

The Divisions at Ottawa, which represent the different lines of work carried on throughout the system, and which have each a technical officer in charge, are as follows:—(1) Animal Husbandry; (2) Bacteriology; (3) Bees; (4) Botany; (5) Cereals; (6) Chemistry; (7) Extension and Publicity; (8) Economic Fibre Production; (9) Field Husbandry; (10) Forage Plants; (11) Horticulture; (12) Illustration Stations; (13) Poultry and (14) Tobacco. Briefly the main lines of the work of these Divisions are as follows:—

*Animal Husbandry.*—This Division engages in work with beef cattle, dairy cattle and dairying, horses, sheep and swine, and undertakes experiments in the breeding, feeding, housing and management of each of these classes of live stock. Under this Division also is operated the work in breeding cattle and hybrid buffalo at Wainwright, Alberta.

*Bacteriology.*—The work of this Division is of two types, routine and research. The former includes the bacteriological analysis of water, milk, foods and feeding stuffs, soils and soil condiments, and the manufacture and furnishing of nitro-cultures for legume growing. The main work is of an investigational nature, in which close co-operation with the other Divisions is maintained in research work having a bacteriological bearing.

*Botany.*—The work of this Division falls into two classes, economic botany and plant pathology. The former includes the study of medicinal, poisonous and economic plants. Different varieties and strains of fibre plants are also studied and special attention is given to the life history and control of weeds. The Division also has charge of the arboretum at the Central Farm. In plant pathology, in addition to the pathological laboratory at Ottawa, there are laboratories at Charlottetown, P.E.I.; Kentville, N.S.; Fredericton, N.B.; Ste. Anne de la Pocatière, Que.; St. Catharines, Ont.; Brandon, Man.; Indian Head, Sask.; and Summerland, B.C. In addition, two large laboratories for the study of rusts and other grain diseases are maintained at Saskatoon, Sask., and Winnipeg, Man. Investigations are being conducted into diseases affecting forest trees, fruit trees, cereals, small fruits, potatoes, vegetables and tobaccos.

*Cereals.*—In the Cereal Division, the work comprises the production, by cross-breeding and selection, of new varieties of grains and the testing of these as to their suitability for various parts of Canada. Approved varieties are grown on a larger scale and distributed to farmers. Among the more recent varieties produced in this Division and now widely grown in Canada are the Arthur pea and the Huron, Marquis and Prelude wheats. Two interesting varieties originated by this Division are the Garnet and Major wheats, now being introduced, ripening not quite as early as Prelude but yielding better. The Division also carries on extensive milling and baking tests. The expansion of breeding work, especially for disease resistance, and the creation of an extensive plan of co-operative experiments with farmers, are two developments of the past year.

*Chemistry.*—The work of the Division of Chemistry comprises the analysis of fodders and feeding stuffs, fertilizers, soils, well waters, insecticides, fungicides, etc. It also assists other Divisions in chemical problems and does a large amount of analytical work for other Branches and Departments. Field tests with various kinds and quantities of fertilizers are carried on by this Division at a number of the branch farms and stations.