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Upward  
ON TRIAL

**AMERICAN CREAM SEPARATOR**

A SOLID PROPOSITION, to send fully guaranteed, a new, well made, easy running, perfect skimming separator for \$15.95. Skims warm or cold milk; making heavy or light cream.

**ABSOLUTELY ON APPROVAL**

The bowl is a sanitary marvel, easily cleaned. Different from this picture, which illustrates our large capacity machines. Shipments made promptly from WINNIPEG, MAN., TORONTO, ONT., and ST. JOHN, N. B. Whether your dairy is large or small, write for our handsome free catalog. Address: **AMERICAN SEPARATOR CO.** BOX 3200 Bainbridge, N. Y.



**Bog Spavin**

Cure the lameness and remove the bunch without scarring the horse—have the part looking just as it did before the blemish came.

**FLEMING'S SPAVIN CURE (Liquid)** is a special remedy for soft and semi-solid blemish—Bog Spavin, Thoroupin, Splint, Curb, Capped Hock, etc. It is neither a liniment nor a simple blister, but a remedy unlike any other—doesn't irritate and can't be imitated. Easy to use, only a little required, and your money back if it ever fails.

**Fleming's Vest-Pocket Veterinary Adviser** describes and illustrates all kinds of blemishes, and gives you the information you ought to have before ordering or buying any kind of a remedy. Mailed free if you write.

**FLEMING BROS., Chemists**  
75 Church Street, - Toronto, Ont.

## Lakeside Ayrshires

The herd is headed by the well-known Auchinbrain Seafoam (Imp.)—35755. A few young bulls for sale from Record of Performance Dams, imported and home-bred.

Geo. H. Montgomery, Proprietor  
Dominion Express Building, Montreal.  
D. McArthur, Manager, Phillipsburg, Que.

## Alancroft Dairy & Stock Farm

BEACONSFIELD, P. Q., CANADA  
A FEW  
Pure-bred Ayrshires and  
Pure-bred French-Canadian  
Bulls for Sale.

Correspondence or visit solicited.  
E. A. SHANAHAN, Secretary,  
Marchant Bank Building, Montreal Canada

## High-Class Ayrshires

If you are wanting a richly-bred young bull out of a 50-lb.-a-day and over cow, imported or Canadian-bred dam or sire, write me. Females all ages. Prices are easy.  
**D. A. MACFARLANE, KESLO, QUEBEC**

## City View Ayrshires—Present offering:

Two young bulls fit for service. One yearling heifer and three 3-year-olds finishing their two-year-old test.

**James Beag & Son, R. R. No. 1, St. Thomas**

**Ayrshires and Yorkshires**—Bulls of different ages; Females all ages. A fine bunch of heifers from 6 months to 2 years. Yorkshires from 3 to 8 months old. Quality good. Prices moderate.  
**Alex Hume & Co., Campbellford, R. 3.**

## TILLSONBURG SALE OF HOLSTEINS.

The fourth annual sale of the Southern Ontario Consignment Sale Company that will be held at Tillsonburg, Ont., February 9th, 1915, promises to be one of the events of the season. Their last sale was one of the best ever held in Ontario when the quality of the offering and the management of the sale are considered. This year it will be bigger and better than ever. The offering this year will be of the same high character as last year, and this, along with the liberal treatment and assistance given buyers, both before and after the sale, will be sure to meet with the approval of the buying public. Remember the cattle will be sold in a comfortable building, where seats will be provided for seven or eight hundred people, and everything will be done that the Sale Company can do to make visitors comfortable. The Tillsonburg Sale Company have a reputation to maintain, and they are determined to do so at all cost. Plan to attend the old reliable, and come a few days before the sale if you can and inspect the offering. Remember, everything must be as represented when sold or no sale. All sold subject to tuberculin test. Write today for a catalogue to R. J. Kelly, Colborne, Ont.

## Questions and Answers.

Miscellaneous.

