



## 150,000 Farmers are Using the "Z" Engine

They have bought it because demonstration proved it the greatest engine value ever produced.

### Fairbanks-Morse

**3 and 6 h.p. "Z" Engines**  
Use Coal Oil, Distillate or Gasoline

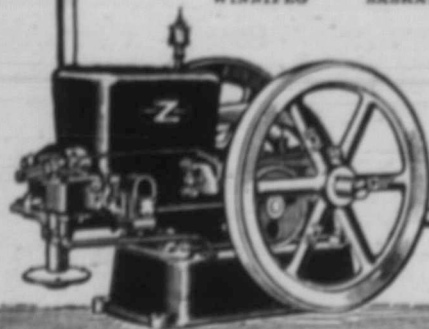
—the most economical fuels burned in engines today. The "Z" performs all farm work for which an engine can be used. It is simple, durable, light in construction, and can be operated by anyone. Fairbanks-Morse quality is built into every "Z" Engine and this quality is your guarantee of reliability.

1 1/2 H.P. \$84.00 3 H.P. \$150.00  
6 H.P. \$267.00

5 Per Cent. Discount for Cash. F.O.B. Winnipeg  
Get full particulars today from our nearest branch.

**The Canadian Fairbanks-Morse  
Company, Limited**

WINNIPEG SASKATOON CALGARY



Dealer Service: Your local dealer is a direct representative of the manufacturer. He shows their responsibility. He's not your service to see that you are satisfied.

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"Where City  
and  
Country Meet"

## EDMONTON EXHIBITION

July 8-13, 1918

The Edmonton Exhibition management have decided to name Wednesday, July 10th at the Edmonton Exhibition, "United Farmers' Day." Thursday will be "Citizens' Day," and Friday will be taken possession of by the United Commercial Travellers. Friday evening and Saturday the big attraction will be automobile racing.

The Edmonton Exhibition will this year have the biggest exhibit of machinery ever seen on the grounds, including threshing outfits, farm tractors, and all forms of farm equipment—not to forget the various appliances which go to make the women's work lighter. The farmers are in a position to buy the best—and the manufacturers are competing for their business today as never before.

**EXCURSION RATES OF FARE AND ONE-THIRD ARE IN FORCE**  
Big Exhibits of Farm Machinery and Equipment. Splendid Government Demonstration Exhibits of Wool, Eggs, Food Conservation and Substitutes.

**Demonstrations of Soldiers' Trench Life, Model Tanks, Red Triangle Huts, Etc.**

**Exhibits of the Best Livestock in the Country.**

**Poultry Show. Dog Show.**

**SPLENDID ATTRACTIONS in front of the Grand Stand.**

**LUCIELLE BELMONT, Balloonist.**

**AUTOMOBILE RACES, July 12th and 13th.**

**THE JOHNNY J. JONES SHOWS on the Midway.**

"Pack up your troubles in the year old kit bag," check the youngest children at the Baby Check Room, and take the bigger ones along with you to learn what they can and enjoy the fun at the.

## Edmonton Exhibition, July 8-13

**EXCURSION RATES ON ALL RAILROADS**

J. R. McINTOSH, President.

W. J. STARK, Manager.



**Cattle Labels**  
No occasion to send to the States. Save duty and duty. Orders filled first mail. Prices low as the lowest. Write for samples. Mention this paper.

**A. B. CAIL, 421 Main Street, Winnipeg**

**DR. BELL'S** Veterinary Medical Wonder. 10,000 \$1.00 bottles to someone who give the Wonder a trial. Guaranteed for inflammation of lungs, bowels, kidneys, fever, distemper, etc. Send 25 cents for mailing, packing, etc. Agents wanted. Write address plainly Dr. Bell, V.R., Kingston, Ont.

## Bloodlines of Great Percheron Sires A Study in Line Breeding

CHAP. XV. of "A History of the Percheron Horse" deals with the bloodlines of prize-winning Percherons. On page 591 a summary appears which gives the ranking great-grandfathers for ten years of French shows. This has led to inquiries regarding the ranking sires and grandfathers. For the benefit of percheron breeders who are studying bloodlines as well as individuals in their breeding operations, these data were presented not long ago by Wayne Dinmore, secretary of the Percheron Society of America, in the Breeders' Gazette, Chicago.

A study of the winners at the shows held in the Perche, under the direction of the Societe Hippique Percheronne de France from 1901 to 1910, inclusive, discloses 1,418 prize-winners in the individual classes. The large number is due to the French plan of extending the prizes far down the line, sometimes granting 30 prizes for a single class.

After tabulating all winners and placing opposite each one the sire and

| Name                       | Progeny | Prizes won by |
|----------------------------|---------|---------------|
| 1 Besigue (19052)          | .....   | 92            |
| 2 Jules (37987)            | .....   | 76            |
| 3 Beaudole (34055)         | .....   | 32            |
| 4 Lerida 3d (42847)        | .....   | 21            |
| 5 Theudis 25015 (40871)    | .....   | 20—Imp. 1900  |
| 6 Fernando (34038)         | .....   | 19            |
| 7 Bibi 95097 (52612)       | .....   | 15—Imp. 1906  |
| 8 Bon Courage 28181        | .....   | 14—Imp. 1901  |
| 9 Nandia (42645)           | .....   | 13            |
| 10 Phaeton 29994 (44472)   | .....   | 13—Imp. 1902  |
| 11 Blande 29259 (36577)    | .....   | 13—Imp. 1901  |
| 12 Monjarret (47326)       | .....   | 12            |
| 13 Laurietin 29953 (44885) | .....   | 11—Imp. 1902  |
| 14 Electeur 24575 (43370)  | .....   | 11—Imp. 1900  |
| 15 Athos (46479)           | .....   | 11            |
| 16 Hoher 60395 (60922)     | .....   | 10—Imp. 1907  |
| 17 Scipion 27123 (43667)   | .....   | 9—Imp. 1901   |
| 18 Victoria 24449 (42905)  | .....   | 9—Imp. 1900   |
| 19 Anida 42657 (48644)     | .....   | 9—Imp. 1903   |
| 20 Carton (45997)          | .....   | 9             |



