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# AGRICULTURAL REVIEW. 

Vol. II.

# THE CANADIAN BREEDER <br> and agricultural review. <br> Weokly Paper, publitohed in the Stock and Farming interests of Canada. <br> SUBSORIPTION, - - $\$ 2.00$ per Annum. 

## ADVERTISING RATES.

Ier line, each insertion, - - - . - 10 conts.
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Cos. Clurcil ayd Yront Sth.
S. BEATTY, Maxnotr.

Toronto, Thurdday, December ifth, 1885.


#### Abstract

 japer.

THIS PMPER may bo found on filo at Geo. P. Now NLL \& street, where adrerthing contracts may we mado ifini YiRil. ifor It in


N. W. Ayer \& Son, Times Building, Philadelphia, are agents for this paper. Files may be seen and contracts made at their office.

The Canadian Breedek is represented in Liverpool, England, by Mr. J. F. Reid. Chapel Waiks, where contracts for advertising may be made and subscriptions sent.

## TUBMAN FOR SALE.

For the production of half-bred horses big sires are alrays piopular, as however fallacious the conjecture may often prove, breeders always persist in looking for large produce from large sires. It often happeris, however, that a small sire will produce large colts, and sometimes (though not so often) it happens that a large sire gets small colts. In the famous thoroughbred stallion Tubman (advertised for sale elsewhere) the buyer will find not only great size and substance, but a well proved ability to get large solid colored produce. Tubman should be a yery useful horse wherever he may go, but if bred to

TORONTO, DECEMBER ${ }_{17}, 1885$.
large, heavy mares he could hardly fail to produce carriage horses of rare quality, size and finish.

As a sire of race horses, Tubman should be very successful. In his day on the turf he was a thorough race horse at all distances up to four miles (having won the Bowie Stakes at Baltimore) and fashionably bred as he is (by War Dance out of Lass of Sidney, she by imported Knight of St. George) he should be popular either as a producer of thoroughbreds or half-breds.

## HORSES FOR SAIEE.

In another column will be found an advertise. ment of the sale of the following horses : Midlothian, Direction, Kennesaw, Miss Archibald, and Wildwood. In this lot, though it is not a very large one, race-horse owners and breeders have a considerable variety from which to make their selec. tions. First in the list comes imported Midlothian, an extremely handsome and well-turned English thoroughbred, descended of some of the most fashionable strains now represented on the English turf. Were it not for the alleged question as to his breeding it is very doubtful if Midiothian would have ever crossed the Atlantic, for with Lufra for his dam, had it been settled whether he was by Strathconan or Rataplan he must have been highly prized for stock purposes, but men who pay fancy prices for finely bred sires, want to be absolutely certain as to the blood lines they are following, so that while either sire was good enough the question as.to which of the two was the sire must have been a powerful agency in lessening his price after he had closed a very successful career on the turf. But while Midlothian, with his double parentage, might not be quite the article for the patrician matrons of the linglish studs, there is no reason why he might not be successful as a sire of both thoroughbreds and half-breds in Canada, and it is to be hoped that he will not be permitted to go out of the country.
The rest of the animals offered are of less value to the breeder, though Miss Archibald should make an excellent brood mare, and as her praduce could claim half-bred allowance they should be excep. tionally useful on the turf. She was a wonderfully game and clever cross country mare herself, and if
is not improbable that when coupled with a thoroughbred stallion she might produce race horses having all the speed, courage and endurance of animals that were strictly thoroughbred. She is. in foal to Scalper.
The closely inbred son of Disturbance and Nettie, Direction, is a very speedy sprinter, and being eligible for half.bred races should be especially valuable for a class of races that are every yean becoming more and more popular.

Kennesaw, a great race horse in his day, is still a grand-looking gelding, and though it is not probable that he would stand training he should be a superb hunter.

Wildwood is a chestuut two-year-old gelding, fashionably bred, but as yat untried.

## THE BEST BREED OF FOWL.

This oft-mooted question arises up as regularly as winter follows fall. To my mind every breed has its place, and it is useless and idle talk for any breeder to claim that any one variety is the breed par excellence for everybudy. But still some men have the idea that they know all that is worth knowing, and as a general thing the statements they make are so manifestly partisan as to render them useless as an argument. I read in one of the poultry journals lately just such an article. In it the writer asserted it to be a fact that the Wyan. dotte is the only breed that is adapted to all countries, climates and conditions. Now, in my long experience as a poultry breeder, I have handled probably every yariety that has ever gained any prominence in America. I have handled at least tiventy-five breeds, and I have yet to find the first one that nature has not made a special .place and position for it to fill. . Nature never makess a mistake, and where a breed is deficient in one point it makes up for it somenewhere else. Now let us look the brecds over and try and. find one that has not got a pläce laid out for it somewhere. Let us comnience with the .Plymouth Rock, a breed that is probably bred pure about two to one of any other breed among the farmers of the United States and Canada. This breed is essentially, to my mind, a genesal utility fowl. It reaches an ayerage weight of four pounds in six to cight
months. It lays quite a number of eggs, and generally sells a cent or two better than the common market fowl.

Then comes its likeness, the Wyandotte, a bird of very much the same quality both in regard to eggs and weight, although its markings are much finer and the lacing is mue perfect. This breed is eventually, to my mind, to become the rival of the Plymouth Rock as the farmer's bird. They lay a goodly number of egss, and grow to a preity good weight. The one great beauty of these tyo breeds lies in their early maturity both as regakds eggs and meat. Then comes the Leghorns. This breed does not miture so early in regard to flesh, but does mature eatier for eggs. The laying of eggs is the forte of this breed both in the brown, black and white. Of these I think the brown Leghorn the hardiest, also the best layer. This breed, I should not think would do well in Canada, owing to their large combs and watles. The brown Leghorns are the nost common, the black most scarce. This breed is of the Spanish class, most of which are noted for their egg-laying capacities. Others of this class are the Andalusians and the black Spanish. These are bo:h very good layers, and quite hardy.

A long list might be made of the many different varieties bred by one or two fanciers, but they are not common.
The Cochins are a breed that mature rather early, although the young chicks incline to legginess. The most hardy, I think, is the Partridge Cochin. Then come the buff, black and white. The buffs are much admired by a large class of fanciers and farmers. The Partridge Cochins are also well liked by a large number of fanciers and farmers, as are also the blacks and whites. The Langshan is also much admired by a very large class of farmers and fanciers as birds ior crossing on the common stock. They give large size, which is a very essential point to farmers who breed poultry for market.

Another large breed which is much admired for both size and egg-laying qualities is the Brahma. Your correspondent has found the last season that this breed is becoming very popular among farmers, and especially Canadian farmers, as the arge number which has been shipped there will testify. Of these there are two varieties, the light and dark Brahmas. The light variety is much preferred by some, the dark by others. But of this more anon.

GRAPES OF THE SOUREST DESCRIPTION.
From all that can be gathered it appears that prior to their public sale the Jerseys composing the famous BurnsidePark herd were allowed to materially deteriorate in condition before being offered at auction. If this be true they are not the first cattie that through carelessness or bad management have been allowed to go off condition just at a time when they should have been looking their best. It is also true that the famous butter cow Princess and died within a few months after the completion of the greatest butter test ever accomplished.

On the strength of these two facts a tremendous howl has been raised over the cruel practices of gentlemen who have made the most successful butter tests with their Jerseys. Because Princess 2nd died a short time after a phenomenal butter test, is far from being proof that she died from the treatment to which she was subjected during that test. The truth is that many of the editors who are preaching long and solemin funeral sermons on the death of Mrs. Shoemaker's wonderful cow and upon the hard luck that has followed the Burnside Park herd, merely do so because it is a rather easy subject upon which to grind out editorial when subjects are scarce. It looks to be very cruel, of course, to force a poor cow to eat so much more than she wants that she will die of the effects of it. And if that be cruel, what shall be said of the monster who will extract so much butter from a poor little Jersey that she has nothing left with which to sustain life?

For the benefit of the many agricultural editors who never saw a cow, it may be well to explain that a Jersey cow, in fact any kind of a cow, takes her food " by the mouth," as the doctors say, just as a dog or a cat would. It may be further explained that with a Jersey cow, and indeed we might say with any cow, eating is a purely voluntary act, so that the alleged cruelty so far as feeding for these tests is concerned is neither very immediate nor farreaching. With regard to the extracting of the butter from the Jersey cow, or in fact from any cow, it may be a littie more difficult to make ourselves clearly understood by the class of agricultural editors for whose edification we are just now writing.

The butter is not extracted in bulk by means of a surgical operation, as might be supposed. It is detached from the cow in a fluid form by a process known as "milking," so called because the fluid thus extracted is called "milk." This fluid, from which the butter is afterward taken, must not be cunfounded, however, with a fluid bearing the same name which flows from large brass-hooped un cans that are carried about in wagons in every large city, early in the morning. If the milk is allowed to stand in a clean, cool place for a reasonable space of time a thick yellowish scum is found to have risen to the surface, and this is called "cream" (not to be confounded with ice cream), and this cream, when suitably agitated and kept at a proper temperature, is converted into butter and buttermilk. Sometimes, when extraordinary results are desired (as in the case of butter tests), all the milk is agitated or "churned," an operation which takes its name from the "churn" or vessel in which it is perform. ed. Thus it will be seen that it does not require any powerful surgical process either to feed the cow or extract the butter from her during these "horrible tests."

But it was not one or two in the large army of agricultural editors who would not know a cow if they saw one, who originated this outcry about the cruilty of butter tests. It was practical men who ought to know better -men who found their affections set upon and possibly their money invested in, cows that were not likely to greatly distinguish themselves as butter producers even
under the most favorable circumstances. Some of them may have been sufficiently deluded to be running after that Eutopian-bred animal the "general purpose cow," but whoever they were and however situated, they found that such cows as Mary Anne of St. Lambert and Princess 2nd were able to accomplish feats in butter production such as they had never supposed within the limits of possibility, judging from the capabilities of cows of the breed they felt bound to think the best. A short time ago grumblers of this type contented themselves with saying that a grade Shorthorn, or a native, would do as much on the same rations, but none of them tried it, or if they did they never gave to the world the result of their experiments.

Just now, however, the cry is changed to "improvidence and cruelty." What the next will be no one knows, but whatever it may be the motive will always be much the same, jealousy of the bitterest type.

But aside from showing a paltry childish spirit, these carpers are doing harm in the way of clogging the wheels of progress. Nobody among all these fault-finders appears to realize that these experiments are productive of any good. True, it may not be wise to give one of these heavy feeders all the rich food she will consume and properly digest, from one year's end to another, but it is one thing to test a cow for a week and another thing to have her producing butter at high pressure as long as she lives. The owners of Princess 2nd, Mary Anne of St. Lambert and other famous butter cows have done a great deal for cattlemen and farmers by their experiments. They have established the unquestionable value of the Jersey as a butter cow, and have shown to the world what careful breeding and judicious management can do in butter production. No one can doubt that the offspring or near relatives of such great cows are to a large extent be endowed with similar capabilities. The feats accomplished by these cows confer the same benefits upon the bovine race that the achievements of Maud S., Luke Blackburn, St. Gatien, Foxhall, Plesantrie do upon the equine race. They show of what the race is capable and what form, character and bloud lines are found to produce the best. Horses have broken down in training before they ever faced the starter, others have broken their necks at the first hurdle, and yet no one of common sense will raise such a howl about racing as these people who have not first-rate cows, do about butter tests.

Horsemen sometimes make mistakes when trying to do the best they can with their race-horses, and why should the cattleman escape without occasionally falling into error ?