### Absence of Supports in Loft.

I intend to build a pig pen next summer. Would you kindly give me a plan of roof if you have one. I intend to build it 24 feet wide, with cement wall 8 or 9 feet high, with loft for storing light implements, lumber, etc. I would prefer a hip roof that is self-supporting, or without supports in center, as they are in the way. Please give length of rafter. I intend using a galvanized-iron roof. I have drawn a plan of roof I would like, but I do not know whether it is self-supporting or not. W. E.

Ans.—By referring to page 1421 of our August 6th issue, 1914, two illustrations may be seen of our plank-frame barn at Weldwood. The end view shows quite distinctly the loft without any center supports, and the rafters are placed in such a way that very little room is taken up in the loft itself for these supports. This is a plank-frame barn, but a small building such as a pig pen could be built much more easily on the same principle. The braces would not have to be as long, and the structure would be quite firm. These illustrations answer the query much better than we could do in print.

### Hay in Mow—Measuring for Turnips.

1. How much hay would there be in a mow 24 feet in length, 13 in width, and 10 in depth or height? The hay was put in with a pitchfork from off the granary.

2. How many bushels of turnips would there be in a pile 19 feet long, 12 feet wide, and 5 feet 4 inches deep? W. S.

Ans.—1. One cubic foot of hay will weigh between seven and nine pounds. Assuming that this hay was properly cured in the early stages, it would be safe to estimate it at 8 pounds per cubic foot. In the mow 24 x 13 x 10 feet, there would be 3,120 cubic feet, giving 24,960 pounds, or 12 2/5 tons of hay. This is the most reliable way of figuring hay in the mow. Of course, there might be a slight difference when it is put on the scales owing to the variations in the quality of hay.

2. With ordinary-sized turnips this bin would contain approximately 900 bushels. If they were extraordinarily large, the quantity would be reduced to a certain extent as turnips should be sold by weight rather than by measure.

### Lice on Swine—Unthrifty Pig.

1. Our pigs are troubled with lice. Could you suggest a remedy suitable for application during cold weather?

2. One pig, in an otherwise thrifty litter, now three months old, has ceased to grow and is losing flesh. Have carefully examined, but can observe nothing. What would you suggest? R. C. T.

Ans.—1. Dip materials are sometimes sprayed onto swine in cold weather. Zenoleum is quite effective. Kerosene oil is sometimes used, but care must be practiced, for it is liable to blister a thin-skinned or thick-haired hogs. A slight quantity on a rag carefully rubbed on the pigs will destroy many of the lice. One practice that is quite easily worked out is to have a post in the pen and wrap it with old rags or sacks. This could be saturated with crude oil, and the swine in scratching themselves against it, will rub oil on to the parts that are troubled by the vermin.

2. It would be hard to say what the trouble with this unthrifty pig really is, but worms and lice contribute very heavily towards unthriftiness. If you suspect worms, procure some finely-ground iron sulphate at the druggist's and mix this at the rate of one dram for each 100 pounds of hog, in the slop in the morning. Dissolve the iron sulphate in warm water before mixing in order to get as perfect a mixture as possible. The slop containing the iron sulphate should be given to the pigs on as nearly empty stomachs as possible, when they are very hungry. Keep before the pigs at all times a mixture of charcoal, wood ashes, lime, salt, and iron sulphate. The pigs eat of this what they wish, and in so doing prevent worm infestations. Perhaps if this unthrifty one were purged and then fed liberally with milk and middlings he might regain his normal condition again and ward off further troubles.

## IMPORTANT AUCTION SALE

OF 43 HEAD OF

## Pure-bred Holsteins

At Rivermead Farm, UNIONVILLE, ONT., on

**Friday, February 5th, 1915**

Sale commences at 11 o'clock

Thirty-eight cows and heifers and five young bulls. Several cows due to calf within the next 30 days. A number just bred, their last calves to be sold at the sale. Several heifers one year old, bred to a son of a 29-lb. cow, and son of King of the Pontiacs. All to be sold without reserve.

The farm is four minutes' walk from the station, Unionville, Midland Division, G.T.R., 20 miles north of Toronto, Ont.

Terms cash, or six months' with interest, 6 per cent. on approved notes. Catalogue on application.

