seccesseseseseseseses operation is not large Creamery Department, Butter makers are layled to send con-tributions to this department, to ask ques-tion on matter relating to barton and the output of butter. The following table shows the increase in the output of butter in creamerise under govern-ment supervision: 100% more in 1908 than 1907. Butter makers are invited to send con-tributions to this department, to ask ques-tions on matters relating to butter making and to suggest subjects for discussion. Address latters to Cre mery Department.

Great Progress in Dairying

(Y. A. Wilson, Dairy Commissioner, Regina, Sask. There are nine creameries under government supervision in Saskatche-wan and four operated by private en-terprises and joint stock compaies. The policy of more or less centralising the work is practiced by all, and as a result, the number of creameries in statistical statistical supervision of the second statistical statist

FOR SALE AND WANT ADVERTISING

TWO CENTS A WORD, CASH WITH ORDER

- WATED-A good man to work a large dairy farm on shares. Good market for milk all the year round, in the eity of Hamilton. Station haif a mile from the farm. Running water in stables and dairy. A splendid opportunity for a man who has help of this own. Ref-erences required.-B. S fitevenson, An-caster. Ont. caster, Ont.
- FOR SALE-Iron Pipe, Pulleys, Belting, Raile, Chain Wire Fencing, Iron Posts, etc., all sizes, very theap. Send for list, stating what you want. The Imperial Waste and Metal Co., Dept. F.D., Queen street, Montreal.
- REPRESENTATIVE WANTED AT ONCE for work in your locality. Will guaran-tes \$2.00 to \$3.00 per day. Opportunity to advance rapidly. Will pay liberally for spars time. Work not difficult. Ex-perience not required.-International Bible Press. Toronto. Ont.
- REID PASTEURIZER, 3,500 lb. capacity, for sale at a right price. In first class order.-G. A. Gillespie, Dairy Supplies, Peterboro, Ont.

We do not operation is not arge. We do not measure our progress by the number of creameries, but rather by the in-crease in the number of patrons and the output of butter. The following table shows the increase in the output

of butter in creameries under govern-ment supervision: 100% more in 1908 than 1907. 400% more in 1909 than 1907. 600% more in 1910 than 1907. 1000% more in 1911 (estimated) than 1907.

In May, 1911, the make of butter was 6,000 lbs. more than the six months make of four years ago. The winter make of butter in 1910-11 was winter make of butter in 1910-11 was approximately the same amount as the summer make ir 1907. The aver-age increase in the quantity of butter made and the number of farmers patronizing winter creameries has been 50 per cent for each of the last has four years. For the same period the average increase has been 40 per the average increase has been 40 per cent. for each summer season. Four years ago only 213 farmers were sup-plying cream; for the present season there are over 2,000 farmers patronia-ing the government creameries. The average make of butter per creamers since the inauguration of the dairy branch is as follows: 1906, 31,000 hs.; 1909, 37,000 hs.; 1911, (e6,000 hs.; 1911, (estimatel), 75,000 hs.

Cream Grading in Maine

B. D. White, U.S. Dept. of Agr. B. D. White, U.S. Dep. of Apr. If the creamery men would pay for cream according to its true value there would be a rapid improvement in the quality. The proportion of there would be a rapid improvement in the quality. The proportion of good table butter that would grade "extras" would probably reach 90 per cent instead of seven to 10 per cent

as it now the case. This assumption is justified by the results obtained from the introduction



of the grading system in the State of Maine. The dairy authorities in that state inform us that at one time at least 90 per cent of the cream was sour when it reached the creameries, but that within a short time after a system of grading was established by which sweet cream received a preby which sweet cream received a pre-nium of two to three cents a bound of butter fat. 95 per cent of the cream-ery, and this condition still prevails. AN ADVANTAGE ALL ROUND

As min-axian and much be assued of grading has proved to be of mutual advantage to the creameries and their patrons in this section. The latter have receiv-ed a price for their product several conts above market quotations, while the greameries have maintained the creameries have maintained a high standard for their finished product

Are Composite Samples Accurate?*

L. P. Anderson, Algona, Iowa Greamery men will be surprised, if they test every day, at the variations to be found in the patrons' cream at different deliveries. There are variations in the richness from day to day tions in the richness from day to day and as a result the amount of cream will vary. One day the patron will have more pounds of cream with a lower test than he did the day be-fore with less cream. Unless the buttermaker takes the sample in the correct proportion for these variacorrect proportion for these varia-tions in the richness and amount at each delivery how can he have a cor-rect composite sample? Let us discuss the dipper sample.

