. They are very well fed on under six months oats makes a better grain improved our domestic animals, but they have the best oats that can be got, beans, hay care-tration than maize. Professor Sandhorn has hardly increased the store of their proprietors. In the proprietors of their proprietors, fully selected and of prime quality, occasional made several valuable experiments in giving I should like to know how much money Mr. Crosbie, of Artifert, has made by taking prime they seem a little used-up, stale, or weary, we every case the pigs fed on middlings alone Shorthorn blood into the wild west of Kerry, where it was wanted badly enough "

Within the last few years we have taken to better form. Wheat bran is richer in bone "What remedy, if any, do you propose for giving them the artificial grass called sainfoin, material than middlings, and not so rich in this state of things?"

cut up and mixed with oats. It is too strong heat formers, but it has so large a per cent. of "Do you recollect Lord Rosebery's courage to be given alone. Weaning him from his crude fibre that it is not so easily digested, and out attempt to get the whole subject gone into mother is a very critical business, seriously is likely to scour young pigs if given alone. In and taken up by Parliament? It had occurred affecting his growth, and often making all the cases of constipation on long feeding of maize, to Lord Rosebery that it was absurd that in a difference between a good and a bad animal, or too rich feed and too little coarse feed, there horse-loving country like this it should be found that in a paddock with a paddoc some young companions, for a colt is a social on skim milk alone, its digestibility and nutribeing that it is absurd to expect a person, ex separated, and when, about the first of Septem- rective, nutritious, and a specific for tendency

It was given dry, morning and evening, and the pigs had the run of a clover field all day, with pure running water. weaned, they and the sows had slop made of middlings. The sows were fed on corn in the If middlings be white and show a large per cent. of starch, they will be improved for making growth of bone and muscle by adding one part of bran to two of middlings.

There can be no hard and fast rules about the quantity of food. That must vary to suit the weather, quality of the feed, and condition of the stock, along with the end aimed at. Never feed to repletion. Stock will keep in better condition, have more uniform appetite, and more completely digest the feed, if the amount be about what will be eaten up clean. There is no reason why a pig at eight months should have different feed from one at four or five months. They will need more feed, and will have stronger digestive powers, and can do well on coarser feed. Yet they will pay for the same care given the younger stock. Pigs will need all the grass and clover they will eat. The grasses help to make bone and fibre, and distend the stomach, which is of great benefit, since it enables the animal to digest more food. The value of the pork-making machine depends on its capacity to convert grain, grass, and milk into pork. In winter care should be taken that the slop be of such a temperature that the pig will be induced to drink freely of It must not be ice cold, since it takes too much heat to warm it up to blood heat, and that heat will cost you food. Hence, tepid drink in winter is a saving of grain food. man can feed even hogs successfully who is not regular in his times of feeding, watchful of the comfort of his stock, ready to anticipate their wants, and quick to see their needs. If he like his stock, and use good judgment, he may suc-

FOOD AND FECUNDITY IN STOCK.

Chicago National Live Stock Journal.

The precise effect of food upon fecundity has not been determined as carefully as it should have been, by any series of experiments. This omission will probably be supplied at the experimental farms of our agricultural colleges, when the time comes that the directors understand their mission. By a series of experiments with heifers of the same strain of blood, By a series of experithat should be allowed to breed at different periods—say at twelve, sixteen, twenty-four, and thirty months, and all the facts noted for some four generations—the precise effect would be established. It is likely that precocious breeding, when the heifer is most rapidly grow-breeding animals, thus rendering them tempoing, would prove injudicious. She would not rarily barren. Too much heat-forming food will ment to keep up her own growth and produce the female, or render the male animal impotent. the full development of the fœtus. But that It is related of the negroes in the West Indies, good feeding hastens fecundity there can be no that they did not breed during the sugar hardoubt. Darwin says: " We can see in a vague vest, because they are too much sugar. fluids of the body are not used during growth, drinking the sweet skimmings of sorghum in or by the wear and tear of the tissues, they will boiling down molasses. It will be seen that or by the wear and tear of the tissues, they will boiling down molasses. It will be seen that be in excess; and as growth, nutrition, and re food has a direct effect upon fecundity, and production are intimately allied processes, this that it is important that breeders should undersuperfluity might disturb the due and proper stand this effect of food, and learn to feed proaction of the reproductive organs, and con-perly for the best development of breeding anisequently affect the future offspring." And in this way he argues that variation in animals is produced. Professor Tanner, in And mals. his essay on the reproductive powers of animals, says: "The general system of diet must be looked upon as taking its share in influencing the reproductive functions." He mentions A man need not necessarily be a farmer to instances where even the condition in which read agricultural papers. Indeed, we some-

Herbert Spencer, in discussing the effects of food upon the fertility of animals, says:
"Among the barren hills of the west of Scotland two lambs will be borne by about one ewe in twenty, whereas in England something like one ewe in three will bear two lambs.' know that domesticated swine are much more prolific than those in the wild state. Spencer says: "The wild rabbit is said generally to breed four times yearly, and to produce from four to eight young; the tame rabbit breeds six or seven times yearly, and produces from four to eleven young." We may say that this is true of all wild birds after domestication; a generous supply of food increases fecundity. And we must conclude that the reproductive organs are dependent upon the nutritive function for the stimulus to activity.

The time of first coming in heat in the heifer is quite dependent upon how generously she is fed; but it also seems to become fixed in the character of a breed, as appears in the Jersey. On the island this fine butter breed almost universally come into milk at two years old; and to do this they must come into the "first heat" at or before sixteen months. They are not fed high, in the sense of that term as applied to Shorthorns, but yet are uniformly fed well, and have established this early breeding as a characteristic. The feeding that produces early maturity also produces early maternnity, yet insufficient nutrition will soon change this characteristic of early breeding, so that it must still be considered dependent upon the nutritive function. The writer had a heifer calf dropped on the last of January, 1879, that came very strongly in heat on the 15th of the following October, at eight and a half months old. She weighed five hundred pounds, but was only in good growing condition-not fat. She would evidently have bred had she been served, but this was not permitted, as she was growing too fast to render breeding proper. It must also be remembered that the food which tends to early breeding is such as strengthens the vital functions, not laying on fat. Too much fat tends to sterility. The reproductive organs are stimulated by food rich in nitrogen; and it is this kind of food that develops the muscles and bones—as nearly all foods rich in albuminoids are also rich in phosphate of lime, to grow the bones.

If heifers be fed too largely with fattening food, or food containing an excess of heat formers, such as starch, sugar, and fat, the breeding function is weakened. Maize meal in excess is not good food for developing early maternity, as it contains too much starch. Tests have been made by feeding sugar to be able to digest and assimilate sufficient nutri- produce a fatty degeneration of the ovaries in one of his articles in the Review, last winter, manner that, when the organised and nutrient have known cows to go barren for a year from

NOT CANADIAN FARMERS.

the food is given influences the breeding powers. times think farmers least of all men, appreci-Another writer of very careful observation, ate the papers devoted to their interests.

ORCHARD SITES AND SOILS.

Some years ago Mr. B. F. Johnson of Champagn, Ill., a well-known agricultural writer, somewhat startled the horticulturists of the country by stating as facts that the thrifty, healthy, productive apple orchards of central Illinois were, as a rule, if not invariably, found growing on the low flat moist, if not wet lands, while those on the high dry land and slopes had either died out or were in process of dissolution. From these facts, which observation over a wide extent of country confirmed, he advanced the theory that abundant moisture in the soil is essential to orchard growth, and that while in an early day orchards succeeded well on the high ground (which was then regarded as the only suitable location for orchards), it was because such grounds then furnished abundant moisture. But under the effects of cultivation, of drainage, and perhaps change of climate, these have now become too dry, and the low flat lands, formerly too wet, are now just dry enough. In a call at the office of the Farmers' Review recently Mr. Johnson stated that further observation continued to the present time fully confirms him in the correctness of his theories. In planting an orchard now he would plant it in the While it is probable that he takes rather an extreme view of the matter, it is yet probable that his theory is the correct one as applied to the prairie region of Illinois and other localities where similar conditions exist, elsewhere under other conditions his theories might not be applicable. While with the present light on the subject advice to those planting out new orchards would be to plant on the moist land with deep soil, a very practical question arises as to the application of this theory to orchards already out on high land or slopes. Accepting the theory of abundant moisture as a necessity, the treatment evidently should be such as to conserve for the use of the tree, to as great an extent as possible, the moisture existing in the soil and that furnished by rainfall and melting snows. To this end no water courses should be formed by ditches or dead furrows to carry off the water in a wet time. If on a slope, slight ditches, like dead furrows, across, instead of down, the slope, will help to retain the water and also to prevent the washing away of the soil. Heavy mulching is one of the best methods of preserving moisture in the soil. Where there is an abundance of straw or slough grass, it can be profitably utilized for this purpose, covering the entire surface instead of a small circle simply about the trunk of the tree, which would be of little use.

