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have been making "short-time tests" they will surely be convinced that the shorter the test the more room there is for manipulation and of gaining undue ad-

there is for manipulation and of gaining undue advantages.

At the time of writing I do not know what decision was reached by the annual necessary of the decision was reached by the annual necessary of the Arrabitre or Holstein associations, but trust that the Live Stock Commissioner will not change proposed by any breeder or breed susceled on change has been associations.

The prosecutatives of other association has been of great advantage to do rur association has been of great advantage to the Live Stock Industry and I trust, therefore, the nothing will happen to get away from the nation links of uniform standard. We live in a freedom links of uniform standard. We live in a freedom links and times he shall milk his cows, or that he is not no allowed to make persistent milkers of his helfers a allow them to develop, will, in my opinion, result in a reduction of the number of cows under test, rather than an increase.

## Finish Beef Cattle Economically

It Can Be Done With Little Grain Prof. G. E. Day, Secretary, Dominion Shorthorn Breeders' Association.

N normal times it is counted good business to give our beef cattle a good degree of finish before sending them to market. The higher price ob-tained for well finished cattle has usually been pro-

tained for well finished cattle has usually been prostable to the feeder.

At the present time, however, we are facing decidedly abnormal conditions. Statistics indicate that
the world is facing a heavy solving of wheat. If
these statistics are correct in looks as though it
night be necessary to use grains thereforce employed almost exclusively for the feeding of animals, to
help out the supply of wheat. Is a matter of faciinvestigations are in progress to deitherated with
the flour of other cereals and still retain its palatability for human consumption.

If it becomes necessary, therefore, to utilize the
courses cereals for human food it must mean a shortealing up of concentrates for fattenia minds, and
the question arises whether, under present prospects,
we should not make a special effort to up to possible
amount of concentrates, and utilize, to
fe fullest extent, bulky fodders in the fattening of
our cattle.

One Pound of Grain Per Pound Gain.

One Pound of Grain Per Pound Gain.

Some years ago the Ontario Agricultural College secured a gain in weight of 2189 liss, in the case of fattening steers, from the use of 237 list liss of ground barley and 729 list brain. This wery little more than one pound of concentrates under for each pound of gain in weight, the balance of the ration being made up of hay, corn slage and roots, in the proportion of 1, 2 and 3, respectively. The steers used in this experiment were cheap, common cattle, and the gains they made were not large, being approximately 1½ lbs, per steer, per day, for a perica opproximately 1½ lbs, per steer, per day, for a perica opproximately 1½ lbs, per steer, per day, for a perica of 165 days. The cattle were not well finished when marketed, and dressed a little less than 57 per cut was much superior to a great deal of the beef we we forced to consume in these days, and, as has been forced to consume in these days, and, as has been forced of consume in these days, and, as has been forced of consume in these days, and as has been forced out, it was produced with the use of a very small quantity of material which was fit for human consumption.

sumption.

One thing is certain, we cannot prod

One thing is certain, we cannot prod

mum amount of highly finished beef, and, at the
same time, produce the maximum amount of cereals
for human commanption. It would seem, therefore,
the part of window of comomize on the ise of cereal
grains in the feeding of beef cattle, and to utilize to
the fullest extent bulky fodders, even though we have

to be content with smaller gains in weight and a proper quality of beef. As previously stated, these are abnormal times, and methods which would have been severely con-demned a few years ago may be the very best and safest methods we can follow at the present time: Our great effort must be to get human food from our bulky fodders by converting it into meat, with a minimum reduction of cereals for human consumption.

Ensilage Will Replace Roots.

An objection in An objection in the raind of many may be the fact that in the college experiment roots were used very liberally, whereas on many farms roots are not largely grown owing to the labor involved. This is a perinvolved. This is a per-fectly legitimate objection, but judging from ex

tion, but judging from experience silage can be made to t e the place made to to extent at least. Is addition to this, the hay fed tion with the annual converse mixed timothy and clover and contained too much timothy to be really satisfactory for cattle feeding. With a good quality of a converse of silage there is every reason to believe that read to the college cults can be a totalized. The experiment emphasizes the great importance of clover, alfalfa and silage on the farms of this Province.



