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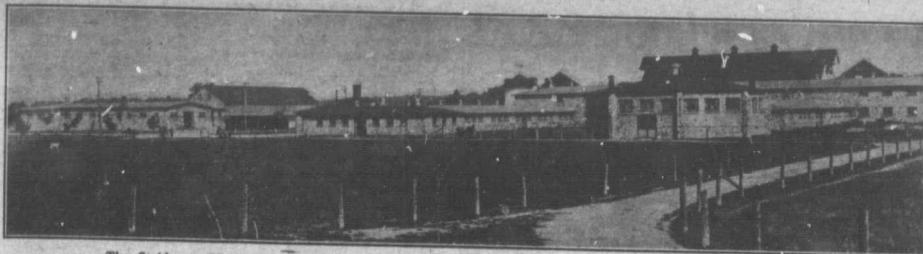
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The Stables at Macdonald Are Fire Proof. In Front is the Circular Judging Pavilion. Storage Barns in the Rear.

Dairy Cattle Breeding at Macdonald College

THE splendid work being done at Macdonald College, Quebec, in the breeding of dairy cattle by Prof. H. Barton and his assistants was revealed to the members of the Canadian Ayrshire Cattle Breeders' Association on the occasion of a recent visit to the college on the day following the annual meeting of the association held at Montreal. The members were taken to the stock judging room, where for upwards of an hour Prof. Barton had animals belonging to the herd brought out for inspection. The herd is a large one. It comprises some 65 Ayrshires and 33 Holsteins, as well as a number of milking Shorthorns and French-Canadian cattle.

In his remarks to the visiting cattle breeders, Prof. Barton emphasized the point that no attempt was made at the college to obtain large records. The breeding of the animals for constitutional vigor is considered even more important. Nevertheless, every animal in the herd is expected to reach a standard of production which should ensure a good margin of profit above the cost of feed. Heifers, more particularly Ayrshires, are not bred too young, and cows are allowed a reasonable rest between milking periods. The record of the herd of 65 milking animals of all ages, including Ayrshires, Holsteins, French-Canadians, and milking Shorthorns, for a ten-month milking period is 8,673 pounds, testing 3.8 per cent.

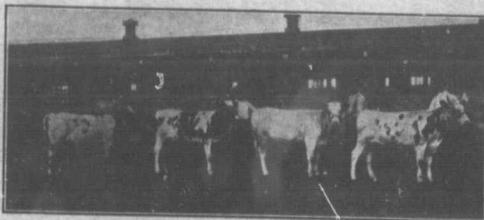
Prof. Barton's Ideal Production

As regards the herd of Ayrshires, Prof. Barton stated that his aim is to obtain a herd that will average 10,000 pounds of milk a year and drop a calf each year. They are reaching the goal, for last year the 30 Ayrshire cows and heifers averaged 9,356 pounds of milk, with an average test of 3.8 per cent. of butter fat. The highest record was one of practically 13,000 pounds.

Prof. Barton first had his assistants lead in the herd bull, "Burnside Lucky Cavalier." This bull, a noted prize winner in the showing as a youngster, has developed into a bull of grand proportions. He has retained his true Ayrshire and dairy type. Mr. R. R. Ness announced that the dam of this bull had completed a record a few days before of only a few pounds less than 17,000 pounds in the year. The sire of this bull was a champion at the Chicago Dairy Show. Lucky Cavalier looked just about fit for the show ring as he was. He is three years old. The last time he was on

the scales he weighed 1,760 pounds.

There were next led out five mature Ayrshire cows, five three-year-old heifers that had dropped their second calves, five heifers that had dropped their first calves last fall when they were nearly three years of age, and five Canadian-bred heifers, all sired by the former herd bull, "Robin Adair." The impression made as these animals were led in and out of the ring was a most favorable one. The uniformity of type throughout



Ayrshire Heifers of Macdonald College Breeding.

was so pronounced as to show that Prof. Barton had an ideal in mind, and that he has been breeding it so closely and consistently. Without exception the animals showed great constitution, vigor and splendid milking capacity. They were straight in the back, deep, and carried exceptionally fine udders. It would be a difficult matter to obtain a more uniform lot of cattle in one herd anywhere.

In the first class of Ayrshire cows was included "Pearl's Robin 2nd of St. Annes, record 12,798 pounds milk; Maude 2nd of St. Annes, 11,505 pounds; May Robin of St. Annes, 11,478



Calves at Pasture. Four Breeds are Represented Here.

pounds; Primrose 2nd of St. Annes, 11,160 pounds; and Bluebell Robin of St. Annes, 8,861 pounds.

After seeing these animals the breeders present agreed with John McKee, of Norwich, and Secretary Stephen, of Huntingdon, when they stated that Prof. Barton was doing more for Ayrshire cattle at Macdonald College than was being done at any other college on the continent. Prof. Barton is now working to find the cost of producing milk from the different animals in the college herd, and in due time expects to have some important results to announce, that will throw more light on production cost.

Among the Ayrshires deserving special mention was a heifer with a record of over 10,000 pounds, a heifer imported from Sweden, and a couple of three-year-olds that were giving over 40 pounds of milk a day, having been fresh since last fall. Seven lusty, thrifty senior heifer calves, all by "Robin Adair," showed that this bull had proved himself a valuable sire while in the college herd. He died recently. Two fine senior bull calves received considerable attention.

The older of the two weighed 600 pounds and the younger 535 pounds.

Some Fine Holsteins

A nine-year-old Holstein bull with 17 officially tested daughters, and a young Holstein bull from Dr. Harwood's herd, and out of a dam that gave 14,000 pounds of milk in six months, were favorably commented upon, as was a grand type of the milking Shorthorn bull.

Four Holstein cows were led out. They were fine large animals, and had records last year ranging from 9,993 pounds to 14,450 pounds of milk in a year. One had a record of 88 pounds of milk in a day, and another of 106 lbs. in a day. One animal during one lactation period had given almost 20,000 pounds of milk. Prof. Barton stated that he expected to still further strengthen the Holstein herd. He does not stick so hard for type in Holsteins as in Ayrshires, but always looks for good individuals just the same.

Five fine Holstein heifers were also produced. He breeds Holstein heifers a little younger than the Ayrshires.

Five type, thrifty, milking Shorthorns were produced. They filled the eye most satisfactorily. One cow, 14 years of age, had a record of over 13,000 pounds of milk in a year. Two much younger animals had records of over 7,000 pounds each. They combined the beef and dairy type to an unusual