Or the plan suggested by D. B. Wier, in of seeding the entire orchard to clover, and instead of cutting it for hay, letting it die and rot on the surface, forming a heavy mulch to retain moisture and at the same time enriching the soil. The only objection we can see to such method is that it looks slovenly. But this shouldn't weigh against really beneficial results. Any orchardist can easily test this plan on a small part of his orchard if doubtful of its utility, and if results prove favorable accept it as a whole. Mr. Johnson is not the only person who attributes the disasters which have overtaken our orchards to the deficiency of moisture in the soil. Last summer the writer visited A. R. Whitney, of Franklin Grove, Ill., one of the largest orchardists in the west. In looking over his extensive orchards, in which he had suffered heavy losses of bearing trees, in answer to an inquiry as to the cause of their dying, he attributed it to excessive drouth in summer followed by a dry fall

and cold winter. drouth and not able to withstand the strain of the severe cold. His orchard soil when winter set in had not sufficient moisture in it to freeze solid, but remained loose like dry sand. The theories of Mr. Johnson before alluded to, with the facts he has presented to substantiate them, have had an effect to stir up our horticulturists and set them to thinking and discussing, and in this sense he has been a public benefactor. The whole subject shows the importance of an intelligent observation of facts and a change of

CANADA SHORTHORN, HERD BOOK.

Transfers from May 20 to June 20.

- b. Orpheus 16th [12939], by 4th Duke of Clarence [4988] (33597), Canada West Farm Stock Association; Ewen Camero, and others, Port.
- b. Rob Roy [12940], by Lord Beaconsfield [10142], A. G. Pettit, Grimsby; Beverly Book, Grimsby.
- b. Duke of Normanby [12941], by Prince of Wales [9168], Henry Menser, Elmwood; Henry Lippert, Neustadt.
- b. Sir John A. [12943], by Garfield [10964], Geo. Stewart, Valentia; R. Suggitt, Caesarea.
- b. Bingo Boy [12942], by Garfield [10964], Geo. Stewart, Valentia; Wm. Stewart, Little Britain.
- Pride of Scugog [14723], by Garfield [10964], Geo. Stewart, Valentia; Alex. Earle, Scu-
- b. Halton Hero [12946], by Hanlan [8679], Robert Aikens, Knatchbull; H. W. Henders,
- b. Lord Haddo [12947], by Rose Duke [9276], Wm. Watson, Nassagaweya; Robt. Aikens, Knatchbull.
- b. Darby [12948], by Lord Beaconsfield [10-142], J. A. Pettit, Grimsby; J. B. Carpenter,
- b. Champion of Louth [12949], by Baron Cambria [0002], Jas. R. R. Secord, Homer; Samuel Gladwell, St. Catharines.
- c. Duchess of Berlin [11802], by Elderridge Duke [7049], Rev. Alex. Campbell, Stonewall, Man.; Alex. Matheson, Stonewall.
- b. King John [12951], by The Grange Duke [10779], Mark Ashman, London; John b. Barmpton Champion 2nd Webb, Masonville.
- b. Blake [12952], by Earl of Lobo [11054], James Healey, Strathroy, Joseph Burns,
- b. Sir John [12953], by Royal John [10443], Jas. Healey, Strathroy; S. D. Barns, Warwick.
- b. Duke of Venice [12954], by General Grant
- [12453], E. H. Morgan, Stanbridge Station, Que.; Thos. Hunter, Venice, Que. b. Earl Grey [12933], by Roya! Duke [10438], John Histop, Brussels; John Johnston, Brussels.
- h. Lily 3rd [14729], by Erin Chief [12102] Robert Henderson, Orangeville; Wm. Ha kins, Alton.
- b. Earl of Lambton [12959], by Victor Emanuel, [11866], Noah Bricker, Roseville; Albert Duncan, Osborne.

 b. Duke of Chicopee [12995], by Manitoba [11661], Joseph Sanders, Jr., Preston; J. S. Frain, Walker.
- b. Oxford Duke 8th [12961], by Earl of Airdie [5158], Alex. Robertson, Alton; James Hills, Hanover.

 b. Oxford Duke 8th [12961], by Earl of Airdie [5158], Alex. Robertson, Alton; John Bell, Crumlin.

 b. Duke of Fairmount [12996], by 2nd Duke of him to disclose hidden defects which made the animal unsuitable to your express purposes.

 John Bell, Crumlin.
- b. Prince Royal [12962], by Lieutenant b. Village Major [12996], by Butterfly's Athel-[7286], John B. Berg, Arculra; Henry Berg, Philipsburg.

- b. Royal Butterfly [12963], by Nonsuch [7-b. McNab [13002], by Statesman 1st [9420] 522], John Routledge, Hyde Park; John Burns, Westminster.

 f. Maud Languish [14735], by Harwich Duke [10059], B. S. Seaman, Blenheim; W. J. Devereux, Ridgetown.

 f. Applied anguish [12063], by Nonsuch [7-b. McNab [13002], A. H. Rosevear, Cold Springs; James II. Rosevear, Cobourg.
- f. Annie Languish [14736], by Joe Languish b. Pride of Peel [13003], by Young Canada [10103], B. S. Seaman, Blenheim; W. J. [12221], Robert Fasken, Elora; Rhodes Devereux, Ridgetown.
- methods to meet changed or changing conditions.

 b. Lord Ashley [12967], by Commodore [9773], B. S. Seaman, Blenheim; Wm. Nichols,
 - b. S. Schman,
 Blenheim.
 b. Halton Pride [12969], by Prairie King
 [10293], Henry Robinson, Omagh; Amos
 Kinder, Omagh.
 b. Sir Rodger [12968], by Prairie King [10-
 - 293], Henry Robinson, Omagh; Joseph Watson, Boyne.
 - b. Dollar King [1297], by Prince of Goodness [10342], W. F. Nichols, Buttonville; Peter Boynton, Dollar.
 - b. Delta Chief [12973], by Guelph Baron [7-158], Alex. Acheson, Philipsville; J. E. Brown, Delta.
 - b. General Garfield [12974], by High Sheriff 3rd [7189], Rowland B. Orr, Milton; J. S. Williams, Knowlton, Que. b. Prince of Bolton [12975], by Earl of Stafford [11432], C. W. Bancroft, Knowlton, Que.; J. F. Bryant, Millington, Que.

 - Beauty [14751], by Lord Dufferin 3rd [5579], Henry Robinson, Omagh; John Wales, Omagh.
 - b. Premature [12978], by Prairie King [10293], Henry Robinson, Omagh; John Miller, Hornby.
 - Lady Huron [14755], by Crusade and [8291], Wm. Barbour, Crosshill; Samuel Rannie, Zurich.
 - b. General Gordon [12982], by Beaconsield 4th [12832], James Carnochan, jr., Seaforth; John McKinley, Blake.
 - John Collins [12981], by Beaconsfield 4th [12832], James Carnochan, jr., Seaforth; W.
 - N. Johnston, Belgrave. b. Kenmore [12984], by Marquis of Lorne [8965], J. Hawkens, V.S., Detroit, Mich.; H. G. Arnold, Maidstone Cross.
 - b. Harlequin [12983], by. Marquis of Lorne [8965], J. Hawkens, V.S., Detroit, Mich.; H. G. Arnold, Maidstone Cross.
 - Young Ned of Rosedale [10657], J. S. Robson, Archibald, Man., W. Bedford, Calf Mountain, Man.
 - 5th Duke of Huntley [12986], by Lorne [7392], Hugh Gourlay, Huntly; Hiram Blackman, Huntly.
 - b. British Crown [12991], by Sir Leonard [10500] (45613), Thos. McCullough, Eramosa; John Colo, Mitchell.
 - b. Duke of Cumberland 2nd [12992], by Duke of Cumberland [9852], James McCutcheon, Seeley's Bay; J. C. Stafford, Lyndhurst.
 - c. Daisy Duchess 3rd [14767], by Franklin Duke [9977], James McCutcheon, Seeley's Bay; J. C. Stafford, Lyndhurst.
- c. Lily 2nd [11567], by Prince Bloom [9129], c. Lady Kate [14766], by Duke of Cumber-Robt. Henderson, Orangeville; Wm. Hawland [9852], James McCutcheon, Seeley's kins, Alton.

