

2,600,000 sq. miles are now available in the National Air Photographic Library of the Department of Mines and Technical Surveys and about 145,000 sq. miles of forest have been mapped and classified from the photographs by the Forestry Branch.

Forest Products Research.—There are two Forest Products Laboratories in which research is conducted, one at Ottawa, Ont., and the other at Vancouver, B.C. The purpose of this research is to supply the basic and practical knowledge required for the best possible utilization of Canada's forest resources. Such research includes studies of the factors affecting the quality of wood and of manufactured wood products; the factors causing wood waste in logging and manufacturing; the mechanical, physical, and chemical properties of wood and their relation to adaptability in use; the treatment of wood and its use in the manufacture of fibre products, alcohol, turpentine, etc.; new and more valuable uses for woods; and the application of laboratory findings to the standardization of lumber grades and the improvement of timber specifications in the building codes of Canadian cities. As the nature of the problems requires, the Forest Products Laboratories co-operate with similar organizations in other countries, with the provinces and with industry.

The Pulp and Paper Research Institute of Canada at Montreal, Que., a corporation supported by the Federal Government, the Canadian Pulp and Paper Association and McGill University, carries out research in the field of pulps and papers. The program of work includes studies of the structure and properties of wood and bark and their chemical components; the improvement of pulping processes; studies for the improved utilization of waste products; and the improvement in the design of industrial equipment.

More detailed information on forest-products research may be found at pp. 994-995 of the 1940 Year Book.

Forest Entomology.—The study of forest insect problems in Canada is entrusted to the Forest Insect Investigations Unit of the Division of Entomology, Science Service, Department of Agriculture. Eight main laboratories are maintained and in addition four sub-laboratories and a number of permanent and temporary field stations and camps.

At pp. 389-400 of the 1947 Year Book a special article dealing with "Noxious Forest Insects and Their Control" appears.

The Forest Insects Control Board.—The Forest Insects Control Board operates under the Department of Resources and Development and is composed of nine members representing the Federal and Provincial Governments and the pulp and paper industry. Its purpose is to advise the Minister of Resources and Development as to the methods for controlling and destroying insects injurious to the forests of Canada and the means to be taken for the prevention of loss and damage from the attacks of such insects.

Forest Pathology.—In Canada investigations in forest pathology are carried on by the Federal Government in the Division of Botany and Plant Pathology, Science Service, Department of Agriculture. In addition to the staff at Ottawa, field laboratories are maintained at Fredericton, N.B., Toronto, Ont., Saskatoon, Sask., and Victoria, B.C. The Province of Quebec also maintains its own forest pathology service.