The Diagnosis of Tuberculosis in Cattle.

We take the following interesting shot at, extract from the North British Agri culturist :-

Tuberculosis appears to increase in prevatence amongst cattle and especially among dairy stock, undoubtedly depending upon their being closely housed, one infected animal thus spreading the disease to those in near accounts with its Statistics in the proximity with it. Statistics in this and othe European countries indior 20 per cent, of the bocate that vine race suffer from this serious disorder. Of the cows killed in Edin burgh in 1891 under the Pleuro Pneumonia Slaughter Order, 20 per cont were found on post-mortem to be affected. Bulls, steers, and young cattle of both sexes, being attacked in much less proportion than housed adult cows, confirms the conclusion that contagion is the prime cause of the complaint, or, in other words, demonstrates that the tubercle bacillus is transferred from the infected to the sound. Some authorities still adhere to the view formerly entortained that the disease is hereditary and transmissible from the main parent, or from the female during pregnancy. Howsoever produced, in view of limiting its provalence and preventing its being communicated from cattle man, as it is apt to be with infected milk, it is very important that bovine tuberculosis should be discovered in its earlier stages. But during its earlier progress, and especially when it attacks the deeper seated glands or organs, its pre-ence is determined with difficulty. The most careful auscultation and percussion may detect per cent, of the attacks, and yet in such unsuspected cases post-mortem examination frequently discovers disease which may have been slowly developing for weeks of over months.

In the current number of the Journal of Comparative Pathology and Professor M'Fadyean Therapeutics, has a very valuable paper on the Diagnosis of Tuberculosis in Cattle.' tion of the disease is the presence of the bacilli occur in the local lesions, but although in certain local lesions are the local lesions. He premises that the essential condistages they blood stream from the primary lesion to other parts it is scarcely possible to find them in the blood. The Profesfind them in the blood The Profes-days, but I have tried and found no sor has made a series of experiments good results, as I find that the cattle which demonstrate that, even in cases of general and serious tuberculosis, so eager for the grass that to method of general and serious tuberculosis, with their milking and their regular bacilli are not present either in the blood or in the milk.

THE CHUMP.

Aberdeen-Angus heifer. All the butchers to whom I spoke, who had seen her alive, remarked on the small "chump"—that is to say, the narrowthis or not I am unable to say; but a "whipthong" tail is usually associated with general 'quality" by breeders

In so many cases we find cow stables
The thickness of the "dock" in sheep built like a box without light or ven-

its natural limit, because it is this the doors have to be left open at least part of the structure which admits of nearly three hours per day. No wise the largest development of lean meat. Uninking man would ever suppose that I may be wrong but I stand to be cows would give any profitable returns

(Eng Ag Gazette.)

THE CARE OF CATTLE IN WINTER.

winter and fall care of cattle. From possible out on cold damp nights, as this is the of milk is reduced; at 40° it takes first cause of their coming down in one third of the food to keep up the milk, and it is almost impossible to animal heat, and at 30° it takes oneget them up to the same amount again, no matter now much they are fed. I to keep up the amount of milk. consider this extra feed all loss, which could have been saved by simply keeping the cows in There are thousands ticed that the farmers who had dark, of dollars lost every year through the cold stables, with little or no ventilacountry by this neglect.

not turned out till the grass is ready \$25.00 per annum from each cow either in the latter part of May or the Otherwise, where the cattle were bet-beginning of June. The time for turniter cared for and the stables were on ing them out depends on the locality a more improved plan, the average and the patters of the soil or was from \$20.00 to \$20.00. and the nature of the soil, as grass is was from \$30.00 to \$38.00. In the produced earlier in some soils than in Eastern Townships where a specialty others. Here, I take the precaution is made of taking good care of their of not turning them out on a very cattle, I have known some whose cows bright warm day, neither do I leave averaged from \$50.00 and upwards them out all days that are a second to the second taking good care of their or turning them out all days that are a second to the second taking good care of their or turning them out all days that are a second to the second taking good care of their or turning them out all days that are a second to the second taking good care of their or turning them out all days the second taking good care of their or turning them out all days the second taking good care of their or turning them out on a very cattle, I have known some whose cows bright warm day, neither do I leave averaged from \$50.00 and upwards them out all day at first, as it would be each at the cheese or butter factory. too sudden a change, and it is possible In conclusion I would like to say a that the sun might have an injurious few words in regard to the pasture. offect on their skin. I always feed a Fully one half of the farmers have httle dry meal and hay for the first quite too much land under pasture, week after they go out in order to They have adopted a plan of pasturprevent the grass scouring them too ing in the same place for three or

for the change to the grass, and also down. keeps them up in flesh and milk; but According to my experience, a pasthey also require meal as well. I ture requires more seed, as it is not alsell outs and hay to feed then to their thicker bottom than a meadow. For eattle. For instance a farmer was hay, 4 lbs. red clover, 2 lbs. alsike and selling his hay and feeding his cows 1 peck timothy is sufficient. For pason straw and moulte. 1 advised him to ture, 2 lbs red clover, 2 lbs. alsike, 2 change, give the cows hay and use the lb- white clover, 1 lb. red top, 1 lb straw for bedding and clean his cows, blue grass and I peck timothy seed is are transmitted in the per 100 bundles for his hay from the from the primary lesion extra milk. Some claim they should become so restless and unsettled and so eager for the grass that it interferes feeding

My reason for not putting out my cows in winter is to keep them up in flesh and milk and I have never seen any bad results therefrom. On the contrary they come out better and healthier in the spring by keeping One more allusion to the champion them in a proper temperature and not exposing them to chills.

