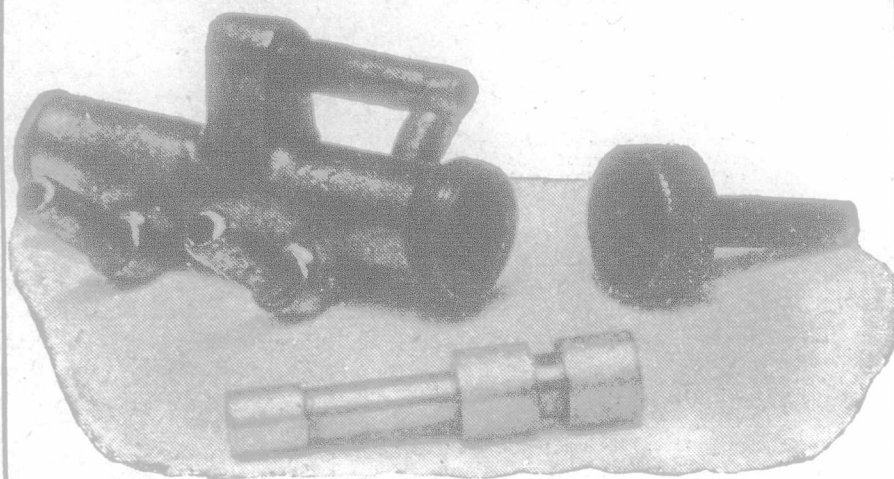


## The De Laval Milker Gives More Service



The above illustration is made from a photograph (not retouched) showing a De Laval Udder Pulsator and piston which have been used for four years in connection with the De Laval Milker at the Roseland Dairy, Caldwell, N. J.

The diameter of the piston in relation to the diameter of the cylinder in the Udder Pulsator, even after four years of wear, still passes the exacting factory tests and requirements.

When in operation, the piston travels 45 times per minute; that is, 45 times per minute each way, making 90 movements a minute, or 5400 times per hour. On the basis of four hours per day, 365 days in the year, the piston travelled the remarkable total of 31 million times in the four years—without showing any appreciable wear and without lubrication.

The Monel metal piston, the bronze cylinder and simple construction of only one moving part, without springs, weights, or complicated mechanism of any kind, make possible such unusually long service.

The action of the De Laval Milker pleases the cow. Its long service pleases the owner.

Write to nearest De Laval office for Milker Catalog, mentioning number of cows milked

### THE DE LAVAL COMPANY, Ltd.

MONTREAL PETERBORO WINNIPEG EDMONTON VANCOUVER

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"THE FARMERS' ADVOCATE AND HOME MAGAZINE"

## BRAMPTON JERSEYS

Our Jerseys won. Yes, both in our hands and for our customers. They won in the show ring. They and their descendants are winning in yearly tests. We have the best lot of bulls for sale we ever owned. We have fifty females, all ages, for sale.

### CANADA'S GREATEST JERSEY HERD

B. H. BULL & SON

BRAMPTON, ONT.

The Woodview Farm  
**Jerseys**  
London, Ontario  
JNO. PRINGLE, Prop.

**CANADA'S MOST BEAUTIFUL JERSEY HERD**  
Herd headed by Imported Champion Rower, winner of first prize with five of his daughters on the Island of Jersey, 1914, second in 1916, and again first in 1917. We are now offering for sale some very choice bull calves, ready for service, sired by imported bulls and from Record of Performance imported prize-winning cows. Also some cows and heifers. Prices right. We work our show cows and show our work cows.

### TEN THOUSAND DOLLAR JERSEY BULL

They have sold that high all right, but we are not asking that money for ours. We now have ten youngsters, half of which are of serviceable age and all from good record R.O.P. dams, including one from our Canadian Champion, 3-year-old. They run from \$125 up. We guarantee the price and guarantee the bull. Write us also for females. **PAPPLE BROS., Brantford, Ont., R.R. No. 1** (Cainsville G.T.R., T. H. & B. Stop 27, Brantford-Hamilton Radial).

