The Makers' Corner

Butter and Cheese Makers are in-ted to send contributions to this partment, to -sak questions on atters relating to cheese making, id to suggest subjects for discus-

Hints on Butter-Making By L. A. Zufelt, at E.O.D.A. Convention

THE color and texture of butter are influenced largely by the richness of the cream temperatures of cream and wash water, and length of time in working.

leagth of time in working.

Richness of Cream.

It cream has too high a percentage of fat and the churn is filled much over half full, we are liable to experience considerable difficulty by the cream swelling and hanging up in the charn. When we do get butter it is fluid; to be in large lumps, and difficult to he in large lumps, and difficult to horoughly wash. The chances care the butter will be rather soft are the control of the contro

If the cream has too low a fat conthe tream has too low a lat content we will also have difficulties in churning. The fat globules being so far apart will not unite so readily, and if we are churning at the usual temperature the small particles of but-ter are subject to so much friction by ter are subject to so much friction by rubbing against each other as to ser-jously injure the grain. When the churning is finally completed the gran-ules will be small and rounded, and the butter is likely to show a more or less speckled appearance with a sticky or greany texture. Experience has taught us that cream having from 32 to 35 persons 45.

having from 32 to 35 per cent. fat with the churn not too full gives the best average results, with a possible range of 30 to 37 per cent. As the average percentage of fat in the cream delivered to our creameries is only about 28 per cent, a considerable improvement could be brought about by encouraging the patrons to produce a richer cream.

Temperatures.

The lack of the employment of proper temperatures in churning, washing and working butter is perhaps more and werking butter is pernaps more responsible for defective color and grain than is the richness of the cream. The proper churning temperature de-pends on the length of time the cream has been cooled to this temperature before churning, the richness of the cream, the amount placed in the churn cream, the amount placed in the churn and the nature or composition of the fat. Fat is influenced by changes in temperature, but very alony to the cream is cooled just before being churned a lower temperature must be employed than if the cooling was done several hours proviously. The same is true if it is found necessary to raise the temperature before churning as a correspondingly higher temperature must be used.

must be used.

As it is the common practice to
thurn on the day following the re
celpt of the cream, it is
bring the cream to the proper churning temperature the everaing previous,
making due allowance for changes
which may occur over night. Otherwise, much valuable time will be lost
in the 'morning, or the cream will be was, much variable time will be not in the normal or the cream will be churned at whatever temperature it may be at, resulting in more or less guess work with unsat's factory re-

sults.

The object of washing butter is to remove the buttermilk and reduce the temperature of that the butter has that Gammess of body to admit of sufficient working to thoroughly incorporate the sait and mesisture and produce a smooth waxey body and grain with a uniform of the sufficient water is a used and the cream has been churned at the proper temperature, the temperature, the temperature, at the proper temperature, the temper

ature of the wash water should be four or five degrees lower than the cream. Mistakes are often made, especially when the charge of the made, especially when the charge of the low a temperature. This only chills the outside of the butter, the centre not being after of the contract of t

Suggestions Wanted

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Ow to continue in the business of
manufacturing butter or cheese
with a milk condensery slowly
but surely creeping up to the back
door is a problem a considerable number of creamery and cheese factory
operators have been called upon to
solve, and quite a number of them
solve, and come to us of a creamery
ally news come to us of a creamery ally news comes to us of a creamery or cheese factory that has been forced

FOOD BOARD FOR CANADA.

A Important announce-ment coming from the Federal Department of Agriculture is to the effect that a Food Board has been formed for the more efficient direction the forces engaged in Canada's supreme task-food production.

Mr. H. B. Thomson, the pre-sent Food Controller, as Chair-man of the Board and Director of Conservation; Hon. Charles of Conservation; Hon. Charles A. Dunning of the Saskatchewan Government, as Director of production, and Mr. J. D. Mc-Gregor of Brandon, as Director of Agricultural Labor, are all men of proved ability and inmen of proved ability and in-fluence, men whose training and experience warrant public ex-pectation of real results from their service. Working under the Ministerial guidance of Hon. the Ministerial guidance of Hon.
T. A. Cerear, the Minister of Agriculture, with win agricultural development has been for years a practical study seen for years a practical study seen a practical study for the compart of the coming national campaign of feed production and food confood production and food con-servation.

to close because of lack of patronage to close because of lack or patronage after the opening of a nearby con-densery. It is a problem that has con-fronted cheesomakers capecially, for the greater part of the condenseries have been located in territories where the armany have hear accounted to the farmers have been accustomed to bauling milk, where the condensery people would not have to educate the farmers to the habit of bringing in milk instead of oream.

We all know why the condensery has been able to force the cheese factory out of business—simply because the condensery utilizes every part of the milk except the water, which is of the time except the water, which is of no food value, and the cheese factory has the whey left as a waste or by-product, and when we consider that practically one-half of the total selids of milk remains in the value for the curd has been extracted, we need not

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COUNT SEGIS WALKER PIETERTJE who has 6 daughters with records over 100 lbs. milk in 1 day, and who average over 30 lbs. butter in 7 days. Two with world records.

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Write for prices and pedigrees. Address

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We have the only two sons in Canada, of the 46-lb, buil Ormsby Jane King-only muture most of the world's most famous cow. One of them for sale, also a 30-lb, early a late of the world's most famous cow. One of them for sale, also a 30-lb, early of the succession o PORT PERRY, ONT.

BACKED BY RECORDS Our present offering is a young bull, born 6th April, 1917, nicely marked and straight as a line, top and bottom. Dam—FRANCY KORNDYKE; Granddam—FRANCY SED, twice grand champion in the Ottawa Dairy test. Sire's Dam-BOYAL/TON DEROL FERN, 34.60 lbs. butter in 7 days;

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4 BULLS FOR SALE, 6, 7, 13 and 19 months, respectively, by our herd airs MAY ECHO CHAMPION, full brother to MAY ECHO SYLVIA, World's record cow for milk, 41 bs. butter in 7 days; two from daughters of 33.51 son of KING SEGIS.

on of King SEGIS.

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We are offering by private sale a few good yearlings, and two-rold females by Woodcrest Sir Cly.,).

H. LYNN,

Avondale Farm,

Brockville, Ont.