Some say Princess died of over-fceding, others say that during the test she broke out of her stall and helped herself at the feed-box till she could hold no more. It is also said that by an unfortunate accident this famous cow caught cold and died from the effects of it. But whether this cow was destroyed by the great strain on her system incurred during her last butter test or not does not materially alter the case. If she was destroyed in this way, that does not constitute any valid reason why butter tests should be discontinued. Nobody will say that

Mary Anne of St. Lambert looks like a cow that had been very much enfeebled by the overtaxing of her constitution during any of her great butter tests, but on the other hand every new test made with her has surpassed the one that preceded it.
The gentenien who have made these tests have conferred a very great benefit upon the stockbreeding generally, and upon the "Jersey" portion of it particularly.

## GENERAL PURPOSE COWS AND DEFINITE PURPOSE COWS.

No intelligent reader of the Canadian Breeder can accuse it of being the organ of any breed or faction. What we have aimed at so far has been to do all in our power to encourage Canadian farmers and stockmen to keep fully abreast of the times, and avail themselves to the greatest extent possible of the benefits resulting from the researches and experiments of intelligent stockmen, agriculturists and scientists, so far as these experiments and researches have any direct bearing upon their everyday pursuits. To this end we have argued, that a farmer should not attempt to make himself a jack-of-all-trades We have held that if a man wanted to succeed in any particular line he must concentrate his energies on that particular line. We do not mean, of course, that the grain farmer should buy his milk, butter, cheese, beef and pork, nor that the man who wants to t.ake a success of beef growing should buy the bulk of his feed and all the farm and dairy products required for his family. Such ground would, of course, be wholly untenable. What we do urge is, that the farmer should market not more than two or three given products, while it is perfectly proper and economical for him to raise enough of others for home consumption. We do not like to see a farmer fooling away his time marketing a "little jag of hay," two or three bags of oats, a few rolls of butter, a small cheese, a basket of eggs, and a hind-quarter of lean beef, all on one trip. It is with such frittering away of their energies that many of our farmers are kept "with their noses on the grindstone" all their lives. If a man wants to be a dairyman, let him get possession of a herd of good dairy cows as rapidly as his circumstances will permit, and never stop adding to his herd, either by breeding or purchase, till he has enough to utilize all the surplus that his farm can produce over what is necessary for home consumption. Let his dairy cows manufacture into butter or cheese, everything that he does not require to use up on the place. He will, of course, keep pigs enough to utilize tice waste from the dairy, and these will require grain, and, perhaps, roots, but at the same time, butter or cheese, one of the two, remains the staple product. There is no selling of raw inaterial, and the farm is worked up to its full capacity.
In like manner, if beef-raising be the object, let the attention be devoted to that. Let the farmer select his stock for beef, and not for milk, butter or cheese production. If he cannot make more money at beefraising than at any other pursuit, he would have selected some other line more in accord with the capabilities of his farm. He selects beef-
growing, however, and, having done so, let him bear in mind that every product of the farm not wanted for home consumption must be converted into his staple product-beef. And here is where we desire tn take issue with Professor Brown, of the Agriculcural College, who, in spite oi his thorough intelligence and comprehensive grasp of most subjects, appears to be still aflicted with Eutopian dreams regarding that bovine myth, the "general purpose cow." His own experiments have afforded to others valuable data, white he himself appears to be disregarding the fundamental lesson taught by them. His favdrite Shorthorn stood well, but there were cows that surpassed her for butter, and cows that surpassed her for milk, and all this time no account was made of the relative quantities of food consumed by the representatives of the different breeds. The truth is just this: Some cows convert grams, grass, roots and hay into beef, others convert these substances into butter, and others into cheese. Every pound of butter that a beefproducing cow makes, means that the product of so much of her food has been diverted from the channel in which it would have made the best returns, and in the same way a milch cow that is inclined to be heavy fleshed is not making the best use of the food which the dairyman gives her. If a man wants to sell beef, let him devote himself to that, but the fact that his farm is stocked with Shorthorns, Herefords, or Scotch Polls, will not render impossible for him to keep two or three Jerseys to supply milk and butter for his family. Let his beef cows dry off as soon as the calves are done with them, and then every pound of food they consume will be devoted to beef production.

The question is sometimes asked, "What is to be done with the carcass of the worn out Jersey, Holstein, Guernsey or Ajrshise?" The answer is not bard to find. In the first place, the carcass of any cow that has served out her full period of usesulness in the dairy (say, a term of ten or twelve years), is not likely to be worth much for beef, and will do little more than pay for the feed used in fattening, if, indeed, it will do that. It is not a matter of very great moment how worn out dairy cows are disposed of, but, of course, they will usually find their way to the shambles, where the cow of the heavy fleshed variety would bring a slightly higher price than a representative of one of the deep milking or heavy butter producing strains. But the question for Professor Brown to solve in his next series of experiments will be whether or not the amount of butter lost by feeding half for beef and half for butter during ten or twelve years would not more than cover the price that could be realized for the carcasses of two or three old worn out cows.

Where we differ from Prof. Brown is just here. While he is looking for the "farmer's general pur pose cow," we nail our colors to the mast in defence of the "definite purpose cow:" If we want to produce beef profitably we shall expect to find those cors that show the greatest tendency to beef and the smallest tendency to milk the animals we want, whether they be Shorthorns, Herefords, Angus, Galloway, Sussex or Devon, does not matter to us. If we want to make butter profitably we shall look
for the cows chat turn their food into butter and not beef. One animal cannot excel in the production of both beef and butter. The cow that does neither very well, is the nearest approach to a "general purpose cow" liat will be found in this world, and we believe that for cows, as for men, the motto should be, "Whatever is worth doing, is worth doing well."

## VERY CHEAP PROTECTION AGAINST COID.

## YOK PEOILLE AND ANIMAIS.

Prairic Farmer.
Let it be remembered that the heat of our bodies, and of that of all animals, is chiefly produced zuithin, clothing and bedding manly prevent its escaping outward. This escape goes on with more rapidity in proportion to the coldness of the surrounding atmosphere. It is warmed up by fires to prevent its absorbing heat too rapidly from the surface of the body. As heat is not as easily cons ducted through air, as it is through metals, and through many solid substances, the warmest clothing, for example, is that which is porous, or has within it the largest number of air spaces. The crinkled fibres ot wool make an immense number of these air chambers in woollen clothing. In down and light feathers, the amount of open space is very great in a small weight of the substance. Brick walls with a hollow air space in their centres are warmer even than are solid walls of any material.

Moving air abstracts heat far more rapidly than still air, because the moment that portion of it in contact with the body is warmed up, it moves away and fresh cool air comes in tu take the place of that already warmed, and thus more heat is abstracted. One sitting in a room at 80 degrees, may take cold by having a door open into a room at 75 degrees. When the door is opened the interchange of the culder and warmer atmusphere to secure an equal temperature, produces a draught or air motion. This motion extends to all parts of the room, and the quiescent air about one's body that was nearly at its temperature, is replaced by cther air at only $80^{\circ}$ or $75^{\circ}$, or colder than the body (which is about y 8 degrees). This motion, therefore, brings many successive portiuns of the coller air to the body, and far more rapidly extracts its heat. The atmosphere at $32^{\circ}$, with a high wind, or even a moderate one, is a far more rapid extractor of cold than still art at 10 or 20 degrees lower tem. perature. Now let us

Apply the Above Principles. A single newspapier spread upon a bed confines a thin layer of air under $\mathfrak{i t}$, and this of itself is a non-conductor of heat, and far less of heat escapes from the bodies of the persons in the bed. At the same ume it keeps that layer of air from motion, and thus affords exira protection. Two layers of paper afford a double protection. Let any one try pasting together several shects of even common newspapers, to form a coverlid, . d they will find its protection almost as great as that of an extra closely woven bed spread. Two or three such layers will equal in warmth quite 2 thick comfortable. They can be pasted or fastened together at the edges for easy hapdling, and be kept folded in a closet for extra cold nights. This is of great importance to poor persons, and to all who have not an abundant supply of warm bed. ding. Any one caught from home in cold weather with an insufficiency of clothing, will find much help from simply wrapping a large newspaper, or other paper, around any exposed jart of the body, as over the shoülders and back, around the limbs, over the feet, etc. The same in riding. Newspapers under the blankets or robes, if these are not of ample thickncss, will be useful in retaining warmth.

Paper is C'scfu' in Many IFays, as a protection against cold. In new setlements, where the frame dwellings are not yet made cold proof, a few layers of common newspapers, or of any cheap paper, tacked against the walls, will have a magic effect in l.eping the house warm. The edges can be pasted on more secarels than taching, but it is desirable to lave the papers lie not too compact, as every addi tional layer of air between the papers is a num-con ducting wall, so to call it.

In all humes where the lower flow sis of single boards or planhs, the roums will be doubly warmed if one or more thichnesses of paper (newspapers will dog are tacked or pasted upon the joists supporting the flour, as a paper aleiling to the cellar. Halfa dozen layers of paper under the carpets of the luwer rooms will often save a great deal of fuel, and add wonderfully to the comfort of the occupants. Few houses are so tightly banked up that more or less air dues not enter, and few floors are so tight after seasuning that mure or less of cold air does not find its way up through them, even thuugh inguedandgroured. This air passes through the thichest carpeit. It will nut pass through a few layers of p.aper, so put down as to break juints.

Paper to Protict Ammals.-Most barns, horse and catte stalls, sheep and hog pens have cracks hetween the boards, that let cold air draughts pass t.arough them. Newspapers tacked up aganst them on the inside, the more thackness the better, will render them far warmer. An hour spent in thus patting $u_{j}$ such protection will not only add to the comfort of the anmals, and save them from colds, lout it will save a large amount of food that would otherwise be required to supply the heat carried off b; the cold air coming in through cracks and chinks i.t the cuvering.
sow remember :
1-That the blood circulating through every timan body must be kept, winter and summer, n'ght and day, at all seasons, and in all climes, at just about 98 . If it rises ten degrees, death is close at hand. If it sinks ten degrees below $98^{\circ}$, unless quickly restored, the wheels of life will soon stop. The same is the case with all our domestic aamals, excepting that in some of them the normal t:mperature saries slightly from 98 degrees.

2 -That, as a rule, all this heat is produced in. s:. Fe of the bodies of the human and every other animal, from the fuel tahen in as food and slowly onilized ( $b$ دrncd) in the body, that excepting when the almosphere is $98^{\circ}$ or higher, some of this heat is always escaping from the skin, and by the breath.

3-That if there is not fresh food enough in the body to produce the required heat to maintain the blood at $98^{\circ}$, then nature has provided that the fat and tissue stored up from food previously cons.med shall be drawn upon, and used in producing this heas.

4 - That heat has a cunstant tendency to equalize itself in all substances in contact, and that the coldor the air is next the skin, the more rapidly does the heat of the body pass off into it ; and that (as noted elsewhere) moving air, or wind currents, exhaust heat much faster than still air.

5-That all the heat leaving the bodies of men or other animals must be constantly resupphed by new heat, and that this requires more food to be consumed, or the using up ot more fat and ussue that have accumulated.

6-That any protection to men or other animals which prevents escape of heat from their bodies, saves a proportionate amount of food, or of fat or flesh that would be used up in supplying the heat always required.
7-That warming the air around the bodies, or surrounding them with cinthing, or blankets, or walls, or sheds, or wind breaks, in keep rold air
a way, and especially cold moving air, helps prevent the escape of heat and saves food, or the using up of fat or flesh.
8-That the warmer this protection for men, for horses, cattle, shecp, hogs, or poultry, the less will be the escape of heat, the less will be the food required, the less will be the waste of fat or fesh pre tiously stored.
9 That nature has so arranged the internal ma chinery of men and all other animals, that of the fond eaten, cnough shall first be used to keep up 98 degrees of heat ; that second, if there is any left after supplying this heat, enough shall be used to restore the naturai wastes of the system; and third, that if after these are both provided for, there is more food, that the buman or other animal will store it by increase of fat and flesh.

