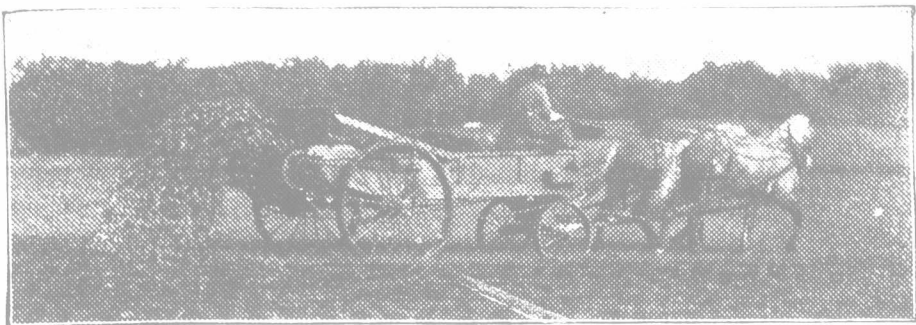




I H C Spreaders Are Equally Good All Over



I H C Service Bureau

The Bureau is a center where the best ways of doing things on the farm, and data relating to its development, are collected and distributed free to every one interested in agriculture. Every available source of information will be used in answering questions on all farm subjects. If the questions are sent to the I H C Service Bureau, they will receive prompt attention.

A MANURE SPREADER is like a chain—as strong as its weakest part. Don't let one or two "exclusive features" influence you—don't be influenced by frills or fancies. Be sure that the spreader you buy is substantially built all over—without a weakness anywhere.

If you want to be sure of such a spreader—see that the I H C trade-mark is on the one you buy; then you will know that the material, the principle, and the construction are right. This trade-mark is backed by a company that can not afford to risk its reputation by offering inferior or inefficient machines.

I H C manure spreaders are of proved value—proved money-makers. Thousands of users testify to I H C superiority. Investigation brings to light the noticeable absence of troublesome gear wheels, the few levers, the perfect working apron, the wide range of feed, the light draft and the other advantages which have made I H C spreaders the choice of all who investigate thoroughly.

You will also note that there is an I H C spreader of a style and size to meet your particular requirements. Corn King spreaders are of the return apron type. Cloverleaf spreaders have endless apron. Each style is made in sizes from 30 to 70 bushels capacity. Lime hoods for spreading lime, etc.—and drilling attachments for distributing manure in rows, are furnished on special order.

Let the I H C local dealer tell you all about I H C spreaders. Let him tell you why it is best for you to invest in an I H C for greatest returns. Get catalogues from him, or, write nearest branch house.

CANADIAN BRANCHES—International Harvester Company of America at Brandon, Calgary, Edmonton, Hamilton, London, Montreal, Ottawa, Regina, Saskatoon, St. John, Winnipeg, Yorkton.

INTERNATIONAL HARVESTER COMPANY OF AMERICA
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Farmers and Cattlemen, Read This!

When you cannot sell your export cattle at satisfactory prices at home, and wish to ship them to the Old Country markets, write or wire for steamer space, market and shipping information to Donald Munro, Live-stock Forwarding Agent and Commission Salesman, 43 St. Sacramento Street, Montreal.

Load your cattle carefully, and bill them to me. I provide the necessary feed, insurance, etc., pay freight and all other expenses from shipping point, and give liberal cash advances on all consignments. Cattle are loaded on steamer under my personal supervision, and placed in charge of capable attendants for the ocean voyage. I represent the most reliable salesmen at all the different British markets. BUSINESS ESTABLISHED 1890. REFERENCES: THE MOLSONS BANK, MONTREAL.



ORCHARD GROVE HEREFORDS

Young bulls and one- and two-year-old heifers, of showing quality and most fashionable breeding; thick-fleshed, smooth and even.

L. O. CLIFFORD, Oshawa, Ont.

Maple Hall Shorthorns

Are bred on most fashionable Scotch lines, and are of high-class individuality. For sale are 6 young bulls from 6 to 10 months of age. A low, thick, sappy lot. Also 10 yearlings and 10 two-year-old heifers. Show material in this lot. Telephone connection. DAVID BIRRELL & SON, GREENWOOD P. O., ONT., CLAREMONT STATION.



SALEM STOCK FARM

Elora, G. T. R. and C. P. R., 13 miles from Guelph.

Young bulls fit to head the best herds; are priced reasonably. Can suit you in SCOTCH SHORTHORNS of any age.

J. A. WATT, SALEM, ONT.

PLEASANT VALLEY SHORTHORNS

For Sale: 1 red, 1 roan, 2-year-old show bulls. Several good bull calves, also some yearling heifers. Some show propositions among them. If interested, write or call and see us before buying. GEO. AMOS & SONS, MOFFAT, ONTARIO.

Farm 11 miles east City of Guelph on C. P. R. 1/2-mile from farm.



Maple Leaf Shorthorns and Hampshire Hogs

Offering for sale Shorthorn bulls and heifers and young Hampshire pigs.

PORTER BROS., APPLEBY P.O., BURLINGTON STA. 'Phone.

SPRINGHURST SHORTHORNS

Excellent lot of Scotch-bred bulls fit for service (bred for beef and milk), also heifers, for sale.

H. SMITH, HAY P. O., ONT.

QUESTIONS AND ANSWERS. Miscellaneous.

WINNINGS AT CHICAGO.

I see by your paper some two weeks ago that Graham Bros., Claremont, won several prizes at Chicago Exhibition. Would like to know what horses were the winners, as I am somewhat interested to know if the Canadian colt, Mac Baron, two-year-old, won anything. J. R.

