

WINDSOR

Windsor Dairy
Salt dissolves
evenly and gives
a delicious flavor
to the butter.

DAIRY

Practically
every big prize
was won by
Butter made
with Windsor
Table Salt. 119

SALT

15⁹⁵ AND UP- WARD 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. Elements made promptly from WINNIPEG, MAN., and 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 1299, BAINBRIDGE, N.Y.



MOLASSES FEEDS For Dairy Stock and Horses

Write for FREE samples to
CHISHOLM MILLING COMPANY
TORONTO

Royalton Stock Farm Holsteins
Herd headed by Royalton Korndyke Major, (Imp.), whose dam gave 111.1 lbs milk in one day, 3 months after freshening. We are offering a few young cows (2 years and up) bred to the above bull and due to freshen from now on. One young bull calf 5 months old from above bull. Also four young bulls fit for service, sired by Sir Abbecker Bull De Kol (my former herd bull) and from R. O. P. Cows. E. C. GILBERT, R. R. No. 7 St. Thomas, Ontario

The Maples Holstein Herd
Headed by Prince Aaggie Mechthilde. Present offering: Bull calves and bulls fit for service, from Record of Merit dams, with records up to 20 lbs. butter in 7 days. Prices reasonable.
WALBURN RIVERS
R. R. No. 5 Ingersoll, Ont.

HOLSTEIN-FRIESIAN ASSOCIATION OF CANADA
Applications for registry, transfer and membership, as well as requests for blank forms and all information regarding the farmer's most profitable cow should be sent to the secretary of the Association.
W. A. CLEMONS, St. George, Ont.

HOLSTEINS & YORKSHIRES
Minster Farm offers Bull fit for service from a sister of a 1-year-old Heifer with R.O.P. record of 14,753-lbs and 540-lbs. butter, and Lakeview Burke Payne whose dam and sire's dam average 23.14-lbs. of butter 7 days. For extended pedigree write: Richard Honey & Sons, Brickley, Ont.

Questions and Answers.

Miscellaneous.

Cement Tank.

We have constructed at our cheese factory a tank to receive and hold rain water for our steam boiler. This tank is ten feet square and ten feet deep, with walls ten inches thick. It is made of concrete, composed of one part cement to three parts of coarse, sharp sand, and not reinforced. Is all underground except two feet.

1. Is it best to leave it full of water for winter, or partly full, and covered over to keep out frost?

2. Would it be better and safer to leave it empty?

3. In case it was left empty, would there be danger of frost from outside forcing the wall in and breaking it?

P. E. I. W. S.

Ans.—1, 2 and 3. It is probable that no damage would result if the tank were left full of water, but to be safe you might leave it about half-full and covered over, or it might be left empty. Ten-inch cement walls should stand all right if the tank were empty. Anyway the frost would not likely go down more than three feet into the ground, which would only be one-half the depth of the tank.

Balance Wheel.

Have a six-horse power gasoline engine running a 28-inch wood-saw. Engine has 16-in. pulley running 350 revolutions per minute. The saw has a 6-in. pulley. What would be the proper weight of balance wheel to give the best satisfaction, or does it make any difference?

J. C. B.

Ans.—Your query is ambiguous. It doesn't state whether the balance wheel referred to is the balance wheel of the engine or one to be placed on the shaft. It seems the more reasonable to assume that it is the engine balance wheel you refer to, and, consequently, the answer will be based on that assumption. Moreover, it is necessary to know the bore and stroke of the engine to calculate the size of the balance wheel. You did not give these, but with a speed of 350 revolutions per minute, I judge it would require about 6½-inch bore x 7½-inch stroke. The weight of the balance wheel varies with its diameter. The largest wheel it would be safe to use on an engine with that speed would be 4 feet 6 inches. As balance wheels are usually made somewhat less than the limit, let us deal with a diameter of 4 feet. With this diameter, the rim of the balance wheel should weigh 162 lbs., or if two wheels are used, the rim of each should weigh 81 lbs. To this would have to be added the weight of the spokes and hubs, which would probably bring each wheel up to in the neighborhood of 125 lbs., or a single wheel up to 250 lbs.

If the wheel is 3 feet in diameter, the two rims together should weigh 288 lbs., or 144 lbs. apiece. The hubs and spokes would probably bring each wheel up to a weight of from 190 to 200 lbs. If the wheel is 2 feet in diameter, then the weight of the rim should be 648 lbs., or if two wheels are used, each rim should be 324. To this would again have to be added the weight of the hubs and spokes.

The medium wheel, of course, would be the one to use. The one 4 feet in diameter would be too flimsy, and the one 2 feet in diameter would require other parts of the machinery to be made heavy to carry such a big load.

W. H. D.

Among clerical anecdotes is that of the vicar and curate who had quarreled, and the curate was requested to find some other congregation to minister to. He, therefore, preached his farewell sermon, and the parishioners came in crowds to hear him. "My text," he said, "is taken from the moving story of Abraham. 'Tarry ye here with the ass while I . . . go yonder!'"