## All Bulls of Serviceable Age Sold

A few young bulls sired by Financial Raleigh King, son of the \$6,000.00 Financial Beauty King, for sale, from R. O. P. dams.

**JAS. BAGG & SONS** (Woodbridge, C.P.R.; Concord, G.T.R.) **EDGELEY, ONTARIO**

### MORRISON'S R.O.P. AYRSHIRES

We are at present offering a number of bred two-year-old heifers bred from R. O. P. sires and dams. We also have several choice young bulls of the same sort—good individuals and ready for service.

**JOHN MORRISON, Mt. Elgin, Ont.**

### SPRINGBANK AYRSHIRE HERD SIRE

We have a few young bulls from R.O.P. dams and sired by Humeshaugh Invincible Peter, our show herd sire. We would also sell this sire guaranteed right in every way. Our herd holds more championship records for production than any other herd in Canada. We would be pleased to send the list. We can also spare a few females—cows and heifers.

**A. S. TURNER & SON** (3 miles south of Hamilton) **Ryckmans Corners, Ont.**

### BURNSIDE FARM AYRSHIRES

We have at present a number of imported and Canadian-bred young bulls that are from good record dams and ready for service. We can also supply females of all ages, including a large number of good imported heifers. Many of these are well forward in calf to Old Country service.

**R. R. NESS & SON, Howick, Que.**

## Co-Operation in the United States.

A survey undertaken in 1914 by the Office of Markets and Rural Organization of the United States Department of Agriculture, resulted in a list of 5,424 farmer's co-operative marketing organizations in the United States. Of these there were 1,637 grain elevator and warehouse companies, 1,708 creameries and cheese factories, 871 fruit and produce companies, 213 cotton organizations, 275 co-operative stores, 43 tobacco associations, 96 live stock associations, and 581 miscellaneous. The following discussion of co-operation in representative states is from Bulletin 547 of the U. S. Department of Agriculture:

In order to give a clear representation of the status of organization in the various parts of the United States, brief statements showing the results of the survey in different States are included. By selecting States representative of the different sections of the country, the varying conditions surrounding the organization of the farmers are shown. Several of the States of the North Central group have been included because in this section co-operation among farmers is more general than in any other part of the country. States have been selected also to show the extent of agricultural organization among the fruit growers of the West, the farmers of the South, of the tobacco belt, the truck-growing regions, and the older farming regions of the North Atlantic States.

### MINNESOTA.

Minnesota leads the States in the number of co-operative organizations of farmers. Of the 5,424 organizations in the United States which are included in this survey, 980, or 18 per cent. of the total, are located in Minnesota. The prominence of Minnesota's place in the matter of marketing organizations among the farmers is largely due to its importance as a dairy State. Co-operative creameries and cheese factories make up about 63 per cent. of Minnesota's total, while the elevator companies comprise about 25 per cent. The remaining 12 per cent. include live stock shipping associations, fruit and produce associations, and a few miscellaneous organizations.

The creameries and cheese factories of Minnesota show the possibilities of such farmers' organizations. Over 600 of the 850 creameries of the State are owned by the farmers. Table II shows that most of these creameries are co-operative in character. Nearly all of the farmers' associations in Minnesota which report the stock-company plan of organization are farmers' elevators; the other classes adhere much more closely to co-operative principles in the method of conducting their business.

An estimate of the volume of business transacted by the farmers' marketing organizations of Minnesota can be made by using the figures reported by a large proportion of the associations as a basis. The total annual volume exceeds \$50,000,000. The 980 organizations reporting have about 90,000 members, which gives an indication of the extent of organization among farmers for manufacturing and marketing purposes in this State.