Ans.—No horse was shown under this name at the International this year in the two-year-old class.

FEEDING SHEEP.

1. How many oats will a Leicester lamb eat when eight months old?
2. How many oats will an aged ewe eat and not do her any harm?
3. How many times would you advise to feed oats in a day?
4. Which is the best for sheep, red clover or alfalfa?
5. How many turnips would you advise to feed to a sheep in a day?
6. Are carrots better for sheep than turnips?
7. Which is the better way to feed either, cut or whole?
8. Are cabbage good for sheep?
9. Will you give me the recipe of coconut balls?

H. Y.

- Ans.—1. Approximately, one pound per day.
2. Half a pound per day is a good ration for a breeding ewe; she might consume as high as one and a half pounds per day.
3. If you are feeding heavily twice a day is advisable.
4. Both are good; where they are in an equally well-preserved state, alfalfa is more valuable.
5. From two to four pounds.
6. No.
7. Sheep can do their own pulping if they are not old.
8. Splendid in the fall, but are somewhat difficult of storage.
9. Can any of our readers answer this question?

INQUIRY RE WHEY BUTTER.

1. What is the yield of fat per 1,000 lbs. of whey (ordinary condition)?
2. What should be the cost of separating per 1,000 lbs. whey, and is not this cost partly offset by the partial pasteurizing of the whey?

W. W. B.

Elgin Co., Ont.

Ans.—1. The average amount of fat in unpasteurized whey returned in patron's can from factories in Western Ontario for season of 1910, was .11 per cent, or 1.1 lbs. per 1,000 lbs. whey; accounted for by much of the fat rising to top of whey in tank, and whey drawn from beneath.

The average amount of fat returned where whey was properly pasteurized, was .2 per cent, or 2 lbs. per 1,000 lbs. of whey; accounted for by pasteurization preventing fat from rising to top of whey.

The yield of fat in whey direct from the cheese vats, averaged about .211 per cent., or 2.11 lbs. per 1,000 lbs. of whey, varied by the condition of the milk and method of manufacture.

2. The cost of elevating and separating whey is given in Dairyman's Association report, 1908, page 171, as 5.9 cents per ton, or 2.95 cents per 1,000 lbs. whey. Wood cost \$2.75 per cord, when soft-wood slack, used at \$1 per ton, cost 4 1/2 cents per ton of whey.

In the same report, page 165, is found "The cost of making one pound of whey butter is estimated at 7 cents, but there is no profit for the manufacturer at this price."

We do not see how the cost of separating is partly offset by the partial pasteurization of whey. Were the whey properly pasteurized before or after separating, there would be advantages by controlling excessive acid and from a bacteriological standpoint.

Recent experiments with whey direct from the cheese vat show a difference of from 25 per cent. to 33 per cent. in favor of unskimmed whey for feeding. Pasteurization from the feeding standpoint is advised to keep the fat evenly distributed in the whey and from becoming abnormally sour. There are other distinct advantages from a sanitary and bacteriological standpoint.

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are everything that plaster, wood and wall paper are not.

Metallic Ceilings are fire-proof, absolutely.

Metallic Ceilings don't crack or crumble—don't get damp or mouldy—don't need repairs.

Metallic Ceilings are far-and-away the most economical building material you can put in a house. You don't believe it? We can prove it. Write us for the facts.

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75 Church St., Toronto, Ontario



Willow Bank Stock Farm

SHORTHORNS AND LEICESTERS.

Herd established 1855; flock, 1848. The great Duthie-bred bull, Imp. Joy of Morning = 2270 =, and the Missie bull, Royal Star = 72502 =, heads my herd. Choice selections to offer at all times in both bulls and females.

JAMES DOUGLAS, CALEDONIA, ONTARIO.

10 Scotch Shorthorn Bulls 10

FROM 10 TO 14 MONTHS OLD

The Princess Royal, Secret, Bessie, Village Maid families are represented in lot. First-class herd headers and farmers' bulls for getting market-topping steers. Prices very reasonable.

JOHN MILLER, BROUGHAM, ONT.
Claremont Station, C. P. R., three miles.

SHORTHORN FEMALES

OF ALL AGES FOR SALE.

Prices to suit all kinds of customers. Have one red eleven-months-old bull left; a Clipper; price \$100.

J. T. GIBSON, DENFIELD, ONTARIO.

HIGH-CLASS SHORTHORNS

I have on hand young bulls and heifers of high-class show type, pure Scotch and Scotch-topped, sired by that sire of champions, Mildred's Royal. If you want a show bull or heifer, write me.

GEO. GIER, Grand Valley P.O. and station, also Waldemar station.

Shorthorns and Yorkshires—A choice lot of young bulls and heifers at reasonable prices, from such noted families as Miss Ramsden, Crimson Flower, Lady Sarah, Imp. Clementina, Jealousy and Mina. A fine litter of the Improved Yorkshires ready to wean, of prize-winning stock.

ISRAEL GROFF, Elmira, Ont.

SHORTHORNS AND LEICESTERS.—Present offering: Eight choicely bred one and two year old heifers, also bull calves. Choice shearing rams and ram and ewe lambs. Show material. Write: W. A. Douglas, Tuscarora, Ont. Caledonia Station.

Imp. Scotch Shorthorns.—When looking be sure to look me up. Young bulls fit for service, and females all ages; bred in the purple, and right good ones. A. C. PETTIT Freeman, Ont.

INVERNESS SHORTHORNS.

I can supply Shorthorns of all ages, with richest Scotch breeding and high-class individuality.

W. H. EASTERBROOK, Freeman, Ont.