

## USING MILKING DEVICES

When It is Advisable to Invest in Milking Machines.

The Cause and Cure of Diarrhoea in Calves — Simple and Common-sense Methods of Treatment May Save Valuable Young Animals.

(Contributed by Ontario Department of Agriculture, Toronto.)

It is clear that if dairying is to develop as it ought to do in the Province of Ontario, more labor is needed on dairy farms. As the supply of labor is limited, cow-farmers are turning their attention to the mechanical milker as an aid in the biggest job on a farm where milk-cows are kept, namely, that of milking.

Past the Experimental Stage.

While it is true that mechanical milkers are not yet perfected, and possibly will never be absolutely "fool-proof," they have reached a stage of perfection where they can be recommended to the man who is in need of help at milking-time. There are several machines now on the market which have proven to be more or less successful in tests made at Experimental Stations, but what is even more important, have stood the test of actual farm conditions. The advertising columns of the agricultural press contain the names of the leading makes of machines which can now be purchased by milk-producers.

In answer to the question, "will it pay to buy a milking machine?" we would answer yes, under the following conditions:

1. Where a herd of twenty or more milking cows are kept, though we were in a stable recently where a man was using a machine to milk eight cows, and he considered that it paid him.
2. Where hand-milkers are not to be had, and where it means selling all, or part of the herd, because of the difficulty in getting the cows milked.
3. Where a man desires to increase his herd but cannot do so, because hand milking is impossible.
4. Where a man has some mechanical genius and is willing to give the machine the necessary attention in order to make it a success. Not every man can get good results with a milking machine. The cows must be stripped after the machine, to insure "milking out clean."
5. Where a man or woman will give the necessary attention in order to keep the machine clean. It must be thoroughly washed and the milking parts kept in a solution of chloride of lime—one pound, dissolved in ten gallons of water. This must be changed about every two weeks, or as often as necessary to prevent contamination.
6. Where a man has the necessary capital (about \$500) to invest in a machine and does not have to borrow the money at the present high rate of interest.—Prof. H. H. Dean, Ontario Agricultural College, Guelph.

### Infectious Diarrhoea in Calves.

A form of diarrhoea in calves, known as "Infectious Diarrhoea," is not uncommon in calves, and the owners are often at a loss to account for it.

It is caused by a specific germ that gains entrance to the circulation, generally by the navel opening. It generally occurs as an epidemic in certain stables or certain localities, and as it is often fatal, causes great loss to the breeder.

The cause and results strongly resemble those of joint ill or navel ill in foals. The virus which causes the trouble exists in the stable or in the soil.

Symptoms.—At a variable time after birth, in some cases a few hours and in others a few days, the young animal suffers from an attack of acute diarrhoea, the symptoms of which do not differ markedly from ordinary diarrhoea, except from the fact that they seldom yield readily to treatment. The patient refuses to nurse or partake of nourishment, persists and death soon results.

Treatment.—Preventive treatment consists in preventing the cause. When we know that the entrance into the circulation of a germ causes the trouble, its entrance must be prevented in order that we may be successful. The building in which the cow is expected to bring forth young, and especially the stall, should be thoroughly disinfected. This may be done by sweeping and dusting thoroughly, and following by a thorough washing or scrubbing with a hot five per cent. solution of carbolic acid or one of the coal tar antiseptics, or a thorough coat of hot lime wash with five per cent. crude carbolic acid. The stall should be cleaned out daily and a little slacked lime spread upon the floor each time before supplying fresh bedding. The attendant should have a quantity of a good strong disinfectant on hand, as one of the solutions above mentioned or a solution of corrosive sublimate, 30 grams to a pint of water. The writer prefers the latter. The navel of the calf should be freely dressed with this as soon as possible after birth, and several times daily afterwards until thoroughly healed.

Curative treatment is often ineffective. The following has probably given better results than any other, viz.: Mix part formalin with 15 parts new milk and mix a teaspoonful of this with each part of milk consumed

by the calf. When the calf is nursing its dam the mixture can be mixed with a small quantity of the dam's milk and given as a drench, the attendant estimating about how much it should get. When the calf is to nurse the dam it is well to wash udder and teats with the solution before the calf nurses and once or twice daily for a week or so afterwards. When this is done the parts should be allowed to dry, and then be well rubbed with a dry cloth before the calf is allowed to nurse.—J. H. R., Ontario Agricultural College, Guelph.

