

## THE Omega Milking Machine

has these advantages over other machines. Transparent celluloid milking tubes instead of rubber ones which harbor germs and are difficult to clean. Pail and teat-cups are suspended from the back of the animal. The udder has no weight to carry. The pail cannot be knocked over and the teat-cups cannot fall on the stable floor and suck up straw or filth. The Omega milks fast and milks clean.

### Omega the Best By Test

The Omega is used and recommended by Mr. R. R. Ness, of Howick, Quebec, one of the largest importers and breeders of record Ayrshire cattle in Canada. He writes regarding the Omega as follows:—"It certainly has all other machines beaten in point of cleanliness, with those celluloid tubes instead of rubber. The pail hanging on the cow's back never touching the floor, the position in which the teat-cups are held insuring the most cleanly way of milking known to-day."

WRITE NOW for our FREE illustrated booklet, describing the many superior features of the OMEGA.

C. RICHARDSON & CO.  
ST. MARY'S, ONTARIO

## Cream Wanted

Ship your cream to us.  
We pay all express charges. We supply cans. We remit daily. We guarantee highest market price.

Ontario Creameries, Limited  
London, Ontario

## Jersey Bull for Sale

To avoid inbreeding, we offer for sale our herd bull, Meridale Major, 141856, A. J. C. C. register; 7148, C. J. C. C. register.

While none of his daughters are yet in milk, they show good dairy type and teat development. He is a son of the great Register of Merit bull, Sayda's Heir 3rd, 74817a, who has 47 daughters in Register of Merit, and more coming. His dam is also in Register of Merit, Class A.A., and has tested as high as 6.71%; has milked as high as 1,014 lbs. in 30 days. This bull is richly bred in every line, his maternal grandsire being Interested Prince (Imp.) 58224a, who has 149 daughters and granddaughters in Register of Merit. He is offered at less than he is worth, with option of re-purchase at end of 2 years.

For price and further particulars, address:

J. A. MACPHERSON, R. R. No. 1, Port Stanley, Ont.

Twenty-Five Years Breeding REGISTERED JERSEYS and BERKSHIRES

We have bred over one half the world's Jersey champions for large yearly production at the pail. We bred, and have in service, the two grand champion Berkshire boars. If you need a sire for improvement, write us for literature, description and prices.

HOOD FARM, LOWELL, MASS.

4.07%

Butter Fat was the average from 971 Ayrshire Cows for One Year.

WRITE W. F. STEPHEN, Secretary  
CANADIAN AYRSHIRE BREEDERS' ASSN.  
Box 513, Huntingdon, Que.

## Fernbrook Ayrshires

Young bulls for sale (out of R. O. P. dams) from one to fifteen months old; tracing closely to the world's champions, Garclough May Mischief and Jean Armour.

COLLIER BROS., Beachville, Ontario  
(OXFORD COUNTY)

CITY VIEW AYRSHIRES  
One bull, ten months old; dam's R.O.P., 6,500 lbs. milk, 4.64% fat as a two-year-old. Several bull calves—might spare a few females. R.-C. and S.-C. Reds, White Wyandottes—eggs for setting now ready. James Begg & Son, St. Thomas, Ont.

## Diseases of Tobacco Seedlings in the Bed.

EDITOR "THE FARMER'S ADVOCATE":

The tobacco growers should make frequent and close observations of the seed-beds for the detection of "damping off" and "root rot" troubles. Damping off usually occurs in the beds the soil of which has not been sterilized and previously used for growing seedlings.

The trouble can be easily recognized by the appearance of spots in the bed on which the plants are wilted and the stems broken over at the surface of the ground. These infected spots, when the conditions are favorable, spread very rapidly and may soon over-run the whole bed. The disease is more likely to occur on beds where the seedlings are too thick, and usually after they are nearly large enough for transplanting.

The disease can be checked by thoroughly aerating the bed by removing the canvas or glass sashes, watering sparingly, and thinning the plants where too thick. At transplanting time avoid pulling plants from the infected spots.

