Creamery Department

Do You Believe in Grading Cream?

Do you believe in grading cream? If so, let the Canadian Dairyman and Farming World know it, by answering the following questions:

1. Is grading cream practicable for the average creamery?

2. Would the educational effect of

such grading procure a better quality of cream at the creameries?

of cream at the creameries?

3. What extra expense would be involved in grading patrons' cream according to its quality?

4. Should the maker do this grading free of cost or should he be paid for the extra work involved?

We would like a liberal response to these questions. Send your replies to the editor of this Department. . . .

Farm Dairy Work

Miss Bella Miller, Guelph, People are interested in noting im reopie are interested in noting improvement and advancement in all lines of work and in Agriculture as well as in other callings. We take pleasure in watching the "forward movement."

In the Section of the call of the call

movement."

In the fields there is a saving of both time and labor through the using of improved machinery. In the stables, orchard, poultry house, or whatever department we may mention, much has been done to make work more pleasureable as well as weefitable.

profitable.

In the farm dairy many changes
The brought about. The bar-In the tarm dairy many changes have been brought about. The bar-rel churn and lever worker have tak-en the place of the dash churn and butter bowl; the cream separator has butter bowl; the cream separator has become the popular method of cream-ing the milk; the large rolls of but-ter are now rarely seen, but in their place we find the one pound bricks neatly wrapped in parethemet on which is printed the name of the dairy farm. dairy farm.

dairy farm.

There is another phase of dairy work that our attention is being very especially called to, and that is the keeping of cow records and testing milk at the farm. Although this work is carried on to a greater or less extent on a few farms, yet the large majority of cow owners are unable to tell which are the most profita-ble cows of their herd.

ble cows or their herd.

In Ontario to-day we find many unprofitable cows kept, just because their keepers do not know how much or how little they are making for this pocket-book supply. To know this, it

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Creamery Department and test it for fat. The women as well as the men are interested in knowing how many pounds of butter each cow is producing in a year, and it may be that it will fall to the lot of some of the younger mem-bers of our Women's Institutes to take charge of the cow records and do the testing on the farm at home. For those who want to keep an accurate record it is necessary to weigh the

milk of each cow at every milking.
To make a record sheet, rule a To make a record sheet, rule a piece of paper putting the names or numbers of the cows along the top and the dates down the side. These may be made to hold a week's markings or more. Hang this sheet and a pencil near the weigh scales. The more conveniently these things are arranged the less time it will take to do the work

Some people weigh the milk occa-sionally and then estimate the amount produced in a given time,

amount produced in a given time, thus getting a close estimate of the amount the cow gives—for example, and the sixteenth of each month, which would be practically every fifteen days, and, multiply the weight of milk given in one day by fifteen, a satisfactory record will be secured. The work of weighing the milk does not take as much time as some imagine, and perhaps there is nothing that makes a man take more interest in his herd and what it is producing than the keeping of a record. The testing is easy work and very interesting, and the one whose duty it is to attend it will take very interesting, and the one whose duty it is to attend it will take pleasure in it. Some take samples only occasionally for testing, and get an idea of the amount of butter-fat in that way, while others take a samin that way, while others can be apple at every milking, keeping what are called composite samples, such as are taken at creameries. These as are taken at creameries. The may be kept and tested at the end two weeks or may be kept a month if properly eared for.

properly eared for.

In testing milk we must take our samples fairly or the results will be misleading. If we want to take a sample of a cow's milk, we should have all the milk that was given at the milking in the pail. It should then be poured or stirred to get it thoroughly mixed before taking the sample.

Often the first few streams of milk Often the first few streams of milk have been taken or the strippings have been used for a sample, and then wonder has been expressed at the extraordinary results. In taking the samples of milk for the test bot-tle, care should be exercised to have tle, care should be exercised to have the sample well mixed and the exact amount in the pipette. If the sul-phuric acid is of the right strength, by filling the acid measure to the mark we will have the right amount to give the fat a bright golden ap-pearance. If the acid is a little weak use a little more, or if a little strong use less.

The question is asked why do we sometimes have burnt readings and sometimes light colored ones. There are several conditions that would cause trouble. Burnt or cloudy readings may be caused by using too tings of the color of t The question is asked why do we

EMPIRE Cream Separator MOST BUTTER FAT, MOST PROFIT

Get the separator that gets most but-er fat from the milk—and you secure most profit. Such a machine is the Frictionless Empire.

In many machines the butter fat, when separated, is left to find its way through a great quantity of milk to the centre where the cream outlet is.

machine of this kind it is im .o.e for all of the butter fat to find its

In the Empire the bowl is nto seven compartments. The first separation takes place in the compart-ment nearest to the centre and the butter fat as soon as separated is forced to

THE EMPIRE CREAM SEPARATOR COMPANY OF CANADA, Limited Western Office, WINNIPEG

the top of the compartment where is tuated the cream outlet.

This operation is repeated in each successive compartment, and in this way the milk is subjected to seven distinct separations, each more complete than the preceding one. When operation is completed there is not a partice of butter fat in the skim milk. Remember, we absolutely guarantee the rationless Empire to skim as close es any other Separator In existence. Another the Englishment of the comparation of th This operation is repeated in each

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overcomes every opposition that can be raised against the use of a Check Whey Pump. It is guaranteed to work per-fectly under all conditions, cannot clog. Check does not come in contact with the whey or any part of the mechanism of the Pump, which is very simple and cannot get out of order.

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use since 1905, giving perfect satisfac-tion although subjected to most severe

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Lests. Press Prince of Wales Cheese Factory, Campbellford, Ont., writes the property of the property o

Write for Prices and Description THE DAULEY CHECK PUMP CO., MORRISBURG, ONT

bottles in a pail of warm water (140 deg. to 150 deg. F.) having the water extend to the top of the fat. This will keep the fat in a liquid condition in the neck of the bottle until the

readings are taken.

The Babcock tester is useful for The Babcock tester is useful for testing all dairy products and by-pro-ducts. It is a help to occasionally test the skim-milk and butter-milk and to watch that there is not an un-necessary loss in the skimming or in the churning. If selling cream for a city trade it is a good plan to test it, as cream should be sold according to quality.

10. 10. 10. A New Feature in Dairy Shows

In addition to the working cream-ery, which is now an established-feature of the larger Canadian fairs, the Texas Dairyman's Association is arranging for plans of creameries sanitary milk plants, dairy houses, dairy barns, silos, etc., to be exhib-ited. This is intended as an object lesson to those who desire to build. At the Dallas Fair premiums will also be offered for photographs of the best arranged and most sanitary

dairy farms.
This is something our larger fairs This is something our larger fairs for plans of cheese factories, cream-eries, dairy barns and photographs of dairy farms, etc. would bring toge-ther a lot of valuable material that would be of great assistance to the dairy industry. What fair association will be the first to lead off in this direction?

reatings may be caused by using too little acid: by using acid that is too weak, by having the milk or acid at too low a temperature, or by not shaking the bottle sufficiently to thoroughly mix the milk and acid.

If the room is cold or if you have too many samples to read, set the

was some advancement. dency to make butter, when condi-tions are favorable is increasing. This is taken as an indication that cheese available for export is not likely to increase very much in the near future.

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