

The Research Institutes are organized on a scientific rather than a problem basis and are engaged primarily on basic research of wide application to agriculture. They also carry out related national work such as the identification of plants, insects and pathogens. There are seven Institutes at Ottawa and one each at London and Belleville in Ontario.

The *Animal Research Institute* covers the fields of genetics and breeding, nutrition, physiology, biochemistry and management, and tackles problems in the production of milk, beef, lamb, pork, poultry, eggs and fur. Plant studies are carried out at the *Plant Research Institute* in taxonomy, physiology, biochemistry, pathology, agrometeorology, weeds, and fruit and vegetable processing and storage. Cytological and genetic studies on cereal, forage, tobacco and horticultural plants are made by the *Genetics and Plant Breeding Research Institute* with special reference to problems encountered in the breeding programs and the assessment of quality characteristics. The *Soils Research Institute* studies genesis and classification, fertility, mineralogy and the organic, physiochemical and physical aspects of soils. This Institute gives leadership to the federal-provincial soil survey program through classification studies and by developing and standardizing analytical methods. It also provides a national soil-mapping service. A major section of the *Entomological Research Institute* deals with taxonomy, other assignments being in the fields of genetics, physiology, nematology and apiculture. The Institute assembles and maintains the national collection of insects. The *Microbiological Research Institute* is mainly concerned with metabolism, nutrition and genetics of bacteria of agricultural significance. The *Food Research Institute* conducts basic research on the characteristics of plant and animal products affecting food quality. The development of new principles of food processing and studies related to dairy technology are of major interest.

The *Pesticide Research Institute* at London examines chemicals used or intended to be used for insect, disease or weed control and investigates the reason for and the nature of the biological activity of the chemical. The *Biological Control Research Institute* at Belleville is concerned with efforts to control destructive insect pests and noxious weeds with parasitic and predaceous insects, and with insect disease organisms. It is also the principal importing centre for beneficial insects and for some disease organisms from foreign countries.

The Regional Research Stations and Laboratories cope with primary problems in various regions in all provinces. Other units have undertaken projects assisting in the exploitation of peat bogs, reclamation of marshland for pasture, propagation of shelter-belt trees and prevention of soil erosion, dryland agriculture, the growing of special crops such as tobacco, and livestock breeding.

Production and Marketing Branch.—The Production and Marketing Branch conducts the promotional and regulatory functions of the Department. Its seven Divisions administer legislation and policies in the fields of agricultural production, marketing and control of disease in plants and animals. Three Sections—Markets Information, Consumer, and Transportation, Storage and Retail Inspection—carry on activities in their respective fields.

The *Health of Animals Division* administers the Animal Contagious Diseases Act, the Humane Slaughter of Food Animals Act and the Meat Inspection Act. The Division also operates laboratories for the study of animal diseases. Besides its responsibility in carrying out various disease prevention measures, the Division conducts programs for the eradication of bovine tuberculosis and brucellosis and issues health certificates for livestock entering export trade. The animal pathology laboratories, in addition to their research function, manufacture diagnostic reagents and biological products and provide analytical and diagnostic services for diseases of domestic and wild animals. District laboratories across the country give routine diagnostic and research services. The *Livestock Division* administers legislation dealing with the grading of meat, wool and fur, with the registration of livestock pedigrees, with performance testing of cattle and hogs and with the supervision of racetrack betting. Other activities include the promotion of livestock improve-