 Bay; J. C. Stafford, Lyndhurst.

- The trees were enfeebled by b. Duke of Marigold [12955], by Christo-ble to withstand the strain of her, [12534], Geo. Keith, Toronto; Joseph [11358], G. B. Bristow, Rob Roy; Robert Hamill, Chatsworth. [11358], G. B. Bristow, Rob Roy; Robert

 - Letson, Alma.
 - b. Grey Duke [12193], by Torrington [10560], Andrew Gilmore, Huntingdon, Que.; S. McGerrigle & Bros., Ormstown, Que.

TRANSFERS OF THOROUGHBRED STOCK.

American Berkshire Record.

- Prospect IX., 13575, Springer Bros., Springfield, Ill., to Isaac Haines, Sergeanstville, N. Y.
- Royal Britton, 10487, John Snell's Sons, Edmonton, Ont., Can., to W. W. Tiffin, Hibbard, Mo.
- Cardiff Sunbeam, 11299, A. H. Davinport, Lexington, Ky., to James White, Cerulean Springs, Ky.
- osette, 12193, and Admiration II., 12195, A. H. Lackey, Peabody, Kan., to J. B. Avery, Clifton, Kan.
- Louisville Prince, 13595, C. C. Cline, Louisville, Ky., to J. Sutzer, Crescent Hill, Ky. Louisville Belle, 13596, C. C. Cline, to G. W.
- Yancey, Louisville, Ky. Berkshire Boy, 10179, W. Warren Morton, Russellville, Ky., to Edward Drane, Clarksville. Tenn.
- May, 8906, Whiteface Rose, 9420, Duchess of Liverpool IV., 9604, and Princess of Minglewood, 10395, Edward Drane, to R. M. Hall, Clarksville, Tenn.
- Minton, 13604, and Christie Gem, 13605, Wib. F. Clements, Agency, Iowa, to John A. Elliott, Des Moines, Iowa.
- Laco, 13661, G. W. Clarke, Woodstock, Ohio, to John A. Diltz, Cable, Ohio.
- Stumpy Chief, 13625, N. H. Gentry, Sedalia, Mo., to Wm. Arbuckle, Boston, Tex. Duchess XXVII., 12931, N. H. Gentry, to
- Harry McCullough, Fayette, Mo.

LAW ON SELLING LIVE STOCK.

The National Live Stock Journal has some observations on the subject of the liability of the seller in the purchase of horses, cattle, etc. Among them are the following -

If one says his animal is sound, when it is not, and knowing that it is subject to any of those diseases that are not at all times, and, to a careful observer, fully apparent, and that it is balky, or breachy, or vicious, the purchaser may likewise avoid the contract on the ground of fraud. Further than this, if the animal possesses any defects that would be matters material to the purchaser, which he, with ordinary care and judgment, cannot perceive, these too must be disclosed, or the contract is null and void.

If one is selling you an animal which he knows to be unfit for the use intended, according to your avowed purposes, he cannot enforce the contract unless the defects were open to your observation, for the law binds

Every farmer should have sweet corn on his stane [4719], G. B. Bristow, Rob Roy; David table until fall frosts. Plant a small plot every Reid, Bognor.

FLOWER FARMING.

Farm and Fireside.

All the natural scents now used in this country are imported at high prices, but within a year the cultivation of flowers for perfumery has been started in Santa Barbara and Alameda counties, California, and as the climate of that state is well adapted to the raising of that state is well adapted to the raising of able for any fine points. Its cows, though, are flowers, there is a good prospect that a large thought to the world for milling and the climate of the beauty is nasty and unhealthy; now tell me how to able for any fine points. Its cows, though, are large thought to the material upon a knoll or rise flowers, there is a good prospect that a large try are imported at high prices, but within a year the cultivation of flowers for perfumery flowers, there is a good prospect that a large share of the scents consumed in this country will soon be produced at home. In Europe 150,000 gallons of handkerchief perfume are annually distilled. The profits of flower farming in some portions of the Old World are shown in the following figures:—An acre of jessamine plants, 80,000 in number, will produce 5,000 pounds of flowers, valued at \$1,250; an acre of rose trees, 10,000 in number,
will yield 2,000 pounds, worth \$375; 300 orange
trees, growing on one acre, will yield at ten years of age 2,000 pounds of flowers, valued a. \$220; an acre of violets, producing 1,600 pounds of flowers, is worth \$800; an acre of acacia trees of 360 will, at three years of age, yield 800 pounds of flowers, worth \$450; an acre of geranium plants will yield something over 2,000 ounces of distilled attar, worth \$4,000; an acre of lavender, giving over 3,500 pounds of flowers for distillation, will yield a value of \$1,500.

Fargo North-Western Farmer.

The problem of fences on the north-western prairie may eventually be solved by the use of clay as the cheapest and most durable substitute for regulation timber posts.

Galvanized wire on glazed tile fence posts would last for generations if clay can be burned so that fence posts made of it will not be easily broken by shocks.

There are now three forms of invention being

tried, which are found described thus:—
"Sheldon's post" is merely a common tile
4-inch moulded six feet long, small slots punched for staple keys, and burned hard. "Hedges' post" is made of six one-foot tiles, fastened together by means of plates between the tiles, which have a hole in the centre for the passage of a small iron rod with a head on lower end and a bur on upper end. "Schwart's post" is a bar iron post set into a two foot tile which goes in the ground. The first post is open to no very serious objection as a post for barb wire, except that sudden shocks will break it. As it can be replaced very easily, and can be made for a few cents, experience may prove that it is the post. The second can be mended easily by putting a new tile in the broken place, unless the bolt break—but it costs too farmer for line fences.

WOMEN AND HORSES.

able that handsome women and handsome horses so generally go together? But it is a fact. Take the blue grass region of Kentucky, There you will find the women for instance. remarkable for their beauty and fine physical points. The same is the case with their horses, which are widely celebrated. Take also Balti-Take, also, Arabia.

Arab woman. And so you can go on indefi-nitely, finding beautiful women the rule where the mud. run more after the cow than the horse.

"It seems to be well established, then, that if a community would improve the beauty of its women it must begin the good work with its horses, and in some localities with its cows. It would be easy to explain this, but I am only and pure feed in summer, and let him have a calling attention to fact, and not explaining

WARBLES ON CATTLE.

A correspondent writing to Bell's Messenger relates the following experience of warbles:

" I had each cow dusted along the back with sulphur. The result is that only two cows had one solitary deposit each, the others are perfectly free, whilst there are several in the backs of their calves. To those deposits I have used carbolic acid mixed with hog's lard, in the pro-TILE FENCES FOR PRAIRIE FARMS portion of 1 to 20, with excellent effect. I may add that that mixture is also a safe and effectual cure for ringworm, which is often so troubiesome with young cattle. The use of mercurial ointment as recommended in Miss Ormerod's remedy for the warble is one that requires great caution in using, or the remedy will be worse than the disease. A few years ago a neighbor of mine dressed his young cattle for lice with a mercurial preparation; they licked it off and were poisoned. Such a result cannot follow my remedy, and I have proved its efficacy.'

HOW TO PREVENT DISEASE IN SWINE.

