

includes the following Branches: (1) Experimental Farms; (2) Dairy and Cold Storage; (3) Health of Animals; (4) Live Stock; (5) Seed; (6) Entomological; (7) Fruit; (8) Agricultural Economics; (9) Publicity and Extension; and the Departmental Library.

**The Dominion Experimental Farms.**—The Dominion Experimental Farms Branch comprises the Central Experimental Farm at Ottawa, twenty-five branch farms and stations, seven sub-stations and several stations which carry on special work. A list of Dominion Experimental Farms and Stations was given at p. 247 of the 1934-35 Year Book.

At the Central Experimental Farm at Ottawa, the headquarters of the system, are located the office of the Director and thirteen Divisions, each under the control of a Divisional Chief. Briefly the main lines of work are as follows:—

*Animal Husbandry.*—Demonstrational, experimental and research work in the breeding, feeding, housing and management of farm animals and in the handling of live-stock products on the farm constitute the chief activities.

*Bacteriology.*—Problems of milk sanitation, soil fertility and food spoilage receive major attention. Bacteriological examinations of water, milk, foods and feeding stuffs and soils and the preparation and distribution to farmers of cultures of legume bacteria for seed inoculation are other phases of this Division's work. It also conducts research in co-operation with other Divisions on problems having a bacteriological bearing.

*Bees.*—This Division conducts experiments in breeding, swarm control, wintering, colony manipulation and other phases of practical beekeeping. It also makes extensive studies relating to the keeping qualities of honey, fermentation, and honey storage, as well as inspecting honey for the export market.

*Botany.*—The Botanical Service comprises a central laboratory at Ottawa for the study of general problems in economic botany and plant diseases, and ten branch laboratories in the various provinces for the study of special and local problems. Major lines of work include the study of cereal diseases, fruit diseases and the inspection and certification of potatoes for seed. The Division also conducts a Dominion-wide weed survey and supervises the importation of plants and plant products.

*Cereals.*—The primary function of this Division is the production of superior varieties of the commonly grown grains by a process of breeding and selection. The most important problem at the present time is the development of a variety of hard red spring wheat resistant to stem rust. Efforts in this direction are centred largely at the Dominion Rust Research Laboratory, Winnipeg. Some of the many other activities of this Division are the investigation of varieties of grain for which a licence has been requested in accordance with the Canada Seed Act, the encouragement of the use of good seed of adapted varieties, the conducting of verification tests to determine the genuineness and purity of seed stocks and the investigation of special problems which have a bearing on cereal breeding and development work.

*Chemistry.*—Investigational and research work toward the solution of problems affecting Canadian agriculture and direct assistance to farmers and others are the two chief phases of work of this Division. Chemical examination of food products, insecticides, fungicides, fertilizers and well waters and studies in cereal chemistry, animal nutrition and pasturage are a few of the Division's many activities. It also renders chemical assistance to other branches of the Government Service.