

**More-Finer Fruit**

USE the quickest, surest, most economical method of spraying: preventing disease, blight, killing bugs; assuring bumper crops of finest fruit. 300,000 farmers, gardeners have found

**Brown's Auto Spray**

most efficient—Style No. 1 shown here. Capacity 4 gallons. Easily carried over shoulder. Does more work than 3 ordinary sprayers. Patented Auto Pop Nozzle—throws any kind of spray—does not clog.

**Better Vegetables, Bigger Crops**

Just the size for small trees, fields up to 5 acres, poultry houses, etc. For large sprayers—Brown's

**NON-CLOG ATOMIC NOZZLE**

applies any solution without clogging. Guaranteed. 40 styles, sizes—hand—power. Write for Free Spraying Guide.

The E. C. Brown Co.  
67 Jay St.  
Rochester, N. Y.



## Royal Dublin Society

GREAT IRISH SPRING SHOW, TO BE HELD AT DUBLIN, ON

**April 14, 15, 16 & 17, '14**

Magnificent display of the largest number of pure-bred young bulls at any show in Europe. Auction sales on the second and third days of the show. For all particulars, apply to the

**Agricultural Superintendent**  
Leinster House Dublin, Ireland

## 5 SHORTHORN BULLS

from 9 to 14 months, large growthy fellows; 1 high-class herd header, 9 months, sired by a Duthie bull; a few good young heifers all priced, worth the money. STEWART M. GRAHAM Lindsay Ontario

## Spring Valley Shorthorns

A few of the best young bull prospects we ever had. They will please you. Will sell females too. Visit the herd; we think we can suit you. Particulars on application KYLE BROS., R. R. No. 1, Drumbo, Ont. Telephone, Ayr

**1854 MAPLE LODGE STOCK FARM 1914**  
**Shorthorns and Leicesters**  
have a most excellent lot of young rams for sale, mostly sired by imported Connaught Royal. Something very choice in young bulls. House one mile from Lucan Crossing, G.T.R. Estate of Late A. W. SMITH. MAPLE LODGE, ONTARIO

## Woodholme Shorthorns

I have a few more Scotch Bulls, of the low set thick kind, breeding unsurpassed, left for sale; among others a 10 month's, out of imp. sire and dam, a herd header of the right kind. Write me your wants G. M. Forsyth, North Claremont, Ont.

## THE MANOR SHORTHORNS AND LINCOLNS

Young bulls, also heifers, got by, and cows in calf to one of the good bulls of the breed. In Lincoln 6 yearling rams and 10 ram lambs by an imported ram. Inspection solicited. J. T. GIBSON, Denfield, Ont.

## "OAKLAND" SHORTHORNS

50 head of good individuals to select from, 26 breeding females, headed by a fine Roan 1st prize, and sweepstakes bull. Just three bulls fit for service, all of high quality, and priced to sell. Dual purpose a specialty.

John Elder & Sons Hensall, Ontario

**Shorthorns "Trout Creek Wonder"** at the head of the herd which numbers about 40 head. Heifers and bulls of the best quality for sale at reasonable prices. Duncan Brown & Sons, RR 2, Shedden

**Shorthorns and Swine**—Have some choice young buls for sale; also cows and heifers of show material, some with calves at foot. Also choice Yorkshire sows. ANDREW GROFF, R. R. No. 1, Elora, Ont.

**FLETCHER'S SHORTHORNS**—Present offering 5 choice bulls, suitable for high-class herd headers, 8 to 11 months, and females all ages. Present stock bull "Royal Bruce" (imp.) = 55038 = George D. Fletcher, R. R. No. 2, Erin, Ont. Erin Station, C.P.R. Long Distance Phone

## Questions and Answers. Miscellaneous.

### Fertilizing Corn.

In your issue of February 12th, you advise "Subscriber," who has no manure for corn ground, to use nitrate of soda, acid phosphate, and muriate of potash. Our land is heavy clay and some limestone gravel. Would the same fertilizer do for us? We have not enough manure to cover all the field as we would like. Would it be better to give part of field a fairly good covering, and use fertilizer for the remaining part, or give all the field a light covering of manure and not use so much fertilizer per acre? Do you think it is of any benefit to root crops to apply about 300 pounds of salt per acre? Do you apply fertilizer broadcast to land after corn is sown? SUBSCRIBER.

