

10 Scotch Shorthorn Bulls 10
FROM 10 TO 14 MONTHS OLD

The Princess Royal, Secret, Bessie, Village Maid families are represented in lot. First-class herd headers and farmers' bulls for getting market-topping steers. Prices very reasonable.

JOHN MILLER, BROUGHAM, ONT.
Claremont Station, C. P. R., three miles.

Woodholme Shorthorns are of the richest Scotch breeding, modern in type and quality. For sale: One- and two-year-old heifers, several young bulls, thick-fleshed, low-down and mellow.

G. M. FORSYTH, Claremont, Ont.
100 yards from station. Phone connection.

MAPLE LODGE STOCK FARM
1854 Very desirable young 1911

SHORTHORN BULLS FOR SALE.
Have best milking strains. **LEICESTER SHEEP** of highest quality. Lucan Crossing, G. T. Ry. Telegraph, Ailsa Craig. Telephone.

A. W. SMITH, Maple Lodge, Ont.

HIGH-CLASS SHORTHORNS

I have on hand young bulls and heifers of high-class show type, pure Scotch and Scotch-topped, sired by that sire of champions, Mildred's Royal. If you want a show bull or heifer, write me.

GEO. GIER, Grand Valley P.O. and station, also Waldemar station.

SPRING VALLEY SHORTHORNS

If you want a good Short-horn bull, we have them, Canadian-bred and imported. Females all ages.

Also a few good **YORKSHIRES**—boars and sows. Prices right. Phone connection. **Kyle Bros., Ayr, Ont.**

FLETCHER'S SHORTHORNS

Imported Shorthorn bull for sale. Just turned 4 years old. Benachie (imp.) = 69954—, bred by A. T. Gordon; sire Scottish Farmer, grandson of Scottish Archer; dam Beatrice 22nd, which produced Bandmaster, the first-prize Royal winner.

GEO. D. FLETCHER, BINKHAM, ONT.
Erin Sta., C. P. R.

Shorthorns

Present offering: 12 bulls from 5 to 20 months old; 40 cows and heifers to choose from. Nearly all from imported bulls. At prices to suit everyone. Come and see them, or write: **Robert Nichol & Sons, Hagersville, Ont.**

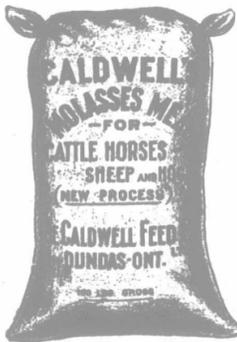
4 Shorthorn Bulls FOR SALE, of with size and quality. Several females, all bred from heavy-milking dams.

Thomas Graham, Port Perry, Ontario.

Imp. Scotch Shorthorns

When looking for Shorthorns, be sure to look me up. Young bulls fit for service, and females all ages; bred in the purple, and right good ones. **A. C. PETTIT Freeman, Ont.**

CALDWELL'S



Molasses Meal

For Horses, Cattle, Sheep and Hogs

Contains from 80 to 84 per cent. pure cane molasses (not a particle of sugar-beet by-product enters into its composition). A digestive feeding meal, convenient to handle, economical to use, and gratifying in its results. Nothing to equal it for finishing stock. Ask your dealer, or write:

The Caldwell Feed Company, Dundas, Ontario



SCOTCH SHORTHORNS
100 HEAD IN HERD.

Headed by the imported bulls: Bandman, a half-brother to the \$6,500 Count Crystal, the highest priced calf on record in Scotland; and Village Duke, a son of Villager, winner of 18 first and special prizes in Scotland. For sale: 12 good young bulls of the choicest breeding, and 40 young cows and heifers. All of noted Scotch breeding. In calf to our stock bulls.

Farm 1/4 Mile from Burlington Jct. Sta.

Long-distance 'phone. **Mitchell Bros., Burlington, Ont.**



H. CARGILL & SON

have to offer at the present moment an exceptionally good lot of young bulls, which combine all the requisites necessary for the making of superior stock sires, viz.: Quality, Size, Conformation and Breeding. If interested, come and make your selection early. Catalogue on application.

John Clancy, Manager, Cargill, Ontario.

Robert Miller, Stouffville, Ont.,

Can supply young bulls and heifers of the very choicest breeding, and of a very high class, at prices that you can afford to pay. The young bulls are by one of the greatest sons of Whitehall Sultan. They are good colors, and will make show bulls. I also have two good imported bulls at moderate prices and of choice breeding, and some cows and heifers in calf to Superb Sultan; the calves should be worth all the cows will cost. Some beautiful young imported Welsh Ponies still to spare. It will pay you to write, stating what you want. Glad to answer inquiries or show my stock at any time. Business established 74 years.

QUESTIONS AND ANSWERS
Miscellaneous.

BUCHU LEAVES FOR LYMPH-ANGITIS.

There appeared a number of years ago in your valuable paper, a cure for lymph-angitis in which buchu leaves were used. I lent a number to a neighbor in which it was in, and he lost it.

OLD SUBSCRIBER.

