

for the dry sections; growth of alfalfa and sweet clover for hay and seed; nurse crops with clover and timothy. Extensive experiments in the feeding of cattle, sheep and swine have been under way for seven years, including both winter feeding and summer pasture work. Other researches have been made on the utilization of the native grasses of Alberta; hay and pasture production; effects of frost on grain; production of alfalfa seed; factors of hardiness in winter wheat; sunflowers; potatoes; seed production; various experiments with cattle, sheep and swine.

A soil survey of the province has been under way for three years, and reports have been published on the Macleod and Medicine Hat areas. Last year the survey was concerned with the wooded areas of northwestern Alberta.

Research work has been undertaken in connection with insect pests, and in the department of dairying.

Regular service by radio broad-casting is now upon the third year of practice, and has proved a very successful method of extension.

British Columbia.

Department of Agriculture.—*Horticultural Branch.*—Extension work is undertaken in the fruit and vegetable growing sections of the province, including the testing of new sprays for insect and disease control, as well as the establishment of trial plots to ascertain the most satisfactory fertilizers for various horticultural crops. In addition, inspection and quarantine work is carried out on nursery stock and in fruit areas as the occasion demands. *Field Crop Branch.*—Potato certification work in co-operation with the Division of Botany, Central Experimental Farm, Ottawa, is being continued and extended and now covers practically all the agricultural sections of the province. Special experimental work in connection with certified seed potatoes is under way this year. Fertilizer experiments are being systematically carried on under the direction of this branch in various parts of the province. Seed growing in several sections of the province is being encouraged in every way possible.

University of British Columbia.—Progress is being made in the clearing and preparation of land for experimental and general farm purposes. About 150 acres are now under crop. Adequate buildings for the various departments are being gradually constructed. In the departments of agronomy and horticulture plant improvement and breeding work have quite rapidly advanced. In the department of animal husbandry a splendid foundation has been laid in the various breeds of live stock, which include Jersey, Ayrshire, Shorthorn and Hereford cattle; Clydesdale horses; Yorkshire, Berkshire and Duroc Jersey swine; Southdown, Shropshire and Oxford Down sheep. Experimental work in feeding and disease control has been commenced. In the department of dairying, good progress has been made in research, particularly with the various kinds of cheese. In the department of poultry husbandry, pedigree stock is maintained for improvement work in Barred Rocks, Rhode Island Reds, White Leghorns and White Wyandottes. The record work already accomplished in this department is of considerable value. In addition to the teaching and investigational work at the university, provision is also made for a number of investigational projects throughout the province. These include dairy farm management, poultry farm management and studies in small fruits and tree fruits.