EGGS, BUTTER and POULTRY

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PROMPT RETURNS Established 1954

The DAVIES Co. Toronto, Ont. WANTED

A First-Class Dairyman. Must be well acquainted with ice-cream making, pas teurization of milk and operating milk condensing plant. Best of references re-Apply, stating experiences and aninad salary expected, to

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WINDMILLS Grain Grinders, Water Boxes, Steel Saw Frames, Pumps, Tanks, Etc. COOLD, SHAPLEY & MUIR CO., LTD Brantford Winnipeg Calgary

FARM FOR SALE

m offering my 200 acre farm for \$7,500 : a quick sale. Ill health does not perm y continuing farming longer. The soil y a clay loam, 150 acres of which are und vation. This was originally two farms an are two sets of farm buildings on the piac atte and soil are excellently adapted ; clover, wheat, other grains and affalf a alfalfa growing contest conducted by Climate and what, other grains according to corn, clover, wheat, other grains according to grain and affalfa growing contest conducted by Farm and Dairy secently, a field on my farm secured a high placing. We are just 3 miles from the village of Keene, where are churches achoes and railway connections. At \$1.500 rent to suitable party. None others need apply rent to suitable party. None others need apply

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Raise healthy, thrifty, vigorous calves at the lowest possible cost. You can do this by using

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"The Stockman's Friend (Made in Canada)

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Ask your dealer for Calfine. If he does not handle it, send us a money order for \$2.75, and we will send 100 lbs. to any station in Ontario. We pay the freight.

CANADIAN CEREAL AND MILLING CO., LIMITED TORONTO, CANADA

Creamery Department

Buter makers are invited to send
contributions to this department, to
ask questions on matter relating
to butter making and to suggest
subjects for discussion. Address
subjects for discussion.

Why Rich Cream

One of the advantages of the one of the advantages of the cen-trifugal cream separator over the gravity method of creaming milk is the opportunity it gives the farmer to skim a cream of any desired rich-ness. A rich cream is a distinct ad-yantage to both the farmer and the vantage to both the farmer and the buyer and a standard separator will skim a rich cream as efficiently as it will skim a thin cream. The benefits a farmer will receive from skimming rich cream are:

1. More skimmilk is retained at

the farm.
2. There is a smaller quantity of

eam to cool.
3. Fewer cans and utensils for ansporting the cream are needed.

transporting the cream are needed.

4. There is less bulk to transport.
The benefits of a rich cream to the ream buyer are:
1. Less vat capacity is needed for

storing and ripening.
2. Fuel is saved in heating, and ice

Fruel is saved in heating, and ice in cooling the smaller bulk.
 The cream can be churned at a lower temperature and thus improve the texture of the butter, as well as save losses in the butternilk.

the butter.

Why we Should use Scales

J. F. Singleton, Asst. Chief Dairy Instructor, E. Ontario

The sample used in the Babcock test should be a definite weight in all cases; either nine grams or eighteen grams. This cannot be obtained with any pipette as the weight of cream delivered by a pipette from time to time or from sample to sample, will vary from several causes.

The most important of these causes is the variation in the richness of the As the percentage of fat in cream. cream increases, the specific gravity of the cream decreases. Cream may, in actual creamery work sionally does, test as low as 13 per cent and as high as 45 per cent. The lower the percentage of fat in the cream, the heavier the sample which will be delivered by any pipette; and the richer the cream, the lighter the sample which it will deliver. Mani-festly, a pipette which will deliver the correct weight of a certain cream will not deliver the correct weight of a richer or poorer cream.

A second cause of inaccuracy

using a pipette is that it is difficult to thoroughly rinse it, after delivering the sample into the test bottle, with as small a quantity of water as may be added to the test bottle. Usually a variable quantity of cream, which should go into the test bottle, remains in the pipette. The difficulty of rinsing a pipette is largely overcome in using a nine-gram bottle, the nine c.c. pipette, and nine c.c. of water. A third source of error in using a

pipette may be the presence in cream of gases due to souring or other fermentations, and the presence of air incorporated in pouring the sample. Of course, the presence of air and other gases in the sample will lessen the weight of cream delivered ty a pipette. This source of error is likely to be greatest in rich cream, as the richer the cream the more will it tend to retain the air and gases.

will not test as highly as the same cream that we can hope to realize the cream would have tested before it had full effect of a good starter, also to become sour. This assertion has been full effect of a poor starter, used quite freely as an argument Aeration of cream during pastegue. become sour. This assertion has been used quite freely as an argument that it is in the patron's interests to keep his cream sweet, and thereby steps in pasteurization. Ours day obtain a higher test. In order to ascertain what truth there is in this such odors that, firstly, affect the an argument. I have tested several such odors that, firstly, affect the an argument of sweet cream with both each sea had pipette, and then allow-ed the samples to sour in tightly stoppered bottles. After they had become sour they were sampled with a line of the sample of the sample of the sample of the samples to sour in tightly stoppered bottles. After they had become sour they were sampled with a line of the sample of the come sour they were sampled with a pipette, without being warmed, and then they were warmed to 100 degrees and sampled with both scales and pipette. Following are some of the results . Sweet Cream

Sour Cream. ream Warm Cream Sweet Cream. Sour Cream.

