Creamery Department

Five Years Experience in Making Butter for Exhibitions

W. M. Waddell, O. A. C., Guelph, Ont. .

H. M. Fudiell, O. A. C., Guelph, Ond. .
During the last five years I have
practised the following method in
making butter for show purposes and
I credit my success at the different
exhibitions to doing so:
About one week before the exhibition date, the butter-maker should be
on the alert for a nice cool night. If
the necessary precautions have been
taken in earing for the milk, the raw
succeeding morning will be of a superior quality.

Every bit of machinery through or

erior quality.

Every bit of machinery through or over which the milk has to run must be thoroughly cleaned and be germ free. It is advisable to start the separators and skim for eight or ten separators and skim for eight or ten minutes before the cream is allowed to run into the vat for exhibition pur-poses. The separators should skim a 35 or 40 per cent. cream for the best results. The flushing should never be allowed to run into the exhibition

cream. Immediately after skimming pasturization should be commenced. The cream should be heated to 160 or 125 degrees F. and kept at this temperature for 20 minutes. Puring the pasturization, the cream should be gentily agitated so as to prevent a layer of nitrogenous matter from forming over the cream, also to secure a uniform pasteurization and no cooked flavor.

form pasteurization and no cooked flavor.

This process of butter-making may be auccessfully followed in a creamery where there is neither a pasteurizer nor a cooler. The pasteurization and cooling may take place in the creamer val. Steam hose the cooler was been as the cooler with the cooler was the

form thickness and temperature. After the cream has stood at a low temper-ature for three or four hours, or even ver night, churning operations may be started.

Before transferring the cream from Before transferring the cream from-the vat to the churn about 20 per cent. of a good clean flavored culture, show-ing an acidity anywhere from .5 to .75 should be added. This insures the desired flavor and aroma. The temperature of the cream will. The temperature of the cream will then the control of the control of the control of the culture which ought to be within the range of 60 and 65 degrees F. The churning should be finished

F. The churning should be finished within 30 or 45 minutes, all depending

Get acquainted with **Black Watch**

the big black plug chewing tobacco. A tremendous favorite everywhere, because of its richness and pleasing

upon the speed of the churn; the tem-

upon the speed of the churn; the tem-perature and richness of the cream and the season of the year. Just at that point when "breaking" begins it is well to add a pail of cold brine, which helps the particles of butter to adhere. The churn should never be allowed to revolve after the granules are the size of wheat grains. The butter-mik should be drawn off immediately and the butter permitted to drain for 10 the butter permitted to drain for minutes. The butter should now sprayed with fresh well-water at sprayed with fresh "l-water at a temperature about 20 degrees higher than the churning temperature. When the spray water runs off fairly clear the tap should be closed and more water than there is butter-milk should be added. To wash the butter the churn should be revolved at high speed from eight to fourteen times. A soon as washed the wash water should be allowed to run off and the butter permitted to drain again for 10 or 18 permitted to drain again for 10 or 15

minutes.

Salting and working are the next steps. If the butter is for a saltless exhibit 4½ minutes with a Success combined churn and worker will be sufficient. If the butter is to be salted it should be worked anywhere from to 7 minutes as judgment de-

mands.

The packages in which the exhibit is to be made should be neat, clean and as attractive as possible. If the prize list calls for a solid package the firkin, crock or box should be filled as firkin, crock or box should be filled as near to the top as possible. Points are taken off when a box is improperly packed. Double linings should always be used. All box-linings should be soaked in a strong brine solution for at least 12 hours.

The butter should be placed in cold storage as soon as possible after manufacturing. It is best to arrange the date of making so as to have not more than one week between manufacturing.

ing and scoring.

Ing and scoring.

NOTE—It might be well to point out that Mr. Waddell has been a very successful competitor in butter exhibitions in this and other countries. For three years previous to going to the O. A. C. he held the sweepstakes for Ontario at the Western Dairymens' Association Exhibitions. He has taken Ontario at the Western Dairymens' Association Exhibitions. He has taken first and second prizes at Toronto, London, and Ottawa. At Toronto this year his butter scored only one-quarter of a point below the butter that won the trophy. In point of fact Mr quality, but through some cause the box was broken on top and the judge scored the butter down on finish. In 1907, Mr. Waddell won the gold medal at Ottawa. This year he entered the lists with American makers at the New York State Fair at Syracuse. There were seven entries in the class. Mr. Waddell's Dutter won the first prize of \$30. At Syracuse also, the Misses Jappes, of Cobourg, Ont., showed in the womens' class and carried off the first and second prizes. Canadian butter-makers evidently are capable of holding their own with the best.—

Making Prize Creamery Butter

Ed., The Dairyman and Farming World:—Before I began making the butter which won the 8md prize in creamery prints at the Toronto Exhibition this year, I sent out instructions to my patrons by the creamhaulen, stating that we were going to make butter for the show, and asking

the butter came in about 30 minutes The butter was washed once with water at 50 degrees and then worked

and salted in the usual manner.

