Creamery Department

Points in Judging Dairy Products

The arrangement and judgment of The arrangement and judgment of butter at shows, was a question hand-led by Prof. W. J. Carson at the re-cent Manitoba Dairymen's Conven-tion. He said that he had visited many shows, and was surprised at the lack of facilities available for handling dairy products. The defects lay in lack of means for protecting the pro-ducts from heat, and from handling by spectators. He showed a plan of a refrigerator that would be suitable a refrigerator that would be suitable for the average show, and estimated the cost of one 12 feet long, at \$30. This refrigerator was constructed on the same principle as the one used at the Manitoba Agriculture College, and it was found quite praticable to keep the temperature down to 34 degrees. The ice box should be abut a foot deep, and should run practically the whole length of the refrigerator.

cally the waves being carator.

More attention should be paid to dairy products than is now given, said Prof. Carson, and the prizes should be at least as good as those in other classes of exhibits. As a rule, where the prizes were poor, the chitis were poor. In judging butride, where the prizes were poor, the exhibits were poor. In judging butter and cheese, a score card should be used. On this card 45 points are given for flavor, 25 for body, 15 for color, 10 for salting, and 5 for finish. Each agricultural society should print a copy of the socre card in their prize

a copy of the source that is the Prof. Carson also strongly urged the Prof. Carson also strongly urged the processity of choosing competent judges—men who were familiar with the requirements of the market.

Should Sell Direct

Should Sell Direct

The necessity for Canadian dealers or manufacturers of dairy products, getting in touch with foreign buyers direct, insteal of through commission merchants in New York and San Francisco, was brought to my attuntion a few days ago, reports Commercial Agent W. T. R. Preston, from Cal Agent W. T. R. Preston, from the contract of the contract of the contract of the largest in the East, had ceased importing this manufacture, because a shipment that had been received through a San Francisco commission merchant had proved very unsatisfactory—in fact quite unsaleable. The San Francisco house retuged to discusse the subject, when complaints were made, and the result was that the commodity was dropped from the lased of the commodity was dropped from the lased of the commodity was dropped from the lased of the complaints were made, and the result was that the commodity was dropped from the lased cleave the chases. list of future purchases, and was re-

list of future purchases, and was re-placed elsewhere.

There is an undoubted possibility of creeting a good market in the East for Canadian cheese. But this, like that of other commodities, will ssitate active business enterprise.

CANADIAN BUTTER IN JAPAN

The cost of transportation of butter

12,500 miles, occupying about six weeks, 310 a ton; or, if carried in cold storage, an increase of 25 per cent., making the charge \$12.50 a ton.
Calgary—Distance from Yokohama 640 miles by rail, and 4,500 miles by sea, totaling 4,650 miles, occupying the control of the cold of the

The Preparation and Care of Culture

as cheese-makers, must bear in We, as cheese-makers, must bear in mind that when we use a culture or starter in a quantity of milk it not only hastens the ripening of that milk, but the flavor of the cheese or butter made from that milk will depend somewhat on the flavor of the culture or starter used.

Let us look back to the history of starters, and we find they were used in the dairy industry a great many years ago. The fact that starters belped in the manufacture of dairy products was recognized years ago by

products was recognized years ago by products was recognized years ago by practical men, even before scientists recommended the use of pure cul-tures. The introduction of pure cul-tures only dates back to 1890. Prof. Storch recommended their use in Storen recommended their use in creameries in Denmark. In speaking about the different kinds of starters, we might classify them under two names: first, a natural; second, a commercial

PREPARING A NATURAL STARTER

PREPARING A NATURAL STABLES

I would suggest the selection of a number of different samples of the best milk coming into the factory into sterile glass jars, allow the samples to stand until sour, at a temperature of about 70 degrees F. The sample which coagulates into a smooth, uniform curd, and has a pleasant acid taste and smell, is the one I would use as a mother starter.

I would advise makers not to bother with natural starters. I do

not condemn a natural starter, for I believe that good starters have been made from a natural mother culture. I think the best results are obtained from commercial cultures by following the directions sent out. With the from commercial cultures by follow-ing the directions sent out. With the pure cultures we should be able to make a good, clean-flavored starter, but here is where we start our mis-takes. We assume that all commer-cial cultures are found pure, and con-tain organisms suitable for practical work in the dairy, and should pro-duce a pleasant flavor and no gas, but we should remember that commer-cial cultures are liable to become contaminated if not used as soon

opened.

It is essential to have a perfect system in preparing cultures. We should exercise care in the selection of cans, see that they are well made and seams well soldered, and provided with snug-fitting lids. For general use in cheese factories, the ordinates of the second seams of the second seams of the second seams of the second second seams of the seams of the

eral use in cheese factories, the ordinary shot-gun cans, about eight inches wide and 24 inches deep, holding about 50 pounds, answer the purpose very well, and I would recommend their use in preference to a larger can, as the milk is easier heated and coooled when in small quantities.

More care should be given to the cleaning and sealding of cans in which the starter is kept from day to day. The use of a stick or paddle, or a common dipper for stirring the milk should be discarded and replaced with a small wire-handled dipper, and used for nothing else. My the cost of transportation of butter from there countries to Japan in comparison with the freight expenses attached to the import from the Dominis quoted by Mr. Preson as folion is dealer and a number even the milk of an analysis of the milk you select. Last season I the milk on a few and as a number even the milk possible. Last season I is made a number even the milk possible that was selected by different milk that was selecte

FRICTIONLESS

CREAM SEPARATOR

Here are 10 Points Wherein It Excels

and, of course, there are a great many more which you will find 2 in our Big Free Dairy Book which we will mail to you and as many of your friends as you suggest. 3 esting Dairy Book of the day. It cost us a lot to prepare, but it is 4 free to you. Send for it to-day.

1 Heavy three-ply tin supply 5 can. Holds good supply of 6 milk and is low enough for a woman to easily pour milk into it.

2 Feed cup, skim milk cover and cream cover made of pressed steel, tinned. Absolutely true, and doubly as strong 7 as the tin kind used in others.

Light weight bowl-chief cause of easy running.

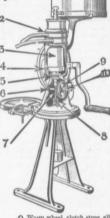
Very simple brake, applied at the base of the bowl, the only place where a brake may be used without injury to the bowl. No wear on bowl-all cu a little leather washer.

5 Ball Neck Bearing which eliminates all wear on the spindle. Takes but ten drops of oil a day.

6 Case hardened pinion gear cut out of worm wheel shaft. No chance of working loose. Practically indestructible.

Spindle threaded to bowl. If ever wear should occur it can be unscrewed and replaced at less cost than on any other separator.

8 Three ball bottom bearing on which the point of the spindle revolves when bowl is in motion. The point costs little to renew. No wear on the spindle proper. Bowl w ll always adjust itself to proper



Q Worm wheel clutch stops all mechanism when crank is stopped, with exception of bowl and worm wheel. No lost motion in agein starting crank as clutch grips instantly and without iar to the mech-

10 Points on worm wheel shaft are case hardened until they will cut glass. Fit into case hardened sockets. Wear is reduced to a minimum. Worm wheel and its shaft may be taken out and replaced by just removing a plug on one side. Cannot be put back wrong. In fact, there is not a single part of the Frictionless Empire that can be placed anywhere but in its correct position.

Free Trial We will send the Empire Frictionless to you for free trial if you will just say so.

The Empire Cream Separator Company of Canada

Western Office, Winnipeg.

Toronto, Ont.