## WINTER DAIRYING PAYS

A Few Very Simple Rules for Economical Feeding.

A Profitable and Efficient Ration for Work Horses When Fall Work Closes—How to Feed Roughage to Live Stock to Best Advantage.

(Contributed by Ontario Department of Agriculture, Toronto.)

ONE great lesson which is being impressed on the people of Canada at the present time, and which cannot be emphasized too much is the need for thrift or economy. In this connection those in authority ought to set a worthy example to what Lincoln called "the Common People," of whom he is reported to have said, "The Lord must have loved them, because he made so many."

Farmers farm, "not for fun" as a man said to me one time, "but to make money." This may not be a high ideal for farmers or anyone else, but nevertheless it is a very necessary part in the lives of most farmers.

The chief value of winter dairying from an economical viewpoint is, that prices for milk, butter and cheese are always greater in winter than in summer, and if the producer of milk can keep winter production costs down to the level of summer costs, the gain in price for the milk, cream and butter sold in winter, is clear profit. Some claim that this cannot be done and that the extra cost of feed in winter, more than counter-balances the extra prices received for winter dairy goods.

This is probably true where the cow-feeder is obliged to purchase all his concentrates in the form of high priced dairy feeds, such as oilcake, cottonseed and gluten meals, but where a farmer is able to grow all his roughage, and at least one-half the meal ration, on his own farm, there is probably not so much difference between winter and summer milk costs, as some would suppose, especially on high-priced land. Where cheap, rough land is available for summer pasture, then summer milk can be produced comparatively cheap.

Another phase of milk production in winter worth considering is the labor problem. In winter there is more time to attend to the cows than in summer during the rush of work. Having the cows in a comfortable stable makes pleasant winter work looking after them. If at least half the herd be fresh during November and December, these cows will be going dry at harvest time the following summer, and thus labor is more evenly and more economically distributed throughout the year. Winter dairying may be warmly commended to the people of the Province of Ontario who keep cows for profit.—Prof. H. H. Dean, Ontario Agricultural College, Guelph.

### Wanted—An Idea

Have you an idea of some simple thing to patent? Let your idea be brought to the attention of JOHN WEDDERBURN & CO., Patent Attorneys, 100 King Street West, Toronto.

TO PATENT YOUR IDEAS may be secured by our aid. Address THE PATENT RECORD, 242 Queen St. W., Toronto.

## We Print

- Letter Heads
- Note Heads
- Bill Heads
- Statements
- Envelopes
- Invitations
- Visiting Cards
- Memorial Cards
- Programmes
- Butter Wrappers
- Sale Bills all sizes
- Concert Bills etc.

It Pays To Get Your Printing Done At

THE LIBERAL OFFICE

## NOTICE OF APPLICATION FOR DIVORCE.

NOTICE is hereby given that Rose Hirst, Married Woman, of the City of Toronto, in the County of York, in the Province of Ontario, will apply to the Parliament of Canada, at the next session thereof, for a Bill of Divorce from her husband, Thomas Leslie Hirst of the said City of Toronto, Testator, on the ground of adultery and desertion.

DATED at Toronto, Province of Ontario, 18th day of November, 1918.  
DOUGLAS & GIBSON,  
17 Queen Street East, Toronto,  
Solicitors for the Applicant,  
Rose Hirst.

## Division Court

The Next Sitting of Division Court No. 3, County of York will be held in the Court Room.

RICHMOND HILL

—ON—

Tuesday, January 7, 1919

Commencing at 9.45 a.m.

T. F. McMAHON CLERK

## Sand, Gravel, Tile and Brick

The Maple Sand, Gravel and Brick Company Ltd. have on hand for sale Cement drain tile, 3, 4, 5, 6 and 8 in. Culvert tile 12, 15, 18 and 20 inch (30 inches in length.)

Also Cement Brick. Sand and Gravel sold by the load or in car lots.

T. COUSINS,  
31st St. Pres. and Manager  
Maple

## FOR SALE

One and a half acres with a tidy little house and outbuildings on the corner of Mill and Lucas Sts.

