

*Animal Husbandry Department.*—This department has charge of the farm proper, consisting of 500 acres, together with the live stock of all breeds and classes maintained for experimental and instructional purposes. The experiments conducted cover practical problems in animal feeding and breeding work with a view to keeping the instruction given and information disseminated abreast of the times. The surplus breeding stock is distributed over the province by means of an annual auction sale held late in October. Increased effort is being put forth to work out a simple system of cost accounting suitable for the average farmer from results of this class of work in connection with the College Farm.

*Department of Apiculture.*—Several races of bees are kept at the College for comparison and for class purposes. Experiments with different types of hives, winter feeding and other points pertaining to successful management of the apiary are carried on. A staff of inspectors visits the apiaries of the province throughout the summer to determine the extent of disease and to put into effect controlling measures.

*Department of Bacteriology.*—Investigational work is carried on in connection with soil bacteria, plant pathogenic bacteria, animal pathogenic bacteria, water and sewage bacteria, bacterial, yeast and mold contaminations of milk, butter, cheese, canned fruits, vegetables and meats. Cultures of legume bacteria for legume seed inoculation are prepared for distribution to farmers, and lactic cultures are prepared for cheese factories and creameries. Samples of farm well water are tested for bacterial contamination, and morbid specimens of plants, poultry and animals are examined and reported on.

*Department of Botany.*—Specimens of weeds, weed seeds and fungous diseases are sent in from all parts of the province for identification and advice as to controlling measures. Experiments are conducted in the control of weeds and fungous diseases, and when outbreaks of diseases are reported these are investigated and measures for eradication taken. Samples of grass and clover seed are examined for impurities. This department co-operates with the Ontario Agricultural and Experimental Union in weed control, and many Ontario farmers avail themselves of the opportunities thus afforded.

*Department of Chemistry.*—A systematic survey of the soils of the province is being made, on which there is based a chemical and experimental study of the various types of soils. Plots for this study are now maintained at the College and on the light sandy soils of Norfolk county. Other plots will be established as fast as suitable locations can be obtained on the distinctive types of soils. Varieties of wheat are milled and the flour tested to determine the baking qualities. A chemical study is made of human foods, cattle feeds, water, fertilizers and spray materials, and, in addition, many samples of these and other materials are examined or analyzed for correspondents.

*Dairy Department.*—The investigations in dairying during the season of 1918 related to the following: Causes of difficult churning on farms; the manufacture of cottage cheese by precipitation and