

## Economy in Grain

### Feeding the Dairy Cow

The greatest factor in the economical grain feeding of the dairy cow, other than the ability of the cow to use her grain ration economically, is the supply of home grown roughages and grain feeds available on the farm. The roughages are of importance, for the richer, more succulent and more abundant they are the less grain feeding is necessary to secure the maximum milk flow from the cows. The home grown grain feeds are of equal importance, for they can be grown much more cheaply than they can be purchased, the quality is known, and the greater the supply grown, the smaller the capital outlay in commercial feeds.

In growing grains on the farm to feed to dairy cattle, the farmer must of necessity stick to the class of grains that will work in best with his rotation of crops. For this purpose oats can hardly be excelled and they are, as well, one of the best of grains for dairy cattle feeding. Another grain that works into a rotation very well, particularly as a nurse crop when seeding down a field, is barley. Greater use could be made of this grain in combination with oats in the dairy cow's ration. Where it is not desired to keep the various classes of grain separate, a very good yielding mixture, and a

very good feeding mixture, is found in peas, oats and barley, provided the selection of varieties is made so that they will ripen as near the same time as possible.

The farmer who has an abundance of good roughages, such as clover hay and silage or roots (preferably both), together with a supply of the above mentioned grains, will be in a position to feed his dairy cows both well and economically. He will be in a position to feed his dairy cows well and economically. He will be will, however, require some purchased grain feeds so as to balance the ration for his cows that they will have a sufficient quantity of protein. If the feeder had the choice of but one grain food (luckily he has many to choose from) he would be well advised to choose wheat bran to balance the ration. It is so largely sold that it almost forms a standard of values for other feeds and is consequently practically always economical to buy. When we add to this its many qualities as a feed, such as—high protein content; low fibre content; laxative and tonic qualities; palatability; and its bulkiness, it will readily be appreciated why it is always given a prominent place in the dairy cow's ration. Other standard grain feeds which are most useful in balancing a home grown grain ration, are oilcake and cottonseed meals. To many these grains seem extremely high priced but when we consider the purpose for which they are bought, namely to supply protein, they are the cheapest feeds that can be got unless that the price is relatively very high indeed. If their residual value as manure is considered and it is no mean consideration, they take first place as cheap protein feeds. Furthermore the grades of these commodities showing the highest protein content, even though somewhat higher in price than the others are the most economical to buy.

Another factor in economical feeding is a proportion in which the various grains mentioned should be included in the ration. This will depend to a certain extent on conditions. If there is a superabundance of the home grown grains, the proportion of the purchased grains could be cut down accordingly without materially affecting the balance of the ration. If alfalfa and clover hays are abundant in the ration the rich protein grains may also be reduced and the desired balance retained. If, on the other hand, there is a lack of these protein roughages and they are substituted by others such as timothy hay or straw, then more of the protein-rich grains are required to retain the protein balance which, it may be well to state, will under these conditions be retained at a loss. The following grain mixture, with the above variations, will be found economical; bran 3 parts, oats 4 parts, barley lot 2 parts, oilcake or cottonseed meal 2 parts, or 1 part of each.

The rate at which this mixture is fed is another factor in economical feeding. It has been found from experiments involving close calculation, that a safe rule to follow is to feed one pound of the grain mixture to every 3 pounds of milk produced in the case of fresh and especially productive cows; one pound to every 4 pounds of milk produced for the cows well on in their lactation periods, together with those naturally less productive; and one pound to every 5 pounds of milk produced with the cows that are winding up their lactation periods. In other words the amount fed must be arrived at by the joint action of the milk scales, the milk tester, the feed scales, and the judgment of the feeder.

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## Train Service Changes On Canadian National

### Slight Changes on Time Ocean Limited—Change on Fredericton Sub-division.


Time changes on Canadian National Lines effective February 27th show that No. 2 Ocean Limited will arrive at Newcastle from Montreal at 2:15 p. m. The time of No. 1 Ocean Limited is unchanged.

Trains No. 31 and 32 will be discontinued between Moncton and Campbellton, and run between Campbellton and Joffre.

On the Loggieville Branch No. 206 will leave Newcastle at 2:30 p. m. instead of 1:55 p. m. No. 207 will leave Loggieville at 3:35 instead of 3:25 p. m. Other trains are on same schedule as before.

