

## PRODUCTION.

varieties. Approximately a dozen of the standard varieties of grains, such as wheat, oats, barley, peas and corn, are sown each year and an equal number of varieties of potatoes. The same practice is followed in regard to garden vegetables, small fruits, ornamental shrubs and trees. The uses of the hotbed and cold frame are illustrated. Fodder crops are tried as to adaptability to soil and climate, as to methods and rates of seeding, and as to seeding with or without nurse crops. Alfalfa has been subject to experiments in relation to varieties and methods of sowing. Grain plots serve for multiplying as well as for experimental plots, and useful quantities of seed eligible for registration under the Canadian Seed Growers' Association rules have been produced. Trees are cultivated and tested as to kinds and treatment for use in single planting and in certain parts of the province for windbreaks. Important results have already been established in the use of trees as windbreaks for the protection of fruit and general garden plots. Extension work in experiments is organized among students for work on their farms. Each year allotments are made to junior students and reports made in the following year.

**Demonstration Farms Contiguous to Schools.**—Each School is situated on one of the provincial Demonstration Farms, and while the farms and schools are separate branches of departmental administration, there are a number of points of contact between the farm and school. The farms serve as concrete examples of properly managed and balanced enterprises of a type suited to local conditions. The results of experiments on the school plots are applied on the farms. There are seven demonstration farms, but at present only three schools.

**University of Alberta.**—A Faculty of Agriculture has been established at the new University of Alberta, Edmonton South, and about 90 acres of land are available for future experimental work.

## BRITISH COLUMBIA.

**Department of Agriculture.**—Experiments are being carried out by the Live Stock and Horticulture Branches. The Live Stock Branch is conducting one experimental plot of 13 acres, eleven of from 4 to 5 acres and six one-acre alfalfa plots. In the newly-settled districts tributary to the Grand Trunk Pacific, the work consists largely of tests for determining what varieties best suit local conditions. On the other plots, aside from those devoted exclusively to the growing of alfalfa, a rotation system suitable for the district represented is being established. As far as possible the work is carried on in co-operation with the local Farmers' Institute. The Horticultural Branch is operating 16 demonstration and experimental orchards of five acres each. These orchards are planted and cared for under a co-operative arrangement by which the owner of the land and the Department share the expense. The agreements cover a five-year period, but in some cases further agreements are being made. The principal object in most cases is to demonstrate the results which may be secured in various districts by the adoption of the best possible methods. In other cases the orchards are used for experimental tests of varieties and experimental work with cover crops, etc. Three five-acre experimental and demonstration plots are being