Auctioneers } B. V. KELLEY, Syracuse, N. Y.  
J. H. PRENTICE, Toronto, Ont.

**W. F. ELLIOT, Unionville, Ontario**

## Norfolk Holstein Breeders' Annual Club Sale

SIMCOE, THURSDAY, FEBRUARY 11, 1915

On the morning of the sale all cattle will be inspected by an impartial inspector, to assure prospective purchasers that every animal offered is sound and right. No three-teaters nor shy breeders may be listed by consignors. All cattle not tested for tuberculosis previous to day of sale by a competent vet. must be sold subject to tuberculin test. Now is the time to part with a few grades, and lay a foundation in pure-bred Holsteins.

**W. H. CHERRY, J. ALEX. WALLACE,**  
Advertising Manager, Secretary-Treasurer,  
HAGERSVILLE, ONT. SIMCOE, ONT.

## Riverside Holsteins

Herd headed by KING JOHANNA PONTIAC KORNDYKE, a grandson of PONTIAC KORNDYKE, and a brother of PONTIAC LADY KORNDYKE, 38.02 lbs. butter in 7 days, 156.92 lbs. in 30 days—World's records when made **J. W. Richardson, R. R. No. 2, Caledonia, Ontario**

## LAKEVIEW HOLSTEINS

Senior herd bull—Count Hengerveld Fayne De Kol, a son of Pietertje Hengerveld's Count De Kol and Grace Fayne 2nd. Junior Herd bull—Dutchland Colantha Sir Mona, a son of Colantha Johanna Lad and Mona Pauline De Kol. Third bull—King Canary Segis whose sire is son of King Segis Pontiac, and whose dam is 27-lb., three-year-old daughter of a 30-lb. cow. Write for further information to—

**MANAGER LAKEVIEW FARM - BRONTE, ONTARIO**

## SUMMER HILL FARM

## Holstein Cattle and Yorkshire Hogs

We offer for sale a dozen bulls, some ready for service, from high official record dams. If you are wanting a bull, better write us and let us tell you how good they are. Can also spare a few good heifers. Yorkshires hogs all ages.

**D. C. FLATT & SON**

HAMILTON - Phone 7165 - R. R. No. 2 - ONTARIO

## Holstein Cattle (Prince Hengerveld of the Pontiacs, herd sire.)

Stock for sale. Large herd to select from  
**Hamilton Farms, St. Catharines, Ontario**

**Cloverlea Dairy Farms** Herd headed by Pontiac Norine Korndyke, a splendid large perfect individual. Bull calves for sale, 1 born Nov. 6, 1914, a large straight calf and out of one of our best bred heifers, will be sold reasonable if taken soon.  
**GRIESBACH BROS., - - - Phone - - - Collingwood, Ont.**

## VILLA VIEW AND FAIRMONT HOLSTEINS

(The Home of King Segis Alcartra Calamity)  
For Sale—Ten bull calves nine months old, one ready for service; all nicely marked and well grown, from record of merit dams with records up to 22.11. Prices from \$50 to \$100.  
**Arbogast Bros., Sebringville, Ont. P. S. Arbogast, Mitchell, R.R. No. 2.**

## Holsteins and Percherons at Beaver Creek Stock Farm

In Holsteins—Present offering: 8 or 10 fresh cows, also 4 yearling heifers. In Percherons—2 Stallions rising three years and 3 years respectively, also one yearling filly. Will sell the holsteins at prices that will be attractive. The two stallions may be exchanged for one and a cash difference.  
**Albert Mittlefehldt, Smithfield Station, T.H. & B.R.R. Wellandport, Ontario**

**Ourvilla Holstein Herd**—The first herd in Canada to develop a 31 lb. cow. The only herd in Canada to develop 27 two-year-olds averaging 16.20 lbs. of butter in 7 days. We have also developed 7 three-year-olds averaging 23.23 lbs. in 7 days. If you want a bull backed by Ourvilla reputation and records, sired by a 31.75 lb. bull, write us.  
**LAIDLAW BROS., - - - AYLMEY, ONTARIO**

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