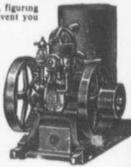


**Use Coal Oil--12c. For 10 Hours**

This is the cost for Coal Oil per horse power to run this engine, figuring the price at 16c. a gallon. Don't let the high price of gasoline prevent you from having cheap, safe and dependable farm power.

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Will develop more power in a gallon of the cheapest coal oil than other engines will do on a gallon of high-priced gasoline; no danger of fire or explosion. Simplest engine on the market, only three working parts; starts without cranking; runs either way; no excessive weight; guaranteed 10 years and will last a lifetime. Anyone can run it; very complete instructions furnished.

**Make Us Prove It** Don't let any competitor or agent tell you that Ellis Engines will not use coal oil satisfactorily; ask anyone who saw them run at Toronto Exhibition. Let us prove it to you under actual working conditions on your own place before you buy. We will ship an engine from Windsor, Ontario, on 30 days' trial, freight prepaid, so you will have neither day nor night to say if we don't prove our claims, send the engine back. Write to-day for catalogue and opinions of users in all parts of Canada.

**ELLIS ENGINE CO., 90 Mullett Street, Detroit, Mich.**

**RIDER AGENTS WANTED**

Everywhere to ride and exhibit a simple yet Hoop Bicycle with corner brackets and other improvements.



**Well DRILLING MACHINES**

Over 70 sizes and styles for drilling either deep or shallow wells in any kind of soil or rock. Mounted on wheels or on sills. With engines or horse powers. Strong, simple and durable. Any mechanic can operate them easily. Send for catalogue. **WILLIAMS BROS., ITHACA, N. Y.**

**A Timely Bulletin**

"The Illinois Way" of Beautifying the Farm" is the title of what is probably the most attractive bulletin ever got out by any Department of Agriculture or Experimental Station in America. Our Canadian stations have got out some excellent ones in the past, notably those edited by J. B. Spencer, B.S.A., of Ottawa. This Illinois bulletin, however, sets a new standard in the quality of paper used and in the character of illustrations. Even did one not read the bulletin at all the illustrations would give him a tolerably good idea of how to plant around the home for beautiful effects. Many of the illustrations in this number of Farm and Dairy are taken from this Illinois bulletin, notably those on pages 64 and 67.

Why not a bulletin on the Ontario way of beautifying the farm, or the Quebec way, or the British Columbia way? Canadian stations have got out bulletins that are encyclopedias of agricultural information, but there is little in such literature on the beautifying of the home and note that as comprehensive and inspiring as that got out from Illinois. Why not a Canadian bulletin that will illustrate the use of Canadian trees and shrubs for making Canadian farm homes places of beauty and attraction? Farm and Dairy would like to see the Department of Horticulture of the University of Illinois on this splendid bulletin.

**Stable Fittings**

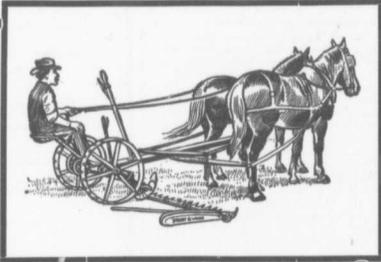
The retired gentleman who buys a farm to play with has long been an advocate of such improved stable fittings as steel stanchions, steel partitions, overhead litter carriers and so forth. The fact that these gentlemen use these appliances, however, does not prove their practicality for the average farm. I find, however, the dairy farmers who have to get every cent from their farms and herds are now getting these fittings, and this to my mind, is the best proof of their worth. I have been in many stables recently, completely equipped with swinging stanchions, bar partitions and litter carriers, and in all cases these improvements are being found desirable. I have had them in my own stable for three years and know whereof I speak.

The kind of stable equipment we had did not matter so much when the stock end of the farm was an unimportant one and when the stock itself was of the poorest quality. With high bred dairy cows, however, every little point in equipment makes a difference in returns. Our cows have a highly sympathetic nervous organization and respond to every improvement that we make. Even did we have no other improvements, I would have swinging stanchions in preference to the old rigid variety.

Steel construction is desirable where one's speciality is city milk and it is in my case. They are more satisfactory as there are fewer holes in which dirt can accumulate. The drinking bowl, by enabling the cow to take little water as she needs it, is a new approach to the natural way of forcing the cow to drink back-to-back time. So far as the litter carrier are concerned, the labor problem is driving farmers to adopt them whether they will or not.

The poultry industry in Canada today is worth considering. It has been estimated that in Canada in 1913 we produced in the neighborhood of \$100,000,000 worth of product, about half as much as the dairy industry and a good deal more than other industries that are looked upon as more consequence.—F. C. Elford.

**Your Farm Equipment Should Include a**



**FROST & WOOD**  
Internal-Gear All-Steel  
**MOWER and RAKE**

To farm without the aid of these two valuable Haymakers is to work under a heavy handicap. Their use, for a simple reason, will prove this to your complete satisfaction.

**A Light-Draft Mower**

The cutter-bar of the FROST & WOOD MOWER is driven by internal gears. "Lost motion" is completely done away with—tooth-wear and friction reduced to the lowest point. Roller-Bearings at every vital point make this MOWER unquestionably the easiest running machine of its kind on the market.

**A Durable Rake**

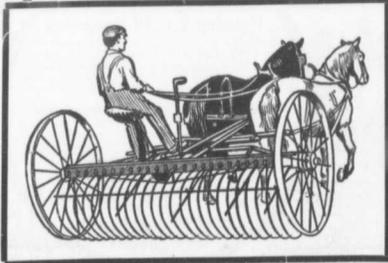
The FROST & WOOD Rake is built to last a life-time—even with the most strenuous usage. Angle-steel frame—steel, staggered-spoke wheels—staunch steel axles—spring-steel teeth—that's the way we build the FROST & WOOD for SERVICE. All parts are rivetted; they won't fall apart like bolted parts.

**SEE THEM**

A call on our Agent will convince you that these two implements will make money for you. See them, to-day if possible—or write for illustrated descriptive booklet "Haymakers." It's Free.

**Frost & Wood Co. Ltd.**  
Smith's Falls—Montreal—St. John, N.B.  
Sold in Western Ontario and Western Canada by

**Cockshill Plow Co. Ltd.**  
BRANTFORD, ONT.



**A Dividend**

Kind farming has the idea in beginning West. Many Western farmers are around the one here, when well

**A Cow Test**

"Can I afford to breed dairy stock?" Guelph Winter Fair sell of Elgin Co., For answer "M" pencil and paper and what he had made of old heifer he had care his figures: 450 lbs. butter at \$1.00 One bull calf, \$11.00 Prize money, \$130.00 Skim milk and m Total, \$455.00 Less keep, \$250.00 Profits, \$385.00 In addition, this Stansell's heifer calved and her second calf Stansell would not \$150.

**To Improve**

How may I improve This is the earnest true breeder of dairy the course of his life meeting of the Canadian Breeders' Association Stewart, one of the of dairy cattle in Canada the large record of the Shire breed is that of good type and vision. I would want to see great care in their make big records. I am not only injured myself, but also her overfeeding and force strain may be put upon her organs or feet be weakened. "I wish most strongly the value of type. The Ayrshire breed, cow breeders of other breeds establish. In our times and in our breed we must not overlook coupled with product cow valuable. Let us get a little more production in our own we will take second prize. "This can only be close attention to our selections. We need to well selecting sires, real well before breeding, we are and constitute these important details