Ans.—The fertilizer as recommended in our issue of February 12th would likely prove satisfactory on your land, especially that you have no barn-yard manure to apply to this soil. We would advise giving the entire field a light covering of the barn-yard manure, and using a lighter application of the fertilizer with it than putting all the manure at one end of the field and the fertilizer on the other. We would not advise sowing salt extensively on land which you are preparing for roots. In applying fertilizer, it is better to sow it just before the crop is sown or planted, and work it in with the cultivator or harrow.

### Summer Henhouse and Rations.

1. Please give a plan for summer henhouse, to hold 150 hens, using California siding. Please quote approximate prices.

2. What would be a good summer ration for laying hens? C. P. M.

Ans.—1. The best house we know for this purpose would probably be the open-front house. To accommodate 150 hens, it would require to be 20 feet wide by at least 30 feet long. The floor is sometimes made of concrete, but the ordinary earthen floor would serve your purpose very satisfactorily in the summer time. The south side of the house is left open, with the exception of a wire netting. The posts in the front or south side are three feet high, and in the back or north side four feet six inches. The gable end or peak of the roof is seven feet high. In the west end is a large window to admit light, and in a building 20 x 20, which is the customary size for 100 hens, this window is built 4 feet 24 inches, by 5 feet 4 inches. There is a door in the east end. This building is used summer and winter, without any extra protection in front, but a curtain might be used over the wire netting, if it were put up and down at the right time. If you require this building in summer only, we can see no reason why the front should not be built the same height as the back, and protected with wire in the same way as with the shorter posts. The material for this building, 20 x 30, will cost you in the vicinity of \$65 or \$70, and the labor will bring it slightly over \$100.

2. In spring and summer feeding, the rations are better composed entirely of grain and green foods, when the eggs are to be used for hatching purposes, but if they are desired for the market only, mashes and small quantities of animal food may be used to good advantage. With the dry-grain method of feeding, the grain is scattered in the straw during the forenoon, and they are allowed to eat it from a trough at night, but after they go to roost the grain is scattered in the littering, and all gathered up into one heap. Early in the morning they busy themselves procuring their breakfast from this heap of grain and chaff. In addition to this, a small hopper of rolled oats is put on the side of the wall where they can get it at pleasure. Green foods should be supplied liberally, either by running on small grass plots, or by cut clover or sprouted oats. Roots, apples, or vegetables of any kind, would be relished very much, and sour milk is very much relished as a drink. Where mashes are used, it is composed of mixed ground grains, moistened with water or milk, fed in the morning. Some grain is scattered in their litter at noon, and at night they get all the whole grain they can eat. The same caution should be taken to furnish green food when mashes are fed as in the case of whole grains.

## Turn Your Skimmed Milk Into Money

Convert it into dollars by feeding it to your calves, along with a small portion of GARDINER'S CALF MEAL, the perfect cream substitute. You will save money, and make money three times a day. Better begin at once.

## GARDINER'S CALF MEAL

THE PERFECT CREAM SUBSTITUTE

is now being discovered by new users every day, who declare it to be a good business proposition, anyway it is figured. It is a perfect substitute for cream or milk. You can raise just as good calves on GARDINER'S CALF MEAL as you can on whole milk, but at a great saving. You owe it to your bank account to take advantage NOW of the special offer below.

### SPECIAL OFFER!

We will ship to any address in Old Ontario one of our big hundred-pound sacks of GARDINER'S CALF MEAL, freight prepaid, for \$3.75. Send to-day. This offer may not appear again.

**GARDINER BROS., SARNIA, ONT.**

A live representative wanted in each locality.

## Reg'd R. O. P. Milking Shorthorns

BY AUCTION, IN THE CITY OF WOODSTOCK.

**Tuesday, March 10th, 1914**

TO BE HELD IN DR. RUDD'S SALE STABLES.