### IOWA.

As Iowa is represented by 505 farmers' marketing organizations, it is second to Minnesota in number reporting. Conditions in Iowa and Minnesota are very similar, and the farmers' organizations have followed the same lines in both States. The two leading forms of organization in Iowa are elevators and creameries, as these two classes make up over 85 per cent. of the total reporting. Iowa falls behind Minnesota in total number of organizations largely because of its smaller number of creamery and cheese-factory associations, Iowa reporting 204 and Minnesota 624 organizations of this character.

### WISCONSIN.

Wisconsin ranks third in the number of organizations reporting. Conditions in this State differ somewhat from those in Minnesota and Iowa. The latter are important grain-raising States and have a number of farmers' elevators, while in Wisconsin, where grain is not grown on such an extensive scale, there are comparatively few farmers' elevators. Wisconsin is an important dairy State; therefore, 75 per cent. of the companies reporting are creameries or cheese factories. In Minnesota and Iowa nearly all of the

dairy organizations are creameries, while in Wisconsin there are a large number of cheese factories as well. The other forms of organization found in Wisconsin are of the same nature as those found in Minnesota and Iowa.

### KANSAS.

Kansas is another member of the group of States where farmers' organizations are the most numerous. It is an important grain State; consequently over 60 per cent. of the associations reporting from this State are farmers' elevator companies. Kansas may be contrasted with Wisconsin in the matter of farmers' associations; the former has a large number of grain elevators and only a few creamery or cheese-factory organizations, while the situation is reversed in the latter State.

### CALIFORNIA.

Conditions surrounding the organization of farmers in California are decidedly different from those in the North Central States. California is one of the leading fruit-growing States, and as the fruit grower has found it profitable to organize for the marketing of his products, it is not strange that over 60 per cent. of the organizations which reported from this State belong to the fruit and produce class. The others consist of creameries and cheese factories, stores, olive and nut associations, and various miscellaneous farmers' marketing enterprises.

Co-operation in this State is noted especially for the central organizations made up of local units which are formed among the citrus, walnut, almond, raisin, and apple growers. The elevators and creameries of the North Central States for the most part have been content with the method of allowing each local concern to look after the marketing of its own products independent of neighboring associations of the same character. The fruit growers of California have found it advantageous to unite their local associations into central selling bodies. It must not be inferred that this is the only State where such central organizations are found, for there are a number of examples of such centralization throughout the United States, but the success of this form of endeavor has been particularly notable in California.

### THE NORTH PACIFIC STATES.

The four Pacific Northwestern States—Oregon, Washington, Idaho, and Montana—may be grouped together in considering farmers' marketing activities. Conditions are similar in the four States with reference to organization and some of the lines of activity extend to all of the States in the group. Of the 329 organizations which reported from these four States, about 35 per cent. are fruit and produce associations, 30 per cent. are grain elevators or warehouses, 15 per cent. are creameries or cheese factories, 7 per cent. are stores, and 13 per cent. are classed as miscellaneous associations.

The central selling organizations found in these States among the apple growers are the most notable. For the last five years various movements have been set on foot to make the fruit growers' associations in these States more effective. These movements have resulted in the rise and fall of numerous central selling of other associations, and a continual changing of affiliations and policies on the part of local associations. In this region are a number of very successful canneries which have been established to take care of fruit and vegetable products which cannot be marketed to advantage in the fresh state. Not all of the canneries established have been successful, for a large number of failures were reported.

### TEXAS.

The State of Texas may be considered by itself because of the conditions here represented. Over 50 per cent. of the organizations reporting from this State are cotton associations, and about 20 per cent. are fruit and produce associations. In the remaining number are a few creameries, a few grain elevators, and some miscellaneous organizations.

### FLORIDA.

Florida, like California, is interesting because it is represented largely by organizations for the marketing of perishable products, such as citrus fruits. About 80 per cent. of the organizations reporting from this State belong to the fruit and produce class, which indicates the importance of this form of organization in the State. The other associations in