The root rot disease sometimes occurs in the unsterile soils of the seed-beds and often attacks the very young seedlings, which can be detected by their yellow, sickly appearance. By removing these seedlings in such a way as to keep all the roots intact and washing off all adhering particles of soil the latter will be found to be brown, in some instances almost black and very easily broken.

When seedlings become infected in the seed-beds there are no treatments to rid them of the disease. Such seedlings should not be transplanted to the field. In the first place these seedlings never sufficiently recover from the disease to make a paying yield, and secondly the soil in the field becomes infected with the fungus causing the disease, thus rendering it unfit for growing tobacco for a long time.

Growers should avoid sprinkling the tobacco seedlings in the bed with decoctions from refuse tobacco and stems, for it is claimed that the mosaic disease is transmitted to the young seedlings in this way.

Don't try to force the seedlings along too fast with solutions of nitrate of soda, saltpetre or other highly nitrogenous materials which make the plants very growthy and tender, thus rendering them less hardy at transplanting time, but also more susceptible to damping off and mosaic diseases. A light and not too frequent application of these solutions will prove more satisfactory.

Harden the plants off well by removing the canvas or glass sashes a week or ten days before transplanting to the field.  
Central Exp. Farm. G. C. ROUTT.

### Spinach Blight.

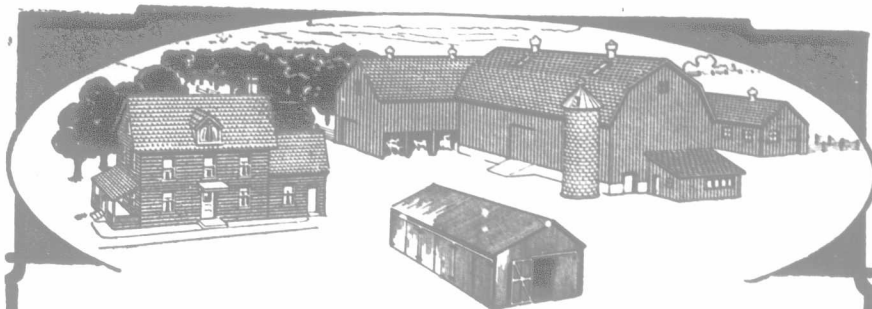
The following warning has been issued by the Central Experimental Farm from its Field Laboratory Station of Plant Pathology at St. Catharines:

A new and troublesome disease of spinach has appeared in the south-eastern part of the United States and our spinach growers here should be on the watch for it, since it has been observed as far north as New York State. In the spinach-growing sections of Virginia this blight is claimed to cause a loss of 20 per cent. of the crop.

In this disease the plants are dwarfed and the leaves become somewhat curled and yellowed. After remaining in a stunted condition for some time the affected plants are likely to die.

This "blight" is not due to any known parasitic organism, but is held to be of a similar nature to the "Mosaic" disease which occurs on tomato, tobacco, beans, cucumbers and other cultivated plants. Like these it is carried from one plant to another and thus may spread considerably in the field. It can be induced in a healthy plant by inoculating it with juice from a diseased plant. In the field it is said to be largely spread by insects, principally by sucking insects, of which two varieties of aphids are considered to be the worst offenders. As to seed transmission, the evidence indicates that if it is carried in this way it is only to a small degree.

If the disease appears here, our chief reliance for control will be in keeping down the insects which spread it.



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and sound business sense demands fullest fire protection for high value crops, stock and implements

There is no economy in saving a few dollars and losing thousands. Fires cost Ontario Farmers \$943,000.00 last year. "Metallic" would have saved three quarters of this. Do your bit—help cut down the loss—ROOF RIGHT!

"Metallic" is not as expensive as you may think. Do not simply compare prices per square. Compare costs laid on the roof. "Metallic" saves lumber and labor, and it will surprise you what a small difference there is in the laid-on-the-roof cost. Also consider the big difference in life-time—"Metallic" outlasts three ordinary roofs. It costs very little more at first, and is far cheaper in the end. Give us your roof measurements, and let us quote you COMPLETE.

The farmer who has just been burnt out is always our readiest customer for "Metallic".

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Metallic Rock and Brick Face Siding.  
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Prompt shipment. Quality first goods.

