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A very interesting experiment has recently been concluded in California to determine just how much a horse

pulls when he draws a ton.

A good draft team was used for this purpose. The horses weighed 1,600 pounds each. They were hitched to an ordinary farm wagon, and pulled a load of 6,000 pounds over different kinds of roads. The wagon was a product farm wagon with steel ayles. standard farm wagon with steel axles of equal length, wheels 38 and 46 inches in diameter, and four-inch tires.

A recording dynamometer, known as

the lowa type, was used to register the tractive force of the team. This instrument makes a record of the resistence on a strip of paper under a recording pencil, and after the test, the total pull of the team can be read off in pounds. The record of the resistence on a strip of paper under a recording pencil, and after the test, the total pull of the team can be read off in pounds. The record of the test is as a conserver to add the property of the test is as a conserver to add the property of the test is as a conserver to add the property of the test is as a conserver to add the property of the test is as a conserver to add the property of the test is as a conserver to add the property of the test is as a conserver to add the property of the test is as a record of the test. follows: On a concrete road, unsurfaced, n excellent condition, the total pull on the load was 83 pounds, or 27.6 pounds per ton. On a concrete road with 3/4-inch surface of asphaltic oil and screenings, road in excellent condition, the total pull was 147.6 pounds or 49.2 pounds per ton. On the ordinary macadam road in excellent condition, the total pull was 193 pounds or 64.3 pounds per ton. For gravelled road, compact, and in good condition, the total pull was 225 pounds or 75 pounds per ton. An earth road, irm, with 1½ inches of fine, loose dust, the total pull was 276 pounds or 92 pounds per ton. An earth road, with mud 4 to 6 oches deep, but soil firm underneath, total pull was 654 pounds or 218 pounds per ton. On graveled road, before the ravel had been compacted, but when was in ordinary loose condition after had been placed upon the road, the otal pull was 789 pounds or 263 pounds

The above shows very well what reat advantages good roads have as far as the hauling properties of a team

COLORADO NEWS NOTES.

Gossip. The Correct Type in Ayrshires.

Ayrshire breeders who accept the invitation given by Jno. Morrison, in his advertisement elsewhere in this issue, to visit his herd will not be disappointed when they get in his stables. There has been very little official testing done in the herd, but the big, deep cows of the correct dynahire type will need no further recommendation when they are once seen by the competent judge. The heifers too, especially the two-year-olds, are as choice lot of well-grown heifers as we have lot of well-grown heifers as we have seen for some time. Many of these are due, in the early spring, to the young sire Garclaugh Admiral by Garclaugh Prince Fortune and out of Ourvilla, whose dam, Ardelia, was the one-time R. O. P. champion two-year-old of Canada. This bull has also been used on several of the mature cows in the herd, while a number nave also been bred to F. H. Harris' great on of Hobsland Masterpiece. Full particulars regarding the herd in general particulars regarding the herd in general, well as the present offering, will gladly be furnished at all times. Address Jno. Morrison, Mt. Elgin, Ont. Mention the Advocate when writing.

Misdirected Energy.—The fact that Sir Douglas Haig attained his fifty-sixth birthday on June 19 brings back to mind a story told of him a short while

It is, of course, well known that Sir Douglas is a soldier first, last, and all the time, regarding all other professions as of quite negligible importance, a trait in his character which lends point to the anec-

He was, it appears, inspecting a cavalry troop, and was particularly struck with the neat way in which repairs had been

made in some of the saddles.

"Very good work", he remarked to the troop sergeant-major. "Who did it?"

"I wo of my troopers, sir," was the reply.
"You're fortunate to have two such the saddlers in your troop," said Haig.
"As a matter of fact, sir", was the reply, they're not saddlers, in civil life being lawyers."

"Well," ejaculated Sir Douglas, "how men who can do work liberthat could have a sted their lives over law I can't impaire!"—Minneapolis Tribune.



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N.B.—Subscriptions to Great Britain, \$1.50 a year To United States, \$2.50. To France, \$3.00.

THE WILLIAM WELD COMPANY, LIMITED, London, Ontario



Questions and Answers. Miscellaneous.

Spring Rye.

Where can spring rye be secured for E. T.

Ans.—We cannot give the names of individuals handling the rye, but it can be secured from most of the seed firms advertising in these columns.

Veterinary.

Swollen Leg.

To cure lameness in the hock a liquid was injected into the joint. The next day it commenced to swell and swelled to the size of two large goose eggs. I used a liniment and then blistered it 4 times. She is not lame now, but the inside of the joint is swollen and extends down to the fetlock. It reduces some on exercise.

Ans.—Get a liniment made of 4 drams each of iodide of potassium and iodine and 4 oz. each of glycerine and alcohol, and rub some well into the enlargement once daily, and bandage the leg from the pastern to the hock when she is in the stable. Continue treatment for months, if necessary, as quick results are not likely to be noticed. V.

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