

Hon. Mr. HORNER: With your lower area do you think you can control the grasshoppers? I think they will clean the crop anyway.

Dr. BARTON: It will be a hard battle, but we think we can save a large proportion of the crop.

Now, the darker shading on this map, with the checking, shows the severe area. This is a map of the three provinces. You will notice that there is a big area in Saskatchewan.

Hon. Mr. RILEY: That is the southern part.

Dr. BARTON: Yes. There is Alberta, which conducted a very good campaign last year, and here is Manitoba which has narrowed the very severe area very considerably.

Hon. Mr. SHARPE: Will the grasshoppers migrate from one province to another?

Dr. BARTON: Yes. There is a migrating type of grasshopper which is very difficult to deal with.

Now, here is a map of Saskatchewan. The dark red shows the area.

Hon. Mr. RILEY: Are these townships that are shown?

Dr. BARTON: Yes. Here is Manitoba.

Hon. Mr. RILEY: Where is the Alberta map?

Dr. BARTON: Alberta is shown in the large map. We haven't got a separate map of Alberta.

Hon. Mr. BUCHANAN: I read somewhere that the type of grasshopper this year was different. I think it was in Montana.

Dr. BARTON: We have three bad types.

Hon. Mr. BUCHANAN: Is the worst type more in evidence this year than it has been at other times?

Dr. BARTON: I would not say that. The three types are all numerous. There are many more types than these.

Hon. Mr. RILEY: You have the flying type?

Dr. BARTON: Yes, that is one of the three. I saw them in clouds in Saskatchewan.

Hon. Mr. RILEY: We didn't have any of them in our country.

Hon. Mr. SHARPE: We had them in Manitoba.

Hon. Mr. BUCHANAN: The grasshoppers that are in evidence in mild weather were very much in evidence in Alberta. When were they hatched?

Hon. Mr. RILEY: Were they really grasshoppers?

Hon. Mr. BUCHANAN: Oh, yes. We took them over to the government official, but he said they were not related to the eggs deposited last fall.

Hon. Mr. McGUIRE: Apart from destruction of grasshoppers, do you know of any insects that are parasites on them?

Dr. BARTON: Yes, there are parasites. Some have been distributed in the West. There is some evidence of progress in this direction in Alberta.

Hon. Mr. McGUIRE: No doubt the parasite would be greatly increased because of the great increase of the grasshopper.

Dr. BARTON: Yes.

Hon. Mr. McGUIRE: Have you any hope that in that way the grasshopper plague may be controlled?

Dr. BARTON: It seems to be slow. Our people are not as hopeful of the parasites as they are of a combination of other conditions.

The CHAIRMAN: Have we disposed of the grasshopper problem?