THE METALLIC ROOFING

Co. Limited, Manufacturers, Toronto

Ventilators, Eave-troughs, Hog and Stock Troughs, etc., etc.

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## JERSEYS

"The Lord might have made a better butter cow than the Jersey, but he didn't."—[Ex. Pres. Green]

According to the R.O.P. records, a four-year-old and a mature Jersey cow have each produced more butter in one year than any other cow, of any breed, in Canada. For information, apply to:

CANADIAN JERSEY CATTLE CLUB  
B. A. BULL, Secretary, Brampton, Ontario

## BRAMPTON JERSEYS

We bred and owned the dam, and imported the sire of the champion R.O.P. butter cow of Canada. We own the champion four-year-old R.O.P. butter cow of Canada. To make room for 1918 importation, expected to arrive in May, we are making special offerings of females and bulls, all ages.

B. H. BULL & SON

BRAMPTON, ONTARIO

## JERSEY COWS

An opportunity for dairymen or those wishing an ideal family cow! We have a choice lot of young, registered cows and heifers in calf. Make your own selection from a large herd. PRICES REASONABLE

Larkin Farms, (Please Mention Farmer's Advocate) Queenston, Ont.

I HAVE FOR SALE:

### JERSEY COWS AND BULLS

Six cows at \$200.00 each. Bulls from \$50 to \$100 each, from Island Blood sires. Strictly guaranteed as represented. T. J. HETHERINGTON, c/o 481 AYLMER STREET, PETERBORO, ONTARIO

THE WOODVIEW FARM JERSEYS CANADA'S MOST BEAUTIFUL JERSEY HERD Imported Champion Rower at its head.

This bull, with his get, won first prize on the island of Jersey, 1914, second in 1916, and again first in 1917. Present offering—A few yearling heifers in calf to our great young bull, Woodview Bright Prince (7788), and bred from imported sires and dams. We show our work cows and work our show cows.

### THE EDGELEY CHAMPION HERD OF JERSEYS

Write us about your next herd sire. We now have sons of our present herd sire, Edgeley's Bright Prince, who is a son of Canada's champion butter cow, Sunbeam of Edgeley. Pay us a visit. Sunbeam of Edgeley is not the only high-record cow we have. We are pleased to show our herd at all times. JAMES BAGG & SONS (Woodbridge, C.P.R., Concord, G.T.R.) EDGELEY, ONTARIO

### RECORD OF PERFORMANCE JERSEYS

CHOICE BULLS AND FEMALES. We have six young bulls of serviceable age, all from R.O.P. dams. Three are by our senior sire, Brampton Dairy Farmer, and three are by our junior sire, Brampton Bright Togo. Write for records. We also have females. R. & A. H. BAIRD (G.T.R. Stations—New Hamburg, Bright) NEW HAMBURG, ONT.

### GLENHURST AYRSHIRES—ESTABLISHED 50 YEARS

For a half-century Glenhurst Ayrshires have been noted for their depth and size, good teats and smoothness of conformation. Our famous Flos family has produced dozens of 60 and 65-lb.-a-day cows, many on twice-a-day milkings. We have young bulls up to twelve months, and females all ages. If you are looking for a combination of size, type and production—plus high butter-fat—write me or visit the farm. JAS. BENNING, Summerstown, G.T.R.; Williamstown, G.T.R., Williamstown, Ont.

### RAVENSDALE AYRSHIRES

A few splendid 12-months-old bulls, out of R. O. P. and imp. high-testing dams. January test averaged 4.6%; also younger bulls and heifers. I have three registered Clydesdales for sale, eight months old. Write for prices or come and see stock. W. F. KAY, PHILIPSBURG, QUEBEC 50 miles south of Montreal. St. Armand Station, G. T. R.

### Choice Offering in Ayrshires

AT SPECIAL PRICES. Several young bulls of serviceable ages. All from R.O.P. sires and dams. Come and see them. JOHN A. MORRISON, Mount Elgin, Ontario

### Glencairn Ayrshires

Herd established ability from 8,600 to 11,022 lbs. If that sort of production appeals to you, we have heifers all ages and young bulls for sale. Thos. J. McCormick, Rockton, Ont. Copetown Station, G. T. R.