

addition, Canada's live stock, crops and trees must be protected from diseases that might be introduced with importations from other countries, or that might originate in Canada.

These protective and grading services are a most important part of the work of the Department of Agriculture. They come under two sections, the Production Service and the Marketing Service, and the necessary authority is gained from about 20 Acts or their regulations. Generally, the protective features and the grading to standards or approval of analyses of farm supplies, such as seeds, feeds, fertilizers and pesticides, come under divisions of the Production Service. The grading of most food products comes under divisions of the Marketing Service. The line of demarcation is naturally not rigidly drawn, the aim being ease and economy of operation. A brief review of this work follows.

Health of Animals.—A most important protective service is the one that guards the health of Canada's live stock. Contagious diseases which could well sweep the country and decimate live-stock numbers, might easily be introduced into Canada from foreign lands. It is to guard against such calamities that veterinarians of the Health of Animals Division enforce the stringent regulations covering the importation of live stock, live-stock products and even packing material and litter. Provision is also made for the control or eradication of animal diseases within Canada. This Division is responsible for the inspection of animals slaughtered for food, and post-mortem examination is made on all carcasses in the course of slaughter and dressing before the meat is approved for human consumption. Sanitary conditions in packing plants and slaughter houses come under review and all canned meats must meet high standards of processing to qualify as food.

Protecting Supplies.—The Plant Products Division is primarily concerned with the administration of Acts respecting feeding stuffs, fertilizers, pesticides, hay and straw, fibre flax and binder twine, and the production of seed in co-operation with the provinces and other agencies.

The inspection services of this Division have three main functions: (1) to enforce the Acts that regulate the sale of the agricultural supplies previously mentioned; (2) to provide as required the services of seed-crop inspection and the sealing of seed produced from inspected and other approved crops; (3) to co-operate with provincial governments and other agencies in promoting and improving supplies of seeds, feeds, fertilizers and pesticides.

Visual inspection is of little value for most of these products and laboratory testing is necessary. This is done by the laboratory services of the Division with branch offices across Canada. In the case of seeds it is quite a complex matter, for they must be tested for germination, variety, purity and freedom from weeds and other kinds of seeds before they are finally graded. All feeding stuffs, fertilizers and pesticides are subject to registration, and this is refused if products would be dangerous in use, if the ingredients or analyses are unsatisfactory, or when the claims made regarding their value are incorrect or misleading.

Plant Protection.—The Division of Plant Protection functions with regard to plants and plant products much as the Health of Animals Division does with animals and administers the Destructive Insect and Pest Act. Imported nursery stock and plant material are all subject to inspection against the introduction of insects and diseases. Extensive inspection is maintained within Canada to identify, localize and exterminate dangerous enemies of crops and trees. Provision is also