She—"Sometimes you appear really manly, and sometimes you are effeminate."

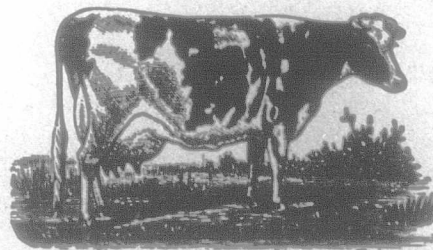
He—"I suppose it is hereditary. Half of my ancestors were men, and the other half women!"

Big Dispersion Sale of 90 Holsteins 90

An event, in which the choicest lot of Holstein Cattle ever sold by Auction in Canada, will be held in the covered rink in the City of Woodstock, Ontario, on

Wednesday, December 17th, 1913,

when a total dispersion of the big high-record herds of Mr. Elias Ruby and Messrs. Jacob Leuzler & C. Ballert will be sold to the highest bidder. 90 head; 78 females, 12 bulls.



Practically all the females in milk are in the R. O. M. and R. O. P. many of them in both records.

R. O. M. four-year-olds and upwards, from 21¼ to 27¼ lbs. Three-year-olds 16.41 lbs. Two-year-olds 15¼ lbs. R. O. P. up to 807 lbs. butter in the year.

Much of the richest producing blood of the breed is represented in the herd, many are high-class show animals, many of the young things are the get of King Lyons Hengerveld, one of the richest bred bulls alive, those not bred to will be bred to, King Lyons Colantha, whose 7 nearest dams have records averaging 28¾ lbs., these are the kind of Cattle we are going to sell.

Terms: Cash or 5 months with 7%.

For Catalogue, Write

JACOB LEUZLER, R. R. No. 1 BRIGHT
Sales Manager

E. M. Hastings, Laconia, N. Y., Col. B. V. Kelley, Syracuse, N. Y., and Col. R. E. Hagar, Algonquin, Ill.
Auctioneers

Sale at 10 a.m.

Ship your LIVE STOCK to the old firm of
DUNNING & STEVENS, Inc.
Commission Merchants EAST BUFFALO, N. Y.
Room 1, Live Stock Exchange Building
Established 1876
Paid-in Capital, \$100,000
Write for market paper or pass books

FAIRVIEW FARMS HERD

Offers For Sale

A son of PONTIAC KORNDYKE, out of a cow with a record of over 31 pounds in 7 days. Calf is nearly ready for service. Have only a few sons of this great sire left, and remember these are the last. LOOK UP THE RECORD OF SONS OF PONTIAC KORNDYKE, AND SEE WHAT THEY ARE PRODUCING.

E. H. DOLLAR :: :: HEUVELTON, NEW YORK

LAKEVIEW HOLSTEINS

Herd headed by Count Hengerveld Payne De Kol, by Fictartie Hengerveld's Count De Kol out of Grace Payne 2nd. He has 12 daughters already in the Record of Merit and many more to follow. Junior sire—Dutchland Colantha Sr. Moss, by Colantha Johnson. Last out of Moss Pauline de Kol (27.18 butter) the dam of one daughter over 30-lbs. and one over 27-lbs; also the dam of the World's champion junior three-year-old for milk production. A few bull calves for sale. E. F. OSLEK, Bronte, Ont.

HOLSTEIN CATTLE

The Buyer's Opportunity

We have more Cattle than we can stable. Some of the finest young bulls and heifers we ever offered; their breeding and quality is the very choicest, they will be sold worth the money. Don't wait to write, but come and see them.

D. C. FLATT & SON, R.R. No. 2, Hamilton, Ont. Long Distance Phone 2471

Evergreen Stock Farm High Class Registered Holsteins

Winners of 80% all first prize at the Canadian National Exhibition 1913. For Sale—a few choice females all ages and are booking orders for what bull calves will be dropped during Nov. and Dec. I will also buy on commission anything in pure-bred or grade Holsteins, singly or car lots. Bell 'phone A. E. HULET, NORWICH, ONT. R. R. 2

STOCKWOOD AYRSHIRES

Stock of all ages for sale, one 12 months old bull (Imp.) in dam will make a winner for some one; also bull calves from a week to two months old all from show cows and sired by White Hill King of Hearts, a son of the great bull Emy Mee, and a half-brother of Brae Rising Star highest priced bull in Scotland prices and terms easy. D. M. WATT, ST. LOUIS STA., QUEBEC.

GLENHURST AYRSHIRES ESTABLISHED OVER 50 YEARS
AGO, and ever since kept up to a high standard. We can supply females of all ages and young bulls, the result of a lifetime's intelligent breeding; 45 head to select from. Let me know your wants.
JAMES BENNING, WILLIAMSTOWN P. O. Summerstown Sta., Glengarry

When Writing Please Mention Advocate