

**1595 AND UPWARD**

**AMERICAN SEPARATOR**

THIS OFFER IS NO CATCH. It is a solid proposition to send, on trial, fully guaranteed, a new, well made, easy running separator for \$15.95. Skims hot or cold milk; making heavy or light cream. Designed especially for small dairies, hotels and private families. Different from this picture, which illustrates our large capacity machines. The bowl is a sanitary marvel, easily cleaned. Shipments made promptly from WINNIPEG, MAN., TORONTO, ONT., and ST. JOHN, N. B. Whether your dairy is large or small, write us and obtain our handsome free catalog. Address: AMERICAN SEPARATOR CO. Box 1200, BAINBRIDGE, N.Y.



**Calves Without Milk**

**BLATCHFORD'S CALF MEAL**

The Complete Milk Substitute

The result of over 100 years' experience with calf-feeding. The only Calf Meal made in an exclusive Calf Meal factory. As rich as new milk at less than half the cost. Makes rapid growth. Stops scouring. Three calves can be raised on it at the cost of one. Get Bulletin, "How to Raise Calves Cheaply and Successfully Without Milk," by sending a post card to STEELE BRIGGS SEED COMPANY, Toronto, Ont.



**DON JERSEY HERD**

Offers young bulls and heifers for sale; heifers bred to Eminent Royal Fern. D. DUNCAN, DON, ONTARIO. Phone L.-D. Agincourt. Duncan Stn., C. N. R.

**For Sale**—Jersey cows and heifers and bulls for exportation. All pedigree and head-book stock. For further particulars apply to A. T. SPRINGATE, Breeder and Exporter, Gervy, Jersey, Europe.

**HERD BULL** for sale. Count of Lakeview (9076); calved March 28, 1910. Bred by Lakeview Stock Farm, Bronte, Ont. A splendid stock-getter. Over 80 per cent of his get are females. Must sell him as I have a number of heifers from him of breeding age. He is quiet and sure. Also two young bulls now ready for service, bred by Count of Lakeview whose dams are grand-daughters of Johanna Rhue 4th Lad. Straight and nicely marked. Will sell a few cows due to freshen this month. Bell Phone, Fenwick Stn. G. V. ROBBINS, RIVER BEND, ONT.

**Lawthorne Glen Holstein Herd**

Offers young bulls ready for service, one from Calamity Houwtje, winner of 1st prize in cow class at Guelph, 1912; also a half-brother to Pontiac Jessie, sweepstakes heifer under 36 months; also a few females. Prices reasonable.

Write for particulars, or come and make your choice. MARTIN McDOWELL, Bestwood Sta., G. T. R., Oxford Centre, Ont.

**PURE-BRED REGISTERED Holstein Cattle**

The most profitable dairy breed, greatest in size, milk, butter-fat and in vitality. Send for FREE illustrated descriptive booklets. HOLSTEIN-FRIESIAN ASSOCIATION, P. L. Houghton, Sec., Box 127, Battleboro, Vt.

**The Maples HOLSTEIN Herd**

Headed by Prince Aggie Mechthilde. For sale at present: Choice bull calves, from Record of Merit dams with records up to 20 lbs. butter in 7 days; All sired by our own herd bull. Prices reasonable.

**WALBURN RIVERS, FOLDENS, ONT.**

**Holstein-Heifer** Calves from heavy-milking, high-testing registered dams, sired by the great bull, Cornellus De Kol. Price, \$12 each.

**GLENORO STOCK FARM, Rodney, Ontario**

**Glenwood Stock Farm 5 BULL CALVES** fit for service, out of big milking strains, at low figure for quick sale. THOS. B. CARLAW & SON, WARKWORTH, ONT. Campbellford Sta.

**Questions and Answers.**  
Miscellaneous.

**Draining 25 Acres**

My farm consists of twenty-five acres. I send a diagram of the way I think of tiling. Will you tell me if I am right or not? Is a six-inch tile large enough for the main, and how far apart should I put the branches?

G. L. C.

Ans.—Not knowing the fall in each drain, and exactly how much land dumps its surface water on this twenty-five acres, it is rather difficult to state whether or not the plan is the best possible. However, under ordinary circumstances, three-inch tile should be large enough for all laterals, and your method of alternating their connection with the main drain is good, also the position in which they are placed. It would not likely be necessary to run a six-inch tile throughout the full length of the main. A four-inch should be large enough for the beginning, increasing to a five-inch, and a six-inch towards the outlet of the main. If the land is heavy, laterals should be placed about four rods apart. If loamy, drains often give good satisfaction eighty feet, or sometimes one hundred feet, apart.

**Ewes Lose Lambs.**

Could you give me any information as to why a ewe should have one live lamb and one dead one? My ewes are in good condition. I am feeding corn fodder and oats, and what lambs are alive are strong and vigorous, and the ewes have plenty of milk.

R. N.

Ans.—It quite frequently happens that a ewe will carry two lambs the full gestation period, and one will be dead at parturition, and the other alive. It very often happens, under such circumstances, that the living lamb is rather weak. These conditions cannot always be accounted for. Were you on hand when the lambs came? Sometimes a lamb is yeanned, and is unable to break the foetal membranes, and so smothered. But where one of the lambs is dead, and has been dead for some time, it might be result of injury, or due to some unfavorable condition of feed, or of the system of the ewe. Over-fat ewes, which have had little exercise, sometimes produce these conditions, as also do ewes which are improperly nourished. One fetus is stronger than the other and survives. Feed the ewes some clover hay, a few roots, and some bran with the oats, after the lambs come, and give pregnant ewes plenty of exercise. Clover hay or good, bright, pea-straw, should always form a part of the ration.

