

improved seed cleaning machinery. Encouragement is also given the development of suitable centres of production of pure variety, hardy, northern-grown seed for domestic use and export trade. The Division supervises the work of inspecting these crops and the issuance of crop certificates certifying purity of variety, type or quality, and the grading and sealing in containers of the seed derived therefrom. Seed crops are also inspected by Seed Branch inspectors for the Canadian Seed Growers' Association, a national organization of farmers who specialize in the production of registered seed.

The Feed Division.—The work of this Division has to do with the Feeding Stuffs Act, an Act to regulate the registration, sale, importation and inspection of commercial feeding stuffs, bran, shorts, middlings and chop feeds, to provide for a proper standardization of feeding stuffs, and to prevent the use and distribution of vital and deleterious weed seeds therein; also the Hay and Straw Inspection Act which provides for the uniform grading of hay and straw under grade names established by law.

The Markets and Fertilizer Division.—This Division engages in work in connection with the Fertilizers Act, an Act to regulate the registration, importation and sale of agricultural fertilizers, lime and other soil amendments and bacterial cultures used to promote plant growth or improve the soil. It also conducts a Market Reporting and Extension Service in connection with the commodities controlled by the Acts administered by the Branch. This work includes the publication of seasonal commodity market reports and the development of markets extension work in collaboration with the Provincial Departments of Agriculture, Canadian Government Trade Commissioners and other agencies.

The Laboratory Division.—This Division maintains a chemical and micro-analytical laboratory at headquarters and a seed laboratory in each Inspection District. These laboratories provide a service of analysis of seeds, feeding stuffs, fertilizers, binder twine, insecticides and fungicides. Research work is also carried on by the officer in charge in co-operation with the International Seed Testing Association, the Association of Official Seed Analysts of North America, and other Branches of the Department.

The Seed Branch also administers the Agricultural Pests' Control Act, an Act to regulate the Registration, Sale and Importation of Agricultural Poisons, and that provision included in the Inspection and Sale Act which regulates the sale of binder twine.

The Entomological Branch.—The Entomological Branch conducts investigations on insects in relation to agriculture and forestry, encourages the use of methods of prevention and control, and administers the insects and pests section of the Destructive Insect and Pest Act. In addition to the Administrative Division, under the immediate direction of the Dominion Entomologist, other Divisions have been established as follows:—

Field Crop and Garden Insects.—The Division of Field Crop and Garden Insects is concerned with investigations relating to the control of insects affecting field and vegetable crops. Studies are conducted chiefly at permanent laboratories maintained at Fredericton, N.B.; Hemmingford, Que.; Ottawa, Strathroy and Chatham, Ont.; Brandon, Man.; Saskatoon and Indian Head, Sask.; Lethbridge, Alta.; and Vernon, B.C.

Investigations in course of study include the forecasting of insect outbreaks; surveys to determine extent and urgency of control operations required under