Abram Brown, in Chicago Tribune.

disease in swine. mal becomes thoroughly impregnated with the germs of disease a cure is usually difficult. The spores of disease may be taken in and lie in the system for a long time, awaiting favorable conditions before germinating and manifesting themselves. Farmers may raise large herds of hogs, which may fatten, prosper, and yield a large profit to the feeder. Then the seasons Then the seasons change, water becomes scarce; only polluted pools or sloughs are accessible where the hog may drink or wallow. All at once the hogs bemuch. The third, no doubt, will be popular come sick, refuse to eat, tremble, have the for lawn fences, but looks expensive to the "thumps," swell up under the neck, or have the so-called hog cholera and die. The farmer cannot see any apparent cause. He calls the veterinarian, who, after viewing the premises. says that it is only a matter of surprise to him that the people living in close proximity to A Texas paper says: -"Isit not a little remarkble that handsome women and handsome
write so generally go together? But it is a

that filthy, polluted cesspool in the hog-yard,
which has become the receptacle of all the
wash from the animal offal, and those feeding and taking care of the hogs, are not sick with typhus-fever. Yet these cesspools are, in many cases, all the hogs have to drink from and wallow in. Looking over the pool yonder one every now and again caught her and got her will see a countless swarm of insects; they are down by rubbing her udders; then I let out more. That city is said to be one of the most remarkable in the world for the beauty of its women. It is equally noticeable for its splendid horses. Take, also, Arabia. The Arab testines, and are distributed all through the during the day mother and young were left toman is not a 'beauty spot,' but many of the animal's system, causing great irritation, pain, gether alone; and from then till the little ones

live on earth. The Arab horse is as disclowing in such pools is no more fit to eat tinguished for beauty and fine points as the than the mud they wallow in the meat will

thought to top the world for milking and also of ground, excavate a shallow cellar, build pens for a certain exquisite sort of beauty in the eyes over it; use this in summer only for shade and of cow fanciers. Its ladies, therefore, seem to sleeping place. Do not put any straw or other nesting in it; build the pens opening to the south to let in the winter sunshine. A hog wants sunshine in winter and spring; in hot summer he wants shade, not a wallowing place of filthy mud. Give him pure air, pure water, nice pasture range with but little strong feed. When you shut him up to fatten, put him on a good board or plank floor, with clean bedding. Change often; keep his pen cleaned every day; feed him sound, clean corn or chop of corn and oats, with lime and salt, in a trough, and grass during summer and fall. In winter put secondgrowth clover hay where he can always have free access to it. Never butcher him except while growing, and I will guarantee you the tenderest, sweetest, and healthiest meat in the

> I have been a close observer of the habits and wants of swine for the last thirty years. I never have had a sick hog, nor lost one, within that time. It is a grand mistake to suppose that it is a necessity for swine to have a wallow. Let them range in the pasture during a warm rain, to wash them, but during cold storms keep them housed. Do not allow too many to nest together-not over six or eight in each bunch. While my neighbors have lost heavily, some all of their hogs, mine have been healthy.

A "REFORMED" SOW.

A correspondent of an English contemporary furnishes the following :—"A few years since I had a sow which would have worried all her It is much easier to prevent than to cure young had I not been with her. She did worry sease in swine. After the system of the anicome, and she became composed, that she would begin to take kindly to the little ones. But no. She had plenty of milk, and would allow them to suckle; but immediately on one coming in her sight, or touching her about the head, she would rush up, bounce upon, and mouth them like a dog. When she was not giving them suck she would not have them with her at all. I had never had, or heard of, a case of this kind before, and did not know how to proceed, but concluded that it was necessary, in order to win the affections of the sow for the young, that they be always kept with her. How to do this safely I did not know, but hit upon the plan of having a little space across one end of the cote boarded off, and here I put the little ones. I arranged it so that the sow and little ones could see and smell each other. It was painful to watch the sow's actions towards the young. She would set on them like a dog, and when one came near her would spring at it with awful fury. I never expected her to take to them. However, I persevered. I continually let her wear a short cord in her mouth; and the little ones, being always careful to keep them from near her face. About the third or fourth day I noticed quite a change in her, and women are of such wondrous beauty that they and fever. The animal is sick, has the cholera, were ready for market they lived happily to-are called 'houris,' that is to say, angels that and dies. The pork of swine drinking or wal-

MILK PRODUCTION.

The following law has been passed by the New York Legislature and signed by the Governor: - Whoever shall with intent to de fraud, sell supply, or bring to be manufactured to any butter or cheese manufactory in this State, any milk diluted with water, or in any way adulterated, uncleanly, or impure, or milk from which any cream has been taken, or milk commonly known as skim milk, or whoever shall keep back any part of the milk as strippings. or whoever shall knowingly bring or supply milk to any butter or cheese manufactory that is tainted or sour, or whoever shall knowingly bring or supply to any butter or cheese manufactory milk drawn from cows within 15 days before parturition, or within three days after parturition, or any butter or cheese manufacturers who shall knowingly use or allow any of his or her employees or any other person to use for his or her benefit, or for their own individual benefit, any milk or cream from the milk brought to said butter or cheese manufacturer without the consent of all the owners thereof, or any butter or cheese manufacturer who shall refuse or neglect to keep or cause to be kept a correct account open to the inspection of any one furnishing milk to such manufacturer, of the amount of milk daily received, or of the number of pounds of butter and the number of cheese made each day, or of the number cut or otherwise disposed of, and the weight of each, shall for each and every offence forfeit and pay a sum not less than twenty-five dollars nor more than one hundred dollars, with costs of suit, to be sued for in any court of competent jurisdiction for the benefit of the person or persons, firm or association, or corporation or their assigns upon whom such fraud or neglect shall be committed. This act shall take effect immediately.

NEW BREED OF FOWLS.

A novelty has been introduced from Germany by Mr. John Cundale, of Market Rasen, called the Thuringian Beard Fowl. It is of German origin, but confined principally to the small district of Thuringia, where it is bred very carefully. In size it resembles the black Hamburgh—short and compact in body, good in carriage, and lively in movements. The principal characteristic is the strong beard on cheeks and throat, by which the small, round head is almost covered, as well as the pinkishwhite ear-lobes. The comb is small, single, evenly serrated, and upright. Wattles are dislodged by beard. Beak ordinary size and black; neck short and stout; breast well rounded and full; shoulders broad; back short, growing wider on saddle; out of the light cushion rises the abundantly-furnished tail, which is adorned (cock's) with immense sickles, and carried well over the back. Legs short, strong, clean, and of dark slate color. Plumage is of a brilliant black, with an extraordinary lustre, not seen so bright on any other fowl. It is very hardy; a good table fowl, having very full breast; ar extra good layer of beautiful white eggs, and larely wants to sit.

CHICK REARING.

Mr. Tegetmeier, writing to the Field upon the losses in chick rearing, says:—"Coarse, dry, whole corn, like barley, is not adapted for young chicks; they require the worms, grubs, grass seeds, green vegetables, that would natur-

it artificially. This may be done by using egg and milk with canary seed for a few days, then sweet fresh meal and milk, small tail wheat, or become warm, maggots are plentiful, but their production is not pleasant. The least object acid is one of the chief agents that give acidity tionable plan that I know is to hang up some to the gastric juice of the stomach in health. This is the acid of sour milk, and therefore one blown, and then to bury it about ten or twelve inches deep in the ground. This absorbs all the disagreeable odor, which is at once oxydised and destroyed. The maggots grow, and at the same time furnishing in its cheesy matter they are of full strongers that give acidity to the gastric juice of the stomach in health. This is the acid of sour milk, and therefore one in the disagreeable odor, which is at once oxydised and destroyed. The maggots grow, and at the same time furnishing in its cheesy matter. when they are of full size work their way to the a good supply of wholesome nutrition. The hens with chicks soon discover the locality, buttermilk than on any diet drink he can use. and, by scratching, obtain an abundant supply of animal food for their young broods. In France, where so many chicks are reared by the peasants, fifty or sixty will be put under the care of a turkey hen, which will be driven and young chicks being in custody of some old egg (albumen) is without taste or smell, compeasant man past hard work, or some young posed of eight parts of water, 15½ parts of girl whose services cannot be more profitably albumen, and 4½ parts of mucus, besides giving utilised.'

neighbors' rooms are crowded. I often con- in its pure state in fresh, sweet milk, and gratulated myself on my escape, but never wheat, oats, rye, buckwheat, barley, and corn knew the reason of it until a few days ago. I in the order as named. Now, this makes plain then had occasion to remove my goods to what we are to feed. It matters not what we another house, while I remained on a few days have to feed, if our hens lay eggs they must longer. Among other things removed were two have the wherewith to produce the eggs. boxes of geraniums and calceolarias, which stood in my window, being open to its full ex-tent, top and bottom. The boxes were not gone half an hour before my room was as full of flies as those of my neighbors around me. This, to me, was a new discovery, and perhaps it may spiration you let him stand in the stable and serve to encourage others in that which is al-dry with all the dirt on. In England we take ways a source of pleasure, namely, window the horse as he comes in from a drive and gardening. Mignonette, planted in long, shal-|sprinkle blood-warm water all over him, from low boxes, placed on the window sill, will be his head to his feet. Then we scrape him down found excellent for this purpose.'

