

HAULING BIGGER LOADS

without extra spanning is easily accomplished when you use

MICA AXLE GREASE

"Use half as much as any other"

Axles are rough and porous, causing friction. The mica flakes fill the pores and the grease keeps them there. Mica Grease prevents locked wheels and hot boxes, gives sure relief for unnecessary strain on horses and harness.

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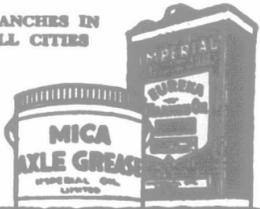
"Lengthens leather life"

replaces the natural oils that dry out of the leather and puts new life in old harness. It penetrates the leather leaving it soft and pliable, and overcomes the worst enemies of harness—water and dirt.

Sold in standard sized packages by live dealers everywhere.

IMPERIAL OIL LIMITED

BRANCHES IN ALL CITIES



Pratts
BABY CHICK BOOK
tells how to raise me and feed me three weeks for 1c. Write for it. It's FREE.
PRATT FOOD CO. OF CANADA, LIMITED.
68-J Claremont St. Toronto. P. 27

Lump Jaw
The only reliable treatment for Lump Jaw in Cattle.
Fleming's Lump Jaw Cure
Price \$2.50 a bottle. Sold under a positive guarantee since 1896. Your money back if it fails. Write for Fleming's Vest-Pocket Veterinary Advisor 96 pages and illustrated. It is Free.
Fleming's Chemical Horn Stop
A small quantity applied when calves are young will prevent growth of Horns. A 50c tube sent postpaid is enough for 25 calves.
FLEMING BROS. Chemists.
75 Church St., Toronto, Ont.

HOLSTEINS
1 bull 2 years old; 1 bull 18 mos. old, from a 23½ lb. 3-year-old dam. One bull 13 mos.; others younger.
R. M. Holtby, Port Perry, Ont.

Questions and Answers. Miscellaneous

Coal Ashes as a Fertilizer.

Are coal ashes of any value as fertilizer? W. W.

Ans.—About the only value coal ashes would have would be a loosening effect on heavy soil. As far as we are aware they contain no plant food.

Swollen Joint.

The hock joint of one of my cows is badly swollen, and is apparently quite sore, as the cow can scarcely stand on it. The swelling is quite hard. What treatment would you advise? G. T.

Ans.—Bathe with hot water and then apply a liniment made of 4 drams each of iodine and iodide of potassium and 4 ounces each of alcohol and glycerine. If the swelling is of long standing it may take considerable time and frequent applications of the liniment to remove it.

Diarrhoea.

We have a draft colt that has been troubled with diarrhoea. He seems to be worse when fed on dry feed in the winter. We feed good clean hay and a quart of oats three times a day. What is the cause and treatment? J. W.

Ans.—It is unusual for this trouble to occur when the animal is on dry feed. It more frequently arises from too much succulent feed, feed of poor quality or water of poor quality. In the early stages a laxative should be given, and then if the diarrhoea continues give 2 ounces of laudanum and 4 drams each of catechu and prepared chalk every four hours until the trouble ceases. Adding to the drinking water one-quarter of its bulk of lime water tends to relieve the trouble.

Lightning Rods.

I have been considering the matter of putting lightning rods on my farm buildings. I have been wondering why the question of lightning protection has not been more fully discussed in the public press, and also if it is a protection why the insurance companies do not recommend it. What is your opinion regarding the efficiency of lightning rods? J. T.

Ans.—Where the rodding is properly done there is ample proof that they are a protection to the buildings. It is comparatively recent that the subject of lightning rods has been given due consideration. There are cases where a rodded barn has been burned, but such are comparatively few. Lightning is attracted by metal and will usually strike the highest point. The rods do not ward off the lightning, but rather conduct the current of electricity to the ground. We have heard of insurance companies that have scarcely been called upon to pay for a loss where the buildings were rodded, and we understand that there are companies that give a better rate for a rodded building than for one which is unrodded. From information which has been gathered, it is but reasonable that they should, as it has been pretty well proven that a rodded barn is a much better risk than one without that protection. According to Bulletin No. 220 on "Lightning Rods", written by W. H. Day, B. A., Professor of Physics at the Ontario Agricultural College, copper rods are preferred, although aluminum may prove equally durable. The wire should be connected at the ground with perpetual moisture. This will be at least eight feet deep. On an oblong building there should be at least two ground connections; on an L or T shaped building at least three; and on a U-shaped building at least four. Ground rods should not be bunched, but should be distributed as well as possible. In order to get the rods down to the moisture a hole may be drilled and the cable shoved down. All the cables should be connected in on system, and no stubs or dead ends should be left ungrounded. The points may be 20 to 30 feet apart, and placed on the ridge not over five feet from the end, on or beside chimneys or cupolas, on dormers, and also on silos. On the ridge they should be 4 or 5 feet high, and 18 inches above the highest point when placed beside chimneys or similar prominences. The windmill should also be wired and grounded. If wire fences were grounded it would, in many cases, prevent live stock being killed. Undoubtedly lightning rods are a protection, and we would not care to run the risk of leaving our farm buildings unrodded.

York County Holsteins

At Auction

IN THEIR ANNUAL "QUALITY" SALE

AT RICHMOND HILL FAIR BUILDINGS

Wednesday, May 15th, 1918

SIXTY HEAD

Nearly all females fresh or due to freshen soon. A number of choice young heifers; a few bulls of excellent quality.

