

METHODS OF CONDUCTING SURVEYS.—Surveys constitute a basic requirement in the development of fundamental studies and the treatment of emergencies. Not only are they indispensable in the timely discovery of incipient outbreaks, but they furnish a systematic inventory of assets as well as liabilities in the rational management of the forest insect fauna. In view of the enormous expanse of territory to be covered, any survey system for intelligence on forest insects must rely on the close co-operation of all parties interested in forest conservation. An efficient organization of this kind has been in operation in Canada since 1936. Practically all the important government and commercial agencies concerned with forestry or forest exploitation take an active part, and extensive use is made of their personnel in the collection of information. The country has been divided into five regions roughly corresponding to some of the natural divisions of the forest. Eventually in each of these a central laboratory will serve as a clearing house for specimens and information received. The complete results for the entire Dominion are collated yearly at the Ottawa headquarters. At present the system is based on the collection of samples of live insects and the submittal of concise, pertinent reports by rangers and wardens. All specimens are reared at the various laboratories receiving them. A wealth of information on insect conditions, heretofore unavailable, has already been collected in this way and has served as a basis for further study and practical application in control operations. An idea of the progress made during the past three years may be gained from a comparison of the number of reports received. This is clearly shown in Statement I.

I.—NUMBERS OF SAMPLES TAKEN FOR THE FOREST INSECT SURVEYS, 1936-38.

Province and Item.	1936.	1937.	1938.
MARITIME PROVINCES—			
New Brunswick Forest Service.....	Nil	210	611
Nova Scotia Department of Lands and Forests.....	"	34	46
Private companies.....	"	195	145
TOTALS, MARITIME PROVINCES.....	Nil	439	802
QUEBEC—			
Quebec Forest Protection Service.....	33	1,266	1,149
Private companies.....	147	526	426
Forest Protective Associations.....	37	362	410
TOTALS, QUEBEC.....	217	2,154	1,985
ONTARIO—			
Ontario Forestry Branch.....	222	561	992
Private companies.....	8	39	63
TOTALS, ONTARIO.....	230	600	1,055
PRAIRIE PROVINCES—			
Manitoba Forest Service.....	1	1	65
Saskatchewan Department of Natural Resources.....	2	24	22
TOTALS, PRAIRIE PROVINCES.....	Nil	25	87
BRITISH COLUMBIA—			
British Columbia Forest Service.....	Nil	109	345
National Parks Branch.....	"	63	77
TOTALS, BRITISH COLUMBIA.....	Nil	172	422
Dominion Division of Entomology.....	36	215	644
Other Dominion Departments.....	13	16	21
Miscellaneous co-operators.....	29	82	101
GRAND TOTALS.....	528	3,703	5,117