I might say that the same method was adopted last year when I captured the trophy with a score of 9734 points. My score this year was 9634.

—R. M. Player, Bruce Co., Ont.

The Skimming Station System Advocated

The Editor Dairyman and Farm-ag World,—There is no reason why the skimming station system could be adopted and carried out successfully in some parts of the 3.745 574 square miles of Canada. With view to improvement in quality, it must be admitted by all that this is the system to be preferred. No doubt the cream gathering system could be made just as good if the farmers would take a little more care of their cream. In many instances, the grammer of the cream of the country of the c would take a little more care of their cream. In many instances, the cream is delivered every second day only, or two or three times a week, with the result that when it reaches the factory it is found to be inferior in quality and in my opinion, it is impossible to treat it scientifically so as to be able to make a sound-keeping butter. Of course, in districts where the roads are in a bad condition. or where the distance from the factory or skimming station is too great for the hauling of milk, farmers are justified in adopting the principle of home separations...

adopting the principle of home separations...

The skimming station system is an important factor in the production of butter in New Zealand, some parts of Australia, and in the Republic of Argentina and in the Republic of Argentina none of these countries are pasteurizing their cream; they owe much of their success to the freezing principle. For the success of both systems a factory of modern description is required. The proper application of artificial cooling power, and also practical and scientific management. Therefore, I take this opportunity to impress upon those who intend to engage in the industry, the importance of starting all new business, if possible, on the skimming station system.—Geo. Nielsen, York Co., Ont.

How the "Trophy" Butter was Made

Ed., The Dairyman and Farming World:—I exhibited at the Toronto Exhibition this year and won several prizes, among them the silver cup trophy, awarded for the highest scoring butter. The butter exhibited was made from whole milk, but by two different processes for the different sections. The butter made by each process secred an equal number of points.

process scored an equal number of points.

In the first process the milk of the previous night was brought into the factory with the morning's milk and separated, giving a cream testing about 50 per cent. Int. The cream was at once pasteurized to 184 degrees and immediately cooled to buce degrees. Sufficient pure cuto an aciddegrees. Sufficient pure culture fer-ment was added to bring it to an acid-ity of .35 in 24 hours, when it was churned. Churning occupied about one hour. Two per cent. of salt was

creamery prints at the Toronto Exhibition this year, I sent out instructions to my patrons by the creambalers, staint that we were going to make butter for the show, and asking them to take every precaution and to send in as sweet cream as possible. These instructions were carried out very well by the patrons, but the weather being to your milition.

Upon arrival at the factory the cream was pasteurized at 160 degrees and immediately cooled to 56 degrees and immediately cooled to 56 degrees and immediately cooled to 56 degrees and immediately cooled to the degree and cooled to t

If you should ask prize Butter-Makers what salt they use - they would say, "Windsor." For Windsor is the choice of Canadian dairymen everywhere. Ask your grocer. ındsor

.14; percentage of pure culture used, 2. The temperature of the cream after adding the pure culture and at the commencement of churning was 48 degrees. The time of churning was 45 minutes and 2 per cent. of salt

was used.

The latter process makes a very mild butter, less pronounced in flavor than that made by the former one. It is also of butter keeping quality.—

J. H. Leclerc, Foster, Que.

Can you suggest a new and better name for The Canadian Dairyman and Farming World? If so, do so and win a prize. Notice our announcement on Page 3.

FOR SALE AND WANT ADVERTISING TWO CENTS A WORD, CASH WITH ORDER

MUST SELL.—Good brick creamery in Western Ontario, doing good business, \$1,200, Box "S" Canadian Dairyman. E 12-2

FOR SALE—Two DeLaval Cream Separa-tion—Son-Two DeLaval Cream Separa-junt had these overhauled—now like new Original cost, \$300.00 and \$155.00. Bar gain at \$55 and \$60. Remember Luce best kind. Heason for easl, am not now on the farm. Address, W. Z. X., Canadian Dalryman, Peterboro, Ont. — \$4-85

CHESS FACTORY FOR SALE. Tender will be received by the undersigned util Thursday, the 5th day of Octobe undersigned to the state of the

THE WINTER FAIR GUELPH, ONT. DECEMBER 7TH TO 11TH, 1908 OVER \$10,000.06 IN PRIZES

A. P. WESTERVELT, Secretary, Tor

Don't Bite

"Coupon Di-counts" and "Free Tuition" are familiar baits. They belong to the "something-for-nothing" class, and therefore are to be avoided. Only schools that cannot compete on their merits

The British-American **Business College** Yonge and McGill Sts., Tore

and you will have no regrets.

Fall Term begins Sept. 1st.

Write for Catalogue.

T. M. WATSON, Principal