Cold Cream Warm Cream
Scales. Pipette. Pipette. Scales. Pipette
41 39 No test 41 39 36.5 34.5 33.5 36.5 30.0 32 34.5 32.5 36.5 35 36.5 G .. 35 H .. 30 29.5 29.5 30 30

These figures are typical of the results obtained in several more such Practically no difference, be-reasonable limit of error, is tests noticed between the tests of the same cream, sweet or sour, when the sour sample is warmed to 100 degrees besampling. In some cases a slightly where the sample was taken without warming. It is quite possible that in special cases, say with very gassy cream, this error would show greater than in these figures, as these samples soured quite clean in flavor.

Profitable Outside Work

Let a buttermaker induce a patr to raise a piece of fodder corn for fall feed, and it is safe to say that the farmer will think a great deal more of the buttermaker than he ever did. He will first be thankful for the good He will first be thankful for the good advice, and he will also have cultivat-ed a respect for the buttermaker's opinion, that he would not have acopinion, that he would not have ac-quired otherwise, and when the but-termaker talks better care of milk and cream, the patron is not going to turn him down as quickly as he would if he had no confidence in the butter-maker's ability and good judgment. Some buttermaker will say that they have all they can do to talk quality to their patrons, and some may even claim that the amount of may even claim that the amount of butterfat produced by their patrons does not concern them. This is, how-ever, a serious mistake, and it is not hard to understand that if a patron is making money from his cows he be much more interested and will be much more interested and it will take less urging to induce him to produce cream of good quality than it will if dairying is merely considered a necessary drudgery, and the buttermaker who can assist his patrons to produce butterfat more economically will find that the im-provement in quality will come much easier.—Dairy Record.

Objects of Pasteurization

Martin H. Meyer, Madison, Wis. Our first thought that comes to us we think of pasteurizing cream for buttermaking is to free the cream as much as possible from undesirable flavors, odors and tastes. Our second thought, following the anticipated re-sults of the first thought, is to pro-duce a more uniform product of increased keeping qualit

Both of these thoughts are fully realized if all processes connected with it tend to retain the air and gases.
This factor is of greatest influence
when the sample is not properly
warmed before sampling.
There is a common impression
among creamery men that sour cream
addition of a pure lactic

August 1, 1912.

of various odors. We also insure uniformity of quality crease the keeping quality of In addition to this, it tends us a more stable market.

Fifty Thousand Men Required Farm Laborers' Excursions — This Year's Wheat Crop will be the Largest in the History of Canada.

The wheat crop of 1912 will be the greatest ever harvested in Manitol Saskatchewan and Alberta, thus quiring the farm laborers of to recruit and assist in harvesti the World's greatest bread basket

The Governments of the re-The Governments of the respiration of the provinces state that fifty thou men will be required for this y harvest. These will have to be cipally recruited from Ontario, the prosperity of Canada depend the prosperity of Canada depends securing labor promptly. The Cradian Pacific, on which company a fall practically the entire task transporting the men to the We is already making special arrangements for this year. Excursions to points in Ontario to Manitoba. St. points in Ontario to Manitoba. So katchewan and Albert, will be n and special trans operated, making the trip in about thirty-six hours as avoiding any change of cars or transport. This will be a day shorter that any other route

Dates, rates and conditions will b announced in a few days. Cons

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FARM FOR SAIF IN SMITH, 4 miles Peterboro. Well watered. Solid house, frame barns, clay loam -Mr J. Tully, 2nd Line Smith, Peter Out.

Ont.

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FARM Want to buy good farm, from own only; state price and description. dress-MANGEL, Box 754, Chicago, Ill.

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PAY ACCOUNTS FORTNIGHT!
ICE NOT ESSENTIAL
Write for particulars.

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ern Ontario. Apply to MARSHAL RATHWELL, NAVAN, ON



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either 3 inch or 4 inch size, order early and make your own comes early and make your own cemest tile for spring use. Capacity's pends on speed of the openion ranging from 300 to 500 tile per day. Send for literature.

WILLIAM JOY, Box 278, Napages, 66.

Cheese I Makers are investions to this

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