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something worth while there.

of damage by pasturing so close that it requires ducing the yield from year to year until 1905, French weed and shepherd's purse have become weeks to have the crop again make a start. when the average wheat yield in the Red River practically free from these pests by this method Many farmers now have two or more pasture Valley was not more than half what it had been alone, but particularly if what few plants escape areas and change the stock from one to the when the land was first cropped. The United this treatment are pulled before they go to seed. other at regular and frequent intervals, whether the grass is done or pot. Moreover, they also the grass is done or not. Moreover, they also lated some very valuable data on how to keep practical they immediately begin applying them provide some fodder crop, such as corn, rape, up wheat yields, eradicate weeds and increase to their own farms. millet or late sown grains to meet requirements soil fertility. Many of the farmers of the state Wild oats are not planted in any seed and all late in the season when pasture lands have were making use of this information and some that are in land are prevented from going to dried up.

Canadian Wheat and Flour Exports

Canada, have increased very greatly since as time went on. 1900. Beginning in 1900 with a value of sections and to prevent their occurrence in the about July 30. The land is then immediately \$14,787,373, representing 20,365,392 bushels newer sections of the state, the authorities of the plowed and all thistles are kept below the surof wheat, which includes flour expressed in terms Government Experiment Station determined face of the soil for a month by means of frequent of bushels of wheat, these exports have in- to establish a system of demonstration farms cultivation. About September 1 winter rye is creased with a fair measure of regularity, un- that would embrace every county in the state. sown at the rate of 1³/₄ bushels per acre. The til, in the fiscal year ending March 31st, 1909, they amounted to a value of \$56,120,255 from Six of these farms were established in the next year the rye is cut in mid-July, when thistles spring of 1906 in as many different counties. The as have survived the former year's adverse treatthey amounted to a value of \$56,139,355 from wheat crops produced on these farms that season ment are again at their weakest. The land is 57,103,457 bushels of wheat (flour included) were considerably above the average of the immediately plowed and no green shoots are alexported. This is the highest mark yet surrounding farms. The farmers in the vicinity lowed above the surface of the ground during reached, both in bushels and value. It will of each demonstration farm watched these ex- the remainder of the season. By these means be noticed that values have increased more periments very closely, and they were very practically all these pests are destroyed and a than bushels, on account of rise in prices. vantage. Each year the crops on these farms be- methods of eradicating wild oats, Canada thistles While the number of bushels exported increased came much better; the past season the wheat yields and sow thistles are also very quickly taken up to nearly threefold, the value was almost four on the original six farms averaged over 26 by the farmers who see such methods worked times as great in 1909 as in 1900.

the United States. A considerably larger pro- these farms. The following year the manager of tural methods are generally quite different from tion usually goes to other countries not in- each farm seeds his own farm with the seed grown what they have left behind. The new country cluding Great Britain, but Great Britain re- upon the demonstration farm plots. His neigh- always has a great many new problems for the ceives, on the average, nearly 90 per cent. bors from far and near want some of this seed settler to solve, such as the best time and depth of the whole.

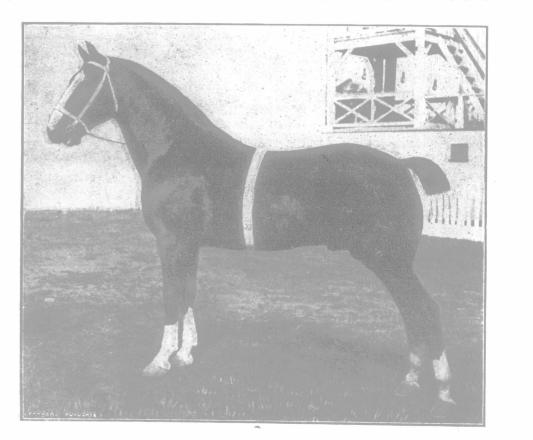
North Dakota Demonstration Farms

settled in the late seventies and early eighties. varieties instead. It was almost immediately put under the plow. The eradication of weeds is a vital problem in clover, brome grass and timothy will do well. The harvests were very abundant, the average nearly all sections, and this is taken in hand on As a rule, he has but little money, little experiyield of wheat being between 25 and 30 bushels these farms. Land that is infested with annual ence, and a large family to support, so he cannot per acre, and 40 bushels was quite common, even weeds, such as yellow mustard, French weed, make these experiments for himself. The state, on large areas. During the first ten or fifteen pigweed, sunflowers, false flax, shepherd's purse, by means of demonstration farms, can answer all years all the farmers had to do was to seed etc., is harrowed frequently in the spring to start these questions for the new settler in such a way wheat in the spring, cut it at harvest and pre- all these weed seeds that is possible. Later he cannot fail to understand the answer. pare the land for another crop of wheat. But applications of the harrow kill the young plants The local papers always like to receive and print astime went on many weed pests were introduced, that have germinated. After the grain is up the any material on their demonstration farms. If

keep all stock off the pasture land until there is thistle, sow thistle, wild oats and quack grass. destroys nearly all the weeds that have previously The fungus diseases which cause smut, rust, root germinated and causes still others to germinate

bushels of wheat per acre, and no field fell below successfully.

A small percentage of these exports is sent to a United States A considerably larger and barley are seeded upon settlers have to learn many things, as the agriculfor their own farms, as they can readily see it is to break the sod, the best crops to seed and the pure and superior to scrub varieties so generally rate to seed per acre. The new settler wants grown. . In this way each demonstration farm to know the best methods of conserving soil rapidly causes the farmers in its vicinity to quit moisture in his fields-on this alone may mean The Red River Valley in North Dakota was growing scrub grains and grow the best pedigreed his ultimate success or failure. He wants to



Later in the season, too, there is danger blight, etc., became more prevalent each year. In two or three years, fields that are badly in-These enemies of the wheat plant were re- fested with such weeds as yellow mustard

Founded 1866

of them were growing as large crops of wheat seed in such crops as corn, winter rye and late as they did when the land was first broken up. barley. These crops are followed one after an-But such farmers were the rare exception, as the other, and as wild oats seed will not stay in the great majority of farmers were still using the ground more than three years without being de-Exports of wheat and flour, the produce of single crop system with less and less profit stroyed, this pest is readily controlled by this means. Canada and sow thistles are cut in a hay

quick to copy methods that were to their ad- paying crop is produced each' season. These

know what forage crops, such as alfalfa, corn,

such as yellow mustard. French weed. Canada weeder is used at intervals of seven to ten days, this is well written up and contains practical suggestions for farmers in the community which have been worked out by the experiment stations. it places such facts where they will do the most good, as few farmers fail to read their local papers.

The first six demonstration farms established

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CHAMPION HACKNEY IN ONTARIO - AT REST

in North Dakota have proved so practical in bet tering farming conditions generally, that the number has been increased to twenty-one, and several more are being put in operation this spring. W. R. PORTER, Superintendent.

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A new collar should lie in water till thoroughly soaked before it is put on, and then it will shape itself to the shoulder. Where changing from pads to naked collars, it might be well to change during the slack time so that the shoulder may toughen before getting sore. A collar should always be hard, never soft.

An officer of the Royal College of Veterinary Surgeons says it is easy to tell a horse's character by the shape of his nose. If the profile has a gentle curve, and at the same time the ears are pointed and sensitive, the animal may be depended on as being gentle, and at the same time high spirited. On the other hand, if the horse has a dent in the middle of his nose it is safe to set him down as treacherous and vicious. horse with a slight concavity in the profile will be easily scared and need coaxing, while one that droops his ears is apt to be both lazy and vicious.