

The Fire-proof permanent roof is the cheapest

A FIRE can wipe out the savings of a lifetime, and human life as well. But lightning or fire cannot harm the building that is roofed with "Eastlake" Galvanized Shingles and sided with "Metallic" Siding.

Why risk your family's safety, or your buildings and belongings when the cost of a permanent, fireproof, "Metallic" roof and wall is little or no more than for inflammable kinds.

Before you build or repair write us for free booklet and information. We can show you real economies in many ways, including lower insurance rates.

We also make "Metallic" Ceilings, Corrugated Iron, Roof-lights, Ventilators, Silo-roofs, etc.

Metallic Roofing Co. Limited
Toronto
Winnipeg



"EASTLAKE" GALVANIZED SHINGLE

GET MORE MILK

BY FEEDING

Creamo Brand Cotton Seed Feed Meal
(Registered)

Car lots or less. Prices on application.

FRED. SMITH

32 Front St. W., Toronto, Ont.

CRAIGIELEA FARM

The home of high-quality Ayrshires. Look up our records in public dairy tests and R. O. P., made under normal conditions. A few young bulls and females up to a carload.

H. C. HAMILL, R. K. No. 1, Markham, G. T. R. Station
Locust Hill, C. P. R. Home phone. Bell connection at Markham.

Lakeside Ayrshires

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

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

Dungannon Farm Ayrshires

Offers two eleven-month-old bulls by Humesbaugh Prince Fortune, and from good dams. Also younger stock.

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

Glencairn Ayrshires Herd established 40 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.**

JERSEY BULLS For Sale—Knoolwood's Raleigh, sire, Fairy Glen's Raleigh (imp.), 22 daughters R. O. P.; dam, Eminent Honeymoon (imp.) R. O. P. 196 lbs. butter; reserve champion on island. Capt. Raleigh ready for service, sire, Knoolwood's Raleigh; dam Mabel's Post Snowdrop; first as calf, 1914, first Junior champion 1915, 2nd 1916, Toronto. Milked 38 lbs. day, 6 per cent. milk first calf. **Ira Nichols, Burgessville, Ont. R.R. No. 2.**

Jerseys for Sale

Two bulls fit for service in the spring, from Record of Performance dams. Also a few grade heifer calves. **R. A. Foley, R.R. 1, Mallorytown, Ont.**

WILLOWBANK DORSETS

Amongst our ram lambs is the 1st prize ram lamb at Guelph, 1916, a very fine animal. Also a few other lambs bred from imported sire and dams. **Geo. Robertson & Sons, Hornby, Ont.**

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

Questions and Answers. Miscellaneous.

Straw for Sheep.

Can you tell me whether or not oat straw will kill sheep. Our neighbor said not to give oat straw to sheep as it would kill them. I lost two nice, good-sized lambs last spring. We are feeding the sheep pea straw now. **M. B.**

Ans.—Good, clean oat straw should not kill sheep. If they were wintered on it alone, of course, they would not do very well. They require more feed. Pea straw is much better sheep feed than oat straw, especially if it is flail-threshed.

Small Silo.

A fish firm has a wooden tank for sale and I was thinking of purchasing it for a silo. It is about 8 feet in diameter and 16 feet high. It has been used for holding fish oil. Would the oil in the wood spoil the silage? How many tons of silage will it hold? Would the tank be large enough to keep silage properly? **M. E.**

Ans.—There is danger that the oil in the wood might give a repugnant flavor to the silage touching on the wood. Other than this we do not see that the oil would injure the silage. If the tank were standing empty in the sun for some months, the oil would become dried into the wood. A silo of the dimensions mentioned would hold about 14 tons of silage. We would prefer having a silo at least 2 feet larger in diameter and from 10 to 15 feet higher. However, the corn will keep all right in an 8-foot silo, but the waste will be larger in proportion to the amount ensiled than in a larger silo. You might be able to add another 10 feet to the height. The corn would settle practically this much and would leave you the 16 feet of silage, which would be sufficient to feed a herd of 10 cows 30 pounds a day for 93 days.

Gravel for Wall—Septic Tank.

1. How many cords of gravel and barrels of cement, mixed in the proportion of one to seven, will it take to build a wall 13 feet by 18 feet by 7 feet by 8 inches?

2. How can I build a septic tank for bath-room waste? How far should it be from house and well? How deep in the ground should it be? **R. D.**

Ans.—1. It will require about two and one-quarter cords of gravel and ten and one-half barrels of cement.

