great market now established in the prairie provinces. Ten years ago the writer remembers when the stock ranges to the west of the Upper Columbia lakes were teeming with horses, mostly "cayuses" of a worthless kind it is true, but vivid evidence of the capability of the valley to support horses without winter feeding. A huge area of land, estimated in the Upper Columbia lakes district alone at some 200,000 acres, is to-day is done on the prairies.

Why has some one not realized that the conditions are almost ideal for raising the class of horse so much in demand on the prairie? It seems incredible that these wide pasturages have been so long overlooked, and even now, the Bulkeley valley, remote from market until the G. T. P. arrives there, is taking up greater attention than its climate seems to warrant to those who know of 'fairer lands and tempered winds' to the south.

From the Upper Columbia lakes to Banff is but four days easy packing over a well used pass of the Rockies. Bands of horses, with mares will the continued use of purebred bulls have a having colts at foot are driven over this route constantly through the spring and summer

were only protected by annual leases for the prepotency about them. greater portion of their grazing lands. These leases the Dominion Government very properly of using purebred bulls upon common mixed refused to renew, as the demand for small holdings became greater.

Wire Worm Prevention.

East Kootney, B. C.

Agriculture is authority for the statement that ers paying what looks to us as fabulous prices periment in the treatment of tuberculous cattle late fall plowing will destroy many of them.

W. P. EVANS,

STOCK

Farm and Range Stock Compared.

Frequent inspections of the cattle that come untenanted, save by a few wild cayuses, a few into the stock yards at Winnipeg convinces us cattle, and the ubiquitous blacktail and whitetail that greater improvement has been made in the deer. These lands are for the most part unfitted type of cattle raised on the ranges than in those for agriculture, being hilly, broken by deep grown on the smaller farms farther east. This ravines, and incapable of irrigation, yet they are is not what we would have expected, since the the ideal of the practical horse rancher. The general average of the bulls used in the grain belt steep hillsides trim the young horses' feet and is better than upon the ranges. The circumdevelop his shoulders, test his wind, his sinews, stance may be accounted for upon two reasons; and his bone as no prairie bred is ever tested, the calves on the range make a better start upon while the malformed, or crippled colt which may their mother's milk than their pail fed brothers grow to a four-year-old monstrosity on the of the grain belt, and the range grass is more plains, becomes coyotes' meat when the first plentiful and luxuriant. These are things that snow fall finds him on some steep hillside. When make cattle. Improvement in the range stock the grass is at its best in the East Kootenay is particularly noticeable in the carload lots of valley, it is equal or superior to the famous cows that are marketed. Dry cows, of course, Oregon bunch grass. Horses are often taken have every opportunity to look well in the fall off the grass and put into hard work with little but in addition to this there are a lot of cows sign of the softness so noticeable when the same coming forward that have a very superior conformation for beef production. Most of them have two or three crosses of Shorthorn or Hereford blood and the extent to which the characteristics of these breeds are stamped upon them is really remarkable. It raises the conjecture, why, apart from the feed these cattle receive, should there be so much more evidence of breeding in the range cattle with only two or three crosses than in lots of other stock with perhaps four or five crosses? The theoretical answer is that the original stock upon which the purebred bulls were used was of such mixed breeding that the prepotency of the pure blood had ample opportunity to assert itself. The question then arises, proportionately beneficial effect upon the stock? Both experience and theory teach that it does not and this is the great stumbling block in The market advantage alluded to above also breeding. In all lines of endeavor it is much places the horse rancher beyond any anxiety as to easier to attain to the average than to rise above the advent of the railway now building from it. In stock breeding the explanation lies in the Golden, while the nature of the country can fact that as the females become purer in blood never allow large areas of it to be adversely their characteristics become more fixed and are effected for ranching, on the building of a rail- consequently less easily modified by the use of road through it. It is now old history how the purebred bulls. This is not an argument against great horse ranches of Calgary have become the continued use of well bred bulls but a reason fertile homesteads for the farmers who have why as a herd becomes of higher grade greater flocked there. This, greatly to the advantage care should be exercised in selecting bulls that of the prairie provinces, has sometimes spelt have good pedigrees, that are nearer perfection that pertains to food production, and, second, who as individuals, and that have lots of character and

The greatest example of the immediate effects stock is in the operations of the Argentinoes. So great has been the improvement of their cattle by the first and second cross of purebred bulls that the value to that country of pure blood is far and away beyond what it is to countries which have considerable breeding in their Professor Roberts of the Cornell College of herds. Consequently we see the Argentine buy- missioner, Dr. J. G. Rutherford, a practical ex-

vestment, for the good these bulls are doing is in proportion to their cost.

