# Besseeceseeceseecesee few of the arguments that Mr. Pal-

**Creamery Department** Butter makers are invited to send contributions to this departent, to ask questions on matters relating videot for any send to a suggest while the send to be address of the send N-------

#### A Circular to Patrons

Cream grading is no longer an experiment in western Canada. In circular recently sent to all of patrons, Mr. P. Pallesen, mat his manager and propristor of the Calgary Central Creamery, talks to his patrons as follows about his ideas on grading

"This year I am going to grade the ream closer than ever. The grading cream closer than ever. system is not an experiment but a strictly business proposition which worked out to the advantage of both the farmer and the creamery man. I can get the highest price only for strictly Number One cream. If you don't want to take care of your cream don't want it : let the other fellow ave it. This year I shall be able to have it. pay an extra price right along for sweet cream for city delivery."

weet cream for city delivery. Mr. Pallesen expects his patrons to take care of his cream but he makes it worth their while. In the same circular he quotes the prices paid in each month of 1911 for three grades of cream-Extra. No. I and No. 2, There is a premium of one to two tra and No. 1. and of two cents for cream of No. 1 grade over cream of No. 2 grade.

BOOST FOR WINTER DAIRYING

All creamery men would like to have their patrons go in more exten-sively for winter dairying. Here are a

FARM AND DAIRY

satisfaction which we hear of from satisfaction which we hear of from patrons, and particularly the ones who are producing rich cream. Let us get away from this pipette method, which has been weighed in

all the year. "3. You will keep up the fertility of

"4. You will have better time to milk.

"5. You will have better stock. "6. You can keep your hired man the year round."

Pretty nearly covers the who'e thing, doesn't it The circular such as this sent out to all the patrons is bound to have a good educational in-fluence. But Mr. Pallesen does not fluence. ask his patrons to listen to him all the time. On the back of the circu-lar are extracts from several letters that he has received from satisfied patrons telling him how well they are pleased with the service rendered the Calgary Central Creamery. T This circular idea is capable of wide ap-

### Make Scales Compulsory

Alex. MacLachlan. Norfolk Co., Ont. Why should these things exist? Why not make it compulsory to use scales and put every one on the test sheet where they properly belong, and every patron the proper amount of butter fat contained in his cream. with the pipette more overrun is ob-tained, and in this every patron shares alike. But why have so much overrun ? Is it not better to give the proper test and not have so much over run? If all creamery men would adopt the scales for testing I think it would do away with a great deal of this dis



THE TORONTO CREAMERY CO., Ltd., Terento

posite samples with a dipper th takes the same amount of cream at every Get delivery, regardless of the amount or thickness of these composite samples every two weeks or once a month, does it not as the oil test is behind the Babcock or for getting the quality of cream as the individual can as compared with show lack of good Lusiness manage ment

You may ask why. The answer would be: In the first place, the samples taken are wrong. Where a creamery takes a sample of cream Where a creamery takes a sample of cream with a dipper the sample taken each time is the same amount, regardless of the large or small amount delivered, and regardless of the thinness or thickness of the cream. sample is wrong; and does the butter-maker know for a certainty whether the patron receives pay for the cor rect amount of butter-fat he de-livers?

In the second place, these composite evaporation where

ABLE IVAVERAGE SCO ED, SOUR CREAM, C Age of	HURNED Raw	MAY	18th, JUNE	HE BUTTH 20th AND Pasteurized	JULY 12th. Pasteurized
Butter 2 weeks Nov. 1st	Cream 40.50 36.12	10 per	cent Starter 41.66 37.44	Cream 42.08 38.88	Oream 10 per cent Starter 42.50 39.15
Difference	4.38	of a 11	4.22	3.20	3.34

These figures show that there is a | the samples as on the proper way of decided advantage in pasteurizing sampling. tainted and sour cream, and a further

advantage in using a starter in the pasteurized cream, as the pasteurized and starter cream butter is almost as good in flavor on November 1st as the raw cream butter was when two weeks None of the raw cream butter scored above 36.5 points in flavor on scored above so.o points in mover on November 1st. None of the pasteur-ized lots scored under 38.5 on the same date. One lot from pasteurized cream, with starter added, scored 40 points on November 1st.

the balance and found wanting.

the tank system.

buttermakers handle.

different methods of the creamery:

one. The pipette is as much be-

hind the scales for fairness to patrons

Pasteurization and Starter

Geo. H. Barr, Chief Dairy Div., Ottawa

(Continued from last week)

cream at the Renfrew Creamery is better than at many cream gathering creameries, and, for that reason, we

were perhaps not able to get as bad

however, as bad, I think, as anyone would care to receive. On three or

casions, we selected the worst flavored

solected might be classed as stale cream, bitter, cowy, rancid. The average temperature of the oream when received was 67 degrees, the acidity .54 per cent and the fat 28.16 per cent. The following table shows

the average score on the butter from

..... 80m

treating this

Some of it was,

lots

to experiment with

cream delivered to the creamery.