10 - That in very cold weather, it takes so much food to keep animals simply warm, that they cannot lay on much fat or nesh; and so it is far less profitable to feed animals for fattening in winter, than in autumn.

Fïnally, and Important. Is is not plain and clear that the warmer the animals of $: / l$ hinds are kept, the more that culd still air, and especially that cold moving air, is kept away frum thair bodics, the less food they will require, and the more of it can they use in laying on flesh, producing milk, growing wool, and manufacturing eggs and so on?

Lastly, Firstly' and Ahways. - In the light of the above facts and explanations, is there any doubt that protecting animals in all arays possible, even if it be only by a straw shed and wind-break, will pay! and that the greater the protection, the better it will pay?
" 1 merciful man is merciful to his beast."

BUYING HORSES IN FRANCE.

## Michigan Farmer.

In France the eighth wonder of the world is said to be the securing of a perfect horse at a public sale, that is, one sound and well shaped and answering to all points desired. Perhaps French are no more than other horse dealers. But they are not the less capable of deceiving even the elect-often they take in one another. In selling hurses in Paris the event is arranged like a strategs. If the animal be for the saddle th appears before the public mounted, if fer a vehicle it is yoked.

Now all is prepared beforehand; the ground, the canter alley, etc., are perfectly known. The dealer is "up" on the weak points of the animal ; if it be too ardent, shy, irregular, etc., these are tenderly treated. Duting the preparatory training all the yard will be brought to bear to calm the horse, to caress and accustom him to surprises. Patience and dissimulation will do the rest. But when the animal changes owners, is removed to a new stable, and confined to a strange groom, the borrowed docility will promply disappear. The soothing system will be replaced by stentorian roars and sharp lash. ings.

The common "drugs"-if such can be called, used, are ginger ond sugar. The former is placed under the animal's tail, to provoke ardour ; and dissolved sugar will tranquillize-momentarily, a very passionate horse. To all observations urged by the purchaser, that the horse has unbesecmed the promise of his spring, the dealers will reply "We did not make the horse; alas! were it in our power, not an animal but would be perfect."
The grand lesson to bear in mind in horse buying is, the defects as well as the good qualitics of a horse are essentially hereditary. An animal can certainly become bad by vicious or fuolish treatment, but it is the hereditary traits of his character-good or bad, that must be remembered. The great aim of a buyer should then be to judge a horse not so
much by its own points as through the history of its sire and dam-their ancestors even. It is there will be found the history of its health, merits and drawbacks.
Il a person who is unknown to you, calls on you for the first time, your immediate impulse is to study his features, look into his ejes- which are the expression of character. Horse dealers study the features and tyes of horses in a similar sense. Horses that resist or shy, generally view man with defiance from the corner of their cye. These horses will generally have convex forcheads; the cars animated, one moring forwards, the other backwards. In the stable they will have the habit of switching their tails.
Docility and fidelity are hereditary or inherent qualities, but can be abused by ill-trcatment. Horses possessing these qualities have the eye open, the forehead spacious bet ween cyes, and no jerky action of the ears. Often horses dorile with man, are not neighborly for their companiuns. The eye of a good horse has a regular oval form, the long axis going from the front, backwards. There ought to be no wrinkle on the upper cyelid, and it should be perfectly symmetrical with the under lid. The Norman horses have the reputation of being rather unmanageable, easily frightened and timid. In the selection of a horse then, character is the point to determine. A horse is useful for its advantages, but is not required for producing accidents.
While on the subject of horses, I may observe, that in the buying of them the seller's recommendation never receives any weight. He is too well known to have an axe to grind. The intending buyer endeavors to obtain 2 private peep at the animal in the stable, take the horse unawares, as when the dealer is present it would appear different. A look can thus be obtained at the animal feeding; its age controlled; the eye peered into to ascertain if the owner be mild or wicked. Care is taken to have the horse shown off, not on a littered run, but on a hard or stone covered road, making it at first walk, and next to stand in a horizontal position. Then order a trot, observing well if the animal on turning yields to a side, to relieve some drawback about the feet. After the sun listen to the respiration and note the movement of the flanks; press the throat to provoke a cough ; if the latter be frank and sonorous, the horse is in good health; if dry and short, beware. In the case of saddle horses. the purchaser ought to mount himself and remark if the animal replies to the pressure of the knees and the spur; if the buyer is occupied with a pair for a carriage, have them put to, and take the ribbons yourself.

## THRIFTON NOTES.

The inth of Decmber this year finds the winter whea: in Central Illinois frozen in under an icy sleet, and over this a slight covering of snow. Had the snow come first, and been followed by sleet, the prospect for a good wheat crop in 1886 would have been more encouraging; but as it is, the present conditions are hy no means favorable.

On the 7 th inst. the thermometer marked 4 de. grees below zero at 5 १.m., the coldest to that date of the winter; sinc: then the cold rain, the slect and the snow have brought to a close the hog. fattening season, and consequently the slaughtering of fat hogs has been the order of work, within the last five days, on nearly every farm.

The expense of the National Swine Breeders' Committee appointed to visit Washington next month-about $\$ 300$-is being raised by the several Swine Record Associations. This is a right move on their part, as they are looked upon as the leading organizations of swine breeders in the country. If they fail to take hold in a case of this kind, who else can be expected to do the work required or provide the means for having it done?

## PROVINCIAL FA'I STOCK SHOW:

THE THIRD ANNUAL EXHIBITION AT WOODSTOCK a great success.

The third annual Provincial Fat Stock Show, held at Woodstock last week under the auspices of the Agricultural and Arts Association, was a great success.

The officers of the show are : Pres., E. W. Chan bers, Woodstock ; treas., John Craig, Woodstock sec., Henry Wade, Toronto; general superintend ent, Stephen Hall, Washington. The committee of management from the Agricultural and Arts Asso ciation are: Geo. Moore, Waterloo; J. C. Snell, Ednonton ; J. B. Aylesworth, Newburgh ; Stephen White, Chatham ; Henry larker, Woodstock Thuse from the Oxford Fat Stock Club. E. W. Chambers, Woodstock; A. Clarkson, Woodstock W Strode, Norwich; G. A. Alurray, Woodstock S. Bickle, Wondstock. Ald. Frankland, of Toronto, the pioneer of the Canadian cattle trade was present and officiated as one of the judges.

The total number of entries outside of puiltry is about 160 The entries of sheep are more numerous than at either of the former shows, at Toronto and Guelph. The number of cattle and hogs on exhibition is very large. The display of poultry is also first-class. Among the prominent exhibitors are: H. \& I. Groff, Elmira; Simon Beattic, Markham; Wm. Murray, Chesterfield; Wm. Donaldson, S. Zorra; John Kelly, Jr., Shakespeare; H. H. Hurd, Tamilton; Stephen Hall, Washington; Geo. Keith, Elora; J. E. Brethour, Buiford ; J. R. Davis, Woodstock; J. \& R. McQueen, Salem ; M. \& W. Schell, Woodstock; Jas. Allenby, Woodstock; R. Bickle, Walmer; Geo. Denoon, Milton; R. Crozier, Yaris; J. Rutherford, Roseville; Jas. Glennie, Guelph; Wm. Oliver, Plattsville ; Wm. Walker, Ilderton ; G. H. Cook, Ingersoll ; E. and A. Stanford, Steyning, England; Alex. MćDonald, Chesterfield ; Thos. Lee, Oxford Centre ; J. Feath erston, Credit ; Walter West, Guelph.

## the herds.

The most prominent herd in the show is that of H. and I. Groff, Elmira. They have ten head present as follows:-Baron, three years old, thoroughbred Shorthorn, red, winner of first prize wherever shown; Elmira Boy, red, winner of first prize as a yearling at the fat stock show, Guelph ; Tral. ton and Elmira Ranger, one-year-olds, red; King, two year-old Shorthorn grand, red, winner of several prizes; Ranger, two-year-old Shorthorn grade, red with little white, winner of sweepstake and grand sweepstakes for the best ox or steer at last Provin cial Fat Stock Show, against all ages and breeds, and first wherever shown this year; he is considered by competent judges the best steer in Canada; Elmira, red, and Roan Warlaby, one-year-old Short horn grades ; Louisa, red and white, five-year-old Shorthorn grade ; Dora, roan, four-year-old Shorthorn grade, has been a prize winner ever since a calf, having won first prizes all over the country.
Messrs. Groff have sold Dora and King to Messrs. Hauraban Bros. at very high figures.
Messrs. J. \& R. McQueen, of Salem, have only two head on exhibition this year, Red Duke, 5 -yearold Shorthorn steer, has taken prizes wherever shown at all the leading shows, securing the Hope silver cup, valued at \$roo, at the Fat Stock Show at Guelph last year; Daisy, roan, 5 -year-old Shorthorn grade, has also taken first prizes, getting first at Toronto this year, and is allowed to be the best heifer in Canada.

Mr. G. Keith, of Elora, shows two yearling Shorthorn grades, Prince and Duke, both red. They have never been shown but are remarkably promis ing young steers.
Mr. Simon Beattie, of Markham, has two remarkably fine white ones in the show, Snowflake,

3-year-uld Shurthurn steer, and snowball, 3 -year-old Shorthorn steer. They have never been exhibited before, but when the prizes are awarded are sure of a place.

W'm. Donaldson, of South Zorra, one of Oxford's most prominent breeders, has five good ones in the show, Laly, white, Shorthorn cow 6 years old; Constance, roan, Shorthorn cow, two 2 -year old steers and a heifer. Mr. Donaldsọn also shows a shearling wether, Shropshire Doivn, weighing 222 lbs.

Win. Murray, Chesterfield, shows Lally of Elling: ton, Shorthurn cow, a vary fine one. He also exhibits an Oxfurd Duwn ewe.

Adam Muhr, Taristock, shows two, Tilda, 4 -yearold Shorthorn, and Barney, yearling Shorthorn steer.
M. \& W. Schell, Woodstock, show two 3 yearald and over, Shorthorn grades, Empress and Beauty. Buth of them secured prizes before.

Mr. W. Schell, Wuodstock, has on exhibition the 5 -year old Shorthurn grade Grand Duke, weighng 2,575.
Stephen Hall, of Washingtun, another prominent breeder of the county, ha, two 2 -year-old steers, Shorthorn grades, Dick and Harry, in the show. They are remarkably fine ones and will develua.

Nir. Hurd, of Hamilton, has his grade steer Hamilton, present.

Mr. J. E. Brethour, Burford, has his heavy yearling steer, Cherry Bounce, in the show.

Mr. John Kelly, Jr, Shakespeare, has eight of his fine sheep on exhibition. Mr. Rutherford, of Roseville, who took a great many prizes at the late Chicago Fat Stock Show, has eighteen. Mr. Geo. Denoon, of Milton, has twenty-two. E. \& A Stanford, of Steyning. Eng, have also present six imported sheep. The exhibitors in hogs are J. Featherston, Geo. Dennon, T. Lee and J. Rutherford.

Following are the weights of some of the principal cattle in the show:-Red Duke, weight 2,600 ; Daisy, 2,430 ; Prince, 1,400 ; Duke, 1,400 ; Snowflake, 2,060; Snowball, 1,695; Lily, 2,065; Constance, 1,695 ; Lally of Ellington, 1,760 ; Tilda, 2,095 ; Barney, 1,460; Grand Duke, 2,575; Empress, 1,475; Deauty, 1,415; Dick, 1,905 ; Harry, 1,870 ; Ranger, 2,235; Baron 2,275; Cora, 1,990 ; Louisa, 2,085; Elmira Boy, 1,790; Trolton, 1,215; Elmira Champion, 1,530; King, 1,930; Roan Warlaby, 1,350 ; Elmira, 1,530; Hamilton, 2,055 ; Cherry Bounce, 1,488 ; Red Rose, 1,505 .

