

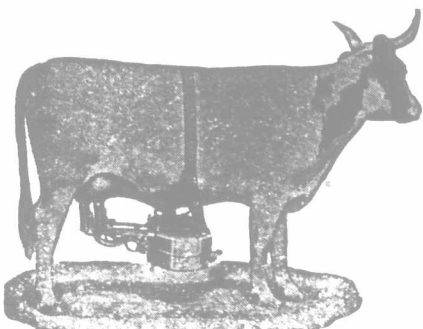
Even when grain prices are low

## Crop Feeding Pays

but with crop values at present levels, the dollars you invest in fertilizers bring an even bigger profit which the good business farmer cannot afford to overlook. More fertilizer per acre and fertilizer on every acre together with better cultural methods will help pay the mortgage and put money in the bank account in 1917. A postal brings our free book, "Crop Feeding Pays."

Canadian Division  
Soil Improvement Committee  
of the National Fertilizer Association  
Baltimore, Md. Dept. Chicago, Ill.

## OMEGA Milking Machines



### Care of Milking Machines

Excerpts from an article in the "Implement News":

"One of the most important needs of users of milking machines is that of quick cleaning. It should be done properly at the proper time. The machines should never be allowed to stand until the casein hardens on the rubber tubes or cups."

### Omega has NO RUBBER TUBES

Short transparent celluloid tubes take the place of long rubber ones. They do not decay or harbor germs, and are easily and quickly cleaned. This is an exclusive OMEGA feature; another is that the pail and milking parts are suspended from the cow's back, and the teat-cups cannot fall to the floor and suck up filth.

### WRITE TO-DAY

for illustrated booklet describing the many exclusive features of the OMEGA.

C. RICHARDSON & CO.

St. Mary's - Ontario

## Lakeside Ayrshires

A few young bulls for sale, from Record of Performance dams, imported and Canadian-bred, sired by Auchinbrain Sea Foam (Imp.) 35758, grand champion at both Quebec and Sherbrooke. Write for catalogue.

GEO. H. MONTGOMERY, Proprietor  
Dominion Express Bldg., Montreal, Que.  
McArthur, Manager, Phillipsburg, Quebec

Dungannon Farm Ayrshires  
Offers two eleven-months-old bulls by Humes-rough Prince Fortune, and from good dams. Also younger stock.

W. H. FURBER, Mgr., R. R. 6, Cobourg, Ont.

Glencairn Ayrshires Herd established 41 years. Producing 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 Stn., G. T. R.

LABELS  
Live-stock Labels for cattle, sheep and hogs, manufactured by the Ketchum Manufacturing Co.  
Box 501, Ottawa, Ont. Write for samples and prices

Not Pampered.—Doctor (to Mrs. Perkins, whose husband is ill)—"Has he had any lucid intervals?"  
Mrs. Perkins (with dignity)—"E's 'ad nothing except what you ordered, doctor."  
—Christian Register.

## Questions and Answers. Miscellaneous.

### Seed for Lawn—Septic Tank.

1. How can I have an up-to-date toilet installed in the house, where there is no sewer connection and no way of getting an outlet for one? The land is level and of a sandy loam nature, with a clay subsoil. Would a cess-pool work in clay soil? When I built my house I left a small room for the bathroom, and was thinking of putting in a chemical closet. What would you suggest?

2. Two years ago I built a house and all the soil from the excavation of the cellar, cistern and well was graded around the house. I endeavored to get the clay subsoil in the bottom and the sandy loam on top. Part of the top layer is sort of a white sand. I wish to seed this down in the spring, and would like to know what kind of seed you would advise, and also how to prepare the land for the seed. I have 100 lbs. of fertilizer composed of 50 lbs. phosphate and 25 lbs. each of nitrate of soda and potash; would this be beneficial to the lawn which contains about 2,300 square feet?

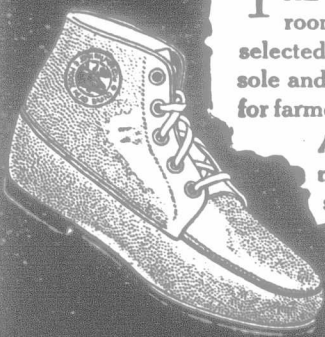
3. I have four soft maple trees in front of my house, which are all growing well. Last summer the leaves on one of them became covered with what looked like lice, but upon close examination they resembled small blisters. These were firmly attached to the leaves. What was the cause and what remedy would you prescribe?

4. I purpose building a hen-house in the spring 20 feet long, 12 feet wide, 7 feet high in front and 5 feet at the back. I plan to have a 4-foot alley-way in the middle, leaving a pen 8 by 12 feet on either side, and having the nests and feed troughs in the alley. The building will face the south, and I purpose having the front about one-third closed at the bottom, then windows about 3 feet high and from the windows to the roof open. What do you think of this plan? What kind of floor would you advise? How many hens can I keep in each pen? J. B.

