Tho Diagnosis of Tuberculosis in Cattlo.

Wo tako the following interosting extract from the North Britith Agri culturist:-

Tuberculusis appears ta increase in prevalence amongot catt to and enpe-
cially amone dary ntuch, undualedt deponding upon the theing closely housed, ono infented amimal thas epreading the diseaso to thoso in near prox mity with it. Statistics in this and ohto laroperal culabion indi cate that or 20 per cent. of the bovine raw sutfer from this serious disordor: Of the curns hathed in lidn burgh in $: S 91$ under the Plewo Pnoumonia Shaghter Ordor, 24 per cont wero found on post-mortem to be affectod. Bulls, steers, and young cattlo of both sexes, being attacked in mach less popportion than housed adult cows, contin mo the come lasion that contagion is the prime calle of the complaint, or, in other words, demonstates that the tuberclo bacillus is transforred from the infected to the sound. Sume atuthoritics still athere to the vew tormerly entortanced that the disease is hereditary and transmissible from tho main parent, or from the female during pregnamey. Howsuover produced, in view of hmiting its prevalence and preventing its boing communicated from catle to man, as it i- ant io lue with infire mill, it is very important that bovine tuberenlosis should be discorered in its earlier stages. But during its carlier progro-s, and oupeciully when it attacks the de ejer seated glands or organs, its proence is determined with difficulty. The must carefal amscultation and percursion may detect cattle, which are the sito of ahout on per cent. of the attacks, and yet in such unsurpected catcy post-mortem oxamimation fequently diseorers discase which may hare been slowly dovolugitg fur weehs we erel tiantith.
"In the current number of the Journal of Comparation Pacholusy and Therapeutice, l'rofesser II Findyan has a very valuable paper on the ' Diagnosis of Taburculosis in Catale.' He premises that the erectaial cobrdi tion of the disease is the presence of the bacilli. The bacilli ocrur in the local lesions, but although in certain stages they aro transmitted in the blood stream from the primary lesion to other parts it is scarcely possible to find them in the blood The Professor has made a series of experiments which demurstrate that, crin in cases of reneral and serions tuberculosis, bacilliare not present either in the blood or in the mall:.

## THE CHUMP.

One more allusion to the champron Aberdeen-Angu: hetfer. All tho butchers to whom I sipole, who had seen her alive, remarked on the small "chump" - that is to saty, the narrownoss of the spinal bunce at the setting on of the tail Whether the finenesis of the tail itsell has any thing, to do w.th this or not I am unable to say; but a "whipthong" tail is usually associated with general "quality" by breeders The thickness of the "dock" in sheep in always regarded as an indeation of thickness of lean meat. This leads me to repeat, onco again in this connection, my tirm behed is that nu animal can be profitably sold to the butcher until it has attained its coms.
until the spinal column has grown to that principle. Whilo feoding tho cattlo its natural limit, becauso it in this the doors havo to bo loft open at leayt part of tho structure which admits of, nearly threo hours por day. No wise tho largest dovelopment of lean meat., thinking man would over aupposo that I may be wrong but I stand to bo shot at.
(Eny .lg Gazettc.)

## THECARE OFCATTLE IN WINTER.

A vary important matter is the winter and fall caro of catto. From my experienco, it is necessary that tho milch cows should never be left first cause of their eoming down in mill. and it is almost impossiblo to set them up to the same amenat agatin, no matlor how much they nre fed. consider this oxtra feed all loss, which could have been saved by simply keep. ing the cows in Thereare thousands of dollany lost every yoar throngh the country by this neglect.

As soon as the winter sets in, thoy are brought in permanently and are not lumed out till the grass is ready either in tho latere part of Jay or the b.ginning of June. The time for turn. mythem out depends on the locabty and tho mature of tho soil, as grass is produced earlier in some soils than in others. Here, I take tho precaution of not turning them out on a very bright warm day, nether do Ilease them out all aay at turst. as it would bo too suduen a change, and it is possible that the sun might have an injurious effect on their Elin. I always feed a little dry meal and hay fur the flest week after thoygo out in order to prevent the gras serouring them ton much.
would advise feeding on mangels or other roots during the months of April and May, as it prepares them for the change to the grass, and also krops thom up in flesh and milk; but thoy aleo requiro meal as well. I stronsily adrise my fellow-farmers who sell oiths and hay to feed then to their rattle. For instanco a farmer was selling his hay and feeding his cows en straw and moulde. 1 advised him to chature, give the cows hay and uso tho stranf for bedding and clean his cows. which he did II. was selling his mill. at lSc per gallon and after giving it a lair trial, found he was getting 89.00 ier 100 bundles for has hay from the extra mill. Some claim they should be turned out in May on bright, warm days, but I have tried and found no good results, as I find that the cattle become so restless and unsettled and so cager for the grass that it interfores with their milking and their regular feeding
My reason for not putling out my cows in winter is to keep them up in lle-h and mills and I have never seen any bad results therefiom. On the contrary they como out better and Thoaltiner in the spring by kecping then in a proper tomperature and not exposing them to challs.

Now comes another very important point, the stable. Care should bo taken to build it vory warm and to have abuadant light and rentilation, the conling should be from 8 to 9 feet, and there should be grood hargo windows, for it is so necessary to have the sunlight in the stablo.