CANADIAN TRADE.

London Live Stock Journal.

Mr. Dyke's endeavors to extend Canadian trade in this country should be heartily appreciated by producers and exporters in the Dominion. His communications through the Canadian and English press stimulated and encouraged traffic in cattle, sheep, dairy produce, and horses; and competitors in Canada, who shared nothing of the initial expense, took advantage of the enterprise in regard to horses. Mr. Dyke remarks that a few fine animals were sent to England which sold well; and he impresses on Canadian breeders the fact that only the better class of carriage-horses will obtain a market on this side. The traffic in dairy cows was not properly managed, as Canadian cows said to be within one or two days of calving proved in some cases to be months. A valu-

BUTTERMILK AS A DRINK.

In warm summer weather many persons feel millet (uurra), and, if the birds are in a posi- an irresistible craving for something sour, and tion where no animal food can be obtained, often gratify this desire by a free indulgence in some must be supplied, as is done by the pickles, or vegetables made acid with vinegar, rearers of young pheasants, who give a small! This demand for acids indicates a deficiency in amount of boiled rabbit or some well-scoured the acid secretions of the stomach, and the deflesh maggots, &c. Now that the weather has mand for an artificial supply is a natural one; surface preparatory to changing into chrysalids, will endure fatigue in hot weather better on

GROUND OYSTER SHELLS FOR LAYING FOWLS.

Chemically speaking, the shell of an egg conwith her charges to some coppice or road side, sists chiefly of carbonate of lime, similar to where the young can obtain the food that is es- chalk, with a very small quantity of phosphate sential to their well-doing, both turkey mother of lime and animal mucus. The white of an traces of soda, benzoine acid, and sulphurated hydrogen gas. The yolk has an insipid, bland, hydrogen gas. The yolk has an insipid, bland, only taste. It consists, chemically, of water, only albumen, and gelatine. Now, there must be something to form the shell. Oyster shells have lived in town, and during that time my successfully the requisite material for egg shells sitting room has been free from flies, three only as these natural productions of the sea. walking about my breakfast table, while all my Albumen, the white of the egg, is found almost paighbors' rooms are crowded. I often continuits pure state in fresh, sweet milk, and

WHAT AN ENGLISH GROOM SAID TO A YANKEE HOSTLER.

When a horse comes in all wet with perand blanket him, rubbing his legs and face dry. Thus, in an hour he is clean and dry and ready to take a good feed, while with your way he will stand and swelter for hours, and finally dry sticky and dirty. Our horses never founder and never take cold. We never use a currycomb. You scratch your horses too hard. The only care necessary is to have the water not very cold, then bathe them instantly, while you are rubbing their legs.

THINGS TO DO AND TO KNOW.

No potato can take the place of the Early Rose.

The Wealthy apple is one of the best for

Now scatter a lot of sifted coal ashes over the roots of currants and gooseberries.

SALE OF THE EARL OF DURHAM'S FAT STOCK. The annual sale of fat cattle and sheep on the young chicks; they require the worms, grubs. able trade in dairy cows could be carried on, grass seeds, green vegetables, that would naturally be obtained for them by the hen, and if exporters that confidence can only be restored we place them in situations where she cannot by the removal of the suspicion at present at obtain such food we must do our best to supply tached to so-called in-calf dairy cows.

Earl of Durham's Bowes-House farm took place on Monday. Ninety-one fat cattle, re-exporters that confidence can only be restored head; while fat sheep ranged from 48s. to 64s. Obtain such food we must do our best to supply tached to so-called in-calf dairy cows.

Libe Stock Aotes.

The Canadian cow Mary Anne of St. Lamberts made thirty-six pounds in a week. The American cow Princess made forty six pounds twelve and a half ounces in a week. Both were Jerseys. Great milk and butter records are hard on the digestion and unprofitable to the owner's pocket.—Colorado Live Stock

The other day a farmer in the vicinity of Grantown-on-Spey, while going amongst his sheep, observed a golden eagle dart down among the sheep and carry off in its talons a ewe lamb, which it managed to carry to a height of some 60 feet, when it lost its hold. The lamb was none the worse of its aerial descent, and the eagle, after hovering about for some time, soared away, not venturing another descent.—Bell's Weekly Messenger.

BARB FENCES .-- We have received a marked copy of an Ashtabula paper containing the following notice: - "Farmers will do well to make a note of the fact that the courts have decided that boundary fences cannot be made of barbed wire without the consent of the parties owning the adjacent land, and any man who puts a barbed wire fence along the highway renders hunself liable for injuries resulting to stock passing along saud highway." We suppose this refers to a decision in some special case that has been tried, and is based upon the common law for damages, as there is no special law covering the case. - Ohio Farmer.

The North British Agriculturist of June 10th has the following:-" A conference was held in Aberdeen on Friday between a sub-committee of the New Works Committee of the Aberdeen Harbor Commissioners and the local importers of Canadian cattle, to ascertain whether, in connection with the cattle trade, there would be any likelihood of a direct import trade in Canadian produce being established with the port of Aberdeen, where it is proposed to erect clanding-stage for foreign cattle. In the course of the conference the opinion was expressed that the support the Harbor Commissioners might expect from the importers of Canadian produce was very trifling, and that the Commissioners would have to decide the matter of the erection of a landing-stage entirely on the basis of the importation of cattle. The exigencies of the trade, it was pointed out, would prevent importers patronizing a direct line, the sailings being on an average of only once in two months.'

Dairy Notes.

Since the introduction of cream testing, we find creamery patrons are not willing to sell cream by measure, with here and there an ex-We do not near much of it since we have been working on the test plan, but while purchasing cream by the inch we used to hear, week after week, of the farmers' tests over-run-ning the inch measure. Those who now complain are those who have a low per cent., and they frequently labor under an error, and are really getting pay for a pound of butter to an inch of cream, although the per cent. is much less than a 100. When the cream is measured for the test it includes all the milk taken off with the cream, and as milk will not make butter, an inch of the mixture will not make a pound of butter, and the more milk the lower will be the

The Rennel.

NOTES.

Mr. Clow, of Colborne street, has one of Jessie's puppies for sale. See advertisement.

FATTENING STEERS.

Hon. Columbus Delano, of Ohio, has a model farm near Mt. Vernon. The Michigan Farmer says: "It is his system to buy steers two years old past, in the summer or fall of the year, and as there is a large amount of straw from the grain grown on the farm, the steers are wintered at the straw stack until about the middle of March, when they are fed cut hay and meal until grass gets a good start. During the summer they get a good growth, are stall-fed until the next mid-winter, and sold, usually weighing 1,600 to 1,700 pounds per head, and bringing from \$50 to \$75 per head nore than first cost. Stall-feeding of cattle is not the business here: this is mentioned to show their method of converting their straw and coarse feed into manure.'

UNSALTED BUTTER.

How many persons are there who would not turn up their noses at mention of unsalted butter? Isn't fit to eat! exclaims the opinionated person who does not know what he is talking Well, it is a matter of taste. about. travellers from Europe have the greatest difficulty in becoming accustomed to our strong, old, briny butter. They cannot eat it at first, any more than the American can endure the pretty, tiny pellets of fresh butter that meet him at every hotel in Europe. But again, so accommodating is human nature, that, once forced to accustom himself to the unsalted article in Europe, he, too, finds American butter briny and flavorless.

The truth is that the most delicious butter is that which is left unsalted. For market, of course, it will not keep many days in the fresh state, but even then twice as much salt as is necessary is often put into it. The salt makes it acrid, and destroys wholly the exquisite cream and grass flavor. For use in æsthetic homes, sets of tiny separate moulds, in the shape of a strawberry or something else pretty, should be had. Take the butter unsalted, work the milk out, mould it in rich-colored little gems in these, and put it upon the table in that shape. It is as attractive to the eye as flower or fruit, and the taste of it upon warm biscuit or snowflake light bread-well, try it, that is

Live Stock & Kindred Markets.

Office of the Canadian Breeder AND AGRICULTURAL REVIEW. Toronro, June 25th, 1885.