York County is well known as a Holstein centre. Our herd sires include a 33-lb. son of the great King Segis, a son, a full brother, and grandsons of the world's record cow, May Echo Sylvia and sons of King P.A. Canada.

York County has probably more thirty-pound cows than any other county in Canada, as well as several world's record cows.

We feel sure the satisfied buyers at previous sales and the determination of York County breeders to give satisfaction will, as before, insure the success of this sale.

SEND FOR CATALOGUE TO

R. W. E. BURNABY, JEFFERSON, ONTARIO

SALE COMMITTEE:

R. W. E. BURNABY, R. F. HICKS, W. F. ELLIOTT

Hospital for Insane, Hamilton

We offer bulls only for sale, but they are from some of the choicest cows to be seen in any herd, and bulls equal to the best.

—Apply to Superintendent

CHOICE BULLS READY FOR SERVICE

No. 1—By a son of MAY ECHO SYLVIA. His two nearest dams (both Canadian champions), average 35.62 lbs. butter in seven days. Price \$1,000.
No. 2—By a son of MAY ECHO SYLVIA. His two nearest dams (one a four-year-old), average 34.17 lbs. butter in seven days. Price \$600.
Some extra choice young bull calves from \$200 to \$1,000. We have sold 37 bulls this winter.

HIGHLAND LAKE FARMS

R. W. E. Burnaby, (Farm at Stop 55, Yonge Street Radial) Jefferson, Ont.

Manor Farm Holstein-Friesians

If it's a herd sire you want, write me. I have sons of both my senior and junior sires: King Segis Pontiac Posch and King Korndyke Sadie Keyes. All are from good record dams.

I am also offering a limited number of young cows, bred to one of these two sires. Good individuals, with splendid official backing. Correspondence solicited, visitors welcome.

Gordon S. Gooderham Stations: Clarkson and Oakville Farm on Toronto and Hamilton Highway Clarkson, Ont.

"GOING TO SELL 'EM"

We have 5 thirteen-months bulls and are going to let them go. Three are by Pontiac Korndyke of Het Loo and brothers to Het Loo Pietertje (the world's champion heifer) while the other two are by King Segis Alcatra Spofford and Dutchland Colantha Sir Mona. Act quick if you want them.
W. L. SHAW, (Electric cars from Toronto) Roycroft Farm, Newmarket, Ontario

SUMMER HILL HOLSTEINS

A number of choicely-bred bulls. One a real show bull, beautifully marked, dam a 30.76 junior four-year-old; sire's dam 34.60. The three nearest dams average over 100 lbs. milk a day. Can spare a few good heifers.

D. C. FLATT & SON, R. R. 2, HAMILTON, ONT.

DUMFRIES FARM HOLSTEINS

Present Offering—A few bull calves.

S. G. & ERLE KITCHEN ST. GEORGE, ONT.

Here's a Top-notch!

Sire, King Segis Walker; dam, 30-lb daughter of Pontiac Korndyke, who herself has a 30-lb. daughter. He is a youngster, but he'll grow.
A. A. FAREWELL, Oshawa, Ont.

RIDGEDALE STOCK FARM

offers for sale young bulls from high-testing dams, such as Lakeview Dutchland Wayne Rose, the highest producing cow of her age in the world. It will pay you to inspect these before buying.
DR. F. A. HESLOP, Prop., R. R. No. 1, FREEMAN, ONTARIO. CHAS. HESLOP, Manager

SILVER STREAM HOLSTEINS

Present Offering—six extra well bred bull calves, sired by bulls with 34-lb. backing, and from tested dams, individually as good as their breeding. For fuller particulars and prices, write, or better come and see them.
J. MOGK & SON, R. R. 1, TAVISTOCK, ONTARIO

PIONEER FARM HOLSTEIN HERD

—the herd that produces champions—offers a very handsome, ready-for-service son of Canary Hartog. His dam a high-testing sister of Calamity Snow Mechthilde 2nd, the new Canadian champion three-year-old in R.O.P. Also bull calves from champions, and from dams' sisters and daughters of champions. Don't take time to write—come at once and see them for yourself.
WALBURN RIVERS & SONS, R. R. 5, Ingersoll, Ont. Phone 343L, Ingersoll Independent Line.

O Milking



Care of

Excerpt from News:—

"One of the most important things in the care of milking machines is the cleaning of the machines. The machines should be cleaned after each milking until the casing or cups are clean."

Omega Ha

Short, transparent place of long rubber or harbor germs cleaned. This is another is that suspended from cups cannot fall.

WR

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Cream

Ship you We pay charges. cans. V We guarantee market

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Twenty-Five Year

JERSEYS

We have bred over champions for large production. We bred, and have champion Berkshire improvement, write and prices.

HOOD FARM

AYRSH

WILL MAKE MONEY WRITE CANADIAN AYRS Box 513

Fernbrook

Young bulls for sale from one to fifteen months of age. Close to the water. Clough May Michl

COLLIER BROS. (OXFORD)

CITY VIEW

One bull, ten months of milk, 4.64% fat as a calf—might spare 1 S.-C. Red, White Wyandotte now ready. James B

Glencairn Ayrsh

ability from 8,600 to 10,000 lbs. production appeals to you and young bulls for sale. Rockton, Ont. Cope

Choice Offerin

AT SPECIAL PRICES of serviceable ages. A dams. Come and see them. JOHN A. MORRISON

Kelso Farm R. O. P.

by Palmston Specul had a stronger line up of we have at present. G are sure to please. D. A. ing. G. T. R., Athelst