Butter and Cheese on Exhibit in the Fort Garry Hotel.

Butter exhibits from three provinces were a festure of the competition in connection with the annual convention of the Masiloba Dairymen's Association, held in the Furt preparation on this page speak for the interest taken in dairying in the particle provinces.

## Grade Cow Makes 22,514 Lbs. Milk

A B.C. Record That Is Hard To Beat T. A. F. Wiancko, Provincial Dairy Instructor.

N. F. Wianeko, Provincial Dairy interaction.

N. February 6th, "Dairymaid," a grade Holstein cow, owned by Alex. Davie, of the Delta Cow with a credit of 22,514 bis. milk and 905.3 lbs. fat, making her the champion cow for the year. "Dairymaid" has a previous record under a difference of the company of th

"Dairymaid" has a previous record under a different owner, extending from Dec. 6th, 1915, to Dec. 4th, 1916, of 13,992 lbs. milk, and 515.1 lbs. fat, thing for first prize in her association in 1916, with "Lady Bountiful," owned by A. D. Paterson, Ladner, and whose production was 13,027 lbs. milk and 515.4 lbs. fat.

and whose productions are the line she became the Darrymaid," up until the time she became the property of Mr. Davie, early in 1917, never had a chance to demonstrate fully her day capacity. During previous years she was modarly capacity. During previous years she was modarly capacity. During previous years she was modarly capacity count out in the rain and snow during fall and winter, and to roam the roadsides during summer, being chased and barked at by dogs, and, in meneral, being left to look after herself. Even under such conditions will the base of the summer of t

biggest milk yield for one day was 45.5 lbs., and her sreatest yield of butterfat in one month was 57.1 lbs.

During the six months, May to October, she received only good pasture. The following are the items of food sets: Hay, \$15.75; roots, \$7.20; chop, \$16.15; pasture, \$13; bran, \$5.30; sliage, \$9; and shorts, \$12.0; chop, shorts, \$12.0; ch

Testing Period Lbs. Milk Daily	Lbs. Milk	Test	Lbs. But-
Feb. 6th to March 5th 72 to March 31st 76 to April 30th 76 to April 30th 74 to May 12th 64.5 to June 12th 75.5 to June 12th 75.5 to Aug. 12th 62 to Sept. 12th 62 to Sept. 12th 64 to Nov. 12th 47 to May 12th 64 to Nov. 12th 47 to Jul. 12th 64 to Feb. 5th 5th 64 to Feb. 5th 64 to Feb. 5th 64 to Feb. 5th 64	1,971 1,976 2,220 774 2,190 2,015 1,922 1,620 1,457 1,565 1,128	4.0 3.7 3.2 2.6 4.2 3.4 3.5 5.0 5.1 4.6 5.1 5.0	78.8 73.1 71.0 20.1 99.6 74.5 70.5 69.2 81.0 74.3 57.0 79.8
Total	22,514		905.3

## Loss Through Low Grade Seed Samples of Seed Will Be Tested Free at Ottawa

THE use of impure seed is often the cause of considerable loss. Last season an Ontario farmer sowed flax containing several wild mustard seeds per ounce. This farmer considered that the use of this seed damaged his farm to the extent of several hundred dollars.

of several hundred dollars.

A Quebec farmer last spring sowed barley which
A Quebec farmer last spring sowed to be of very
last property of the several sever

a second time because the seed used had heated or otherwise lost its vitality. Grain is so scarce, and a crop failud means so much now that every consable precause should be taken this year against the seed of the seed of



Members in Attendance at the Annual Convention of the Manitoba Diarymen's Association, held in Win-

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