There has been a material improvement in the condition of the British live stock trade during the past week and Monday's cables chronicle an advance of about one cent per pound as compared with a week ago. The improvement has been due chiefly to a considerable falling off in the receipts, which has reduced the supply sufficiently to give sellers a decided advantage. Receipts from Canada and the United States have been light, while the supplies from Ireland and the Continent per cent .- The Ohio Dairy and Farm Journal. have continued small. Buyers were more anxious to operate, which strengthened the market. and Monday the tone was firm under a steady demand, which effected a good clearance at the advance. A Liverpool cable reported the market firm and demand satisfactory, the offerings being light. Prices were 15, per lb, higher than a week ago.

Quotations at Liverpool on Monday, being calculated at \$4.80 in the £, were :-

Cattle—	8	c.	\$ c.	
Prime Canadian steers	0	141/2	to o oo	per lb.
Fair to choice	0	14	to 0 00	
Poor to medium	0	13	to o oo	**
Inferior and bulls	0	10	to 0 11%	ź "

TORONTO.

About thirty loads of live stock have been received at the Western Cattle Market here this week so far, against about the same number the same time last week. The offerings show a decrease in the number

against about the same number the same time last week. The offerings show a decrease in the number of shipping cattle for sale, but an increase in butchers' cattle, sheep, and hogs. Prices show but little change since Friday last excepting for butchers' cattle, which are quotably 4c. per lb. lower.

CATTLE—Very few shippers have been offered this week. About 100 head were on the market, but nearly all of these were on through shipment. The demand is good, and choice cattle would have sold readily. A scarcity is expected for a short time hence. Prices are nominally unchanged. There has been a largely increased run of butchers' cattle; of these a good part are of inferior quality, being thin grass-fed animals. They have met with a slow sale, many going as low as 3c. per lb. The market is easier, showing a decline of 1c. per lb. Choice stall-fed are wanted, and will sell readily at 4c to 4c per lb. The general run of grassers have been selling at 3 to 4c. per lb. Among the sales yesterday were 9 cattle, 975 lbs. each, at \$42.70;6 do. 1,050 lbs., at 3½c. per lb.;4 do. grass-fed, 1,000 lbs., \$36 each; 19 do. rough cows, 3¼c. per lb.; 10 stall-fed, 1,200 lbs., \$49 each; 5 do 1,000 lbs., at \$37.50 each. Milk cows are in plentiful supply, but the demand has been light, and generally easier prices have prevailed.

SHEEP.—A pretty fair demand for shippers is springing up and supplies are increasing. About 50 head, averaging 150 lbs. each, of fair good quality, were bought yesterday at 4½c. per lb., with a few at 4½c. The demand for butchers' sheep is getting easier. A few bunches sold yesterday at \$4.50 to \$4.75 per head.

LAMBS.—Are easier owing to pretty large supplies.

\$4.75 per head.

LAMBS.—Are easier owing to pretty large supplies. Sales have been made at \$3.15 to \$3.75 per head

CALVES .- Continue plentiful and are somewhat easier than they were at the close of last week.

Hogs.-The market continues about the same. Supplies are pretty fair. A few stores are offering, but the receipts are nearly all fat hogs. The latter have been selling at \$4.50 to \$4.65 per 100 lbs. A few stores sold at 4 1/2 c.

The following are the receipts of live stock at the cattle market here for last week and to date, with comparisons :--

Į			oncep an	a
Į		Cattle.	Lambs.	Hogs.
Į	Week ending June 26	884	75ī	119
į	Week ending June 13	1,266	350	187
l	Cor. week, 1884	598	325	158
ı	Cor. week, 1883	555	278	
ŀ	m			
l	Total to date	22,482	4,509	2,672
ı	To same date 1884	.15,157	5,653	2,927
ŀ	To same date 1883	14,404	4,983	2,085
ŀ	Quotations are as follows :-	-		
ŀ	Cattle, export choice	5½	10 53/ 1	oer lis.
l	" " mixed	5	to 5 13	"
	" bulls		to 4 1/4	66
	" butchers', choice	1%	to 134	44
l	" good	41/	4/4	"
	" common grass fed	3	to 41/2 1	466
	Milch cows	San		
	" stockers	23/	to 1%	"
	Sheep, export, per lb	3/4	to 43	
	" butchers' per nead	•••••	10 49	
	Spring lambs, per head	• • • • • • • • • • • • • • • • • • • •	200 10	4 / 5
	Hore fat off the car		3 00 10	3 /5
	Hogs, fat, off the carstore	•••••• 4)	2 10 4%	oct id.
	Calves choice nor head		10 574 16 5 7 4 -	eo
	Calves, choice, per head	•••••	10 00 to	3 0 50
	" common	•••••	2 upware	as.

MONTREAL.

The exports of cattle from Montreal continue to the exports of cattle from Aforteat communities there are and of all previous years. The exports to date reach 18,325 head an increase of 4,265 head over 1884, an increase of 2,925 over 1883, and an increase of 6,344 over 1882. There has been a fair trade in export cattle since our last, and the market has been well cleared out at firm prices. The receipts during the week have included some grass fed cattle, and the movement of such next week is expected to show a large increase. At Point St. Charles on Monday exporters were good buyers and the bulk of the offerings was absorbed, with the tone of the market firm, transactions being effected at 5½ to 5½ c. Per lb. live weight. Last year at this date export cattle sold at 5½ to 6½ and in 1883 at 6½ to 7½ c. There was a good demand for butchers cattle at 5 to 5½ c. per lb. live weight. Hogs were in light supply and fair demand, with prices higher at 5½ to 5½ c. per lb. At Viger market the receipts of attle were moderate and prices ruled firm under a good demand. during the week have included some grass fed cattle, erate and prices ruled firm under a good demand. There were 200 head offered, and good to choice here were 200 fieat ordered, and good of those beeves brought from 4½ to 5½c, and common to fair 3½ to 4¼c, per lb. live weight. The receipts of sheep and lambs were 300 head, the best of which sold at \$4.50, while inferior brought \$2.50 each. Lambs sold at \$3.75 to \$4 as to quality. Calves were in good demand at easier prices, there being 200 head offered, and choice sold at \$10, while inferior sold down as low as \$1.50 each. Hogs were active at steady prices and brought from \$3.50 to \$8.50 according to quality. One bull, weighing 1,965 lbs., sold at 5 1/4 c.

THE HORSE MARKET.

TORONTO.

The weekly sale of horses at Grand's yesterday was largely attended, buyers being present from all parts of Canada. About fifty horses were sold. Prices ranged from \$80 to \$210 each. About fifteen of the fire hall horses were sold at good prices. The demand at the Repository for horses of all classes is exceptionally good at present.

MONTREAL

There has been a good demand for horses lately, There has been a good demand for horses lately, but it is impossible to obtain animals owing to the scarcity. The best enquiry is for good working horses, which could be sold for high prices had there been any in the market. During the past week Mr. Maguire, of Cullege street, sold the following:—One brown horse, 9 years old, \$72.50; one brown horse, 6 years old, \$100; one bay do., 5 years, \$110; one bay do., 7 years, \$150; one bay mare, 6 years, \$100; one grey horse, 5 years, \$150: one bay mare, 4 years, \$160; one bay mare, 8 years, \$125.

PRODUCE

There would seem to have been some slight improvement in the local market during the week. There has, at last, been some little enquiry heard for flour; and the obstinacy of holders appears to have averted grief in the case of wheat. Crop prospects in our own neighborhood are generally reported of favorably; but neignormood are generally reported of invorably; but we have some time yet to traverse before harvest,par-ticularly when prophets of it are all agreed in pre-dicting a late one. Stocks in store have been decreasing and stood on Monday as follows:-Flour, 3,375 barrel.; fall wheat, 107,783 bushels; spring wheat, 109,851; oats, 20,003; barley, 11,565; peas, 10,497; rye, nil. Wheat in transit for England shows a decrease on the week, standing on the 10th inst. at 2,750,000 quarters, against 2,844,000 on the 12th inst. In the States the visible supply of wheat stood at 37,330,000 bushels, against 37,799,000 in the pre-ceding week, and 14,993,000 last year.

PRICES AT LIVERPOOL ON DATES INDICATED.