A vacant lot on the north side of Centre St. East. Very desirable.

A new well finished brick veneer dwelling on Markham Road at a bargain.

A very comfortable brick clad house on Centre Street West with good sized lot.

A good house, stable, chicken house, orchard, etc., just the spot for a retired farmer at Victoria Square. A great bargain for a quick sale.

107 acre farm on 2nd Vaughan. Brick house, good outbuildings, 4 acre orchard, abundant water, and first class land, easy terms. Money to loan on first mortgage on farm property.

H. A. Nicholls  
REAL ESTATE

## Farmers Attention

Make money in your spare time during the Fall and Winter months by selling

Hardy Canadian Nursery Stock.

British and European markets will be open again for Canadian Fruit and now is the time to order for spring planting.

Largest list of Fruit and Ornamental Stock, Seed Potatoes, etc., grown in Canada.

Write for Particulars.

STONE & WELLINGTON  
The Old Reliable Fonthill Nurseries  
Established 1837  
TORONTO, ONT.

## Special Attention

- Mixed Feed for Poultry at \$3.60 cwt.
- Purina Scratch Feed \$4.15 cwt.
- Oil Cake Meal \$3.80
- Monarch Calf Meal 25 lb. bag \$1.35
- Carload of White Shorts to arrive any time at \$44.00 by the ton
- Dairy and Barrel Salt
- Sampson and Dairy Feed
- Purity and Pastry Flour
- Soft and Buckwheat Coal and Coke on hand
- Wishing all A Merry Christmas and A Happy New Year

Canada Food Control License No. 9-7446

I. D. RAMER

THE STANDARD BANK OF CANADA HEAD OFFICE - TORONTO TRUST FUNDS

Our Savings Department gives you a guarantee of absolute security and interest at current rate.

RICHMOND HILL BRANCH  
L. E. HAND, Manager.

## HIGHLAND LAKE FARMS

Herd sire, AVONDALE PONTIAC ECHO (under lease), a son of MAY ECHO SYLVIA, the world's best record cow for milk production and Canadian Record for butter, 41 lbs. Only one other 41-lb. bull in Canada. Our herd of one hundred includes nearly fifty daughters of a 33.31-lb. son of the great KING SEGIS, brother to the sires of three world's record cows—mature 50.68, Sr. 4-yr. old 46.84, Jr. 4-yr. old 40.32 lbs. Junior herd sire, KING SEGIS PONTIAC CANADA, a half brother to AVONDALE PONTIAC ECHO, out of a 30 lbs. Segis cow. He is for sale. If this combination of breeding interests you, write for prices on either males or females.

FARM AT STOP 55, YONGE ST. RADIAL  
R. W. E. Burnaby - Jefferson, Ont.

## Richmond Hill Annex

For Sale on Easy Terms

Building Lots on Yonge St., Belmont and Clarence Avenues.

Acre Garden Lands.

Trackage Lots on Canadian Northern Ry., and Metropolitan Ry.

FOR FURTHER INFORMATION WRITE OR SEE

C. A. SKEELE J. T. LOCKE & CO.,  
Richmond Hill 10 Adelaide St. E., Toronto

## Save 2 Cents

On every Loaf by purchasing \$1.00 worth of tickets.

We have just received another shipment of Good Luck Family Flour.

Also Bran and Shorts for sale.

A. A. EDEN

Phone 77 Canada Food Board Baker's License 5-1567

## AVERY TRACTOR

BUY THE BEST

The TRACTOR is helping the farmer to raise more food in less time with less labor and expense than he could do it with horses.

There's a Size for EVERY SIZE Farm and EVERY KIND of Work.

## FIELD WORK BELT WORK ROAD WORK

Preparing the Seed Bed, Handling the Grain Crop, Handling the Corn Crop and Miscellaneous Crops and Hauling.

Motorize all your work. Raise larger crops by Motor Farming and save expense.

The Avery Motor, the finest power plant on wheels, mounted on a sliding frame burns Kerosene.

AVERY TRACTORS LEAD. They are the only make of Tractors built in five sizes of the same standardized design.

AVERIZE ALL of your WORK. Demonstration any time.

L. W. CURTIS,  
Agent  
RICHMOND HILL  
Phones No. 68-54