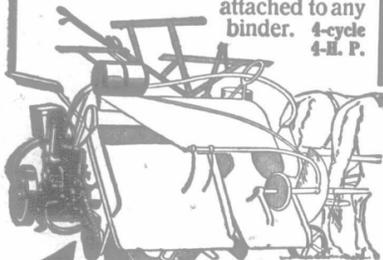


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Better than 4 horses without the engine. Team simply draws machine. Engine does all operating. Sickle never stops when bull wheel skids. Easily attached to any binder. 4-cycle 4-H.P.



Weights Only 167 pounds

Quickly detached for any other farm power work. Delivers full 4 H.P. Speed changed while running. Has patented clutch pulley with sprocket for chain drive to double sprocket on binder. Schebler Carburetor. Also 2-cylinder 6-H.P. up to 20-H.P. heavy duty, light weight specialty farm engines. State size wanted.

CUSHMAN MOTOR WORKS OF CANADA, Ltd.  
283 Princess St., Winnipeg, Canada

### Farm Cushman The Original Binder Engine

The FAMOUS 4 h.-p. CUSHMAN ENGINE has just been mounted in combination with a flax-pulling machine at Forest, Ont., and it has proved a decided success. This has been the verdict on Cushman Engines wherever used as auxiliary power on binders, potato diggers, etc., etc.

#### NOW FOR INTERNATIONAL Greatest and Best THE LIVE STOCK SHOW

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Daily Sales of Pure-bred Live Stock

CLYDESDALE SALE 50 HIGH-CLASS 50

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50 SELECTED 50 CHOICE 50

SHORTHORNS 50 HEREFORDS 50

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50 SHORTHORNS 50 HEREFORDS 50

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Sheep & Swine Sales Tuesday, Wednesday and Thursday

Many New Improvements, New Features, Entertainment, Brilliant Evening Shows and A TRIP TO CHICAGO.

LOWEST RATES ON ALL RAILROADS

### Glenfoyle Shorthorns

Large selections in females, all ages, bred from the best dual-purpose families. One extra choice fifteen-months bull, some younger ones coming on. Priced well worth the money.

Stewart M. Graham, Lindsay, Ont.

### Pure Bred Stock

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Our present offering is 4 shearling ewes, 7 ewe lambs, 7 ram lambs. These rams are in good condition. Address—James Smart, Beeton, Ontario

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The first prize and sweep stake stock horse, SCOTTISH BARON (4245) [11928], he is a son of Baron's Bride (3067) [9122]; also the 10-year-old stallion Baron Nicklas [16268], he being a grandson of Baron's Bride (3067) [9122]. For further particulars apply to—

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### SHORTHORNS

Males, females, one good red bull, 16 months, five younger, three fresh cows, calves by side, heifers. Right dual-purpose breed and kind.

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### PLASTER HILL SHORTHORNS

MILKING STRAINS—5 young bulls, 5 to 12 months, bred from record cows. Visitors welcome.

F. Martindale & Son, G.T.R. Caledonia, R.R.3

### Questions and Answers. Miscellaneous.

#### Sheep Protection.

1. Where can I get the latest copy of the Act regarding sheep worried by dogs?
2. If a registered sheep is killed by dogs, are you entitled to only the mutton value or their value as breeding stock?

SUBSCRIBER.

Ans.—1. Write W. B. Roadhouse, Deputy Minister of Agriculture, Parliament Buildings, Toronto.

2. According to the new Act the owner of the sheep is entitled to full value.

#### Pneumatic Water System.

Would you kindly advise where I may get information, also who handles the pneumatic air system referred to in your paper of Oct. 19, 1916, under the heading, Automobiles, Farm Machinery and Farm Motors, sub-heading, Some Facts About Water Supply?

WM. L.

Ans.—Empire Manufacturing Co., London; National Equipment Co., 33 Wabash Ave., Toronto, and London Engine Supply Co., London, are firms manufacturing the pneumatic water systems. These firms have literature describing in detail the working of the systems they make and sell.

#### Bull on Pasture—Windpuffs.

1. A and B own farms adjoining. A keeps grade cows with a grade bull running with them. B keeps the registered Shorthorn cattle. A's grade bull got through a part of the fence and served one of B's pure-bred cows. What are the laws regarding scrub bulls? Can B collect damages? How much would be reasonable? If he can, when would be the right time to do it?

2. I have a valuable young mare coming four years old. I worked her a little last winter in order to get her going good for the spring. We drew out some manure on the sleighs coming out spring with her. About a week after, when backing her out of the stall in the mornings for water, she was very stiff in her right hind leg, seemed to be up in the hip; the leg never swells. This stiffness occurs sometimes for one or two mornings and maybe then not for a week. We had not noticed it for nearly two months until lately; it has occurred about once every week when backing out of the stall. She seems to drag the leg back, cannot pick it up off the floor. When out on grass she seems all right. The first dozen steps ahead after backing she draws the leg up, which seems to catch and kind of crack. She also walks very wide for a short time. She is in good condition, has worked on grader since harvest. Could you tell me what is wrong and what to do?