The Warden, Col. Munro, formally opened the show at 2 o'clock yesterday afternoon.

The prize list will appear in our next issue.
The Messrs. Groff pronounce the arrangements of the present show as being ahead of those of former ones. The committee appear to have done their work well.

Many prominent gentlemen from a distance were present besides the exhibitors. Hon. Oliver Mowat and Hon. A. M. Ros; were unable to be present owing to pressure of government business.

Mr. Groff, Sr., father of Messrs. H. and I. Groff, expressed himself in flattering terms about Woodstock and the show on Thursday morning. They all say the sane.

Mr. Wade and his two assistants have been kept very busy taking entries and attending to the many wants of exhibitors.

Mr. Gibson, a prominent breeder from Ilderton, was present at the show yesterday.

A good bran mash is composed of two quarts of oatmeal, one of bran and half a pint of flaxseed. The oatmeal is put in a bucket, over which is placed the linseed and boiling water added, then the bran is put in and the mixture covered with a cloth and allowed to stand five hours when the whole is well stirred and fed.

## IURUNIU PULLTRY ANJ PECT $\triangle I O C K$ EXHIBITION.

There was a large attendance at the exhibition in St. Lawrence Hall, of the loronto loultry, Pigeon and Pet Stock Association. Judge, Mr. I. K. l'elch, of Natick, Mass. His method of judging is that known as the scoring system, the possible number of points being roo, from wheh deductions are made for defects and blemishes. The following score-card ior light lirahmas will give an idea of the division of the points :-Symmetry, to ; weight, I3; condition, 8 ; head, 5 ; comb, 8 ; wattes and earlobs, 5 ; neck, 10 ; back, 6 ; breast and body, 10 ; wings, 7 ; tail, 7 ; fluff, 5 ; legs and toes, 6 ; total, 100. The division of the points varies according to the pecularimes of the breeds. For mstance, in Lughorns wethint is not considered, and stze only scores a possible of 5 .

Among the awards posted up the most umportant was that of the $\$ 50$ challenge cup for the best blackbreasted red game cockerel, which was won by J. Armstrong, of North Toronto, his bird scormg 95 points. The next highest score for cockerels of the same vartety was made by H. P. Harrison, 49 King Street East, whose bird was marked at $94 \frac{1}{2}$. The highest scores among the games was made by a brown red pullet belonging to G. Goulding, of Parkdale, her total being $95 \frac{1}{2}$. She of course took first prize in her class. Mr. Goulding also took first for his brown red game cockerel, with $93 \frac{1}{2}$ points. In golden duckwing games, W. Barber, 'Toronto, took first prize for his pullet and cockerel, scores 93 and 91 respectively. G. Goulding took first premium for a silver duckwing cockerel, score $91 \frac{1}{2}$, and also for a pyle pullet, score 93. In light Brahmas the competition was very keen. J. N. Finch, Seaforth, took first for his cockerel, score 9 I ; and R. Large, Torento, for a pullet, score $92 \frac{1}{2}$. A. G. Willson, Seaforth, won the red ticket in dark Bralumas for old male birds, with a score of 88 , and for pullets, score $93 \frac{1}{2}$. F. Wixon, Homewood poultry yards, Ingersoll, scored 92 for his dark Brahma hen and took first place. He also took first for a white Leghorn cockerel, score 94, and for black Lerhorns, both cockerel and pullet. Mr. J. F. Wagner took first and second for rose-combed white Leghorns. H. G. Jackson, Toronto, won the principal honor for black Hamburg pullets, scoring 96 on the prize-winner, a high standard. I. F. Rice, of Whitby, took $9+\frac{1}{2}$ for a cockerel, same class, and got the red ticket. W. F. Banks, Toronto, scored $94 \frac{1}{2}$ for his black Spanish hen, and took first prize. His male bird was disqualified on account of the bird's sight being obscured by the abnormal devel opment of the white face. He took second prize with 94 points for another hen of the same variety, but the male biid in the same coop was also dis: qualified for imperfect sight.

A worse place for holding such an exhibition could not be chosen; at midday the light was so poor that it was impossible to see one half of the exhibits.

During the progress of the Fat Stock Show at Chicago the breeders of Cleveland Bay horses met together to form an organization. At an election of officers the following parties were chosen for the ensuing year :-President, Geo. E. Brown, Aurora, III.; Vice-Presidents, M. M. Fields, Cedar Falls, Ia., and W. A. Banks, Door Village, Ind.; Secretary, R. P. Stericker, Springfield, III.; Treasurer, George T. Van Norman, Aurora, Ill. Directors-E. W. Gilmore, Albany, Wis.; C. J. Yields, Cedar Falls, Ia.; I. S. Fitch, Oakwood, Ind.; Rebert Burgess, Winona, Ill.; Samuel Bell, Wooster, O. A committee was appointed to draft a constitution and by laws for the Association. Discussion was had upon the publication of a stud-book and the rules that should govern entries. It was realized by those present that a system of registry was a necessity.

## THE COSI OF POUITRL.

Garm and Garden.
live cents a pound will cover the expense of raising chicks to the age of three munths. That is for the feed, but "e must also consider that in order to hath and raise a broud of chicks, there is the value of the egs from which the chick is produced, the interest on cappital inn csted in quarters, tences, tic, and the habur of canng for the fowls. The larger the number of chick nised the smaller
 and labur is required for a harge number than for a smaller. In one lot of 3,000 chichs un a farm in New Jersey, a strict account of all the expenses developed the fact that while but fise cents was required for producing $\dot{i}$ - pound of poultry, the total cost for buildings, labor, feed, and interest, was nine cents. This sum may be safely estimated as the masimum cost of productng a aound of poultry, but it may be reducud or increase, in pro. portion to the number ramsed, the larger the number, as we stated before, the smaller the expense for each chick. The expense for foud will not be dimmished or inarcased, but the buldings, fences, and labor will fluctuate in value according to the number.

It has been estimated that the cust of the quarters amount to about une dollar per head, or, rather, that it requires about $\$ 10.00$ to build a house for ten fowls, and $\$ 100$ fur a a house for one hundred fowls, but it is apparent that the larger the house the cheaper the cost propurtionately, while so far as the labor is concerned, one can as easily feed one hundred fowls as ten, and also keep the quarters clean more economically as compared with the fewer number. Yet, in the face of these advantages in favor of the keeping of poultry in large numbers, the general result heretofore has been that the smaller the number the larger the profits, a result entircly at variance with the rules applying to all other industries. This can only be accoun:ed for on the supposition that the small nucks receive more attention than large ones, and it is probably the solution of the problem. Those who who have a few fowls only, are careful to feed them a variet, and the quarters are made as comfortable as possible, not a day passing by that some member of the family does not assist in caring for the fowls, while largei numbers are often overlooked, and many of the essential details neglected.

The cost, of cuorse, depends upon the labor, but with a small fluch there is a bestuwal of labor which is not valued, being performed by children and lanies as a source of ${ }^{\prime}$ pleasure, but which would be ronsidered as $\eta$ impurtant item in an account kept with a larse flock. That nine cents will cover all the cost is a fair estimate, and it leaves a large margin for proft if the chichs are hatched early and advantage be taken of high prices. Even if only i2 rents per pound be realized, the profit is $3.3^{1 / 3}$ per cent, which is much larger than may be expected from many other suurces.

## one Tholisand hens.

## poultry Journal.

This heading will catch the eye of hundreds o readers, who have been trying so hard, yes ' and for so long too, to find out whether it were profitable or even safe to breed fowls on a large scale. Well! The heading stands above an articleorecently appearing in the Poullry' Kecper, and the article itself is as follows:-

There are but very few places where large numbers of fowls are kept, and such enterprises should be well considered. A subscriber, Mr. Geo. D. Demaree, Madison, Indiana, now has 900 hens, which he keeps on three acres of ground In a letter to us he says:
"I have about goo hens on about three acres of ground, and in a house 8o by 24 feet; but I think
the house is somewhat too small. I expect to put in 300 more hens this fall. Do youl think if I would enlarge the yard ahout one-half acre, and build three additional houses, 50 by 24 feet each. It would then accomodate 1,200 hens?"
Mr. Demaree will have 230 feet (in length) of house room, 24 feet wide. We are interested in knowing how he kept his goo hens. Are they together, or divided mo locks? The width being ${ }_{2+}+$ feet, certanly gives a large space under coner, which is excellent for a winter arrangement. The 900 hens have already been kept in a house 30 by 24, or at the rate of over in hens to each running foot. As the total area on the floor is only 1,920 feet, each hen has had but a fraction over two square feet of room. They must have been very much crowded. It is surprising that so large a flock escaped disease. The three acres can be made to afford yard room, but the house room has been too small. 'i he three new houses, 50 by 24 feet, will give 3,000 feet more, which, with the 1,920 feei already built, gives 5,520 feet, or over $41 / 2$ square feet of room to each of the 1,200 hens, which is sufficient, provided Mr. Demaree can properly arrange the roosts, nests, etc., and so separate them as to keep them in good, flourishing condithon. We will be pleased to hear from Mr. Demaree again, as many of our readers are no doubt interested in his operations. We would be pleased if given all the minor details, and if our readers can give him any assistance we believe it will be cheerfully done.
We have concluded, by actual experiment. that in cold weather, in well ventulated buildings, if not too low-posted, where cleaned out often, and with great attention to the comfort of the birds, etc., etc., etc., according to fnowledge-one fowl to every two square feet of floor area, can be wintered in health. But we don't advise every one to try it, nor do we expect to learn where fowls became diseased by the use of too much room, unless they had all out doors. But keep on experimenting, and when you make a point, why, speak right out, and let us know about it.

## ORIGIN OF AMERICAN DOGS.

## A Pakkard, in Amencian Naturaisst.

The impression that the domestuc dog of the Old World has descended from wild species distunct from the wolf may be well founded, but in America the evidence tends to prove that the Eskimo and other domestic varieties of dugs wese domesticated by the aborigines and used by them long antertor to the discovery of the continent by the Europeans, the varieties in question ongmatung from the grey wolf or prairic wolf. First as to tine Eskimo dog. From the following extract from Frobisher it ap. pears evident that the Eskimo had the present breed of domestic dogs long anterior to the year 1577. Frobisher's account of the Eskimo themselves is, so far as we know, the first extant, and is full and characteristic. After describing the natives he goes on to say:-" They franke or keepe certaine dogs not much vnlike wolues, which they yoke togither, as we do oxen and horses, to a sled or traile; and so carry their necessaries over the yce and snow from place to place. as the captive, whom we haue, made perfect signcs. And when those dogs are not apt for the same vse: or when with hunger they are constrained for lack of other vituals, they eate them, so that they are as needful for them in ${ }^{\text {, }}$ respect of their b:gnesse as our oxen are for vs.".
Confirmatory of the theory of the pre-Columbin origin of the Indian dog may be cited the folbivith extract from Hakluyt's voyages regarding the Indian dogs seen on Cape Breton Island; p. 1,593:"Here divess of our men went on land upon the very cape, where, at their arrival they found the spittes of Oke of the savages which had roasted meate a little before. And as they viewed the
countrey they sawe divers beastes, and foules, as blacke foxes, decre, otters, great foules with red legges, pengwyns, and certain others. Thereupon nine or tenne of his fellows running right vp over the bushes with great agilitic and swiftness came towards vs with white staues in their hands like halfe pikes, and their dogges of colour blacke nut so bigge as a greyhounde followed them at the heeles; but wee retired vnto our boate without any hurt at all received." (The voyage of the ship) called the Marigold of M. Hill of Redrise vnto Cape Breton and beyond to the latitude of 44 degrees and a half, 1593 , written by Richard Fisher Master Hilles man of Redriffe. Hacluyt, II.., 239.)

