grain

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he has three quarters, the greater part of whch Book of Alfalfa. was covered with trees, and over 200 acres are under cultivation. Oats and barley are his main crops, although last season a field of wheat returned him at the rate of about 40 bushels to the acre. He had 1,100 bushels of barley, and 3,500 bushels of oats. Barley is his specialty. Last winter he won the championship cup at the grain show at Manitoba Agricultural College.

But the size of the barn shows that live stock boarders. Cream is shipped to Winnipeg. In should remain the same. the winter attention is paid to fat cattle with satisfactory returns.

## Corn Grown in Manitoba

On page 665 of our issue of May 4 appeared an illustration, showing corn grown on the farm of E. F. Lewis. A letter to Mr. Lewis regarding the production of this valuable fodder crop brought the following reply

Editor Farmer's Advocate :

The land on which the corn photographed was grown was run down and weedy. It wouldn't give half a crop of wheat, and we had decided to summerfallow it. We concluded it would be wise to plant part of it to corn and see which would raise the best crop of wheat the following year, that summerfallowed in the ordinary way, or that  $planted_c to corn and cultivated often$ to kill the weeds.

First we hauled manure on this land and then plowed it about 5 inches deep early in June, and harrowed it to get a fine seed bed. Then we drilled the corn with an ordinary grain drill in rows three feet apart, stopping up the other spouts, and harrowed it again before the corn came up to kill the small weeds that started. Later, we used the weeder for the same purpose, i. c., to kill the weeds and keep the surface of the land fine until the corn was several inches high. From that on we cultivated with a twohorse corn cultivator, going through it perhaps about once in ten days, until it was too tall to go through any more without injuring the corn.

The crop was cut in the last half of September. The best plan is to allow it to stand until there is danger of quite a frost. A light frost doesn't seem to hurt a field of thick corn much, and the fodder will be the better by its being as nearly matured as possible. An ordinary grain binder was used, cutting two rows at a time and binding it in bundles the same as grain.

It was heavy work for machine and horses, and if much corn is grown it would pay to have flushing out the bowl. a corn binder. The bundles lay on the ground a few days to dry, and then were put in large ated. shocks, tying the tops. We stacked some of it 6. Adjustment of the cream screw. about November 1, but made a mistake in doing

any other, even when saved under the most un- the test bottle with the same pipette as is used About 20 years ago Mr. Vann came West and favorable circumstances, should be impressed for measuring milk, any farmer can make a test for several years was a farm laborer. Now, upon the inexperienced."-From Coburn's The of his cream that will satisfy him as to the accur-

# DAIRY

# Why Cream Tests Vary

are not neglected. Twelve to eighteen horses and faction in the selling of cream. When the cream to the British markets, but whereas the Danish about half a hundred cattle are found. Mr. is from the same cows, which have been fed the trade is constant, the Irish output is practically Vann has over a dozen milch cows. He keeps same ration and milked by the same man, and confined to six months of the year. For geoa Babcock test, to ascertain the productiveness when the same separator is used, the farmer graphical reasons it can be understood that most of those that are doubtful and weeds out the naturally thinks the per cent. of fat in the cream of the Irish butter goes to the big towns and

> ly in taking the sample, but variations constantly Irish butter is superior to that from any other occur that are due to other causes. The most country, but what is at fault is the regrettable common causes of these variations, as pointed irregularity of the supplies both in quantity and out in a circular, No. 37, by Prof. C. H. Eckles, of quality. the Missouri Agricultural Experiment Station, Columbia, Mo., are as follows

Variations in the speed of the separator. 2. ated.



TWO-YEAR-OLD HOLSTEIN, JENNIE BONERGES ORMSBY--365 DAYS' RECORD: 16,849 kiel and the 56-lb. POUNDS OF MILK AND 832.90 POUNDS OF BUTTER

Rate the milk flows into the machine.

5.

be stabled. A windmill cuts straw and crushes alfalfa hay has a higher feeding value than almost chine and by measuring the sample of cream into acy of the test he receives from the cream buyer.

