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That Adds
More Power

It Works On Any Soil

Bates Steel Mule

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with the crawler traction will give you at least 30 per cent more days of service a year than an ordinary tractor. It is able to work when round wheel tractors are forced to be idle because they sink down in mud, etc.

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One Man Plows 10 Acres a Day.



One Man Does 30 Acres a Day.



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Ready For Work
On Your Farm
Low Price

Burns Kerosene

Great Combination Sale of

SHORTHORNS AND CLYDESDALES

By Public Auction at
Saskatoon, Sask.

ON
FRIDAY, JANUARY 12th, 1917
(Sale to begin at 11 A.M.)

At the time of the Breeders' Meetings.

The Clydesdales will be offered by Hon. W. C. Sutherland, of Saskatoon, and the Shorthorns by Hon. Duncan Marshall, of Olds, Alberta, and Yule & Bowes, of Carstairs, Alberta.

80 Shorthorns Bulls and Females **20 Clydesdales** Fillies and Stallions

A splendid lot of horses and cattle will be sold.

H. C. Teller,
Farmington, Minn., Auctioneer.

Hon. W. C. Sutherland
Hon. Duncan Marshall
Messrs. Yule & Bowes

WHEN WRITING TO ADVERTISERS PLEASE MENTION THE GUIDE

DAIRY PROGRESS IN MANITOBA

The year 1916 has been a very satisfactory one in Manitoba dairying. The crop report of the Department of Agriculture shows the total value of dairy products marketed within the province during the year to have been almost four and one half million dollars, the value being placed at \$4,482,288. This shows an increase over last year of more than 16 1/2 per cent. Part of this increase in value arises from the higher level of prices and part of it from the greater amount of dairy products produced. The growth in creamery production is particularly gratifying, the 1916 creamery butter make totalling 6,574,510 pounds, showing a growth in quantity of almost 13 per cent. as well as two cents higher selling price. The price quoted this year is 31 cents, which is worked out on the known figures for several representative creameries at country points, and does not consider the city retail figures at which much of the butter of the centralized creameries is sold. It is felt, therefore, that the figures quoted are very conservative.

Growth in dairy butter production, while welcomed as an indication of increased dairy enterprise, is always checked by the fact that when dairy interest develops in any district up to the point where a creamery can operate, the establishment of a factory is encouraged. Dairy butter this year has found an unusually active market, and the quoted average price of 25.2 cents to producers finds its corroboration from various sources. Cheese making shows an increase in volume of over 21 per cent. with 20 per cent. of a boost in price.

POTATO GROWING IN MANITOBA

According to the official December crop report of the Manitoba Department of Agriculture, the potato crop of Manitoba is steadily increasing in acreage. Between 1909, with 28,265 acres, and 1915, with 67,343 acres, the yearly advance was unbroken. This year showed an acreage slightly smaller than last year, but with a larger yield per acre, and a total crop of 9,080,602 bushels as compared with an average total for the ten previous years of 6,661,947 bushels. Altho the yield per acre is below the average of 165.9 which prevailed for the previous ten years Manitoba has this year been an active exporter of potatoes at good prices.

SALE AT SASKATOON

On Friday, January 12, during the Saskatchewan Livestock Conventions at Saskatoon, Sask., a combination sale of Shorthorns and Clydesdales will be held. The Shorthorns are being contributed by the Hon. Duncan Marshall, Olds, Alta., and Yule & Bowes, Carstairs, Alta., and the Clydesdales by the Hon. W. C. Sutherland, Saskatoon, Sask. There will be 80 head of Shorthorn bulls and females and 20 head of Clydesdales, stallions and fillies. H. O. Teller, Farmington, Minn., who conducted the recent \$50,000 combination sale of Shorthorns and Clydesdales at Calgary, will be the auctioneer.

SMALL STUDS SUCCESSFUL

It is a common complaint at fairs that it is next to impossible for the "small" breeder, the man who shows one or two animals, to successfully compete against the "big man," or the professional breeder who makes it his business, part of his advertising campaign, to exhibit at all the important fairs. Fair managements have always been confronted with this difficulty and many now are adopting ways to overcome it with a greater or less measure of success. There would seem, however, to be no sound grounds for complaint, at least so far as Percheron breeders are concerned, in view of the following facts just published by Wayne Dinmore, secretary of the Percheron Society of America. In part he says nearly all the Percherons in the United States are being bred by men who have small studs ranging from two to ten mares.