**House Ventilation.**

As I am intending to build a new house this season, I would like you to give me a system of ventilation which would not be too expensive, yet modern and hygienic. This will be rendered necessary, as we intend to install a hot-water system for heating. I have one in my mind, which I will outline as briefly to you as possible, and see if it meets in any way what a hygienic system calls for. I intend to have my chimney built from the ground up through the center of the house, and the house is planned so that most of the rooms are around the chimney, and in building the chimney, in addition to the two flues for smoke, I would put common, four-inch smoke-tile glaze near top, and then finish with glazed tile, and through the rooms which this chimney passes through I would put check-dampers, same as in a stovepipe, both at or near the floor, also one near the ceiling, the one at the bottom of the partition taking the foul air off the floor in the winter, and the one at the ceiling would take off hot air in the summer. They could be closed or opened at any time, as condition of atmosphere might demand. As far as I have gone, I have only planned to take out hot or foul air from the house, and made no provision for incoming fresh air, which I will leave for you to answer.

C. E. H.

Ans.—With these outlet openings leading to a flue constructed for the express purpose, they would work all right, but such openings should never be placed in a smoke-flue. Windows opening top and bottom would likely answer for inlets.



**Pride and Paint**

YOU never saw a down-at-the-heels farmer, or his wife, busy with a paint brush. It takes pride in your possessions to make you care what they look like. But it takes a knowledge of values to lead you—even with all the pride you may have—to the sure selection of the right paint.

*Lowe Brothers*  
LIQUID PAINTS

are right in every way. We've been making them for 50 years. We've kept every good old-fashioned quality and added every new thing that modern paint science has proved valuable.

There's H. S. Liquid Paint for the House, Farm Service Paint for the Barn, Waggon Paint for all the Implements, Carriage Gloss to make the old buggy look good enough for Sunday or Tom's best girl; H. S. Porch Floor Paint that will wear like corduroy—and Vernicol with which the Missus can make all the furniture and floors shine like a bride's home.

Any or all of them at the best dealer in your town—write for these Valuable Books, free. Attractive Homes—and Guide to Farm Paint.

**Lowe Brothers Limited 263 Sorauren Ave., Toronto**  
Dayton New York Boston Chicago Kansas City

**BRAMPTON JERSEYS**

Several imported cows and bulls for sale. Canada's Greatest Jersey Herd.

B. H. Bull & Son, Brampton, Ont.

**Holstein-Friesians** Special offering: Bulls from 1 to 15 months old. The growthy kind that will give good service. One from a son of Evergreen March, and all from Record of Merit dams. Write for particulars. G. W. CLEMONS, St. George, Ont. Bell telephone.

**Evergreen Stock Farm** 4 bulls, 12 mos. old, from officially backed ancestors, running from 18 1/2 lbs. at 3 yrs. to 22 1-3 lbs. as matured cows, and on sire's side from 24 6-10 to 29 lbs. of butter in 7 days. Write, 'phone, or come to F. E. Pettit, Burgessville, Ont.

**SERVICE BULLS AND BULL CALVES FROM A. R. O. DAMS.** Sons of Johanna Concordia Champion, No. 60575, one of the richest bred and best individual bulls of the breed. His granddams, Colantha 4th's Johanna 35.22 lbs. butter in 7 days; fat 4.32 per cent., and Johanna Colantha 2nd 32.90 lbs. butter in 7 days; fat 5.02 per cent. Average butter in 7 days 30.06 lbs.; average fat 4.67 per cent. If you want to increase the butter-fat in your herd, let me sell you one of these bulls. I can spare a few good cows and heifers bred to the "Champion." Write me your wants and I will try and please you. MAPLE AVENUE STOCK FARM, L. E. CONNELL, Prop., FAYETTE, FULTON CO., OHIO, U.S.A.

**Summer Hill Holsteins**

Would you like your next bull to be from the same sire as the heifer that holds the world's record for yearly work, and the same sire as the Champion Cow of Canada in the seven day work, and the same sire as the Champion four-year-old of Canada in the thirty day work? We have bulls of this breeding to offer whose dams have records of over 27 lbs. We have also some extra choice heifers bred to our junior herd bull whose dam has a record of 24.60 lbs. butter in seven days and 111 lbs. milk a day. Yorkshires of all ages. D. C. FLATT & SON, R. R. No. 2, Hamilton, Ont.

**Woodbine Holsteins** Herd headed by King Segis Pontiac Lad, whose sire's dam is the champion cow of the world. Sire's sire is the only bull that has sired five three-year-olds. His two great grand sires are the only bulls in the world that have sired two 37-lb. cows. Bulls and bull calves for sale. A. KENNEDY, AYR, ONT.

**Evergreen Stock Farm High-class Registered Holsteins**

For sale: A few choice young bull calves and females, all ages; good enough for foundation stock. A. E. HULET, Norwich, Ontario.

**\$150.00** buys a 2-year-old HOLSTEIN heifer just freshened. Have also for sale some Yorkshire pigs just weaned. R. R. No. 1. A. WATSON & SONS, St. Thomas, Ont.

**HOME OF THE CHAMPIONS**

We now have a cow that has beat the 7-day record for Canada. The get of our stock bull, "Grace Fayne 2nd Sir Colantha", has won Grand Champion at the leading Fairs for the last two years; a few extra bull calves for sale also heifer and young cows in calf. G. T. R. station on farm. M. L. HALEY and M. H. HALEY, Springford, Ontario Oxford Co. on G. T. R.