### Irish Butter Trade

Considerable interest attaches to the voluminous report, just published, containing the findings of the departmental committee on the Irish butter industry. The value of our exports amounted to well over £4,000,000 in the year. Variation in tests has caused much dissatis- Next to Denmark, Ireland is the largest supplier cities in the western districts of Great Britain. Errors are often made in making tests, especial- Merchants in England state that some of the

The committee hold that it is creamery butter that must be relied on to raise the reputation of Irish butter to the first position, and they believe Variation in temperature of milk separ- that creamery proprietors as a whole have not vet attained as great proficiency as is within

their power. Combined action among the creameries for the ruthless rejection of unsuitable milk is strongly recommended. Pasteurization is also suggested as a means of securing uniformity of flavor in creamery butter. The evidence also would indicate that the texture of Irish butter could be made more even, there being complaints that sometimes it is too soft and open. Packing is another essential point to which attention is directed, but in this matter a great improvement has been effected since a conference, in 1905, drew up a standard specifi cation for the 112-lb.

pyramid box. Next to creamery

butter, factory and dairy butter are the Amount of water or skim milk used in principal features of our export. They also are adversely affected by irregularity, and to Change in the richness of the milk separ- improve them, efforts must be put forth at the farmstead, and owners of factories are urged to encourage improvement by discriminat-Change in the speed of the separator is the ing between good and inferior samples offered by

Founded 1866

this, as it heated in the stack, while that left in most common cause of variation. The greater farmers, and paying a remunerative price for the shock kept in fine shape up to March 1, when the the speed of the separator, the smaller the amount better qualities. Of course, covering all classes of butter, is the

last was fed. The biggest trouble was to keep of cream and the higher the per cent. of fat. the stock away from it. It certainly is an ideal Again, the temperature of the milk separated strong appeal presented by the contents of this feed for all kinds of stock. Horses leave their varies on the farm from day to day. If cream report, on behalf of winter dairying. I make oats to eat it.

Flint and Longfellow Yellow Flint, and didn't when separated at 70 degrees. Under average con-stacles in the way of advance would be removed. see much difference between the two kinds as to ditions on the farm, however, the variation in fat We have had numerous experiments carried out to amount of fodder and time of maturing.

Longfellow seemed to ear the best, but not to more than 3 or 4 per cent. much of it got ripe enough for seed.

#### \* \* \*

is working with it nearly every day from the in the cream.

second week in May until November 10, insists The richness of the milk separated affects numerous. that alfalfa, under the same conditions of rain- the richness but not the quantity of cream.

the green or wet windrows to the sun and air with Small variations are likely to occur from the proposed to arrange, in conjunction with local

at which the milk flows into the machine. If the many natural advantages which the country

A grower in southern Kansas, who harvests less than the regular quantity flows into the bowl, possesses for dairving. With its adoption, irreguabout one thousand tons of alfalfa per year, and the tendency is to increase the per cent. of fat larity would be removed, tillage would increase,

tall is much easier to save in fair feeding con- The richness of a cow's milk depends on inheri- creamery inspection and authority to make regu-dition than red clover. He finds the side-de- tance and can not be changed permanently lations for the department of agriculture, and invest this retraining fully available to the side-de- tance and can not be changed permanently lations for the department of agriculture, and is also be retrained to the side-de- tance and can not be changed permanently lations for the department of agriculture, and is also be retrained to the side-de- tance and can not be changed permanently lations for the department of agriculture, and the side of the side-de- tance and can not be changed permanently lations for the department of agriculture, also

tests 30 per cent. when the milk is separated at bold to say that if this appeal were heeded and We planted two kinds, North Dakota White 90 degrees, it may test as high as 40 per cent. responded to properly, the greatest of all obdue to change of temperature will not amount demonstrate the profitableness of winter dairying, and unless Irish farmers rise to the occasion they A third cause of variation is found in the rate will, by their inactivity, only continue to nullify

and the cow stock of the island become more

The report suggests additional powers of these have created some controvery. It is also

aves and cared thes, after being other causes suggested by Prof. Eckles. By associations, a scheme for the establishment of a wet the neutral olor is better preserved. "That the use of an ordinary Babcock testing ma-special governmental brand for Irish creamery