Ans.—1. In order to have a cess-pool give satisfaction the soil should be of a sandy or gravelly nature. The chemical closets are in use in many buildings, and are apparently giving satisfaction. A septic tank can be installed at small expense, and gives satisfaction on any kind of soil. Two concrete tanks are built outside the house; the one tank should be about 4 by 4 by 4 feet for an ordinary-sized household. Adjoining this should be a tank of the same length and depth, but from 2 to 2½ feet wide. In this smaller tank is installed a valve. The overflow from the larger tank runs into the smaller and when it has reached a certain height the float opens the valve and allows it to escape through tile. The tanks have to be built practically on the surface of the soil, as it is not advisable to have the tiles leading from it much over 20 inches deep. However, it is necessary to cover the tanks to prevent freezing. Sewer tile, with the joints cemented, should be laid for a short distance away from the house, then ordinary farm drainage tile are used. These should be laid practically on the level, as the liquid escapes through the joints of the tile into the soil. If laid on a steep grade, it would all run to one end. The idea of the valve is to prevent the constant stream of water flowing through the tile, as when such is the case there is danger of roots of the crop growing on the soil penetrating the tile in search of moisture. This danger is overcome when the overflow is intermittent. It is necessary to have a ventilator leading from the tank. Connections in the house would be the same as for a sewer system.

2. The fertilizer mentioned should aid in giving the grass a start. We would not advise using much over one-quarter of the amount for the first application. Later applications might be made on the grass. Level off the lawn and make the soil as fine as possible. It is sometimes hard to get a satisfactory catch if there is much of that white sand, and it might pay to scatter a few loads of good loam soil over the sand so as to get a seedbed. Different kinds of seeds are used on lawns. Kentucky blue grass and red top make a nice, fine, velvety sod. To this might be added White Dutch clover. For the area in question, at least 5 lbs. of a mixture of the two grasses mentioned should be used, to which may be added from one-half to one pound of White Dutch. It will do no harm to increase the amount of the grasses, as it is doubtful if a person can

## Palmer's Summer Packs



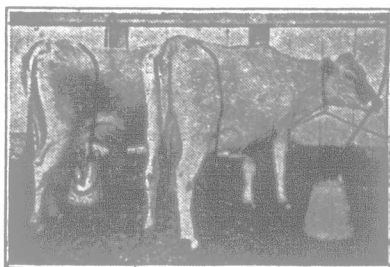
THE shoes for aching feet—light in weight, durable, roomy, comfortable and waterproof. Made from selected Skowhegan leather with water-proofed leather sole and heel and solid leather insoles. The ideal shoe for farmers or others working on the land.

Also specially suitable for woodsmen, trackmen, millmen, sportsmen, laborers—all who require strong, easy fitting footwear.

Get a pair of Palmer's "Moose Head Brand" footwear from your dealer. They will give you foot comfort and great wear.

JOHN PALMER CO., Limited  
Fredericton, N. B., Canada 31

## HINMAN THE UNIVERSAL MILKER



## Hinman Durability

NOT ONE, of over 23,000 HINMAN MILKER PUMPS has worn out. The pump leather can be replaced once a year for 20c. Ask HINMAN users. The first machine, installed over 8 years ago by Elba D. Dye, Edmeston, N. Y., is still in use twice a day.

Write for FREE Booklet "H", which tells more about it.

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Manufacturers under HINMAN Patents

## THE MENIE DISTRICT CLUB'S GREAT AYRSHIRE SALE

THE FIRST ANNUAL SALE OF THE  
Menie District Ayrshire Breeders' Club  
WILL BE HELD AT CAMPBELLFORD  
Wednesday, March 14, 1917

This will be the big Ayrshire sale of the season. The offering of fifty head includes over forty females, and seven young bulls fit for service. These choice young cows, heifers and bulls were sired by such noted breeding bulls as Auchinbrain Hercules, Hillside Peter Pan, Springhill Cashier and two other sons of the celebrated Lessnessock Durward Lely. These cattle have records and breeding to back them up. Prize winners at Canada's leading exhibitions are included. Menie district has for many years been famous for its Ayrshires. This sale will increase its fame. Lay a herd foundation on a sound basis by buying at this sale. Write for catalogue to:

W. E. TUMMONS, Secretary, Crookston, Ont.

## GLADDEN HILL AYRSHIRES

Headed by Fairview Milkman, our choice bull, 18 months old, from R.O.P. dams giving over 10,000 lbs. milk, testing over 4%. Bull calves up to six months of age and a few females for sale. Inspection invited. LAURIE BROS., AGINCOURT, ONTARIO

## HILLHOUSE AYRSHIRES

Headed by Burnside Lucky Master Swell, a combination of blood so hard to equal, being of the Masterpiece and Lucky Girl families, a combination which means quality, production and constitution 90 head to select from. Special offering—20 yearling heifers and 3 bulls. Inspection invited. F. H. Harris, Mt. Elgin, Ont.

## YOUNG BRAMPTON JERSEYS BULLS

For the next fortnight we are making a special offering on young bulls, bred from the highest producing families ever introduced into Canada. Brampton Jerseys and their descendants hold all Jersey R.O.P. records, save one. Females, all ages, also for sale. B. H. BULL & SON, BRAMPTON, ONT.

THE WOODVIEW FARM  
JERSEYS  
LONDON, ONTARIO  
Jno. Pringle, Prop. We work our show cows and show our work cows.

## THE DON JERSEY HERD

OFFERS: Several young bulls, all of serviceable age and all from R.O.P. dams. These are priced right. Interested parties should write or see these at once. We also have females of breeding age. D. Duncan & Son, Todmorden P.O., Duncan Sta., C.N.O.