# Breeder and Grazier.

### THE TUBEROULIN TEST.

TO BE APPLIED TO ALL CATTLE ENTER ING OANADA.

Ottawa, Nov. 14.-Tho tuberculin lymph test which has been dopart montally ordered by the Minister of Agriculture to be applied to all neat cattle entering any of the quarantines from any place of taide of Canada, has resulted in the ending, by Mr. E. P. Westell, the voterinary inspector of the department in charge of the ani-Shorthorn bull, the eleventh Duke of demonstrated their worth. Even now, Niagara, eighteen months old, to be affected with tuberculosis. The owner slaughtered in the quarantine without compensation. The Department of Agriculture is informed that the quarautino station at Grosso Islo will close on November 15.

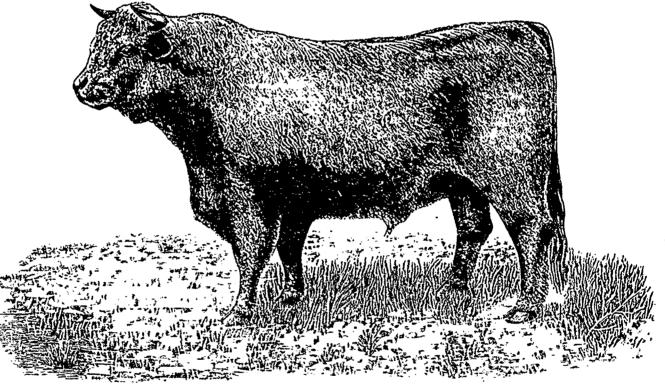
tury, they received but scant caro and feed. With the exception of the milk ing cows, they were as a rule wintered in the field and were scantily fed with rose with age until among adult cows v little hay of the poorest quality, or it was seldom less than 10 per cent., and some straw. used to porish of starvation overy the bacillus played a rôle of any im-winter, when the snow lay long on portance in the propagation of the the ground, fully one-half of them sue-cumbed. Of course, the survivors of known fact regarding the incidence of the ground, fully one-half of them suc-cumbed. Of course, the survivors of such treatment were those having the tuberculosis, as regards age, breed, and greatest vigor, and the quality of locality, was in complete harmony hardiness in the breed was intensified with the view that it was a contagious by this process of selection. When a disease, which could, with great cormore rational treatment followed the mals' quarantine at Point Edward, a harsh one alluded to, this cattle soon when subjected to poor treatment and among cattle kept in the open air. A soant fare through the winter, they

attle under two years of age the pro portion of tuberculous individuals was less than 1 por cont., and that it steadily some straw. Very many had to exist not rarely 40 or 50 per cent. These on seaweed heather and rushes. It is facts were quite incompatible with the said that at least one-fifth of them view that hereditary transmission of tainty, bo spread by housing tuberculous and healthy cattle together, but which had only feebly contagious properties fow years since, even to the most sun-guine, the possibility of being able to grapple successfully with the disease is offored, by direction of the minis-tor, the alternative of returning the animal to the place whence it came in the United States, or of having it speed.—Am. Ag. (1) it in its early stages, for to the most careful clinical observation a tubercu-

## RAISING FALL AND WINTER OALVES.

We formerly raised the onlyes that wore born in the early spring and kept them in the barn until the middle of June before turning them out, and I think it would have been better to have kept them in and fed milk and hay until after harvest. According to my experience, milk and h ay make a better ration for young calves than milk and pasture, which are apt to bo too laxativo. Some of our calves, after being turned out to grass refused to come to the through to drink milk until drivon to it by thirst.

For several years past we have raised our fall calves and found it a decided improvement on the old way. The calves when taken from the cows are fod their mother's milk freshly drawn, for about a week, than a portion of sweet skimmilk, warmed, is substituted in place of part of the new milk, TUBEROULOSIS. Tub roulosis was now by far the nost the and the substitution goes on gradually healthy and yet be capable of infect-most widespread, and, as regards the ing others. But it was now in the which is warmer than blood heat, and



THE CHAMPION WEST HIGHLAND BULL, CEATHARNACH BUIDHE.

land cattle that is at once indica- He believed that that question might spread of the disease. In any herd tive of his birthplace — the rugged be auswered in the affirmative. As a the use of tuberculin would enable the land and clime of Scotia. There is a first step in that direction it was ne-veterinary surgeon to separate the suggestion of vigor and robust hardi-cessary to diffuse among agriculturists diseased from the healthy; and this, ness that at once impresses the ob-server in studying this breed of cattle. tion of the disease. The discovery of tion, would with great certainty ar This picture is that of Ceatharnach Koch's bacillus had in one sense set-rest the spread of the disease. As reserver in studying this breed of cattle. This picture is that of Ceatharaach Buidhe (719), owned by Mr John Stewart of Scotland. This fine animal was first and champion at the Highland societies show at Inverness, Scotland, and also champion at Stirling.

The West Highlund, or to be more accurate, the Southwest Highland, breed of cattle are very highly es teemed in Great Britain. They are most at home on the western islands of Scotland and in the adjoining coun-This breed and the Galloways ties. are believed to be descended from the same original stock, the former being often called "Highlanders without being " horns

In the early history of this breed, used to hav in the beginning of the eighteenth con- week. Bo

WEST HIGHLAND CATTLE. There is something in the accom-panying illustration of a conspicuous member of the family of West High-the dult cattle in Great Britein were with the loss entailed by the present it bereautions against the the dult cattle in Great Britein were with the loss entailed by the present if To hot milk is binding to the bow-the dult cattle in great Britein were with the loss entailed by the present if To hot milk is binding to the bow-the dult cattle that is at once, induces that that question might spread of the disease. In any best is an not disposed to great it, as tled all disputes regarding the cause gards the diseased animals, the owner of tuberculosis, but there still pre might be left to decide whether he vailed, both among veterinary sur would have them promptly slaught that made that view quite untenable. They knew that when tuterculous lesions were sought for at birth in the progeny of tuberculous cattle, they were not found in one calf in a theu sand. They knew, further, that in

(1) About the best beef in the London market, Giblett, the Bond Street butcher used to have up about 25 in his shop every

subsequently be allowed to mix with the healthy. But if theorenin made it possible for anyone to free his stock from tuberculosis it also afforded the means of keeping it free No animal ought now to be bought for breeding

"To hot milk is binding to the bow-els." I am not disposed to great it, as it is not confirmed by my experience; but if it were true, I should not be afraid to feed it, as costiveless is not an evil that our calves are subject to. On the contrary, the danger is all the other way: Diarrhea is the discase to be guarded against.

Mr. Rockwood says : "Too much milk must not be fed the calf while geons and farmers, a very serious misered or not; the material point with young." I suppose he means skim milk, conception regarding one factor in the regard to the arrest of the disease was or may be sour, or loppered milk; for disease, viz., the belief that it was that the infected animals should not our calves will usually take all their often congenital. For some time past subsequently be allowed to mix with mother's milk if she gave ever so they had had before them information the healthy. But if tuberculin made wore raising a show calf to let it suck two cows with a decided improvement in its growth. He says that " two or ought now to be bought for breeding purposes that was not free from tuber. That is about the average quantity we oulds as indicated by the tuberculin test. It was to be hoped that some of the famous breeders of pedigree stock would sot the example of selling their animals with a guarantee of this kind. Stand, and give them that much and