

use of dairy products as we know them today.

Dr. De Laval well deserved the comparison so often made of him with the great Edison. As the inventions of Edison have made possible the tremendous advance in the development of electricity and its practical application, so dairy machines invented by Dr. De Laval have made possible the equally wonderful progress in the last 25 years in the field of dairying, and Dr. De Laval has rightly been called "the Edison of dairying."

Artificial Refrigeration

There seems to be a growing tendency in many creameries to adopt mechanical refrigeration. This, like every other modern improvement in our creameries, has gone through the experimental stages and it can now be safely said that the ice machine has been developed to meet the requirements of the average creamery.



A Busy Morning Scene at a New Zealand Cheese Factory

New Zealand farmers have more interest in the success of their cheese factories than have the majority of Canadian farmers. Most of their factories, like the Kaupokonui factory here illustrated, are owned cooperatively, and the returns to the farmers from the profits of the concern are in proportion to the milk that they supply. Notice the size of the factory. Here they can afford the very best of equipment, including cool curing facilities, and their cheese command a premium over the Canadian article.

The old and expensive way of putting up ice is becoming obsolete and modern methods of the ice machine are fast taking its place. When we stop to consider what is now required in the way of refrigeration we begin to wonder how we have managed to get along with the old system of ice cooling as easy as we have.

Temperature is now regarded as one of the main factors in the production of fine butter and if this be so the better and more uniform the control of temperature, the better the results that can be obtained. Mechanical refrigeration has heretofore been considered too expensive and impractical for the small creamery, but as we said before we believe the question has been solved to meet the needs of these small creameries and we feel we can safely urge the small creamery to investigate the cost of the efficiency of mechanical refrigeration and compare it with the cost of equipment, expense of handling, natural waste and lack of results of refrigeration by natural ice. We believe everything will be found in favor of mechanical refrigeration. In considering this question the growing demand on the part of the consumer for a better product should be given due consideration.

The very best product we can produce is none too good, and if we produce it we must have the best of everything to produce it with.—Chicago Dairy Produce.

Lower tests; kicking patrons. Be ready for them.

Cheese Department

Makers are invited to send contributions to this department, to ask questions on matters relating to cheese making and to suggest subjects for discussion. Address letters to The Cheese Maker's Department.

Exporters View of High Prices

Jno. A. Gunn, Montreal.

At the annual meeting of the Montreal Produce Merchants' Association, last January, I drew attention to the fact that the farmers of Canada received for their dairy products, during the season of 1911, the highest prices yet recorded. The past season, however, has established a new record of high prices, but, while proving the most remunerative in the history of the produce trade as far as the producer was concerned, it has been most unsatisfactory from the exporter's standpoint.

GOOD PRICES FOR CHEESE

Canadian Cheese

MAKE no mistake about it—the better the cheese you make the better the price your cheese will bring. Keep quality up if you want to keep price up. You can make the very best quality of cheese if you use

"Tweed" Sanitary Steel Cheese Vats

Made entirely of steel. No wood to rot in a season. Easy to keep clean and sweet. No places for the milk to lodge in or decompose. "Tweed" Vats have no corners or cracks and drain out thoroughly.

The lining laps over and around underneath the edge making an ideal seal. The "Tweed" Vats are fitted with gears at each end and can be lowered like inch by levers.

We own the patent rights for Steel Cheese Vats for Canada. Anyone buying any other Steel Vat will be promptly prosecuted.

Cheese makers and directors of cheese factories are invited to send for catalogues and quotations. Address

Steel Trough & Machine Co., Ltd., 6 James Tweed, Ont. St. W.

Creamery For Sale

Creamery, running summer and winter order. Large house. Good ice house and refrigerator. Good stable with sheds and other buildings. 3 acres good land. Close to town and railroad. This is one of the best dairy districts in Ontario. Write NELSON SCHATZ, - - - BADEN, ONT.

An Experienced Butter Maker Wanted

Most understand business from A to Z. Also one with one or two years' experience. State wages, with or without board. Year round position to right man. Apply at once to Box 133.

J. J. S. - - - VIKING, ALTA

DESIRED! Highest City prices furnished. Paid for cream. We promptly. Haven't paid less than 3c for two months. Write TORONTO CREAMERY CO., LTD., Toronto

MORE POTATOES PER ACRE

Think of finding one twelve 5-balls in the harvest, in every acre of your plant. It's been done many times. Plant the spaces you skip, sell the potatoes, and give your neighbor a try. No extra work, no extra waste. It costs no more to grow, and you get more for your real money into your pocket. Every time you plant, you get more. Try this. Ask your dealer for free booklet, "How to Grow Potatoes." We make full size Potato Growers' Guide, 100 pages, 10 cents.



The Machine—Whitcomb, Limited—46 Campbell Ave., Toronto, Ont.

Have You Seed Grain for Sale?

Advertiser in Farm and Dairy columns and get a good price in cash with order Adv. Dept. FARM AND DAIRY, Peterboro

COTTON SEED MEAL - FARMER

45% Protein. Several tons on hand, the milk. Priced low to clear at cows give make room. - G. A. GILLESPIE, PETERBORO, ONT. Feeds and Seeds, Dairy Supplies.

Cheesemakers

Make big money in your spare time getting subscriptions for Farm and Dairy. Write our Circulation Department now for full particulars

This Engine Runs on Coal Oil

Every farmer can afford an Ellis Coal Oil Engine. They give far more power from coal oil than other engines. Give us from gasoline. They are safe, as well as cheap; no danger of explosion or fire.

The strongest and simplest farm engine made; only three moving parts; nothing to get out of repair. Any one can run it without experience. Thousands of satisfied customers use these engines to grind feed, fill silos, saw wood, pump, thresh, run cream separators, and do dozens of other jobs. Cheaper than horse or mule power. Fill up the tanks and start it running, and no further attention is necessary; it will run till you stop it.

FREE TRIAL FOR 30 DAYS. You don't have to take our word for it. We'll send an engine anywhere in Canada on Thirty Days' Free Trial. We furnish full instructions for testing on your work. If it does not please you send it to get it back if you don't want it.

Absolutely guaranteed for 18 years. Write for free catalog and opinions of satisfied users. Special offer in new territory.

3 to 18 horse-power
We pay Duty and Freight

Ellis Engine Co., 90 Mullett Street, DETROIT, MICH.