It is probable this variety, the bones of which have been found by Dr. J. Wyman, in the shellheaps of Casco Bay, Maine.
"The presence of the bones of the dog might be accounted for on the score of its being a domesticated animal, but the fact that they were not only found mingled with those of the edible kinds, but, like them, were broken up, suggests the probability of their having been used as food. We have not seen it mentioned, however, by any of the earlier writers that such was the case along the coast, though it appears to have been otherwise with regard to some of the interior tribes, as the Hurons. With them, game being scarce, 'venison was a luxury found only at feasts, and dog-flesh was in high esteem.'"
It is possible that the Newfoundland dog was in digenous on that island, and also an offshoot of the gray wolf, allied to the Eskimo. In their "Newfoundland," Messrs. Hatton and Harvey say that there are few fine specimens of the world-renowned Newfoundland dog to be met with now on the island from which it derived its name. "The origin of this fine breed is lost in obscurity. It is doubtful whether the aborigines possessed the dog at all: and it is highly improbable that the Newfoundland dog is indigenous. Some happy crossing of breeds may have produced it here. The old settlers say that the ancient genuine breed consisted of a dog about 26 inches high, with black ticked body, gray muzzle, and gray or white stockinged legs, with deer claws behind." "It is now generally admitted that there are two distinct types of the Newfoundland dog, one considerably larger than the other, and reckoned as the true breed; the other being named the Labrador, or St. John's, or lesser Newfoundland. The latter is chiefly found in Labrador, and specimens are also to be met with in Newfoundland."
Regarding the dogs of the Mexican Indians, Nadaillac says in his "Prehistoric America""The European dog, our faithful companion, also apprears to have been a stranger to them. His place was very inadequately filled by the coyote, or prasrie wolf, which they kept in captuvity and had succeeded in taming to a certain extent."
In a recent visit to Mexico, not only along the railroads, but in the course of a stage ride of about 500 miles through provincial Mexico, from Saltillo to San Miguel, we were struck by the resemblance of the dogs to the coyote; there can be little doubt that they are the descendants of a race which sprang from the paydy:tamed coyote of the ancient Mexican Indians, ${ }^{2}$ 多At one village, Montezuma, we saw a hairless or g aribd dog, as we supposed it to be; similar dogs'are sometimes seen in the United States.
Finally, that the omestic dog and gray as well as she prairie wolf will hybridise has been well estaitihed. Dr. Coues has observed hybrids between the: t yote and domestic dog on the Upper MisSouri (see the Ameritan Naturalist, 1873, p. 385 ). To this we may add our own observations made at Fort Claggett, on the Upper Missouri, in June, 1877. We then were much struck by the woif-like appearance of the dogs about an encampment of Crow Indians, as well as the fort ; they were of the size and celor of the coyote, but less hairy.and with
a less bushy tail. They were much like those lately observed in Mevico, and I have never seen such dogs elsewhere. Their color was a whitish tawny, like that of the Eskimo dog.

Confirmatory of these observations is the following note by I. I. Wortman in the report of the Geological Survey of Indiana for 1884: -" lluring extended travel in Western United States, my experience has been the same as that recorded by In. Coues. It is by no means uncommon to find mongrel dogs among many of the Western Indian tribes, notably among Umatillas, Bannocks, Shoshones, Arupahoes, Crows, Sioux, which to one familiar with the color, physiognomy, and habits of the coyote, have every appearance of blood relationship, if not, in many cases, this animal itself in a state of semi-domestication. The free inter-breeding of these animals, with a perfectly fertile product, has been so often repeated to me by thoroughly relia. ble authorities, and whose opportunities for observation were ample, that I feel perfectly willing to accept Dr. Coues' statement."

To these statements may be added those of Mr. Milton B. Peirce, published in Forcst and Strcam for June 25 th, 1885 , as follows :-" Hybrid wolves have always been very common along our Western frontiers. I have seen several of them, sired both by dogs and wolves, and all I have seen resembled wolves rather than dogs." It is to be hoped that our mammalogists may collect and examine this subject, particularly the skulls and skins of numerous specimens, both of dogs and wolves, and the hybrids between them. Further observations are also needed as to the fertility of the hybrids.

CONTAGIOUS DISEASES IN STABLES.

## Spirit of the Farm.

When we consider for a moment the number of diseases of a contagious nature to which horses are su'ject, and the careless manner in which they are exposed to the same, it is astonishing that we do not have epidemics of this kind oftener with our horses. To fully appreciate the risk that is incurred, we need only visit the city or country towns on court days or Saturdays, and see the number of horses of all kinds and conditions that stand tied and almost touching each other in every available space about town, to say nothing of the numbers that are packed together in the public stables. The latter, as a rule, are much safer from coming in contact with disease than those outside, for no sensible stable-man would admit an animal inside of his stable that is affected with any kind of contagious disease if he knew it ; but it often happens tha. neither the owner of the horse nor the stableman is aware of the disease until it is too late to remedy the evil.

Contagious diseases of a most virulent character may be perpetuated for an indefinite length of time by feeding horses in stalls where the disease has existed. Of this kind we may mention glanders and Spanish itch especially. Either of those most fatal disorders may be conveyed to other horses by feeding in a stall where horses suffering with them have been kept. To destroy the virus, take a pint of sulphuric acid and put it in a bucket of water, and with an old mop wash all parts of the stall, especially the trough and manger, as well as the sides of the stall. Then put a few pounds of stick sulphur in an old iron pot, and, stopping the stable as well as possible, burn it, so as to fumigate the stable thoroughly, taking due precautions against fire. It is a good plan to set the pot in a tub of water; then whitewash with lime and carbolic acid. This will protect them thoroughly.

The Shorthorn ccw Thorndale Rose 24th, for which Mr. H. Y. Attrill of Goderich, Ont., paid 500gs. at the Audley End public sale, June 26 th, and her heifer calf, has reached the stock farm of her owner.

## BONES DISSOLVED WITH ASHES.

Thomas D. Baird, Greenville, Ky., in Farm and Garden.
In dissolving bones with ashes, there are several thiugs to be considered to prove successful. The ashes must be good; those of oak and hickory I find the best. Some say that wood grown on low land will not make soap, consequently will not dissolve bones. As I have always burned wood from off ridge land, I cannot answor for this. The ashes must be kept moist, just so they will not drain. They should be kept from freezing. If suffered to freeze, the process ceases. The smaller the bones the quicker they will dissolve.

This is the way I have managed my bones for the last two years. As fast as ashes can be had, they are put in barrels, the bottom is covered with about six inches deep in ashes, then a layer of bones, then a layer of ashes, then a layer of bones, and so on, until nearly full, and then finished with a laver of ashes. I use two-thirds ashes to one of bone. The ashes are kept wet all the time with soap-suds or chamber lye. When one vessel is filled, I then put in another until I have all the bones used. If I still have ashes, they are barrelled avay until near spring, then they are put in a hopper as if used in making soap. When I wish to use the bones, and I find them not sufficiently dissolved, I put ashes and bones in a large kettle; the ashes in the hopper are leached and the lye put on the bones and ashes, and the whole mass boiled until the bones are entirely consumed. The mass is now in a doughy state; this is mixed with loam enough to make it dry as wanted. It is now ready for use.

When lye is not to be had, this mass is boiled with water, but it is not so good and takes longer to dissolve the bones.

I have heard it said that caustic lime would dissolve bones as well as wood-ashes, but I have not tricd it, and cannot speak from experience.

## ADVANTAGES OF UNDERDRAINING.

It prevents drought.
It fur ishes an increased supply of atmospheric fertilizers.

It warms the lower portions of the soil.
It accelerates the disintegration of the mineral matters in the soil.

It causes a more even distribution of nutritious matters among those parts of the soil traversed by roots.

It proves the mechanical texture of soil.
It causes the poisonous excrementitious matters of plants tc be carried out of reach of their roots.

It prevents the grasses from running out.
It enables the surface soil to be deepened by removing excess of water.

It renders soil earlier in the spring.
It prevents the throwing out of grain in winter.
it allows works to be done sooner after rains.
It keeps off the effects of culd weather longer in the fall.

It prevents the formation of acetic and cther acids, which induce the growth of sorrel and other weeds.

It prevents, in a great measure, the evaporation of water, and the consequent abstraction of heat from the soil.

It admits fresh quantities of water from rains, etc., which are always more or less imbued with the fertileing gases of the atmosphere, to be deposited among the absorbent parts of soil, and given up to the necessities of plants.

It prevents the formation of so hard a crust on the surface of the soil as is customary on heavy lands.

It prevents in a great measure grass and winter gravery being winter-killed.

## SILOING FIELD CORN.

Neu England Farmer.
When the silo excitement first began to rage in this country, under the teachings of Ir. Wailey and others, it was thought necessary to grow corn of some immense variety specially for ensilage, and "ensilage orr" to mean corn grown for fodder exclusively. Some of the conservative farmers have objected to the silo system, because they have found that where they have devoted large space to the growth of fodder corn, they have sadly missed the grain which was formerly raised under the old system.

Mr. Whitney, of Williston, Vt., after trying ensilage corn and field corn in comparison, decided that the field corn must not be given up. The farmers near the canning establishments have considered themselves specially favored, because they could sell the ears when in milk, and then have the fodder left in the very best condition for ensilage.

Mr. N. B Douglas, of Sherburn, has gained a point the present season by successfully curing common field corn, and getting the fodder into the silo while in its green state. He picks the ears when scarcely past the milk, or just as the grain begins to glaze, and throws them in small heaps of a bushel or less in rows through the field, leaving the husks on. The fodder is then cut and stored in the silo just as if grown specially for that purpose. The ears are left in the field to cure till dry enough to husk and store in narrow cribs tuilt in the open air. After a rain the heaps are sometimes stirred a little to aid the curing. This can be done quite rapidly with a fork. A portion of the corn was stored in the husks while yet green, in unused outbuildings, being laid about a foot deep on the floors, but it did not cure nearly as rapidly or as well as that left in the field where sun and air had full access to it.

Mr. Douglas is much pleased with his experiment, and thinks this is one of the last silo questions to be solved. He raised 700 baskets of ears on seven acres, and estimates 50 tons of fodder in the silo.

Putting the fodder in the silo saves all the labor of stocking, with the advantage of being at once safely stored and out of the way. The silo not being filled by the corn some forty tons of apple pomace from a cider mill has been recently put upon the top, both for weight and to be used as ensilage in the winter, pomace being found to be an excellent and cheap cattle food for milch cows.

Mr. Douglas is cultivating forty five acres, and has fodder enough on hand to winter fifty head of cattle. He will sell considerable of his best hay at $\$ 20$ or more per ton, and use the proceeds for buying cotton seed meal or other grain to use with his cheaper fodder materials.

## CATTLE IN SCOTLAND.

The Aberdeen Free Press gives a table which shows the remarkable fall in the prices of Scotch Polled cattle sinc $=1882$, in comparison with Shorthorns, which have been steady in the north of Scotland. The tables are:-

|  | Number. | Average. | Tota!. |
| :---: | :---: | :---: | :---: |
| 18S2-Polled......... | .....34 | \$314 | \$107,292 |
| Shorthorns... | .. 547 | 131 | 72,043 |
| 1883-Polled..... | ... 242 | 242 | 58,590 |
| Shorthorns. | - 481 | 146 | 70,489 |
| 1884-Polled . ..... | ...773 | 183 | 141,637 |
| Shorthorns.... |  | 137 | 108,249 |
| 1885-Polled....... | .... 885 | 128 | 113,740 |
| Shorthorns.... | .... 720 | 122 | 88,322 |

It will be seen that the numbers of cattle offered have increased year by year, but that this increase in Shorthorns has not affected the prices, while in Polled the reverse is the case. In 1885,885 cattle only realized $\$ 6,500$ more than 341 did in 1882 .

