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Creamery Department
Butter makers are invited to send
contributions to this drawtment, to ask questions on matter relating to
butter making and to suggest sublevel for discussion. Address letters
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are appartment.

### No Danger of Over-production J. A. Ruddick, Dairy Commissioner.

Ottawa We have seen that the United Kingdom continues to absorb an in-

creasing quantity of dairy produce, and that Germany is becoming every year a larger buyer of these articles of food from other countries. The home market in Canada is expanding with the increase of population, and from all appearances, the United States will soon be an importer instead of an exporter

The greatly improved quality of all butter which has followed the application of skill and scientific methods in its manufacture results in it being spread more thickly than it formerly was, and as this occurs at practically every table in the land, the total increase of consumption on that account is very large.

The most outstanding feature of the dairy trade at the present moment is the growing demand for milk for the larger towns and cities. It is quite as noticeable in Canada as elsewhere. as noticeable in Canada as elsewhere.
Winnipeg is now obliged to obtain a
large quantity of milk daily from
nock a distant point as St. Paul, such a distant point as St. Paul, Minn. The demand in Vancouver is closing many of the creameries in the Fraser Valley. The same thing is occurring in other parts of the coun-

#### PER CAPITA CONSUMPTION

The increased per capita consump-tion of milk and cream is very large not only in Canada, but in all coun tries where these articles are included in the daily dietary of the people. The improved sanitary condition rounding the production and distrirounding the production and distri-bution of market milk have given a great stimulus to its use, and there is still much to be accomplished in that direction

The only countries which are likely The only countries which are fixely to increase their exports to any considerable extent are Australia, New Zealand and possibly Siberia, but there is no reason to believe that the increased supplies from these countries will exceed the growing demand

for dairy produce.

The conditions which have been outlined give no indication of an over-production of butter or cheese during the next few years at any rate, and there would appear to be at the same time a fair promise of good prices. On the whole, the outlook for dairying in Canada is as good, if not better, than it ever was, and it seems to be particularly bright for the coming season.

# Comments on Boilers

Now and then one still notices creameries using small upright boil-ers. There is no creamery in the country worthy the name of creamery that can afford to use an upright boiler. They are not as economical as horizontal boilers and generally less



Steel Trough & Machine Co., Tweed, Ont.

We believe there are few creameries still using upright boilers, but we know that there are plenty of creameries using boilers too small for best results. A boiler of too small capa-city is wasteful of fuel. Such a boilcity is wasteful of fuel. Such a boil-er requires constant and hard firing. er requires constant and hard firing, which in itself is wasteful of fuel as well as labor, but such firing results in much wet steam, which is also wasteful of fuel and causes "prim-

If you want to save money and fuel get a boiler of sufficient capacity. Little harm is done by getting too large a boiler.—Butter, Cheese and Egg Journal.

# Errors in Taking Samples

L. A. Zufelt, Supt. Kingston Dairy

A difficulty that may be met with in taking cream samples for testing representative of the quality. From Singleton it was found that the samgathered by the cream hauler ly represented the quality of the individual creams, and we have no reason to doubt the correctness of these samples when reasonable care is observed in mixing the cream before the sample is taken.

If, however, composite samples are preserved some effort should be made have the sample which is placed the jar represent proportionately the amount of cream delivered For instance, if the weight and quality of the cream varies with each deliv ery and the same quantity is placed in the composite jar, the result may not be absolutely accurate. ample, if a patron delivers 40 lbs. of cream that tests 30 per cent. fat on one day and 60 lbs. testing 20 per on another, he would deliver al-

60x20......12 lbs. fat 

or in the two days he would have delivered 100 lbs. of cream having a total of 24 lbs. of fat and testing 24 percent. If the same quantity of each had been put in the sample jar and tested, it would have shown an average of 25 per cent. fat. In other words, the patron would have received credit for one per cent. more fat than he was entitled to. While the above may be an ex-

treme variation and not usually met with, it illustrates the point that some effort should be made to have sample taken fairly represent both the quality and quantity of the

### Dairying the Most Progressive (Continued from page 11)

stock men, and it was recommended that arrangements be made to

mended that arrangements be made to hold the Convention every two years instead of every four, as formerly. A committee of the dairymen pre-sented a resolution expressing their hearty appreciation of the work of the Dominion Government in the carrying out of the Record of Per-formance tests. Another resolution recommended that the payment for milk and cream at butter and cheese factories on a butter fat basis be factories on a butter fat basis be made compulsory. The resolution as it was worded was strongly objected to by Col. McCrae, of Guelph, and Mr. J. A. Ruddick. The motion was laid over.

Due to the efforts of Mr. Robt. Miller, of Stouffville, a resolution was carried recommending that the words "Resident in Canada" be added to the qualifications necessary in an im-porter Lefore he can import pure bred stock into Canada free of duty.

The election of officers resulted as follows: Pres., Andrew Graham, Pomoroy, Man.; vice.pres., John Bright Myrtle, Ont.; Exceutive committee, Hon. W. Garneau, Que.; P. M. Bredt, Hegina, and Cap. T. E. Robertson, London; se.-treas., A. P. Westervelt. Directors. A. D. Patterson, Ladner, BC.; J. A. Turner, Calgary, Alta. Robt. Sinton, Regina, Sask.; A. M.-Phail, Brandon, Man.; W. Ballanter, M. B. B. G. Gamphell, Stratford, Ont.; V. Sylvester, Charlotteborn, P. El. M. Comming, Truro, N. S., and Ho. N. McKinnon, Charlotteborn, P. El. An address by Dr. J. G. Rutherford on tuberculosis will be summarized in a future issue of Farm and Dairy. Several of the addresses already referred to will also be dealt with more fully in future issue of Farm and Dairy. The election of officers resulted

If buttermakers will make it plain to creamery owners that a reasonably warm creamery is necessary for best yield and quality of butter, they will be more likely to be granted increased heating facilities than when their own well-being is made the chief

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