Time is Money

Herefords

Mature Early Fatten Quickly

Feed them once, and HEREFORD STEERS you will always feed.

They cost a trifle more, that's the way with all

GOOD THINGS

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Canadian Hereford Breeders' Assn.

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A few typey young bulls and females to offer, of choice breeding and individuality.

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Yearling Rams and Ewes for breeding purposes or fitted for the show ring.

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We offer a grand choice of young bulls and bull calves from imported dams and sire, bred on the English system for milk and beef. They will add value to any herd. The dual characteristics have been impressed by scientific treatment for con-tinuous years. Prices moderate.

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Mardella Dual-Purpose SHORTHORNS

Eight choice young bulls, 39 females, cows and heifers. All of good size, type and breeding. Herd headed by The Duke; dam gave 13,599 lbs. milk, 474 lbs. butterfat. He is one of the greatest living combinations of beef, milk and Shorthorn character. All priced to sell. Write, call or 'phone. THOMAS GRAHAM, Port Perry, R.R. 3, Ont.

Shorthorns

Present offering: Six young bulls, Reds and Roans; also a number of females. They have size, quality and breeding, from good milking dams. Prices moderate. Satisfaction guaranteed.

CHAS. GRAHAM - Port Perry, Ont.

in Great Britain which during the war produced trinitrotoluol for the Ministry of Munitions and produced it on a prodigious scale. It was bombed by German aircraft on several occasions, possibly because work of this character was known to be carried on there.

The Hydraulic Ram.

BY C. H. THOMAS. Every modern dairy must needs have an adequate and never-failing supply of good, clear water for every-day use. use of any other appliance except a hydraulic ram means added expense, and therefore greater overhead expense charges. A hydraulic ram needs liftle or no attention and depends upon the simple rule of running water as its actuating power. Outside of a natural flow, the hydraulic ram is the most economical. It does not need steam or electricity to help it run, but uses the force of gravity. In the installation of the ram there are certain natural laws which have to be followed, or the plant will not prove a success. Here are the three principal factors: The proper amount of water, the proper fall of the feed pipe, and the proper length and size of the feed pipe. This ram which we installed a while ago, under adverse circumstances, is to-day working successfully, having given no trouble. There was an elevation of some 100 feet to be overcome in a distance of about 800 feet. The feed pipe, 3 inches in diameter, was 150 feet long. With this we got about a 7-foot fall from the top of the head-box to the ram, which proved to give sufficient power to the ram to overcome the resistance or weight of the 45pound back pressure existing in the rise pipe. On this job, or farm, there is a fine spring of fresh, sparkling water in such a position that it could be easily utilized. We put in a ram so we could make use of this supply. The water from this spring is brought about 300 feet through a one-inch pipe by gravity, and enters the ram as shown There it receives the force of the water from the feed pipe and is forced first into the air chamber, then into the rise pipe, and finally up to the cistern. To the novice, or one not acquainted with this form of water power, a ram may seem like a mysterious piece of machinery, but it is simple enough, as the following will explain. When a column of water in a pipe is suddenly stopped by the closing of the outlet valve in the ram, the momentum of the water opens a valve into the air chamber. A certain amount of water rushes through and at the same instant the water rebounds in the feed pipe letting the air chamber close and hold what had gone through. The pressure of water taken off, the outlet valve suddenly onens and the water starts down the feed pipe again. The operation is thereby continued, and the ram keeps pumping the water up the long grade to the cistern, with little or no attention being paid to it Practically the only thing necessary to be renewed is a new gasket The hydraulic ram is a time and money saver, and of great value to the dairy man on whose farm there is a small stream, and there are very few on which they are not found. The ofce of the air chamber in the ram is to contain a certain amount of air. This forms a cushion when compressed by the weight in the rise pipe, and exerts a spring-like action on the water, forcing it out at the its name from the fact that it rams or forces part of the water that operates it Since it wastes a considerable portion of the water in securing power to elevate the remainder, there must be good drainage at the place where the ram is located. The ram pit is about 8 feet deep, and wide enough to allow room to work around it. The flow required to operate a ram is from one-half gallon per minute upward, and the ram must be at least 2 feet below and 10 feet away from the source of supply, so as to give the water an opportunity to gain momentum. There are various rules to determine the best position of the ram with relation to the supply and point of delivery. The speed may also be varied to pump a larger proportion of the water when the supply is limited or to pump it faster when there is an abundance. This dairy farm uses a good many gallons of water daily for barn use, and for washing bottles and cooling the milk. The supply is neverfailing, and the ram has never given any

For Dependable Breeding Cattle

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HEAD

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Scotch and Scotch-Topped

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Markdale, Ontario, Thursday, October 7th

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