## HORNIIES (:ITMIK

Southern live hinh Jumbat.
There ate many reasons why horns should be bred out of catle intended for beef. The main reason is owing to the wounds inflicted one upon another when closely penned or crowded in cars and upon steamboats on their way to market. It is also argued that horms are useless appendages and have no marketable value. In cattle bred wholly or partially for ormamental purposes, it would detract fiom their beanty to do away with their horns, as in the case of the Jerses. The Jersey deprived of its horns would lose half its attractiveness to the cye, and might be likened to a sheep shorn of ios wool but in fattle raised sclely for luef purposes and nothing else, and were beauty has no practical value, we thmk a hornless breed preferable. This subject is now attracting comment through the agricultural press both here in America and in Europe. J. J. Mechi, the famous scientific farmer of Creat britain, has the following to say on the subject:-
"I hate cruelty, but it is real humanity to remove the herns of catte, and at the cost of tempurary sufferng to secure to them a peaceful enjoyment of the rest of therr lives. Those who have seen the constant fear and disturbance to which horned cattle are exposed in a limited space, such as a covered or open farm-gard, and the injuries millicted by horns, must come to the conclusion, that without horns the animals can feed and rest in peace-with horns, much of the farmer's profit must disappear."

One of our contemporaries advocates the dishorning of calves when three or four months old, claiming that the cruelity (?) of such a practice is more than coun:-rbalanced by the good results to be acheved. In ingland, it is stated, a heavy pair of shears are used for the above purpose.

## gillioway catcle

## Englich I ine Stuck Journal.

A well-directed attempt is being made to introduce Galloway cattle into Canada. Mr. James Biggar, of (irange Farm, Kirkcudbright, who was sent as a delegate from the tenant farmers in that district in 1879 , to report on the Canadian NorthWest as a field for setulement, is one of the most promment breeders of this class of cattle. He has of late been using his best endeavors to bring it into higher favor in the lomumon in competition with the more fashionable Polled Aberdeen-Angus cattle. With a view of furthering the interests of Galloway breeders, Mr. Buggar has visted the Dominion in the course of the past :titumn, and as the result of this visit he has wathin the past few days shapped some 86 head of catle to Quebec by the Dominion Line. The rival claims of these two black hornless breeds of catle have, says the Cana. dian Gazette, been very freely and fully discussed in both Einglish and American agricultural papers. Although apparently the Galloway cattle are very hardy and well adapted for the ranches of the North-West, the Polled Aberdeens have gained a firm footing in the Dominion, largely in consequence of the importations n. de by the Hon. J. H. Pope, lately Minister of Agriculture, and by the Hon. M. H Cochrane, and other prominent stock. breeders. The gereral impression in Canada, indeed, says our contemporary, is that the Polled Aberdeens mature at least a year earlier than the Galloways, and breeders both here and on the cther side-of the Allantic will await with some interest the results of the test to which the relative merits of the two breeds will now be put in the Dominion. We may add that Sir Charles Tupper has a small but valuable herd of Polled Aberdeens on his farm in Nova Scotia.

IRANSFERS OF ITHOROU(HHIBRED S'IOCK.
dineriann Berkshire Record.
Duchess XXVI., 12925. N. H. Gentry, Sedalia, Mo., to Newton, Bird © Son, Avenue City, Mo. Hoperul Duchess, 14552 N. II. Gentry to Geo. Hibler, Hume, Mo.
Sovereign Duke XiX., ${ }^{14555 .}$ N. H. (ientry to Cass \& Burns, Buffalo Hart, 111.
Sovereign Duke XX., ${ }^{14562 .}$ N. H. Gentry to $O$. K. Mills, Pinckneyville, Ill.

Royal Derby, 4177 . T. R. Procter, Utica, N. Y., to W. 'T. Miller, Bowling Green, Ky.

Bob Tombs, 13457 and Miss Crown, 13693 . W. T. Miller, Bowling Green, Ky.. to 'T. R. Procter. I.ee Bowling, ${ }^{13691}$, and Young Surprise, ${ }^{14597}$. W. 'T. Miller to Jas. Rogers, Ir., Ninety Six, S. C. Braw Lassie VI., 14599. D. W. Smith, Bates, Ill., to W. B. Chapman, Stirrup Grove, Ill.
Lowland Mary III., $1+600$. D. W. Smith to W. F. Nevins, Modesta, IIl.
Royal Prinre, ma37. C. Hiblard \& Son, Bennington, Mich., to J. Cummings, West Le Roy, Mich. Sallie R., 12123. John 'T. Wrinkle, Plattsburg, Mo. to Jas. H. Tinsley, Smithville, Mo.
Jessie Hopeful, 13225 . A. G. Epler, Virginia, Ill, to W. L. Propst, Plattsmouth, Neb.

The break up of L.ord Lovelace's stud is much to be deprecated, in the interests of the breeding world, for it had been formed with great judgment, as may be inferred from the fact that six mares purchased when the stud was started for $3,800 \mathrm{gs}$. wee sold on Saturday for $3,200 \mathrm{gs}$. This represents far less than what may be regarded as the average depreciation in value of brood mares, and considering that their yearlings have sold well in the interval, they must have yielded a handsome profit to Lord Lovelace, who started this stud when the neighboring one at Cobham, in which he was interested, had to be sold off. He purchased, together with these, among other mares, the stallion Blair Athol, whose sudden death soon afterwards was a great loss both to Lord Lovelace and breeders generally. Still, some good horses have been bred at the Pound Stud during its too briei existence, and a total of 6,690 gs. for 25 colts, including 17 mares, seven foals and a yearling, is equivalent to the very respectable average of 267 gs . each.-Lon. don Live Stock fournal.

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F. A. CAMPBELL, V. S., EDITOR.
[All communications desired to be answered through this column should be addresed to the "Veterinary Edior, Cayamtan Breedere, curner of Front and Church Sirects, Toronto."]

## ANSWERS TO CORRESPONDENTS.

r. A. B.-A three.year-old filly of mine turned out in the hop-yard got frightened at something, and ran with such great force against a slack wire used for the hop-vines to run on, that it lifted her right off her feet and threw her on her rump. She was not able to get up, so we had to draw her into the stable on a stoneboat, and she has lain there ever since-about three weeks. Her appetite is not very good, and she is getting thinner every day, and the side she lies on is all raw from lying on it. She has no power in her hind parts. A neiuhbor of mine, who is somewhat of a horse-doctor, has been looking after her, and he says she has sprained the muscles of her back. If you will tell me what the matter is and what I can do for her, you will greatly oblige. ANS. - From the nature of the accident and the symptoms, I am inclined to think your filly has fractured one or more of the bones of her back.
'The most humane thing to do would be to put her out of her misery by a bullet, or a blow on the head with an axe.
J. R.-I wish your opinion on a horse of mine. He is a very promising four-year-old. Last spring his right eye was very much swollen and inflamed. I bathed it with salt and water and he got over it in a few days, but his eye is bad again, much worse than it was in the spring, and a film of a yellowish tinge has come over it. Will he go blind? Can I do anything to save his eye? Ans. - Your colt has got specific or periodic ophthalmia. It might be caused by kecping him in a badly drained and illventilated stable, or it may be hereditary. Give a mild cathartic, such as a pint of linseed oil; bathe the eye twice a day with hot water, and put in between the lids, after each bathing, a few drops of the following:-Atropine, two grains; water, two ounces. Give internally, night and morning, a teaspoonful of the tincture of belladenna. Keep the stable dark and well ventilated, and feed on soft food, such as bran mashes, carrots.
W. J. T.--Unfortunately we have no regular veterinary surgeon in our neighborhood, and when any of our horses get sick we generally have to treat our own horses. I have a four-year-old stallion colt that is very well bred, and showed signs of trotting fast. I broke him to harness last spring, but he hurt his leg, so I let him run this summer and have done nothing with him since. A large lump, about twice the size of a goose egg, has come on his breast, just where the bottom of the collar comes, and it keeps getting larger by degrees. I have rubbed on different oils and liniments till I lave taken all the hair off his breast. Can you tell me what it is and what to do to remove it? Ans. -It is a tumour of some kind, probably an aneurism of one of the arteries of the chest. No matter what it is, you will have to have it cut out, and to have it done properly take him to a good qualified veterinary surgeon.
G. W.-Will you kindly give me your opinion on the following cases:-ist. I have a well bred cow that has a large hard lump on her lower jaw; it is getting larger every day. Is there any cure for it? 2nd. Ahorse that has a very offensive discharge from his left nostril. The smell that comes from it is so bad that no one likes to go near him. My neighbors say that he has got the glanders. ANS.-Ist. Your cow has got ostcosarcoma. You might try a blister, composed of biniodide of mercury, two drachms; lard or vasaline, two ounces; clip the hair off, and rub on a little twice a week. If that does not stop the growth you had better fatten and kill her. 2:.1. The horse has not got glanders. The discharge is caused by a decayed molar, or the bones of the upper jaw are injured; it is most likely the former. Consult a veterinary surgeon, and have the offending tooth extracted.

## litive Stock difinured eltukets.

## Office of the Canadian Breeder

and Agricultural Review. Toronto, Dec. 16th, 1885.
The better tone noted in the British live stock trade for several weeks back has been more than sustained since the date of our last cables, and today cattle are cabled half a cent higher than on last Monday, with the demand weak, however, at the advance. The cold weather prevailing for the past week has materially strengthened the meat markets, which are cabled considerably higher, but the sudden change to mild weather to day may check the improvement. The advance, however, has helped
the trade in live cattle. Receipts of Canadians have been light and have met a good steady demand at higher prices. The supplies from other quarters, however, have been much larger ; in fact, are actually heavy, which imparted an unsteady tone to the markets to day, and caused buyers to hold off. The offerings at Liverpool, Monday, were in excess of demand, which was weak and uncertain, owing to the mild weather and the larger receipts, despite which the advance was maimained, and prime Canadian steers were quoted at $13 \%$ c. -an advance of $31 / 2$ c. per Ib. since October 26 . Dressed beef in Liverpool is cabled higher at $5 \frac{1}{4} \mathrm{~d}$. Another Liverpool cable quotes refrigerated beef at $61 / 4 \mathrm{~d}$. for hindquarters, and $41 / 2 \mathrm{~d}$. for forequarters. A London cable quotes refrigerated beef higher at 4s. 8d. for hindquarters, and 3 s. 2d. for foreguarters, per 8 lbs . by the carcass.

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

## Catte-

Prime Canadian steers
Fair to choice grades
Poor to medium....
Inferior and bulls.
\$c.

## TORONTO MARKEI

Keceipts of hive stock this week have been more liberal. Yesterday about 50 loads were offered; nearly all were but chers' cattle. There was, !owever, quite enough small stock to supply the demand. Trade on the whole was rather sluggish, bujers and sellers being apart in their views. Still a considerable amount of business was transacted, although everything was not cleared out.