Let us discuss the dipper sample. As an illustration we will say Mr. Jones makes two separate deliveries of cream to our creamery and we take two samples for testing at each time, one for every day testing and one for the composite. To-day he delivers 200 lbs. of cream testing 20 per cent, which makes 40 lbs. of butter fat. To-morrow he brings 100 lbs. testing 40 per cent, which makes 40 lbs. of but-ter fat. Testing this for every day day ter fat. Testing this for every day work he has actually delivered 80 lbs. of butter fat.

WHERE THE CREAMERY LOSES

WHERE THE CREAMERY LOSES Now we test the composite sample and find that the average test is 30 per cent. He has delivered 300 Hos. of cream and with the 30 per cent tast he would be paid for 90 Hos. of butter fat, or the creamery would have to pay for a loss of 10 Hos. of butter fat.

butter fat. 1 et us reverse the illustration. and supprese that Mr. Jones delivered 100 10°s. of cream testing 20 per cent, craking 20 lbs. of butter fat. The uest day he delivers 200 lbs. of cream testing 40 per cent, making 80 lbs. «F butter fat. In all be has delivered 100 lbs. of butter fat.

THE PATRON MAY LOSE TOO We will now test the composite sample and find the average test to be odding example, and he has delivered the same amount of cream, 300 lbs., 30 times 300 makes 90 lbs. of butter fat the creamory has to ave for 1.2 30 times 300 makes 90 lbs. of butter fat the creamery has to pay for. In this case the creamery wins and the patron loses 10 lbs. of butter fat. If the patron only knew he was losing what a "howl would go up from Den-mark." Now on the other hand it is all right with him when the loss comes on the creamer.

all right with him when the loss comes on the creamers. This example may be somewhat overdrawn in the differences we make in the tests from day to day but they are possible. The variations found from day to day though smaller mean just the same and have the same eril effects, and show the results which are had by the dioper method. A METHOR TO BE CONDENSED The man who takes the same amount each day through force of habit whe-ther there is a small amount or a

*Extract from an address before the lows State Dairy Convention as reported in the Dairy Record.

November 16, 1911

large amount of cream. This we all large amount of cream. This we an know to be true. He does not get the correct portion. This method of tak-ing the samples and paying for the butter fat on the basis of these composite samples cannot be too strongly condemned. We have not taken into considera-

We have not taken into considera-tion creameries that have cream routes. Where the hauler weighs the cream and takes the sample, and this sample is made a composite sample and then tested every two weeks, tell and then tested every two weeks, [6] me please, what kind of a sample have we here. There is nothing er-rect about it. It is a violation of the fundamental principles of good

The shortage of butter fat in this latter case would make the butter-makers' hair turn gray to find the overrun.

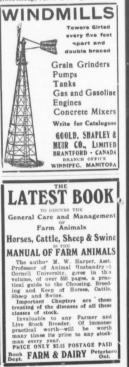
CREAMERY FOR SALE

RIDGETOWN CREAMERT-A nice, well-equipped brick building, with ice pond within ten roda. Situated in a nice town and fine farming country, with a good make and no opposition. Rheumatiam cause of sale.

JAS. IRELAND, PROP., Ridgetown, Ont.

DRILLING Well MACHINES Over 70 sizes and styles for drilling either deep or shallow wells in any kind y of soil or rock. Mounted or wheels or on sills. With engines or aorse powers. Strong, simple and durable. Any mechanio can operate them easily. Hend for catalog. WILLIAMS BROS., ITHACA, N.Y.

Abe Lincoln said: "I will study and get ready and maybe my chance will come." It will pay you to will be ready to take swinter evenings. Then you All Agricultural books are to be had at lowest prices through **Farm & Dairy, Potorboro**.





Cheese Makers are i to this depar matters rela suggest subj etters to The

Cheap M W. W. Ande

> The price of good this seater part. I take care of ness in hand the cheesem:

A simple ool milk tha well or hole to the roads i to hold four this well two the early sp stand over alongside of stand, five f 10 feet out. to the post. made for the

IT TAKES The milk, a stand and, w the can may

cart on to th CREAMERY

Equipped with ent floors all neese machine butter WEST LORNE C. E. BECKE

CHEESE

And Dairy Me of Nursery st Winter months sions, furnish apply your stock. We eng y your We eng Write a STONE





Marrred man

urnished. Sta equired. Ove anders recei T. GUNTER

FOR SALE heese for manu land Reason for ment position. ound, and rec er day in sur



FOR SAL CHEES

IN THE ally equipped a alles from Stra

SAT., NO

Splend d Chanc Large p Frame house an in fine

McPhers