Now comes another very important point, the stable. Care should be taken for the majority of horsemen to watch, to build it very warm and to have ness of the spinal bone at the setting abundant light and ventilation, the on of the tail. Whether the fineness coiling should be from 8 to 9 feet, and of the tail itself has anything, to do with there should be good large windows, coiling should be from 8 to 9 feet, and range than that of any other one class, there should be good large windows, A roadster, therefore, must be an animal and the should be good large windows, A roadster, therefore, must be an animal and the should be good large windows. for it is so necessary to have the sunlight in the stable.

In so many cases we find cow stables, other type is always regarded as an indication of that on, the cattle breathing the same

until the spinal column has grown to that principle. While feeding the cattle, with such treatment.

Suppose we ask a poultry man why he has so much light in his honnery, he will answer that he cannot get a profitable returns from his hons, unless they have the full benefit of all the sunlight which can be conveyed into the building. With cows it is the A very important matter is the same, they require all the sunlight inter and fall care of cattle. From possible The proper temperature for my experience, it is necessary that much cows is from 60° to 65°, and for the milch cows should never be left every degree below that the quantity

During our trip this summer, judg-ing for the "Merite Agricole," I notion and who turned out their cattle As soon as the winter sets in, they every day during the winter, were the are brought in permanently and are ones who only received from \$20.00 to

In conclusion I would like to say a four years, then ploughing it up and cultation and percussion may detect no definite evidence in the lungs of cattle, which are the site of about 60 or other roots during the months of same period, and then turning it back per cent. of the attacks, and yet in April and May, as it prepares them to pasture without ever seeding it

strongly advise my fellow-farmers who lowed to grow so tall and requires a half the land, besides improving the

> GEO. BUCHANAN, Côto St Michel. 29th March 1894.

land very much.

The Horse.

THE HORSE.

The Roadster as a Profit-Maker.

Among the many well filled classes at the recent national horseshow in New York, and perhaps the most interesting was the roadster. This is a class of horses whose usefulness has a far wider range than that of any other one class. mal having a combination of good qualities exceeding that of almost any

One of the first things our interested nectator will notice in the catalogue is thickness of lean meat. This leads air over and over again: it is a the entry in several different classes of me to repeat, once again in this con- well known fact that this air becomes the same animal. While this may be nection, my firm belief is that no poisonous and injurious to the health done to a certain extent, it has without animal can be profitably sold to the of the animals. I am satisfied that a doubt been carried too far in some butcher until it has attained its com- two-thirds of the stables in the North- respects, notably so in entering horses plete development; that is to say, ern part of this Province are built on in both the trotting and roasdster

classes. Those should be distinct, each a class in itself. The typical American trotter is not what one would call an ideal road horse. He is too delicate, narrow chested, and too much of a racing machine to be a good in and out. horse on the road. Colonel Kips' mares, My May and Mona, wore beautiful specimens and well worthy of a blue ribbon, but they should be classed as trotters and not roadsters They are a type that all men would like to own and drive, but comparatively few men have the means to keep a horse for one particular kind of driving therefor, they must toy and find an animal whose qualifications combine these of several different types.
A readster should be a large and pow-

erful horse, broad chested standing at least 15 hands high, well put together, who can go along at a three-minute gait and keep it up. He must have a good, allround action not too high, if possible, something between that of the hackney high stepper and the trotter. He should be a strong and easy mover, at the same time carrying

somo style with him .

In this horse also we need more than in any other a good walker. How comparatively few good walkers one can find when looking for them. A horse cannot trot forever as some people seem to think. He must rest a little now and them, and if he is a good wal ke one does not mind it, whereas if he happens to be a poor one, the chances are that the driver gets impatient as I pushes him on. If the men who break our colts would pay more attention to teaching them to walk well and carry their heads so as to obviate the use of the check rein, instead of trying to develope a few seconds of speed below the standard mark, we should have a more satisfactory lot of road horses, and the breeders would make as much money It is only once in a very long time that one can breed a record breaker, even when if you have the right stock, -and there is plenty of it in New England or New York—one can get a good roadster every time, and they will always command a good price.

The day for scrub horses has gone by and they are at present a drug on the market, but good ones can always find a buyer and at a fair price. Must we always have our Eastern markets filled with Western and Canadian horses which are brought here, many of them only half broken, and sold as roadsters that are safe for a lady to drive? we not endangering the lives of those nearest to us, our mothers, wives and sisters, by buying such animals and turning them over for their pleasure driving? Rather let us have our mar kets filled with a good substantial animal, born and bred in New England. or York state, whose every movement is known to us and on whom we can rely-one that has good manners and will command recognition and respect from horsemen far and near.

Then at the next show in New York let us ask for a class for roadsters in which the speedy and sensational trot-ter is not eligible. This will certainly help to improve the present condition of our road horses and is nothing more than should rightly be claimed in their bohalf. We speak of the " national horse show 'as the directors have elected to call it. yet how little it bears out the name. Nine-tenths of the horses exhibited are animals that have been imported, many of them having been prize winners in some foreign country and in no way represent our national horse. Let us be more "American, and when next year comes around show a lot that will represent an American bred animal.—[W. J. Lun.]

F. and. H.