Catile.-Yesterday shipping cattle were nominal ; among the offerings were a few that would have done for export, but buyers are waiting until the latter part of this or next week before buying for the next steamer. Butchers' cattle were in liberal supply, they formed the bulk of the offer ings; while there were a good many choice heifers and steers offered, there was also a large number of inferior animals. The latter might sell well enough on ordinary necasions, but when everyone is looking for Christmas cattle, other grades are left in the shade. This being the case yesterday many commun cattle were unsold; good Christmas stock sold fairly well at $41 / 2$ to 5 c . per Ib . ; fairish beasts averaged $\ddagger c$. and common from 3 to $31 / 2 \mathrm{c}$; ; many of the loads were broken into and sold in small lots. The lest sale reported broken into and sold in smaners.
was three choice heifers averaging $1,450 \mathrm{Hs}$., at $\$ 75.50$. Among the other sales were 20 averaging 1,000 ibs., at $\$ 38$ each ; 22 do. $1,175 \mathrm{lbs} .$, at $\$ 51$; 14 do. 1.350 , at $\$ 6 S$; 38 do. 975 lbs ., at $\$ 35$; 21 do. $1,150 \mathrm{lbs}$, at $\$ 46 ; 15$ do. 1,100 lls., at $\$ 48 ; 22$ do. $1,150 \mathrm{lbs}$, at $\$ 54.50 ; \$$ do. 1,150 lus., at $\$ 53 ; 22$ do 900 lbs., at $\$ 27 ; 14$ do. 1,100 ibs. at 4c. per ilb. ; 20 do. 1,200 libs., at 45 sc . per lb.; 13 do. $4,150 \mathrm{lls}$. , at 43 i ic. per lb. ; 21 do. 1,050 lis , at 5 c . per lb.; 16 do. $1,300 \mathrm{lbs}$., at 5 c . Mrich cows were quiet, only a few being offered; sales were made at $\$ 36$ to $\$ 48$ per head, with two springers at $\$ 35$ each. A few feeders wer picked out, but the demand for them was only nominal.
Suerer.- Were in fairly liberal supply for this time of the year ; exports were in fair denmand and steady at 31/ to $3 \% \mathrm{sc}$. per 1 b , there being sales at these figures; on Saturday a load sold at $31 / 2 \mathrm{c}$. A good many butchers' sheep sold in lots uith lambs and are quoted below.
Lambs.-Supply liberal and quite equal to the demand, which, excepting for extra choice, is limited; these last were scarce; lest picked were worth alout $\$ 3.75$ per head ; about the best sale was 114 head, averaging 85 lbs. each, at $\$ 3.50$ per head : a bunch of culls sold ai $\$ 2.25$ each, the average weigh. being about 50 lbs ; a mixed bunch composed of 95 sheep and lambs sold at $\$ 3.371 / 2$, and a similar posed numbering 93 head at $\$ 3.50$.
Hocs. - Did not offer as freely as a week ago ; however, they found a good steady market; a large bunch of light, averaping 180 lbs., sold at $\$ 4.30$ per cewt., 3 bunches of mixed at 4 c . and : of heavy at $33 / 4 \mathrm{c}$.; stores were scarce and wanted at 4 to $4^{1 / 4} \mathrm{c}$. per 1 lb .
Poultry, -Quiet ; turkeys firm at gc. : gecse unchanged at 6c. per lb.
Qnotations are:
Cattle, export, 1,200 lhs. and upwards, heifers and steers, choice .... .....
Mixed...
"............
" Butchers' chnice Christinas. ...
" ${ }^{\text {" }}$ " ood....................
inferior to commun.


## Shecp, export, choice. "inferior and ramil <br> 314 to $3 / \frac{1}{2}$ per 11 . <br> Butchers' per head <br> $\$ 2.50$ to $\$ 3.50$ <br> I ambs, choice, per heal. $\$ 3.25$ to $\$ 3.75$  <br> Calve store to $43 / 8$ to $4 / 4$ <br> Calves, per head, choicc..... ............ $\$ 5.00$ to $\$ 3.00$ $\$ 2.00$ upwards.

The recripts of live stock at the Western market here for the week ending last Saturday, with comparisons, were as follows:

|  | Catte. | Shecp and I ambs. | Ilogs |
| :---: | :---: | :---: | :---: |
| Weck ending Dec. $12 . . . . . .$. | 1,059 | t,291 | 837 |
| Weeh ending IJec. 5. .... ... | 1,153 | 1,759 | 529 |
| Cor. week is84 ........... .... | 681 | 619 | 306 |
| Cor. week 1883 ...... ........ | 929 | 273 | 1,059 |
| Total to date. | 55,770 | 62.500 | 18,001 |
| To same date 1884 | 40,719 | 59,186 | 13,707 |
| To same date 1893 | 34,149 | 48,176 | 10,252 |

## MOXTKEAI.

Dec. 14. -The trade in export catle continues light, and the market consequently quiet, wath little enuuiry. I'rame leeves may be quoted at $4 / 1 / 2 \mathrm{c}$. per lb. live weight, against 5c. a year ago. The first arrivals of store-fed catule were offered this morning, and a few were tahen by the butchers to make Christimas beef at $4 / 2$ to 5 c . per llb. There was a goud demand fur Luchats cathle, of which ufenugs were lair, with sales at 3 to 4 c ., as to quality. Receipts of sheep were larger, and there was a good trade done at higher prices, some round lots being taken at $3 \% \mathrm{c}$. per 1 lb . There was a geod demand for live hogs, prices of which were a shade higher at $4 \frac{3}{4} \mathrm{c}$., owing to the small supply. Calucs sold at $\$ 4$ to $\$ 8$ each, as to quality.

## EAST BUFFALO.

Dec. 14.-Catte-To-day fresh arrsvals of sale catte numbered 170 loads, while 16 held over from Saturday. Market ruled very dull and slow, except for a few droves of fancy Christmas and export steers, which sold at about former priees, but for all other kinds from 1,425 llss. average, down, values are fully 25 c . per cwt. lower than the opening prices of last week, or toc. lower than at the close last Saturday. Butchers' stock, and fair to mediam stecrs, are altogether in too likeral supply, and from an early hour the market was at a standstill on these grades, while old cows, thin heifers, half-fat oxen, etc., were the worst of the season, selling all the way from $\$ 2$ to $\$ 2.75$ per cwt., and some old cows and light fairish heifers at $\$ 16$ to $\$ 23$ per head. Stockers bere in slight supply, only $30: 4$ loads lseing here from Canada and very few tom the West. But the supply was fully equal to the demand, only one Pemnsylvania buyer and a few State feeders being in want of this kind, which sold at $\$ 2.50$ to $\$ 3$; good yearlings, $\$ 2.25$ to $\$ 240$; fat bulls dill at $\$ 2.40$ to $\$ 3$, an occasional fancy one bringing more ; stock bulls slow at sale, $\$ 2$ to $\$ 2.30$; milch cows, slow at a decline noted last weeh ; sales at $\$ 30$ to $\$ 48$ per head for good to choice; Canadas sold out at $\$ 2.25$ to $\$ 3.50$, the latter for good stockers averaging 1,000 liss. Sheep and lambs -Arrivals of sale sheep liberal, although not heavy : about 85 loads, of which 17 loads were Canada lambs; market barely steady ; sales better than for several days past; regular buyers not doing anything to speak of, and the outlook was no better than for some time past; fair to good 80 to wilb. butchers' sheep at $\$ 2.50$ to $\$ 3$; choice, 95 to 100 ths., $\$ 3.15$ to $\$ 3.35$; choice feeding wethers, 90 to 100 lbs , $\$ 3.50$ to $\$ 4$; extra, 1 to to 120 lbs., $\$ 4$. 10 to $\$ 4.40$; while one drove of extra fancy Christmas sheep, laken for the Philadelphia trade, brought $\$ 4.75$. Lambs were a shade stronger for good ones; common dull as ever; Western common to choice, $\$ 3$ to $\$ 5$; Canada do., $\$ 5$ to $\$ 5.50$; sales included two cars Canada lambs, averaging 86 libs., at $\$ 5.50$; one car of ewes, avcraging 112 lbs., at $\$ 3.25$; one car of shecp, averaging 141 lbs., at $\$ 3.50$; market closed with a good many held over.

## PRODUCE.

There was a slight improvement in this market since our last, in the wheat line; but this must be regarded as very sunall and short lived. Prices, however, have been generally fairly well maintained for grain, and there has been no inclination manifested to push sales of anything. Stocks in store have been on the increase and stood on
Monday morning as follows: Flour, 500 barrels; fall Monday morning as follows: Flour, 500 barrels; fall
wheat, 126,336 bu.; spring wheat, 72,128 bu.; mixed wheat, 126,336 bu. ; spring wheat, 72,128 bu. ; mixed
wheat, 2,994 bu. ; oats, nil ; barley, 121,314 bu. ; peas, 14,Olt bu.; ;ye, nil; corn, 8,985 bu. Wheat in transit for England had increaset on the roth inst. 10 1,750,000 quarters, against $1,600,000$ in the freceding week. Outside markets have been generally weak. In the States the visible supply of wheat stood at 58, r 49,000 bushels on the 12th inst., against
$36,995,000$ in the preceding week.

HRIC:Y AT I.IVERMOOL ON DATRS indicated.

|  | Dec. 8 . | Dec. 15. |
| :---: | :---: | :---: |
| Flour | os. al. | os. ox. |
| R. Whent. | 7s. 4 d. | 75. 3d. |
| 12. Winter | 7s. 4d. | 7s. 3d. |
| No. 1 Cal. | 7s. 4 d. | 7s. 4d. |
| No. 2 Cal | 7s. id. | 75. od. |
| Corn. | 45. $101 / 2 \mathrm{~d}$. | 45. 93d. |
| Barley. ....... | os. ord. | os. od. |
| Oats | os. od. | os. al. |
| Pcas.. | 5s. 7 d. | 5s. 6d. |
| Pork......... | 50s. od. | 49 s . od. |
| 1 ard... | 32s. od. | 325. od. |
| Bacon ....... .... .. .. ......... .... | 30s. of. | 30s. od. |
| Tallow... | 26s. 6 d. | 26s. 3d. |
| Cheese | 45s. orl. | 45s. Gd. |

Flouk. -The chronw dulness and inactivity of the last few weehs has been maintaned; scarcely any demand has been heard from any quarter. Superior extra has been offered all week at $\$ 3.75$ but no sales reported ; extra sold at equal to $\$ 3.65$ last week and since then offered at same price with no demiand.
Brasi.--Scarce and firm at about \$1t.50.
O.armeas., -Cars quiet and much as before at $\$ 3.75$ to $\$ 3.85$ for average and up to $\$ 4$ for choice ; small lots $\$ 4$ to $\$ 4.25$.
Whest.-There was some slight show of firmness displayed towards the close of the week, when No. 2 fall sold at $55 \%$ c. f.o.c. and for May delivery at $92^{2} 4$ and $92 \% \mathrm{c}$., and red winter changed hands at 87c. f.o.c., but this continued only a couple of days, and this week No. 2 fall has been offered at S6c. with 83c. the best bid for it at the close. Spring has seenied not wanted all through ; No. 2 was last week offered at 87c. with nu but is and at close seemed nommal at about $8_{+}$to $S_{5 c} \mathrm{c}$. if presied to a sale. On street fall sold at $S_{\ddagger}$ to 85c.; spring at So to 85 c . and goose at 73 to 76 c . at cluse.
Oats. - Generally steady and in good demand but with a wide range of prices as well as of quatitues Cars sold last week at 33 and 34 c . on track and bagged to arrive at $341 / \mathrm{c}$.; this week cars on track sold at 33 and 34 c . and to arriveat $33,5 \mathrm{c}_{1}$; while milling oats brought 35 c . Street prices closed al 33 to 35c.
Bartey. - The fec.ing, save in the higher grades, has been easier ; and any sales made generally on p.t. or of ungraded lots. No. 3 has been offered nearly all week at 58 c . without buyers. At close uninspected, about equal to No. 3 choice, sold at 64 c . on track; and some more, probably somelhing below extra No. 3 , at 63 c . on track but 711 cc . was paid for this grade last week; No. 2 fairly steady at 8o to 8tc. and No. 1 scarce and firm $w \cdot$ th $921 / 2 c$. f.o.b. paid at close. On strect prices have stood as before at 60 io g2c.

