Science and Practice in Dairying

"Professor at the Milking Stool The time is about to come when the question will be asked very frequently, will it pay to feed cows grain, bran, or any other concentrated feed? For the most part, pastures have been good up to the present, but nearly everywhere we have gone, the cows seem to be very thin in flesh and on many of ther 1 is to be seen the old hair which ought to have been in ded in the spring and would have been had the cows been in good conditions to the scarcity of feed during the past winter, false economy, with reference to feeding cows, was practised by may of our dairymen. The principal control of the time is about to come when the erence to feeding cows, was practised by may of our dairymen. The princi-ple of feeding a cow when dry, so that she may build up her system cannot be emphasized too often nor too strongly. Owing to the thin condi-tion of cows and the probable high price of dairy products, the question of feeding cows some extra feed dur-ing July and August is of mort than usual importance. While it is never and July and vagues is of notes that usual importance. While it is never safe to prophesy regarding price of dairy goods in the future, all signs indicate an unusually strong demand for milk, butter and cheese during the year 1908. In order to meet this probyear 1908. In order to meet this probable demand and receive the benefit of the accompanying high prices, farmers outh not to allow their cows to shrink in yield of milk because of drying pastures. It is a well known fact that once cows go down in their

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milk through lack of food, it is almost impessible to bring them back again to their normal flow.

THERE WAVE TO SUPPLEMENT DASTURE

There are three ways of supplementing the pasture crop, viz.; by the use of soiling or green crops; by feeding silage made from corn grown last year; and by the use of meal or other concentrated food, such as branoii meal, cotton seed meal, or one of the many prepared feeds now sold to farmers

the many prepared feeds now sold to dairy farmers.

At the West Virginia Experiment Station, three tests were made with 12 cows divided into two lots, one lot received grain, in addition to pasture, and the other had grass only. In the first test of 28 days, the cows produced 382.75 hs. more milk when fed grain in addition to pasture, but the state of the centra milk 7.6 cents a quant. Unless a high price were received for the milk, it is evident that in this case, the extra milk was produced at a loss. In the second test, the results were more unsecondicts, the results were more unsecond the state of the centra milk produced by grain feeding. In the summary, the author of this bulletin says: This experiment clear in feeding and the more of the second control of the second six in feeding and the second six in feeding arms to the second six in the sec

In the summary, the author of this bulletin says: "This experiment clear-ly shows that there was no direct fi-nancial gain in feeding rain to the cows while at pasture. It is true that the cows while at pasture. It is true that the cows while received grain were uniformly in somewhat better flesh but as far as the milk yield was con-cerned, the increased flow was pro-duced at a loss." duced at a loss.

A PROLONGED AFTER-EFFECT

Doubtless, the foregoing deduction is correct for this particular experiduction is concerned, but the extra condition of the grain-fed cows proba-bly made an increased yield of milk later on, or at the next lactation, which more than offset the apparent Many dairymen follow the plan of giving the cows some meal throughout the year and claim that they are more than paid for the extra cost by more than paid for the extra cost by the improved appearance of the cows and more persistent milk flow. That this is more than likely to be the case with the average herd is indi-cated by an experiment conducted at the Cornell Station, thace, N.T., where a herd of cows belonging to a private person was selected for a sin lar experiment to the foregoing. The

herd was not accustomed to any grain in summer and very little in winter, which is the too common lot of "average" herds in both Canada and the United States. The herd was divided into two lots—one of them fed grain in addition to pasture and the other received no grain. The lot fed grain consumed 1,300 lbs. wheat bran, 1,300 cotton seed meal and 2,600 lbs. corn meal. This lot averaged 13.4 lbs. corn meal. This lot averaged 13.4 lbs. milk a cow daily. The other lot, with no grain, gave an average of 14.4 lbs. daily. The writer says: "There was a constant and well-marked increase in

constant and well-marked increase in the yield of lot 1 which received the grain. This increased milk yield amounted to almost exactly 5,000 lbs. milk for the eight cows during 29 weeks. The grain cost about \$71,50, making the increased milk yield cost alichile ware than the same of the contract of the contract of the silichile ware than the contract of the contra slightly more than three cents a quart Where milk is retailed at five or six where milk is retailed at five or six cents a quart, grain feeding, as in this case, would be a paying proposition. The lot fed grain gained on an aver-age, 53 lbs. more in (live) weight dur-ing the test than did those without

IN FAVOUR OF GRAIN

But this is not the whole story. The Cornell station got the record of these cows the following season and for six months, the lot which had received grain the previous year gave 480.2 lbs. more milk a cow than did-those high. lbs. more milk a cow than did these which had not received grain. This gain represents an increase of 16 per cent. in favor of the grain-fed lot, which was in large measure due to the grain fed during the previous sea-son. This was more particularly the case with the younger cows. The wri-ter says: 'It was plainly evident that the grain-fed two-pear-olds and three-the grain-fed two-pear-olds and three-heir stable-makes having no grain.' grain

We should strongly advise the feed-We should strongly advise the feed-ing of from two to four lbs. grain a cow daily during July and August, believing that it will pay in extra milk and increased thrift; also be a step in the general improvement of the dairy herd. All these things tend to cause an alvance in the milking power of a herd. This pays either di-vertible or indirectly. rectly or indirectly.

Cattle on Highway

In a township where cows are allowed It is township where cover as to a companied by a herdman, has any farmer the right to set his dog on the cover and returned them past his place? If not, is the herd them past his place? If not, is the herd them to be to the dog. What is the place with the total of the trouble?—I. J. H. Wentworth Co. Out.

A Township Council may pass by laws allowing cows to run at large on the highway, and may make provision that such cows must be accom

panied by a herdman.

When cattle are thus running lawfully at large it is unlawful for any person to set dogs after the cows, and the herdman may take reasonable prethe herdman may take reasonable pre-cautions to prevent the cows being in-jured by a dog, and in extreme cases he might even have the right to shoot, but we would not care to enumerate just when, and just when he should not, exercise such an extreme right, covering such an extreme right, end with so, many restrictions that the herdman would be liable to legal pen-atities for carrying a gun, and we alties for carrying a gun, and would suggest either using a clul the dog, or if necessary applying to the courts for an injunction restrain-ing the owner of the dog from inciting the dogs to chase cattle.

Protecting Turnip Seed.—To protect my turnip seed, against the fly, I mix a teaspoonful of coal oil with every four pounds of turnip seed. The mixture is stirred thoroughly and left until it is fit for sowing, which is about two hours. If more coal oil than the amount mentioned is used it becomes difficult to get the seed dry enough for sowing. I have prepared my seed twice this way with excellent results. Formerly I used excellent results. Formerly I used the fly Several of my off the seed in this way.—R. M. Loveless, York Co. Ont. Protecting Turnip Seed .- To pro



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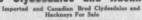
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