

maintaining Canada's primary standards of length and mass. Highly precise calibration and standardization measurements are also made for government departments and industry.

Nearly 3,000 persons, including about 1,200 at Chalk River, are employed by the Council.

## Section 2.—Other Scientific and Industrial Research Facilities

Aside from the work of the National Research Council, which is the central national organization for research, research is carried on by the Departments of Agriculture, Mines and Technical Surveys, Fisheries, the Board of Grain Commissioners and the Dominion Observatories. These bodies have trained permanent scientific staffs for investigation and research in their own fields such as soil problems, crops, breeding and testing of animals, processing and marketing, extractive and physical metallurgy, silvicultural and forest products, hydrography, ocean and mollusk fisheries, etc. The research and experimentation carried on by the Science Service is outlined in the Agriculture Chapter. The work of the Experimental Farms System is described at pp. 349-352 of the 1948-49 edition of the Year Book. Specialized work in scientific forest research is described in the Forestry Chapter.

The Board of Grain Commissioners employs a staff of seven chemists and 21 assistants in the main research laboratories for milling, baking, malting, etc., while the Dominion Observatories carry out research in the fields of solar physics, astrophysics, seismology, terrestrial magnetism, gravity and other studies.

Universities often show bold initiative in exploring the field of scientific research but with the limited facilities at their disposal the task of carrying their discoveries to a conclusion is not always easy. Government and industrial laboratories are often able to pick up and carry on where the universities leave off.

A number of research foundations have their own special fields of research. The Ontario Research Foundation at Toronto, Ont., established in 1928, is an independent non-profit-seeking scientific organization available to the public and to industry for assistance in matters of a technological character.

The Banting Research Foundation supports the work of the Banting and Best Chair of Medical Research in the University of Toronto and aids medical research throughout Canada.

The Rockefeller Foundation assists various agencies in Canada in the furtherance of scientific research in medical science, natural science, social science and public health.

A detailed account of scientific and industrial research in Canada is given at pp. 979-1012 of the 1940 Year Book. This has been revised to cover developments to 1947 and is available in reprint form from the Dominion Statistician.