

## SUMMARY OF CONCLUSIONS.

1. Bacterial blight of apple, pear and quince trees causes more loss to the pome fruit grower in Ontario than any other agent of loss.

2. *B. amylovorus*, the cause of the disease, lives in the cells of the bark and fruit, the contents of which it destroys, causing withering of the twigs, canker of the limbs and trunk, and rot of the fruit.

3. The disease is spread from branch to branch, from tree to tree, and from district to district—(A) by insects carrying the germ on the outside of their body: (1) bees, wasps and other flower visiting insects inoculating the blossoms; (2) aphids and other sap sucking insects inoculating twigs; (3) fruit bark boring beetles and other borers inoculating branches and trunks; (4) saws, knives and other workmen's tools when pruning operations are in progress.

4. All blighted parts of trees should be cut away as soon as noticed where possible. Systematic cutting out of blighted parts should be practised during late fall. When cutting away an affected part, care should be taken to cut well below or around the blighted area. The instrument used should be disinfected each time after use. Care should be taken not to rub a diseased part against a healthy part when removing it. All diseased wood should be burned as soon as cut away.

5. Aphids and borers, active carriers of the disease, should be kept in check.

Seeing that this year the Government appointed a number of orchard survey men to report on the conditions found in the orchards throughout the Province, we would strongly recommend that for their work next season these surveyors be trained to recognize the blight in its various forms of attack, twig and canker on the apple, pear and quince trees, and be able to give the necessary advice to those immediately concerned as to the proper methods to be adopted in its control and eradication.

In conclusion, we wish to thank, for kind assistance given from time to time during this investigation, Prof. S. F. Edwards of this department, Dr. Bethune, Messrs. Jarvis and Caesar of the Biological department, and Mr. Cooper, the orchard foreman at the College. We wish to thank also all the farmers whose orchards we visited, who were only too willing to answer all questions and to show us around their orchards, even during the busy season when they could ill afford the time necessary.