Peas.-Values of car lots unchanged at about Gic.; street receipts have sold ot 60 to 62 c . but total trade small.
RyE.-Quiet at from 60 to $62 c$.
Hay. - Pressed has continued quiet with prices easy at $\$ 12$ to $\$ 13$. Market receipts have varied but all taken at fairly steady prices, closing at $\$ 10$ to $\$ 13$ for clover and $\$ 14$ $10 \$ 15$ for timoths.

STRAW. - Reccipts increased but all wanted ; prices steady at $\$ 8$ to $\$ 8.50$ for loose and $\$ 12$ to $\$ 13 . j 0$ for sheaf.

Potatoes. - Cars have been moving, but at rather unsettled prices, sales being reported at 47 and $50 c$. on track or equal to these prices. Street receipts have sold much as before at 601065 c .
Arples. - No car lots moving; street reccipts fairly good and prices ranging from $\$ 1.25$ for low grade to $\$ 1.75$ for choice with a very few touching $\$ 2$.

Poutrxy.-Abundant last week; since then rather searce; prices closing firm at 9 to IIc. per 1 tb . for turkeys and 6 to $61 / 2 \mathrm{c}$. for geese, with ducks worth 50 to 65 c . and fowl 25 to 40c. per pair.
toronto marlegts.


## PROVISIONS

Butrer.-There h.is been one :mall purchase made for shipment at prices manging from 10 to 12 c ., the latter being for dairy with white thrown out. l But with thiseseeption the situation has remained as before, really choice limm at 15 to toc. and all else neglected and accumalating. Rolls more almbuant and easier ; one mined lot of aloout two tons sold at itc. but good to choice steady at 13 to 15 c . On street pound rolls have brought 22 (1) $25 c$. and lul): and crocks it to 17c. for dairs:
Eicgs.-Substantially unchanged at 20c. for round losts of fresh and 16 c . for round lots of picklerl. On strect 22 to 20 c . has been paid for fresh to new-laid.
Curese.-Seems quict at 9 to 9\%c. for choice in small lots and $6 \$$ to 8 c . for inferior to medium.
pork. --Small lots have sold quiet but firm at $\$ 13$
bacon:-The demand has been slack and the movement very limited. Long clear in case lots 7f. with Cumberland nominal. Kolls from $\$^{3}{ }_{4}^{\prime}$ to $9 \frac{1}{2}$ c. apd bellies frum $10 \%$ to itc. with loneless $11 \%$ c.; with hogs firm meat seems likely to be the same.
Hams.-Much as before at 11 to 11 Ke. for smoked, the former figure leing for lots of not less than tifty.
Lakb.一ill the ne:wly made offering has continued to go off readily at 9 to $9 \%$. for pails, these being the only sort offered.
Hogs.-liirm with all offered readily taken at $\$ 5.37$ to $\$ 5.50$ for rail luts; and $\$ 5.50$ to $\$ 6.25$ fer farmers' lots, few of the latter going over $\$ 6$.
Salat.-No liverpool coarse on hand and cars to arrive held at 65c.; fine selling slowly at $\$ 1.45$ and dairy in 50 ll . bags at 4oc. Canadian inactive at Soc. for car lots and Sjc. for small lots.
Dried Arphess.- Trade lots dull at about 4 c.: dealers selling at $4 \frac{1}{6}$ to 5 c ., and for exaporated at $S \% \mathrm{c}$.
White BenNs.-Scarce and wanted at \$1.15 to \$1.20 for hand-picked in lots: with dealers selling at $\$ 1.25$ to $\$ 135$.
Hois. - Nothing doing beyond a few single lanles uccasion ally at 7 to 10e.: irade lots nether offered nor wanted.

Tokntro Makkpis.


HIDES, SKINS AND WOOL.
Himes.-Green unchanged in price; all offered, and a few more, wanted; cured have been in active demand and searec, with the previous advance fully maintained; sales at $9 \frac{1}{2} \mathrm{c}$., one of them being a car lot.

Calfskiss. - Still inactive and nominally unchanged
Surebisins.- Prices of city green have risen five cents and $\$ 1$ is now paid for the best of them: country lots have gang. ed from 75 to $90 c$., and all of all sorts offered have found ready sale.

Woot. --There has been so litte fecere obtainable that it may be regarded as almust nominal; values, however, firm, at 21 to $211 / 2 \mathrm{c}$. for choice and iS to 19 c . for mixed lots; pulled in good demand with wales at 22 to 23 c . (or super; at 2610 27c. for evira and is to 19c. for combing. The demand from the mills steady.
T.at.o.ow, -lixecedingly dull for all sorts; prices unchanged. Ilides and Skins -

## No. 1 steers

and No. I
Cows, No. inspected...
Cured and
Calfskins, green.......
$\qquad$ ... \$009 $3 / 2$ to $\$ 00915$ $0071 / 2100051 / 2$

Calfskins, green. - 093

Shecpskins
I.ambskins

Pelts ............
..... 011
013 013 13
065

Tallow, rough 000


## TII: HOKSE MARKET.

## rokonto.

The demand for horses of all classes is on the decrease as is usual at this time of the year. Only about twenty horses were sold at Grand's on Tuesday, and all were cheap worhers. Priecs ranged from $\$ 50$ to $\$ 125$ each. A good many first-class drivers are being offered, but no special sales have been reported.

## 10:TON.

Sales during the weck have been light, while receipts are fully up to the average. The arrivals are largely western horses. Sales on Saturday were mostly at $\$ 100$ to $\$ 200$ per head. Gco. C. IIooker sold one fancy pair of well-matched carriage grejs, 16 hands high, weighing 2,100lls., of exira style, at $\$ 1,200$. The purchaser was John Wells, of Longwood, Brookline ; one pair of dapple greys, a very nice team, at $\$ 900$. O. F. Keru, of Indiana, had 19 head, mostly draught, for single drive, at $\$ 125$ to $\$ 225$. A. K. Wilson had is head, a mixed load of good chunks, at $\$ 150$ to $\$ 175$. Hodges \& Morse, of Michigan, and Berry Bros., of Ohio, arrived on Sunday with about twenty head cach, and had not sold.

## chicacio.

The first week of the winter season brought very light receipts of horses and a correspondingly light trade. There is no revival in the trade to be expected for some weeks to come, certainly not till after the holiday season.

## MONTREAL.

The horse mar' it has ruled quict during the past week, owing to the great scarcity of horses. There is a good enquiry for drivers, saddle horses and cheap shanty animals. At Ar. Jas. Maguire's stables, on College Strect, the following sales were made : One bay horse, 6 years, weighing 1,200lbs., at $\$ 130$; one laxy mare, 8 years, at $\$ 125$ and one lay cob at $\$ 60$.





SEDGYICK BROS., Bichmond, Ind.

WELLAND CANAL ENLARGEWENT.
MOTICE TO CONTRACTORS.
Sealcel tenders addressud to tho underaignod and enduried "Temiler for the Wolland Canal." will be recelvel at this othco untll then arrival of the basienn
and Western malls on 30 ND ) and Western malls on MONDAY, tho 25th day of lucks, welts, etc., and licreasing tho helght of tho banks of that pirt of tho Welland Canal botween P'ore Dalhousio and Tharuld, nad for decpening tho Subimit lovel between Thorold and Ranney'd bend, nuar IIumberston.
Tho works throughoutwill wo let in sectlons.
3ians of the several localities, tonether with plans and descriptlvo specifacations, can be seen at thls ollico on and aiker mext (18S0), Alo obtained (18SO), where printed formy of teuder can the obtanned. A liko clase of information reistlvo to the Hesident Engincer's oftioc, Thonold: and for works south of Allanburs, plans, speclfications, elc., may bo soen at tho lledident Engincer's offico, Fei:tanch.
Contractors are requested to bear In mitnd that teniters will not be consilered unlesa mado strictly in accordance with the printed forms, and, in tho case of firnis, except there are afisched ehe actual efratures, the mature of tho occupation and place of rotidence of bask choque for the sum of Thoo Thousand Dollars or more-secording to the extent of:he work on the soc-tion-must accompany the respoctive tenders, which sum shall bo forielted if the party tendering doclines entering Into contract for the works, at the rates stated lin the offer submitted.
The amount required in each case will bo atated of the form of tender.
The cheque or moner thus sent in will bo returnod to the reapecture partics whoso tonders are not accepted.
This Department docs not howover, bind itself to accept the lowest or any tender.
uy order,
A. I. BRADLEY,

Dcpit of Inaldajes and Canals.
Ottsua, December 8,1835 ;


## Horior to cowrrictors.

Seated renders addresed to the underalgned, and cndorsal "Tender for Eingine Hocfe, Tomnto. Onh." Instans, for the crection and completion of
AT THF ENAMININO WAREHOUSE, TORONTO. Manz aml ONT.
Plank anil aneifacations can be secn at the Department of Public Works, Ottaxn, and at the offico of D . 13. Dick, Arehitect, Tomonto, on and after WEDNESDAY, Ohinitant
not be conaidrrad ung zotifad that tendera will supplied, and slgned with their actual nignaturea fich icnder munt be aceompranled by an aceepted bank cheque. mado pasabie so the onder of tho Honorable the sInister of Eublic Works, egual to fire jer-ecnt of the amount of tho eender, which will when called uponto do so, or If he fall to complete the work contractal for. If thotendorbe not acoepted the chepue will bo returnod.
Tho Department docs not bind itsell to accepl the lowest or any iender.

Ib) order
A. GOBEIL

Secretary.


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## What is Catarrh ？

Catarrh is a muco purulent discharge caused by tho presence and develonment of the veretable parasito amaba in the internal litilng membrano of the nose This paralto fs only developed under favorablo cir cumstances，and these are：Morbld state of the blood，as the bilghted corpuscie of tubercle，the germ poison of ayphilis，mercury，toxamen，from the reten tion of the effete matter of the akin，suppressed pers－ piration．hadly ventilated slecpling apartarenta，anil other jolsons that are germinated in the blood．There polsons kecp the laternal lining membratic of the nose In a constant stato of Irriation，over ready for the seads of theocgertus，which spread uptho nostrils and down the fauces or back of the throat，causing uleer ation of tho throas up tho custachlan tubce causing doalness，burrowing in tho rocal cords，causing hoarse． nexs；usurping tho proper structure of the bronchla fiany attenpta have been mixdo to discover a cure for this distrosing dieceso by tho use of inhalements and other ingenlous dovicos，but zone of thoso treat． mente can do a particlo of good until tho parasites are elther deatroyed or remorod from tho mucoua ifanue． years shanding，after much experience，aucceeted in dipaurctiat the necespary comblation of inpredients， thich nerce falls In aboolutcily and permatiently era－ dicating this horribio discase，whicther stallding for one yoar or for forty ycara．Thoeo who may bo uuffer． inf imom the abovo diroviso should，without delay： A．II．DIXON \＆ $80 \mathrm{~N}, 303$ king Street Wiert．Tompto and get full jrathculara and trovtisc freo by cnelosing stanip．－－】ail（Canada）．

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relathons of ali the parts of tho Dritigh fimpiro with relathons of
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lhonal Commission la issued lor the lolding of this Fixhilition，fur the first thine sinco 1802；and His ltusal Ilfbhess tho Princo of Wales has been ap－ pointed l＇reldent by ller Majesty：
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 aiso in an adequate display of her vast resourees in the Fishrmiks，and fil Forpat and Miseras woalth，ana also in Surpso．
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