Passenger trains No. 239 and 240 on the Fredericton sub-division will run tri-weekly instead of daily—No. 239 leaving Newcastle at 4:50 p. m. on Tuesday, Thursday and Saturday and No. 240 leaving Fredericton at 6:15 a. m. the same days. Passenger trains 27 and 28 will run daily except Sunday on same schedule as at present.

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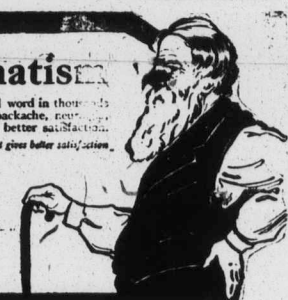
## SUCCESSFUL MEETING

"The Why of an Egg" meeting held last Friday evening in the Town Hall was well attended, and the lecture, illustrated with moving pictures, was greatly appreciated. The lecture was both instructive and entertaining and many hitherto unknown facts were presented to the audience.

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## Recollections of the Old Survey Days

During the summer of 1881, we were locating and running trail lines for the main line of the Canadian Pacific Railway along Nobsung Lake and down the Vase Creek towards Lake Nipissing. A Mr. Hogan was in charge of the party, that gentleman, and Emile Tetu leveler. At that time there was but one settler on Nobsung Lake, and what fishing there was in it!

While we were camped along the lake we used a lumberman's red boat to take us to and from our work, when we invariably trawled with a hand line and common spoon.

I recollect while rowing to work one morning, Duchesnay trawled. I sat looking on. Suddenly there was a tremendous tug at the line. Uttering an exclamation Duchesnay began hauling it in, but it was no easy matter. "Twas evident he had hooked a big one. Fortunately, however, the line was a stout one and the fish securely caught. After a brief and desperate struggle on the part of the fish, he was brought alongside of the boat. The question then was, how to get him on board? for we had neither gaff nor landing-net. At his belt, Duchesnay carried a neat little 32 calibre Smith and Wesson revolver. A brilliant idea occurred to me.

"Shoot it, Mr. Duchesnay," I called out. Promptly acting on my suggestion, at a range of a couple of feet or so, he broke his back with a bullet, killing him immediately and before its world old silence had been disturbed by the locomotive's whistle. Moose, bear, lynx abounded. Never a day passed that we did not see fresh tracks of them. The bear and lynx we never saw. What animals are more shy or wary? A moose occasionally we did.

One day, while running the line along a side hill, in the open brush country, we saw six magnificent moose. But, of course, no rifle was ever carried on the line and we could only watch them trot away. What strides they took, with what ease they negotiated fallen timber!

It was about mid-summer, if I remember rightly, of that year 1881, somewhere along the Vase. We had come out to work as usual, I was a



how much fishing has been done since those days, but unless it has been much fished it should still well repay a visit of any enthusiastic disciples of the gentle art.

Recollect we had but one common, large red and silver spoon. How the fish must have swarmed in the lake, then. What sport might not export fishermen have today, with rods and proper tackle? Where could they find finer camping grounds either, or lovelier wild scenery of lake and woods?

When we had left the lake a few miles with our survey we got into the undulating brush country along the Vase Creek. What a paradise that country was for sportsmen, then, before its world old silence had been disturbed by the locomotive's whistle. Moose, bear, lynx abounded. Never a day passed that we did not see fresh tracks of them. The bear and lynx we never saw. What animals are more shy or wary? A moose occasionally we did.

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rodman on that survey; that morning, however, one of the chainmen was laid off, for sickness or something, and I was told to fill his place.

As usual, that morning, Duchesnay set up his transit, and as usual the axemen lolled about, lighted their pipes, or gave a final touch with whetstones to their axes, while they waited for line. In a few moments the transit was in readiness and Duchesnay turned to me.

"Get a good stout four by four inch, four foot dry stake, like a hub-stake, blaze it like a hub-stake, and mark on it with red keel, in big letters, 'C.P.R. Station O'." From now on this line will be known as The Canadian Pacific Railway, not The Canadian Central." He turned to the men. "All right, boys, stick up a picket and get line now."

Thus I had the distinction of making and driving in the first station stake marked, C.P.R.

I think there is a station now somewhere about there, called Calender.



## "I Cannot Go"

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