The herd consists of 7 cows, 4 heifers under a year, 1 ten-months-old bull, and 3 bulls 2 to 3 months old. They are large, strong cattle, nearly all dark reds or red and white. Every cow is a good individual of milking Shorthorn, heavy milk producers and regular breeders. Those under test are the big, strong, red cow, Belle of Beachville 2nd 55450; she is 19 years old April 10, 1914, has been under test 10 months, and has produced 9,483½ lbs. of milk testing over 4%, and still giving 20 lbs. a day, and apparently good for years to come. Is safe in calf to College Duke. Butter Belle 96416, a 3-year-old daughter, has produced 5,200 lbs. in ten months, testing over 4% and safe in calf. A pair of 2-year-olds lately entered are doing well also. Duchess of Maple Lane, a very large heavy cow, produced in one

month since calving on Nov. 30 1,394 lbs., testing 4.2%, and others of like record of which records will be given on sale day. The 10-months-old bull is a large, vigorous, growthy fellow, fit for service. His dam is Belle of Beachville 2nd, and sired by our late stock bull, College Duke, now owned by The William Weld Co., Ltd., bred by the Macdonald College, Quebec, out of imp. English stock with high milk records.

Also a big, high-class Hackney mare, 3-year-old, and a good Simplex separator 700 lbs. capacity. Brevement in the family the cause of selling, and everything will be sold without reserve.

Terms: 6 months' credit on approved notes, or 6% per annum off for cash. For further particulars write:

**Walter Pullen, Prop., R.R. No. 1, Beachville, Ont.**  
Welby Almas, Auctioneer, Brantford, Ont.



## Elm Park Aberdeen-Angus and Clydes

We have for sale a few two-year-old heifers by imported bulls and out of imp. cows bred to good bulls. We also have four good Clydesdale fillies, 2 two-year-olds and 2 yearlings. Also 2 stallion foals. Five of them out of Lord Charming mares by King Seal, imp. Address: JAMES BOWMAN, Elm Park, Guelph.

## CANADA'S CHAMPION HEREFORDS

When selecting a herd header or foundation stock, come to the fountain head; for years my herd have proved their title as the champion herd of Canada. I have always both sexes for sale.

L. O. CLIFFORD,

OSHAWA, ONT.

## "THE AULD HERD"

We have a select lot of females of all ages, and of the best Scotch families for sale. Also a March bull calf, red, little white, an Orange Blossom by Broadhooks Ringleader.

**A. F. & G. AULD, Eden Mills, P.O. Guelph or Rockwood Stations**

**100 SHORTHORNS IN OUR HERD 100**  
Our 1913 crop of 22 bulls are all sold, we have 20 extra bull calves coming on for the fall trade. For Sale—25 heifers and young cows; those old enough are bred to Right Sort (imp.), or Raphael (imp.), both prize winners at Toronto last fall.

**MITCHELL BROS. Farm ¼ mile from Burlington Junction. BURLINGTON, ONT.**

## Maple Grange Shorthorns

Pure Scotch and Scotch topped. Breeding unsurpassed. A nice selection in young bulls, and a limited number of thick, mossy heifers.

**R. J. DOYLE, Owen Sound, Ont.**

**Willow Bank Stock Farm Shorthorns and Leicester Sheep.** Herd established 1855; flock 1848. The imported Cruickshank Butterfly Roan Chief = 60865 = heads the herd. Young stock of both sexes to offer. Also an extra good lot of Leicester sheep of either sex; some from imp sires and dams. **James Douglas, Caledonia, Ontario**

## SHORTHORN BULLS FOR SALE

8 head from 10 to 18 months, bred from cows which are from imported dams and sired by choicely bred bulls, prices are not high as I need the space for stabling cattle.

Shropshire and Cotswold ewes bred to imported rams.

**BLAIRGOWRIE FARM JOHN MILLER, Jr., ASHBURN, ONT.**

**SHORTHORNS** Our present offering consists of Nonpareil Lord = 87184 = Dam Imp. Dalmeny Nonpareil 6th. 7 young bulls from 6 to 12 months old. 15 cows and heifers of choicest quality and breeding. **A. J. HOWDEN & CO., COLUMBUS, ONTARIO** Long-distance phone.

**SHORTHORNS AND CLYDESDALES**  
5 Bulls of serviceable age, choice quality, some of them herd headers, sired by His Grace (imp.) = 69740 = and a number of cows and heifers. One stallion rising 3-year-old. A big good quality herd also four choice fillies, all from imported stock.

**A. B. & T. W. DOUGLAS :: L. D. Phone :: STRATHROY, ONT.**

**Springhurst Shorthorns** Four of the first-prize Shorthorns at the 1912 Guelph Show, including the champion and grand-champion fat heifer, were all sired by bulls of my breeding. I have now for sale ten young herd headers of this champion-producing quality. **HARRY SMITH, HAY P.O., ONT.** Long-distance Telephone. Exeter Station.