

marily as a college and distributing station for pure-bred live stock and seeds, investigational work does not occupy so prominent a position as it does at a purely experimental station. Nevertheless, practical experiments are being carried on amongst which the following are the most important. Experiments were commenced seven years ago in the use of ground limestone, this being applied to plots of several acres each side by side with corresponding plots receiving no limestone. Complete results cannot be announced until the lapse of two rotations of four years; but meanwhile positive results indicate marked improvement in clover and in the control of club root in turnips, cabbage, etc. Upon a run-out farm, purchased in 1917, experiments have been instituted with a view to ascertain and demonstrate the relative value of basic slag with high and low percentages of soluble phosphoric acid, with acid phosphate, bone meal, ground limestone and with the addition to all of these of nitrate of soda. On the same land, an experiment has been commenced to determine the returns of potatoes from applications of various quantities of potash. A permanent pasture experiment, commenced five years ago, is designed to determine the value of top dressing with commercial fertilizer. Suitable fodder crops for ensilage in a district like that surrounding the College, where the summers are short and rather cool, are being experimented with. At present main reliance is placed upon a mixture of oats, peas and vetches, popularly called "O. P. V." In chemical, entomological and botanical laboratories, experiments relate to the control of insects and fungi, the study and treatment of soils and other similar lines of investigation.

#### QUEBEC.

**Macdonald College, Ste. Anne de Bellevue.**—The College is situated about 20 miles west of Montreal and is incorporated with McGill University. The College property comprises 786 acres divided as follows: main farm, 584 acres; cereal husbandry plots, 75 acres; poultry department, 17 acres; orchards, 35 acres; vegetable gardens, 25 acres; the campus, including driveways, lawns, trees, shrubs, flowerbeds, school garden and recreation fields for students of both sexes, 50 acres. On the College Stock Farm a "Fordson" tractor has on the whole given good satisfaction, being used chiefly for ploughing, discing, cultivating and for loading hay. Upon a total disced and cultivated area of 300 acres, the average cost per acre works out to a trifle over \$1 per acre. The experiments indicate that the possibilities of the tractor lie rather in the amount and rapidity of the work accomplished than in cheapness of power. Numerous other researches and experiments are being conducted in the departments of biology, cereal husbandry, agricultural chemistry, horticulture, physics, and with farm poultry. More complete information respecting the work of the College will be found on record in the Canada Year Book of 1916-17, pp. 241-242, and 1918, pp. 235-237. The College Annual Report for 1918-19 may also be consulted.

**Oka Agricultural Institute.**—This, situated on the Lake of Two Mountains, about 20 miles from Montreal, is one of the oldest