	June	16.	Jun	e 23.
Flour	oos	od	oos	od
R. Wheat	75	od	75	od
R. Winter	75	1 d	75	2d
No. 1 Cal	75	od	75	3d
No. 2 Cal	6s	8d	65	rid
Corn	45	64d	45	7d
Barley	oos	od	005	od
Oats	005	od	oos	od
Peas	5\$	Sd	55	8á
Pork	545	od	555	od
Lard	345	3d	345	3d
Bacon	28s	3d	285	
Tallow	305	od	295	6d
Cheese	375	od	375	od
There has been a	elight	impr	ovem	ent ir

FLOUR.—There has been a slight improvement the enquiry, at firm prices. Sales were made toward and all offered have been wanted; prices firm but un-

the close of last week at equal to \$4.05 for superior extra and equal to \$3.00 for extra; and on Monday extra again changed hands at equal to \$3.87½. Market closed with a relapse towards dulness and sellers as

BRAN. - Seems inactive and rather unsettled with values closing, as well as we can judge, at about \$10 50. OATMEAL - Cars inactive and weak with sellers at about \$4.20, but no sales quoted; small lots quiet at \$4.50 to \$4.75. WHEAT -- Sales have been small but any sold has

On

75 to 76 2c.

OATS.- In sufficient supply and rather easy in price Cars on track sold at 34c. on Thursday and Friday for feeding, and at 35c. for white for milling. The market closed dull with mixed unchanged in value at about 34c. Street receipts small and 37c.

BARLEY.—Cars neither offered nor wanted; prices of them purely nominal. Street receipts very small; one sale was made at 56c.

one sale was made at 50c.

PEAS.—In good demand and firm; several cars sold towards the close of last week at 67c. f.o.c., and on Monday one car brought 68c. Street price 64c.

RVE.—None offered; prices nominal.

HAY.—Pressed in car-lots has been steady at \$16 50

Market receipts small until the close when they showed an increase, but all wanted at steady prices; closing at \$12 to \$14 for clover and \$15 to \$18

for timothy.

STRAW.—In good supply but all taken at firm prices; loose has sold at \$7 to \$8 and sheaf closed at \$10 to \$12

POTATOES.-Cars rather better with some sales at 25c., which seemed about the value at close. On street firmness has prevailed; but loads have usually

Appl.Es.—Increasingly scarce and prices firm at from \$2 to \$3 to \$3.50, the latter for really choice win-

POULTRY.-None offered and prices somewhat easy at 35 to 60c. for spring chickens, the former for small; and 60 to 75c. per pair for fowl.

TOPOSTO MARKEL

TORONTO MARKET.	
lour, p. brl., f.o.c, Sup. extra\$4 00	to \$ 4 05
" " Extra 3 87½	to 3 90
" Strong Bakers' o oo	to 0 00
" S. W. Extra 0 00	to 0 00
" " Superfine 0 00	to 0 00
)atmeal 4 20	to 0 00
Cornmeal 0 00	to 3 50
3ran, per ton10 50	to 11 00
Fall wheat, No. 1 0 00	to 0 00
" No. 2 0 90	to 0 00
" No. 3 0 87	to 0 00
Spring Wheat, No. 1 0 91	to 0 00
" No. 2 0 89 " No. 3 0 00	to 0 90
" No. 3 0 00	to 0 00
Barley, No. 1 0 00	to 0 00
" Yo 2 0.60	to 0 00
" No. 3 Extra 0 55 " No. 3 0 50	to 0 00
" No. 3 •••••• 0 50	to 0 00
Oats 0 34	to 0 00
Peas o 67	to o 68
Rye 0 70	to 0 00
Corn 0 00	to 0 00
Timothy Seed, per bush 2 00 Clover " 6 75	to 2 15
Clover " " 6 75	to 0 00
Flax, screened, 100 lbs 0 00	tu 0.00
ppomicionic	

PROVISIONS.

BUTTTER.-New has been selling fairly well for local consumption and at steady prices, or 12½ to 13c. for good qualities, whether tub or roll; receipts seem to have been on the increase and rather improving in quality. Old, however, has been increasingly dull; lots have been offered ireely at 6c, without finding a sale, and some little, we believe, has gone off at 4c.
Street receipts of pound rolls have been large and
sales at low prices, but closing rather better at 13 to

CHEESE.—Old almost finished, and new has sold fairly well in small lots at 8 to 8 1c.; but the feeling at the factories seems improving.

EGGS .- Receipts have been rather on the decrease,

changed at 12c, for roung lots. On street 13 to 14c. has been the range.

PORK .- Quiet but steady, with small lots going at

BACON.—Dull and in some cases weak Long-clear has sold in cases usually at 73/c, but the range has been from 74c for tons to 84c, for the smallest lots. Cumberland inactive at 7 to 7 %c., but some newly-cured is held at 8c. Rolls have been moving freely at 9½c. for trade-lots and 10°. for small lots, and bellies at 11 to 11½c. Hams in good demand and beines at 11 to 12c.

LARD.—Dull and weak at 9 to 9 c, for tinnets and pails in small lots; tierces nominal

Hous.—Offered slowly and nearly all offered bring-

ing \$6.50. SALT — Liverpool coarse in small loss selling at 70

to 75c.; new dairy to arrive this week offered at 45c. for 50-lb, bags Canadian quiet and unchanged.

Dried Apples.—Inactive and easy; trade-lots not selling and dealers letting them off at 4½ to 5c.,

with evaporated at 71 to 8c.

WHITE BEANS.--Choice have been selling in small

lots at \$1 00 to \$1.10; these seem steady and rather

Hors.—There have been a few single bales of choice sold at 12 to 15c., but no movement is reported in trade-lots, and the disposition seems to be to hold these over.

TORONTO MARKETS.

١	Butter, choice dairy, new	0	12	to	0	13	
١	" good shipping lots	0	05	to	0	06	
١	" inferior, &c	0	01	to	0	00	
١	Cheese, in small lots	0	οŚ	to	0	10	
١	Pork, mess, per brl	15	∞	to	15	50	
	Bacon, long clear	ŏ	07	∕2to	0	ο8	
١	" Cumberland cut	0	07	4 to	0	08	
	" smoked				0	00	
1	Hams, smoked	0	115	∕2to	0	12	
١	" cured and canvassed	0	တ	to	0	∞	
۱	" in pickle	0	10	to	0	103	
1	Lard, in tinnets and pails			to	0	09	•
t	" in tierces				0	∞	
1	Eggs	0	12	to	0	00	
1	Dressed hogs	6	50	to	0	ဝ၁	
	Hops	0	10	to	О	15	
t	Dried apples	0	04	to	0	05	
	White beans	0	75	to	1	10	
	Liverpool coarse salt	0	65	to	0	75	
٠	" dairy, per bag 56 lbs	О	50	to	О	00	
;	" dairy, per bag 56 lbs	1	45	to	I	50	
	Goderich, per barrel			to	0	00	
	" per car lot			to	0	00	
	1						

HIDES, SKINS, AND WOOL.

HIDES.-Green have been in fairly good supply and of fair quality, and readily taken at former prices; cured firm with sales of cars at 8½c

CALFSKINS .- Abundant, and readily taken at former

PELTS.-Receipts have been on the increase, but

prices have remained unchanged at 20c.

LAMBSKINS—Offerings increasing, but all selling, when holders are content to let them go, as before at

30 to 35c. for good to choice green.

Wool..—There has been rather more offered on the street and country dealers have been bringing forward a few small lots, but the sum total yet in is limited. Prices have been steady but unchanged at from 16c. for coarse to 18c. for good lots of average quality with Southdown at 22c for the little of it offered; old is of just the same value as new. Nothing reported in pulled and no enquiry from tactories, as these seem to have been trying to buy on their own account from farmers.

TALLOW .- Abundant but firm at 61/2 c. for rendered and 31/2 c. for rough, with round lots going at 63/2 to 7C.

Hides and Skins.			_	
Steers, 60 to 90 lbs	8 🔏	to	\$ 0	တ
Cows o c	77.3	to	0	00
Cured and inspected o c	SA	to	0	૦૪%
Calfskins, green 0 1		to	0	13
" cured 0 1		to	0	15
Sheepskins			1	
Lambskins o		to	0	35
Pelts 0		to	0	00
Tallow, rough o		to	0	00
" rendered o	61/2	to	0	00
Wool.				
Fleece, comb'g ord	16	to	0	18
" Southdown 0 :	21	to	0	22
Pulled combing		to	0	18
" super 0 :		to	0	22
		•-	_	

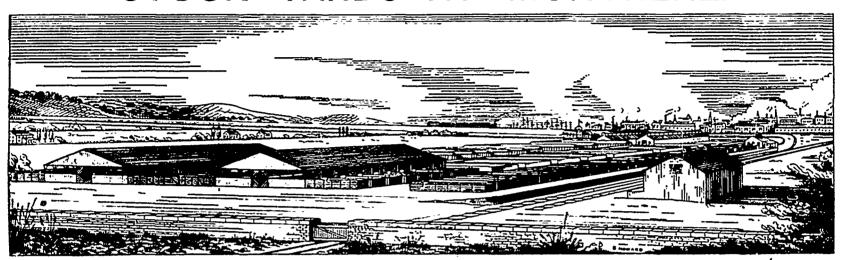
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MONTREAL.