3. What causes windpuff on horse's hind leg? What will take them away?

J. M.

Ans.—1. According to law, bulls are not supposed to run loose in the field, and if any damages occur the owner is liable. B can legally claim damages; the amount depending on the extent thereof, which would be the difference between the price of the grade and pure-bred call. Such damages could be collected when definite proof can be furnished that the cows are in-calf.

2. The symptoms partially indicate sprain, or it may be partial dislocation of the patella. If the latter, keep the mare in a box stall when in the stable, and the bone will not be nearly so liable to become disarticulated. Clip the hair off the front and inside of the stifle and apply a blister made of 2 drams each of biniodide of mercury and cantharides, mixed with 2 ounces of vaseline. Rub well with the blister once daily for two days, and on the third day apply sweet oil. When the blister is on, tie the mare's head so she cannot bite it. The same blister is used for sprain.

3. Windpuffs are caused by hard work, concussion, and sprains. Bathe the puffs with ice-cold water for half an hour every morning, rub dry after bathing and apply an iodine liniment, consisting of one dram of iodine crystals to sixteen ounces of water.



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ANY farmer who is using an Alpha will tell you that this engine is a great help to him and that he can absolutely rely on it. The Alpha is a steady, powerful engine that will do a great number of big and little jobs on your farm that now cost you too much in time and labor. You can make your work easier, get it done quicker and save money by using an Alpha.

The Alpha is a smooth running, powerful engine that has proved its value to thousands of farmers in all parts of Canada. It is a reliable engine. You can always depend upon its being in good working order when you want to use it. There are no complicated parts to get out of order and cause time-wasting delays and expensive repairs. Ask Alpha Engine users. What they tell you will be proof of Alpha superiority.

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There are many other reasons why Alpha Engine users get the greatest engine value for their money. Every feature of the Alpha is completely illustrated and described in our large engine catalogue. Ask for a copy and read it carefully.

Alpha engines are made in eleven sizes—2 to 28 H.P. —each furnished in stationary, semi-portable or portable style with hopper or tank cooled cylinder.

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### Shorthorn Bulls---Shorthorn Females

A HERD THAT YOU WILL LIKE

You will like our females; you will like the breeding and you will like the sires that have been used on these in the past year. Right Sort (Imp.), Bandsman (Imp.), Newton Friar (Imp.), Lytton Selection, Escana Champion,—all these bulls have been used in the past year. We can show you some young bulls by these sires that are show calves. Come and see them or let us send you particulars. We can also spare some females bred to them; heifers, four and six year-old cows, as well as cows with calves at foot.

WM. GHENT & SONS, FREEMAN P.O., ONT. Farm, 300 yds. from Burlington Jct., G.T.R.

Robert Miller Still Pays the Freight—And he is offering in Shorthorns some of the best some younger still; heifers ready to breed and younger, and some in calf. They are of the best right, just what you want to make a proper foundation for a good herd, and suitable to improve any herd in the land. They will be priced so that you can afford to buy, if you will tell me what you want. Our business has been established 79 years, and still it grows. There is a reason.

ROBERT MILLER, Stouffville, Ont

### WILLOWBANK STOCK FARM SHORTHORN HERD

Established 1855. This large and old established herd has at the head the two great bulls: Imported Roan Chief =60865=, a butterfly, and the prizewinning bull, Browndale =80112=, a Mina. An extra good lot of young stock to offer of either sex. Splendid condition. Good families of both milking strain and beef.

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### Choice Breeding SCOTCH SHORTHORNS High Quality

We are offering this fall the choicest lot of young herd headers we ever bred, several are of serviceable age, high in quality, rich in breeding. Also a number of heifers.

GEO. GIER & SON, WALDEMAR, R.M.D. Grand Valley Sta.

### IRVINEDALE SCOTCH SHORTHORNS

Our offering this year in Scotch Shorthorns is probably the best we have offered for many years, there are several young bulls of serviceable age, right good ones and breeding the very best; also females of any age.

JOHN WATT & SON, ELORA, R.M.D.

### MEADOW LAWN SHORTHORNS

We are offering a splendid lot of young bulls from 10 to 18 months old, of the low-set, thick, fleshy type from good milking dams. You are invited to inspect this offering.

Elora, R.R. No. 1, F. W. EWING

### SPECIAL OFFERING FROM THE SAIEM SHORTHORN HERD

Eight roan and red heifers about twelve months, big, well bred heifers of fine quality, also ten young bulls of our usual high-class kind.

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### PIONEER FARM HOLSTEIN HERD

Of long-distance record makers, the kind that milk heavy and test around 4 per cent. the whole year. Of the six highest butter-fat-record two-year-olds in Canadian R.O.P., one half were bred at Pioneer Farm. Young bulls for sale from dams of the same breeding as these and sired by Canary Hartog, whose three nearest dams average 30 lbs. butter in 7 days and 108 lbs. milk in one day.

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FOR SALE—January 5th, white. Dam's months, testing at three years or for particulars R. R. 5, St. M...