"Kerta Jalap" (7610), 106186. Owned by E. A. Davenport, Acme, Alta. His winnings are as follows:—Panama Exposition, 1915: First in one-year open class; in group that won First on get of sire, also in group of five stallions that won First Prize, Minnesota State Fair, 1917: First Prize three-year-old and Grand Champion Stallion, open class. Iowa and Illinois State Fairs, 1917: First Prize three-year-old stallion. First Prize three-year-old stallion at International Livestock Exposition, Chicago, 1917. In group of five stallions that won First at Minneapolis, Iowa and Illinois State Fairs, also at Chicago International, 1917.

paternal grandsire and great grandsire, a summary shows the leading sires. Opposite each I give the number of times the individual appears as the sire of winners:—

| Name                       | Progeny | Prizes won by |
|----------------------------|---------|---------------|
| 1 Besigue (19052)          | .....   | 48            |
| 2 Jules (37987)            | .....   | 34            |
| 3 Beaudole (34055)         | .....   | 32            |
| 4 Lerida 3d (42847)        | .....   | 21            |
| 5 Theudis 25015 (40871)    | .....   | 20—Imp. 1900  |
| 6 Fernando (34038)         | .....   | 19            |
| 7 Bibi 95097 (52612)       | .....   | 15—Imp. 1906  |
| 8 Bon Courage 28181        | .....   | 14—Imp. 1901  |
| 9 Nandia (42645)           | .....   | 13            |
| 10 Phaeton 29994 (44472)   | .....   | 13—Imp. 1902  |
| 11 Blande 29259 (36577)    | .....   | 13—Imp. 1901  |
| 12 Monjarret (47326)       | .....   | 12            |
| 13 Laurietin 29953 (44885) | .....   | 11—Imp. 1902  |
| 14 Electeur 24575 (43370)  | .....   | 11—Imp. 1900  |
| 15 Athos (46479)           | .....   | 11            |
| 16 Hoher 60395 (60922)     | .....   | 10—Imp. 1907  |
| 17 Scipion 27123 (43667)   | .....   | 9—Imp. 1901   |
| 18 Victoria 24449 (42905)  | .....   | 9—Imp. 1900   |
| 19 Anida 42657 (48644)     | .....   | 9—Imp. 1903   |
| 20 Carton (45997)          | .....   | 9             |

Analyzed the same way the ranking grandsires are as follows:—

Net one is inbred. Nearly all are line-bred to more or less degree. It may be urged by advocates of inbreeding that greater progress would have been made had inbreeding been resorted to. In answer to this I can only say that those sires which were inbred appear far down the list as sires of winners.

Besigue, ranking first as sire and grandsire, was sired by Brilliant 3d, a line-bred horse. His breeding follows:—

|                             |                                       |
|-----------------------------|---------------------------------------|
| Brilliant 3d (11116) (2919) | Ernestine by Duke of Perche 173 (740) |
| Besigue (19052)             | Brilliant 1899 (756)                  |
|                             | Bleu (2462)                           |
|                             | L'Amie (to) M. Bajeon                 |
|                             | Favari (4770)                         |
|                             | Superior 454 (730)                    |
|                             | Percheronne (to) M. Justice           |

It will be noted that Fenelon was bred to a half-sister of his sire to produce Brilliant 3d, and this verges as closely on inbreeding as one can go in line-breeding. Besigue's dam, however, was in no wise related, coming from an entirely different strain. Jules, second as a sire and grandsire, and believed by

many to have bred improvement by Villers 13180 is very similar though not quite the dam of Vill the dam of Be paternal grand (1630), sire of Jules, like the an entirely diff Beaudole, th as a grandd line, as he v (10386), a line a mare of a diff breeding follow

Voltae  
Marathon  
11410  
(10386) Merg

It will be a bred to a half was precisely t duced Brilliant male used were Lerida 3d (4 an exception t as there is no in the first four

Theudis, sft as a grandd through his si comes from a d is true of Fer as he is sire breeding I hav from a differ

The outstand blood-lines of grandsires is inbred, and a bred sires out of a different breeding the l is not closer t In one or two is reversed an bred to a sire so closely bre sire; but in th are line-bred.

Another poi tion with this ty ranking sir to this country grandsires, ei States. Deep pure-bred colt sired in the great stallions lers 112, Sully 40, Brilliant Courage 25, a this country, over fifteen co not sire a sin in itself serv to the fact th past were in had but few with the net blood has bee

This brief some present difference in is often not the mares are cases it is no the mares a breeding. Ne with the blo be of unifor be alike in ty blood strains lines.

## Advert

A great ha proper kind the right ki best results vertisement read by the interested in vertisemen issue of the "out of sig true in this other. The the prospecti tainment wh to have it in space that h But a per in the best o not continu The breeder