Ans.—The prescription, as communicated to us by a correspondent, is as follows: "At first symptoms of the trouble, give 1/2 ounce buchu leaves, divided into three equal doses, 12 hours apart. Steep each dose in a little water, and pour all over oats or bran, and they will eat it readily." We have never tried the recipe, nor referred it to our veterinary editor. It is simply reproduced as told to us.

INAPPETENCE.

I have a valuable Holstein cow that freshened last December. In about three weeks' time, the cow would only eat about one-half the quantity of hay that she ought to eat. She is fed two quarts of corn meal and forty pounds of pulped turnips, and all the hay that she will eat. The cow has got very thin in flesh, and I have noticed lately that she does not chew her cud. She does not have any cough, and gives about two-thirds as much milk as she did a year ago.

1. Is there such a thing as a cow losing her cud?
2. What would I have to do to get the cow's cud back again? C. E. C.

Ans.—1 and 2. You may have overfed the cow on the start. Purge her with 1 lb. Epsom salts and 1 ounce ginger. Follow up with 2 drams each of nuxvomica, ginger, gentian and bicarbonate of soda, three times daily. A cow ceases chewing her cud when sick. When the cow's digestive organs are restored to their normal condition, she will again chew her cud.

SMALL SILO — PORCELAIN VS. BRASS FOR SPRAY-PUMP CYLINDER.

1. How small can a silo be built and be successful?

2. How large would a silo have to be built to feed eight cows twelve months; or eight months, and a little all summer, as my farm is small, and would not keep much for pasture, say about three acres? Jersey cows; just keeping them for cream.

3. Which makes the best cylinder for a spray pump, porcelain or brass? J. H. M.

Ans.—1. We are not prepared to answer this question definitely. A good deal depends. We should not care to build one much smaller than eight feet in diameter, inside, and 24 feet in height. The less the diameter, the greater the percentage of deteriorated silage around the edge; and the less the height, the greater percentage of waste at the surface, if one does not commence feeding right after filling. Besides, the shallow silo gives little opportunity for settling, and does not admit of feeding for a very great length of time. The silage must be lowered at a reasonable rate to prevent spoiling.

2. Allowing 35 pounds per head per day, you would require for eight months' feeding of eight cows, about 34 tons, and adding six or ten tons for summer feeding, you would require 40 to 44 tons. To feed these cows twelve months would take about 50 tons of silage. A silo 9 feet in diameter by 30 feet in height would hold 35 tons, if refilled a couple of times. Similarly, a silo 10 feet in diameter by 32 feet high could be made to hold nearly fifty tons, but we would advise making the silo not less than 34 feet. We question whether it would be satisfactory trying to feed as few as eight Jersey cows for a whole year out of one silo, on account of the difficulty of keeping the silage good while being lowered at such a slow rate as would necessarily be the case.

3. Upon this point, Prof. J. W. Crow, of the Ontario Agricultural College, expresses his opinion as follows: "Porcelain of high quality is very hard, and is not subject to wear to the same extent that brass is. The difficulty with it is that it is liable to chip unless of very best quality. So far as I know, it is as good as brass, especially when backed up by a manufacturer's guarantee to replace it if not satisfactory."



What should a good Cream Separator do?

FIRST.—A good cream separator should skim close. The Frictionless Empire skims to a trace. That means the loss of less than one pound of butter-fat in every five thousand pounds of milk, which is equal to the loss of less than one pound of butter in all the milk a cow gives in one year. The Frictionless Empire gets thirty per cent. more cream than old-style methods. Thirty per cent. more profitable to you.

SECOND.—A good cream separator should be easy to clean thoroughly. The few smooth skimming devices of the Frictionless Empire are as easily and thoroughly washed as a glass tumbler. This cannot truthfully be said of skimming devices with corners, slots and crevices that soon get clogged up and cannot be thoroughly cleaned. Cream in perfect condition—cream without a taint—cream that commands the highest price—can only be obtained from a separator that can be thoroughly cleaned.

THIRD.—A good separator should save you work. The Frictionless Empire does the skimming in a small fraction of the time required with old-style methods. It saves many hours of work. It almost runs itself. So nearly frictionless that it will run for half an hour after you've completed the skimming, unless you use our brake to stop it.

FOURTH.—A good cream separator should be durable. The average cost per Empire machine has been but 17 cents per year for repairs (outside of rubber rings and brushes) during 20 years of service. Years of service prove their worth.

No other separators will do all these things. Many claim to do so, but they cannot, because Empire patents prevent them. These exclusive patented features are found only in

Some day you'll own an Empire

An Empire will make more dollars for you, cost less to run, save you more time, than any other make you can purchase. Fill in the coupon below, and we will send you a copy of our latest book, No. 2, the most unbiased, the most informing book on separators ever published. Mail the coupon immediately. And, remember also, that there's an Empire dealer in almost every town in Canada.

The EMPIRE Line of Cream Separators

Please send your latest book No. 2. I am interested in dairying, and I promise to read your book carefully. I have at present (state number) cows.

Name

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which embraces all sizes in Frictionless Empire (cone method) and Empire disc machines—everything that's good in cream separators. Whichever machine you buy, you are bound to be satisfied, for every Empire Separator carries with it a binding guarantee—a guarantee as good as a gold bond.

The EMPIRE CREAM SEPARATOR COMPANY OF CANADA, Ltd.

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