2. A septic tank may be built right alongside the house foundation, and it is necessary to keep it up out of the ground sufficient to permit the drain from it to be about 20 inches under ground. When it is necessary to build the tank pretty much above the level of the ground, it must be banked with earth to keep it from freezing. It will be necessary to put a covering on it and then eighteen or twenty inches of soil. The tank should be built in two compartments, the size depending on the amount of waste. The water flows into a large compartment first, and for the average sized household a tank 4 feet by 4 feet would be about large enough. The overflow from this going to a tank possibly 2 or 2½ feet wide, but the same depth and length as the larger tank. The valve is placed in this small compartment, which allows the water to escape into the drain when it has reached a certain height. This prevents a continual small stream of water running into the tile, and tends to offset the difficulty of roots of whatever crop is grown penetrating the tile. Any handy man can build a septic tank of concrete and the valve could be installed by a plumber. It is advisable to use sewer tile and cement the joints for 25 or 30 feet out from the house, and farther than this from a well; then, ordinary clay tile will prove quite satisfactory. They should be laid pretty much on the level, as the water seeps from the joints into the soil. If the tile are laid with a fall, the water would all flow to the lowest point. Two or three hundred feet of tile would be quite sufficient and they may be branched out rather than run in one straight line. With the septic tank the waste is practically all destroyed by the action of bacteria in the large compartment, and we have known systems installed as mentioned to have been in constant use for ten years without giving the first sign of trouble.

Use A Fertilizer—Says Gov't. Agricultural Dept.

Why fly in the face of Providence? The sound advice, contained in the bulletins of the Department of Agriculture, is based on the knowledge of the best agricultural experts in the country and the accumulated experiences of thousands of farmers.

Almost every soil lacks some element of the plant food necessary for a maximum crop, and each crop leaves the soil poorer. Therefore, those important sustainers of plant life—potash, nitrogen and phosphoric acid—must be put back into the soil in the form of a fertilizer.

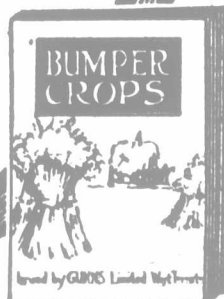
Gunns Shur-Gain Fertilizer

is in growing demand amongst farmers who want the best. It gives much more satisfactory results than a home mixed fertilizer because the ingredients are scientifically proportioned to meet the requirements of both soil and crop and are blended into a perfectly balanced plant food. Expert chemists have prepared these formulas, checked by Government analysts, and the mixing is done under careful supervision.

Gunns Shur-Gain Fertilizer is finely ground, making it more economical to use and easier to apply. It will not burn or sour the soil, and is very rich in humus. There is a formula to fit the requirements of every soil and every crop. These are fully explained in our booklet, "Bumper Crops," and also general directions for their use. A copy is ready for you, if you will ask for it.

Gunns Limited, West Toronto

79 C



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.**

Gladden Hill Ayrshires

—Headed by Fairvue Milkman, a son of Canada's champion Ayrshire cow, for milk and butter-fat Milkmaid 7th. Some choice young bulls from Record of Performance dams for sale, and a few females.

LAURIE BROS., Agincourt, Ontario

City View Ayrshires

—Record of Performance blood in everything. Our females run from 4.15 to 5.02% fat, with a herd average of 4.54. Bull calves and bulls fit for service. Stock for sale either sex. Prices according to merits.

JAMES BEGG & SON, R.R. No. 1, St. Thomas, Ontario

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.

Canada's Most Beautiful Jersey Herd Present Offering—Some high-class bull calves ready for service, from Record of Performance dams, including grand champion bull at last Western Fair and his full brother, also cows and heifers. State distinctly what is wanted, if writing. 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.**

AUCTION SALE—FEBRUARY 27, 1917

at one o'clock, of

Registered Leicester Sheep

on Lot 19, 11 line of East Zorra, County Oxford, 8 miles north of Woodstock, 2 miles west of Hickson.

19 BREEDING EWES

9 EWE LAMBS

2 RAMS

The pedigrees will be given at time of sale.

They are to be sold with other stock.

TERMS:—6 months' time by furnishing approved security or 6% per annum off for cash.

Sheep loaded at Hickson at purchaser's risk.

OLIVER BLAKE, Prop., R. R. No. 2, Tavistock, P.O., Ont.

WILLIAM PULLIN, Auctioneer

H. ARKELL

W. J. ARKELL

F. S. ARKELL

SUMMER HILL STOCK FARM

Largest and oldest importers and breeders of

OXFORDS

In Canada. Look up our show record. It will give you an idea of the kind of Oxfords we have for sale. **PETER ARKELL & SONS, Proprietors, Teeswater, Ontario** Customers, beware of imitations of this advertisement.