

better results than certain other types, and in some instances the less costly types produce the best results. That experiment has been going on for quite a number of years. It is sometimes difficult for those who are carrying on the experiments to prove their results in competition with high-powered salesmen who are selling other types of machinery.

Mr. NICHOLSON: I wonder whether in any of these experimental farms there are fields sufficiently large to enable a computation to be made of the cost of producing wheat on, say, a quarter-section?

Mr. GARDINER: The size of the farm at Indian Head is approximately 1,500 acres, and of the farm at Swift Current, about 2,000 acres, and of course it is possible to carry on experiments there as to the expense of operating, say, a quarter section of land. But that work is being handled in an experimental way. I doubt very much if one could take the information which is available and conclude that the same standards are applicable to an ordinary farm. I drive constantly past a rented farm which forms part of the Indian Head experimental farm. It was operated for many years by a man named Patterson; I do not know whether it was his original home-stand, but he lived there as long as I can remember and many years before. I was acquainted with the area. For a number of years he has rented that property to the experimental farm and it has been run as a farm unit, but a great deal of experimental work has been carried on alongside the growing of grain crops and field silage.

Mr. NICHOLSON: Has the minister any information as to the cost of operating with a diesel caterpillar compared with a gasoline tractor?

Mr. GARDINER: The Swift Current farm has been specializing in costs of operating diesel and other tractors, as well as farm machinery generally. Pamphlets giving that information are published by the department and can be obtained by any hon. member.

Mr. FAIR: Did I understand the minister to say that Yorkshires are the only type of hogs being kept on the central experimental farm at the present time?

Mr. GARDINER: Yes.

Mr. FAIR: May I ask, then, what was the result of the experiments some time ago with Landrace hogs?

Mr. GARDINER: I believe that information will be found on *Hansard* in the morning. My hon. friend may not have been here, but I have already given it twice this evening.

Mr. BLACK (Cumberland): What progress has been made by the department in encouraging the raising of beef cattle in the maritime provinces? I understand that certain districts have been proposed for the raising of beef animals and that the department is offering some encouragement to those districts.

Mr. GARDINER: There is not a beef herd at the Amherst farm in Nova Scotia. The herd there is a dairy herd. The herd at Kentville is a general purpose herd, and cannot be called a beef herd; it consists of general purpose shorthorns, a milking strain. I cannot say that we are encouraging, with either of these herds, a straight beef type of cattle. But there have been some experiments carried on in feeding beef cattle at these farms. I have not before me information as to the results of these experiments, but it is in print and can be had by any hon. member who is interested.

Mr. BLACK (Cumberland): I understand that the department has made proposals to certain areas that they specialize in the raising of beef animals. Quite large districts in the maritime provinces are involved. I should like to know, if that is the case, what preparations have been or are to be made, how the work is being undertaken, whether by the department or through individual or community stock raisers, and what progress has been made.

Mr. GARDINER: A survey is being carried on in the maritime provinces to determine areas that may be suited to the production of beef cattle. That survey will be continued.

Mr. BLACK (Cumberland): No appropriation has been made?

Mr. GARDINER: No special appropriation, but the survey is being carried on along with the general activities of the department.

Mr. FAIR: I have been here since eight o'clock, and I should like to get back for just a moment to the hogs. Possibly we are in good company in that line. While the minister has already given two explanations, I have not been able to hear what those explanations were. I am waiting to see what *Hansard* says in the morning. Although the minister may have given a very short explanation, I believe some hon. members are quite interested in the experiments which are being carried on in connection with Landrace hogs.

Mr. GARDINER: I cannot of course guarantee that my hon. friend is going to hear me this time. I have already given a rather lengthy statement on the matter. The Landrace hogs were brought some years ago