Ontario Veterinary College

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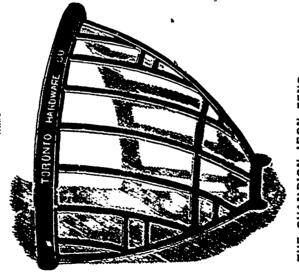
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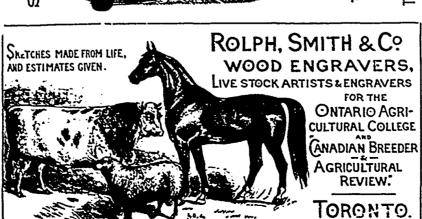
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(Mention this paper.)

W. DENNIS.

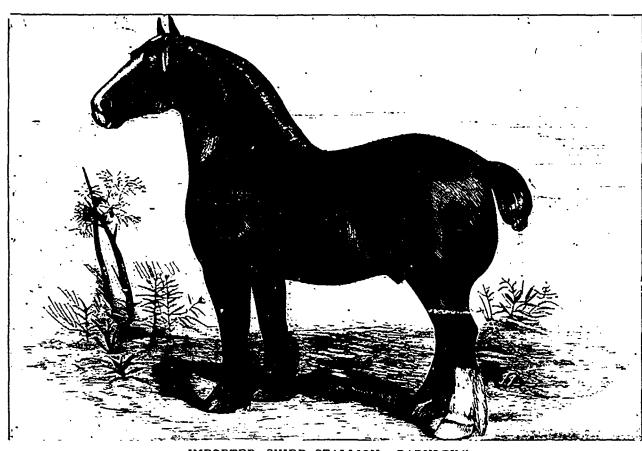
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213 YONGE ST., TORONTO, ONT



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MESSRS. HENDRIE & DOUGLAS

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John, N.B., without change.
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Destroys the Ticks, Cleanses the Wool

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DEAR SIRS.—I have had no opportunity of testing your "Tick Destroyer" in my own flocks—there being no Ticks on my sheen—but I placed some of the preparation in the hands of my friend and neighbor, F. H. Hibbard, Esq. on the necuracy of whose experiments I can fully rely, and after testing it in soveral cases, he informed me that it theroughly exterminated Ticks. I have, therefore, no doubt that it will do so.

Yours truly,

HENRY S. RANDALL.

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WHOLESALE AGENTS WANTED to handle this well known, valuable preparation in the United States.

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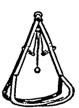
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We the undersigned, are using one of your I X L Feed Mills, and I N L Feed Mills, and take picasure as stating that they are all you claim for them. J T. Barley, Mitchell, Ont.; O T. Smith, Bindrook, Peter Timmons, Enterprise; R. Kail, Millbrook, J. R. Keyes, St. Catharines, to a Landaw, Victoria Hond, Thomas Ionson Scarboro.



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Respectfully yours.

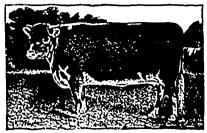
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We have a few Choice

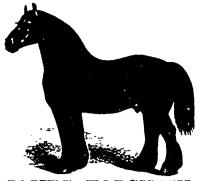
HIGH GRADE JERSEY COWS, Fresh in Mick, of good individual merit, which we can offer for said to those anxious to improve their dairy stock.

PRICE \$100 EACH.

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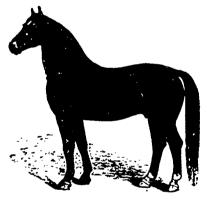
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MINERAL WATER, Stallion Pony age four years, 13 hands high

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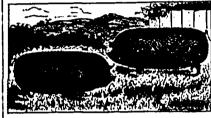
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As produced and bred by A. C. Mooro & Sons t anton, Ill. The best hog in the world. We have made a specialty of this breed for Sry ars. We see the largest breeders of thoroughbind Peland-Chinus in the world. Shipped over 750 pigs in 1881 and could not supply the demand. We are raising 100 pigs fer this senson's trade. We have 160 sows and 10 males we are breeding from. Our breeders area i recorded in America. P.C.R. coid Photocard of 43 breeders face. Swine Journal 25 cents, in 2-cent stamps. Come and see our stock, if not as represented we will pry your expense. Special rates by Express.



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Bred from imported stock—the boar in use was bred by the Earl of Ellesmere, and won first prize in his class at the chief shows in Canada this year.

SEVERAL PRIZE WINNERS

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S il clay loam. Water good and abundant All in good order.

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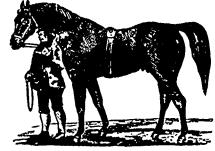
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WILL STAND FOR MARES AT THEIR OWN STABLES,

OAKRIDGES

MILESIAN, by Imported "Mickey Free," dain 'Maria Hampton" has been the best horse over hundles in america, and his record in this style of raci g has nover been beaten either on this Continent or in England.

ORIOI.K. row 5 yrs.old, by "ERIN CHIER," dam thoroughbre! mare "Monena," by imported "The TESTER" grand dam by "VAL-PARA 50," laf r ap carance and speed admitted to be superior to his co obrated sire.

TERMS:

Mares token to pasture and carefully attended to on reasonable to ms.

H. QUETTON ST. GEORGE. O KRIDGES P.O. ONT IRIO

IMPORTED STALLIONS ${f YOUNG\ HERO}$

(SUFFOLK PUNCH)

ELMO (NORFOLK COACH HORSE.)

NOTICE.

Having met with a severe accident a few weeks ago. I will not be able to travel my Imported Stallions, "Young Hero" and St. Elmo," over the route which I had letended during the coming

They wil bake t for service however, at their own stables at the IMPERIAL HOTEL, GALT, where every facility will be afforded those who wish to breed from these fine animals.

Galt April, 1885.

WM. SADLER.

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TROTTING SIRE

Chicago Volunteer.

DESCRIPTION.

Bred b. H. C. Goodrich, on the Farm of Alden Goldsmith, Orange County, NY., the owner of "Volunteer."

A oark malicgany bay, 16 hands hig , and weight 1,221 lbs.

PEDICREE.

PEDIGREE.

By Goldsmith's Volunteer; first dam Lady Diamond by Billy Rix, by Gifford Morgan, by Woodbury, by Justice Morgan, second dam by Gamble's Grey Eagle, Grey Eagle by Woodpecker, first dam Opholia by Wild Medley, second dam by Sir Archy, third dam Lady Ches crifield by Imp Diomed, fourth dam Lady Bolingbroke by Imp. Pantaloon, fifth dam C. des by Wornsley's King Herod.
Goldsmith's Volunteer by Rysdyk's Hambletoman, by Abdallah by Mambrino, by Messenger, &c., dam by Young Patriot.

Terms.—For the Scason, \$20, payable 1st of Ja nary, 1866. Maios not proving in foal can be returned next season free of charge, providing Chicago Volunteer is living and in my possession All accidents at owner of maro's ris«. Good pasture at \$250 per month. All escapes at risk of owner of mares

Mares from a distance will be mot at train

M. BURGESS. WOODSTOCK, ONT.

DOUGLAS.

Late of TORONTO, CANADA,

Begs to announce to Breeders and Importers of all kinds of Farm Stock that having taken up his Residence in LIVERPOOL, ENGLAND, he is now prepared to purchase and sell on commission all kinds of Farm Stock. From over twenty years' experience in the Canadian import and export trade of horses, he is in a position to offer unusual advantages both in purchasing and shipping. Parties wishing to dispose of Canadian horses in England can have them disposed of t) the very best advatage. Shipping rates can be now had on the most favorable terms. Correspondence solicited.

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ANTWERP IN 1885. LONDON IN 1886.

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