Different conditions however, are in store for the Argentine and the British breeders. the average cow of the Argentine ranches be comes half or three-quarters purebred there will not be the proportionate improvement in her offspring that there is to-day and purebred bulls will not command the prices they do at present. Not but what they should, but because there will not be the same apparent obvious value in them.

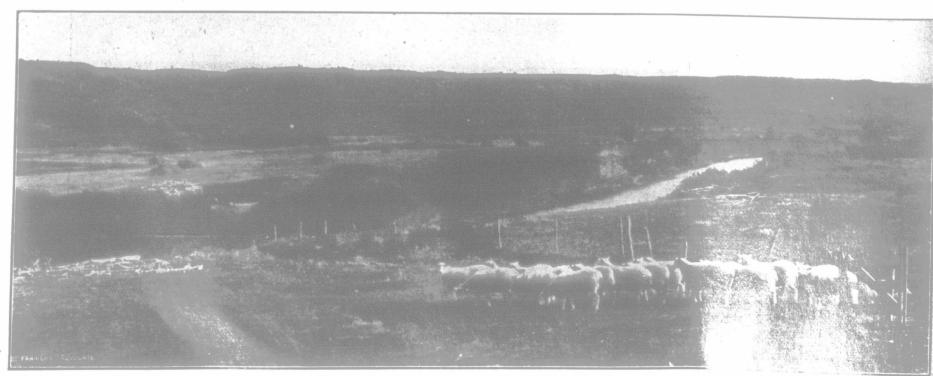
The Chicago Scare: Its Effect and Lessons.

It has been frequently stated that the preudicial effects on trade of the Chicago packinghouse exposures would soon blow over, because the public has a short memory. This view is not shared by a good many careful students of the situation in Great Britain. It was a violent shock to the consuming population, and once an idea: of that sort becomes firmly implanted in the mind of the Englishman, it is extremely difficult to eradicate. Furthermore, "the FARMER'S AD-VOCATE has been assured by some of the bestposted men in the Liverpool meat trade that for about three years past the consumption of tinned meats has been steadily declining in Great Britain, while other trades show an increase. Nor is this unreasonable, when we come to consider the speedy and excellent conditions under which the live-cattle and dressed meat trades (both chilled and frozen) are conducted, bringing various grades of reliable fresh meats within reach of the people. The consumption of bacon, fruit, cheese, etc., is also most remarkable in England, and it is therefore not to be wondered if the nails which Upton Sinclair and President Roosevelt drove into the coffin of the products of Packingtown should be of a decidedly tenacious character, particularly in so far as canned meats are concerned. Eating is a large item in the daily programme of the Englishman, and he is properly very particular about the character of what is on his bill of-fare, whether in the palace or on the workman's bench. The authorities are responsive to this characteristic, and extremely vigilant as to the healthfulness of foods, whether for private individuals or the army and navy. In fact, this is one of the noticeable features of the public administration and law-court procedure in England. Under such conditions, it is obvious that the Chicago revelations could not be otherwise than a severe blow to United States animal products, and if Canada is wise she will heed the lessons: first, cleanliness and purity in all cattle and other animals of the very best meat type, properly finished. They bring the most money, and cost no more to carry or to sell.

Open-Air Treatment for the Tuberculous Cattle.

(OTTAWA CORRESPONDENCE.)

Under the superintendence of the Dominion Veterinary Director-General and Live-stock Com-



THE GOLDEN HOOF IN THE NEW NORTHERN COUNTRY.