Success of Small Studs

The success of these small breeders is particularly interesting. At the Iowa State Fair the first prize two-year-old stallion headed a ring of more than twenty, all high class two-year-olds. This horse was bred by a small breeder near Lewistown, Ill., who has four or five mares and who, in his desire to breed high class draft horses went to the expense of purchasing a stallion for his own use. The first prize yearling stallion, also winner of the

futurity class, at the Iowa State Fair, in a ring of twenty-two stallions, was bred by a small farmer near Amboy, Ill., who only owns ten or twelve mares. The first prize yearling filly at the Iowa State Fair, also winner of the futurity stake, was bred by a small breeder near Morning Sun, Iowa, who owns but a small band of mares, and who, furthermore, was making his first exhibit at the Iowa State Fair.

Ohio Fair Winners

At the Ohio State Fair the first prize two-year-old stallion was bred by a farmer near Homerville, Ohio, who has only 12 or 15 mares, but who was sufficiently determined to have a good stallion to go out and buy a stallion for his own use. The first prize yearling stallion was bred by another farmer near Polk, Ohio, who has only eight or ten mares. The first prize yearling filly was also bred by a small breeder near Tappan, Ohio.

The yearling stallion and yearling filly just referred to were winners of the Eastern Percheron Breeders' futurity, so that six out of a possible eight first prize winners in the two-year-old and yearling classes at these two great state fairs were bred by small breeders who owned only enough mares to do their farm work, and in all instances the Percheron mares which produced these winners were mares who did their full share of work on the farms where they are kept.

The fact that these colts, bred by small breeders who keep Percheron mares for strictly utility purposes, were able to win over the best colts sent forward by the larger breeding establishments, has especial significance. It shows that numbers are not necessary to success, and shows that the small breeder who is a good judge of horses can, by exercising care in the selection of his foundation stock, and by breeding to sires of approved type, achieve marked success in Percheron breeding. It goes without saying that these colts, all of them, received the best of feed and care, for while none of them were fat, they were all well grown in frame and muscle and showed ample evidence of having received plenty of food from birth. A high class brood mare is a splendid investment on any farm. Bred to a suitable, pure-bred stallion she will pay good dividends over and above the value of farm work she does. It will pay handsomely to spend some of the grain money on a good brood mare or two.

PERENNIAL SOW THISTLE

Speaking at the meeting of the Union of Municipalities for Manitoba in Brandon recently, Prof. S. A. Bedford, chairman of the Provincial Weeds Commission, had the following to say regarding perennial sow thistle:

It is a great mistake to suppose that this weed will not thrive outside of the rich soil belt; we found it just as persistent in the rolling prairies of centre and western Manitoba as it is in the neighborhood of Winnipeg, and unless we get full control of it, the western part of the province will become just as badly overrun as the eastern portion. I fear that very few Western farmers realize what it will mean to them if the perennial sow thistle become generally distributed throughout the West. It will necessitate that all fields be summerfallowed every third year at least, and these fallows will have to be kept perfectly black all summer and fall. Not a single leaf of the thistle must be permitted to appear above the ground, and even harvesting and threshing operations may have to be suspended to allow the men and teams to work at the fallows. It may mean that in a wet season it will be found impossible to keep these weeds destroyed. Careless farmers, particularly those on rented farms, will allow their land to become breeding places for these weeds, and the seeds will spread from these centres into every portion of the West. At the present time some of the municipalities have only a few patches of these sow thistles and now is the time to eradicate this pest before it gets a firm hold. Once firmly established in patches of scrub or bush, along the shores of ponds or streams, nothing you can do will drive them out, and the light downy seed will fly everywhere. Every fully matured seed will germinate. During an unfavorable season your grain may not germinate above fifty per cent., but every ripe sow thistle seed will grow.

POULTRY

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Red cockerels a light, each. Box 83, Kross.

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white spring pigs of choicest breeding. Alta.

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