

Students from the provincial schools of agriculture will enter the second year of the course after satisfying special entrance requirements. At these schools various experiments are in progress as described in the 1920 edition of the Year Book, p. 286. At the College itself numerous agricultural experiments are also being conducted including the following tests: determination as to whether the present varieties of wheat, oats, barley and peas are suitable for the Park Belt sections of Alberta; breeding and selection of promising varieties of wheat for earlier maturity combined with high milling qualities; the testing of alfalfa, red clover, sweet clover and alsike for winter hardiness, and of sweet clover in the Open Plains sections to determine its drought hardiness; varieties of corn and sunflowers for fodder; relative suitability of corn and sunflowers for the Park Belt; selection of a suitable grain corn 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 four years. They include both winter seeding and summer pasture work. Other researches have been made on the utilization of the best 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 start has been made in a definite soil survey of the province, beginning with the soil-blown area of the south.

British Columbia.

Department of Agriculture.—Horticultural Branch.—Horticultural demonstration work of various kinds is being undertaken. This includes work in the control of the strawberry root weevil (*Otiiorhynchus ovatus*), the testing out of various oil and other sprays for the control of fruit pests and diseases. Work has also been undertaken with a view to ascertaining the value of cover crop and commercial fertilizers in keeping up the fertility of the orchard.

Soil and Crop Branch.—The seed potato inspection and certification work started in 1921 by the Soil and Crop Branch was continued and extended during 1923, in co-operation with the provincial plant pathologist.

University of British Columbia.—Further progress has been made with the clearing and preparation of land for experimental and general farm purposes. About 150 acres are now under crop. In the departments of agronomy and horticulture, plant improvement and breeding work have rapidly advanced. In the department of animal husbandry excellent foundation stock has been purchased, consisting of Jerseys, Ayrshires, Shorthorns and Hereford cattle; Yorkshire and Berkshire pigs; Southdown, Shropshire and Oxford Down sheep. The foundation stock in Clydesdales was obtained from Colony Farm, and has now increased to 15. In the department of dairying, good progress has been made in research, particularly with special kinds of cheese. In the department of poultry husbandry, pedigreed stock is maintained for improvement work in Barred Rocks, Rhode Island Reds, White Leghorns and White Wyandottes. In addition to the teaching and investigational work at the University, provision is made in the budget for the carrying out of considerable investigational work throughout the Province.