In so many cases we find cow stables, buit like a bux wathout light or ven. that on; the catte breathing the same air over and over arain: it is a
woll known fact that this air becomes punsonuas and injurious to the health of the ammals. I am satisfied that two-thirds of the stables in the North-
cows would givo any profitablo roturas with such treatment.
Suppose wo ayk a poultry man why ho has so much light in his homery, ho will athewor liat ho cannot get a profitable returns from his hons, unless they have the fall benotit of all the sunlight which can bo conveyed into the bulding. With cows it is the samo. they require all tho sumbight ponsible Tho propor temperaturo for milely cows is from $60{ }^{\prime}$ t. $65^{\prime}$, and fur arery derrec below that the quintity ono third of tho food to keep up tho animal heat, and at 300 it takes onehalf; while it is almost impossible to to lieep up the amount of nill.

During our trip this summor, judging for the "Merito Agricole," I noticed that the farmors who had dark, cold stablot, with little or nu ventilation and who turned out their catto overy day during the wintor, were the ones who only received from $\$ 20.00$ to sis. 00 per annum from each cow Utherwiso, whore tho citllo were bettor carred for and the sitables wore on a mure improvel plan, the average was from 830.00 to $\$ 38.00$. In the E:atorn Townships whero a specialty is made of taking good caro of their cattle, I have known sume whose cows averaged from S50.00 and upwards cath at the chuess or buther fatory.
In cunciusion I would like to say a few words in regrad to the pasture. Fully one half of the firmers have quite too much land under pasture. They have adopted a plan of pasturing in the samo place for three or sowins oats or poughang it up and same poriod, and then turuing it back to pasturo without ever soeding it down.
According to my experience, a pasture requires more soed, as it is not allowed to grow so tall and requires a theher buttom than a meaduw. Fos hay, 4 lbs. red cl ver, 2 lbs. alsike and 1 peck tumothy is sufficiont. For pasturo, 2 lbs red clover, 2 lbs. alsike. 2 lbs. white clnver, 1 lb . rod top, 1 ib bluo grass and 1 peck timuthy seed is a good mixture. A pasture seeded down in this way wonld give more and a great deal botter grass on one half tho land, besides improving the land very much.

## Geo. Buchanan,

2!!!: M!:re! 189.!. Côto St Michel.

## The Horse.

## THE HORSE. <br> The Roadster as a Profit-Maker.

A mong tho many well filled classos at tho reeent national horseshow in New York, and yerhaps the mout interesting for the majority of horsemen to watch, was the 10 adster. This is a class of range than that of any other one class. A roadstor, therefore, must bo an animal having a combination of good
qualities excec ling that of almost any other type.
Ono of the first things our interested spectator will notice in the cataloguo is the entry in soveral different classes of the same dmimal. While this may be dune to a certain extent, it has without a doubt been carried too far in some $\left|\begin{array}{l}\text { respecte, notably so in entering horses } \\ \text { in both the trotting ind roisdstor }\end{array}\right|$
clases. 'Lhoso should bo distinct, oach a class in itself. The typical American trotter is not what ono would call an ideal road horso. Ho is too delicatc, narow chosted, and too mach of " racing machino to bo a good in-and-out horso on the road. Colonol kipy mares, My May and Mona, woro boantifill specimons and well worthy of a bluo ribbon, but they should bo chassed as trutters and nut ivalstots Thes aro a type that all mon would likn th own and drivo, bat comparatively few men havo the means to keep a horso for one particular land of driviag therefur, thay mast tis and hind an ana mal whoso qualitications comvine thoof :overal difforent types.

A coadater should boalarge and poworful horso, broad chested standing at least 15 hands high, well put togother, who can go along at a thre-minute grat and lecop it up. Ho must havo a good, allround action not too high, if possible, somethiner botweon that of the hacknoy high stopper and tha trotter: Ho should bo a strong nad casy mover, at the samo timo carrying some stylo with him .
In this hurse also wo need more than in any other a arood walker. How comparatively fuw gcod wallsers one ran tind when looking for them A horse cannot trot forever as somo people seom to think. IIe must rest at hittle now and thom, nud if ho is a gosd wal lee ono does not mind it, wherers if he happens to be a poor une, tho chancos we that the driver gets impatient ar 1 pushes him on. If the men who breals our colts would pay more attention to teaching them to watle well and cary thoir heads so as to obviato the uyo of the check rein, instead of trying to develope a fow seconds of speed below the standard mak, we should have a more satisfactory lnt of road horses, and tho breeders would make as much mones It is only once in a very long time that uno can breed a record breaker, oven when if you havo the right steck, -and there is plenty of it in Now England or New York-ono can get a goond roadster overy time, and they will always command a good price.

Tho day for berub horses has guno by and they are at presenta drug on tho market, but good ones can always find a buyer and at a fair prico. Must wo alwaye hare var Easten marketo filled with Western and Canadian horses which are brought here, many of them only half brokon, and suld as roadster: that are safe for a lady to drive? Are we not endangering the lives ot those nearest to us, our mothers, wivos and sisters, by buying such animals and turning them orer for thoir pleasure driving? Rathor let us have our mar kets filled with a good substantial anjmal. 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 noxt show in Now York lot us ask for a class for roalsters in which the apredy and sensational trottor is not elggible. This will certainly holp to improve the presont condition of our road horses and is nothing more than should rightly be claimed in thoir bohalf. We speak of the " national horso bhow ' as tho directors have olected in call it. yet how little it bears out the namo. Ninotonths of the horses oxhibited aro animale that have been importel, many of them having been prize winners in some forcign country ard in no way represont, our national horso. Let us bo mors "A morican, and whon noxt year comes around show a lot that will roprosent an Amorican bred animal.-IW. J. Lus.]
F. and. II.