The flavor on the different elected might be classed as

I am aware that the quality of the

#### YIELD OF BUTTER

exactly the same weight was used in The and the results should be fairly reliable.

In 18 churnings each of cream with out starter and cream with 10 per cent starter added, there was practically no difference in the yield of butter. In the same number of hutter churnings of pasteurized and unpas-teurized cream, the loss in pasteurizing was .78 per cent. In nine churn-ings each of pasteurized cream with and without starter, the loss in the lots with 10 per cent starter added was 1.04 per cent.

In four churnings each of pasteurized sweet and sour cream (.27 per cent and .51 per cent acid) the loss in pasteurizing sour cream was 1.01 per cent.

### MOISTURE IN THE BUTTER

other business? It would seem that daily testing is the most reliable method to follow.—Creamery Journal. The following table shows the average per cent moisture in cream treat-ed in four different ways, nine churnings in each lot:

Why Test Daily? When a creamery is taking com-

the cream, and then tests

Then, your

samples are usually kept in tiu-top sample jars, and in mostly every case they are kept two weeks or one month on a rack or shelf in the receiving room. The evaporation where samples are kept in this manner is very great. This fact is due to the escape of moisture from the sample. After the samples are taken they must receive proper care until they are tested. The reliability of the test depends just as much on the care of

> illy engaged g. In 1862 12. mes Harris an to make ch that stem. neighbor ese at their THE DIONERS

41 10

In either case how

can acquire his proper

One per cent

Where sampling is done in this man-

evaporation means about three per cent loss in the overrun. Two per cent evaporation would mean about

six per cent loss. Experiment sta-tions have shown that where samples

are kept in tin-top jars in the re-ceiving room, where they are exposed to the air and high temperatures.

they will evaporate from two to six

know what he is doing each and every

day. He should know how many pounds of butter-fat he receives and

how many pounds of butter he makes from it. The dairy industry is de-veloping more and more each year,

when it is necessary for the butter-

maker to do these things-as neces-

sary as for a bank to know its daily

The first rule in the handling of

Is not the creamery business of as much importance as any other business? It would seen that

and the rising scale points to the

We believe the buttermaker should

amount of overrun.

The pioneer f hip of Norwich ord and comm tons that year.

ears. The second c noe Lusiness George Gall and commenced first day of Ma ras operated fo vere three oth Oxford the same need making eason of 1865 ctories in Oxf ham, Quebec. vere the Piones Oxford, Ingerso Nizorra, built in

AN INDUSTR Cheese factori irts of the cou cent ahead by 1 that time, and i until Canada oxes of cheese In the summe Harris, proprie cheese factory, leese weighing the product of Inger brought to the arpose. It wand Buffalo, als on and London sold to a firm is

Mr. Edwin was the first m export in the ( arrounding con Ayer came to 1 exported Canad that year. He port Canadian count and has a

dairy products is cleanliness; the next is coolness. TABLE V .- MOISTURE IN THE BUTTER. Raw Oream Pasteurised Oream Pasteurised Oream 13.80 per cent 14.82 per cent Biorcam 10 per cent Biorcam Raw Cream 13.94 per cent

per cent

transactions.

May 16, 10

## ----Cheese Makers are

Early Cl

A. Crawfo

Oxford Count

pnor of being he Canadian ch

was in Oxfor

king was firs

ociation was

ssed at the I

sking the Pro

Mr. Hiram I ere in 1833, b om a herd of t

er, and cont rd of 100 con

a large and so the fifties at t tions held at Brantford and

se were not

About 1860 th mers of Oxfe

alnh

the Agri

ANUMB

It was in Oxfor

Association was

on aking discu

## Average of all the Se 38.75 39.81 40.73 CONDITIONS THAT ARE WRONG What do we find at creameries there composite samples are taken?

to

In warm weather the sample jars all mold on the inside. In winter, during the extreme cold weather, samples freeze solid. the sample in question going to give accurate results? ner it is a question whether the buttermaker

In making a comparison of the yield of butter, the same cream and the two lots compared. was done as carefully as possible.