

field of usefulness of this cereal and simplify the processes of its manufacture into food for man and beast. The Division also carries on extensive milling and baking tests.

*Chemistry.*—The work of the Division of Chemistry comprises the analysis of fodders and feeding stuffs, fertilizers, soils, well waters, insecticides, fungicides, etc. It also assists other Divisions in chemical problems and does a large amount of analytical work for other Branches of the Department and for military and civilian use abroad. Field tests with various kinds and quantities of fertilizers are carried on by this Division at a number of the branch farms and stations.

*Extension and Publicity.*—This Division acts as a connecting link between the Experimental Farms and the farmer by making the work of the former as widely known as possible. Two chief means used are exhibits at as many fairs as possible each year and extension of the departmental mailing lists.

*Economic Fibre Plants.*—The Division studies the areas in Canada suitable for fibre production, the best varieties and strains of seed of fibre plants, cultural methods, harvesting, retting and scutching processes, etc. Chiefly for demonstrational purposes, the Division is operating at Clinton, Huron County, Ontario, a leased commercial flax mill.

*Field Husbandry.*—This Division applies, under field conditions, the results obtained by other Divisions more directly engaged in scientific research. Some of the main lines of work under way are test of fertilizers, methods of drainage, rotations and cultural methods. Data of cost of production of field crops are gathered in connection with this work.

*Forage Plants.*—The Division has for its work the variety testing of grasses, leguminous forage plants, field roots and Indian corn; plant breeding with these; the collection of genera and species likely to be of value as forage plants; the study of the possibilities and methods of growing root seed, including sugar beets, in Canada, and the distribution for trial of seed of varieties newly obtained and not available commercially.

*Horticulture.*—The work of the Division of Horticulture falls under four main heads: vegetable gardening, orcharding and small fruits, ornamental gardening and plant breeding. In the three first named, the testing of varieties is a main feature, with a view to ascertaining the hardiest, earliest, best-yielding and most disease-resistant sorts. In plant breeding, the aim is the improvement of existing sorts by cross-breeding. Greenhouse work is also given special attention at Ottawa. Canning experiments and demonstrations are carried on.

*Illustration Stations.*—This Division forms another connecting link between the Experimental Farms and the farmer. The stations are now 125 in number. Each is located on the farm of a representative farmer, who does the work according to directions framed to illustrate the best rotations, the best varieties of crops, and the best cultural methods, as determined by the work of years on the Experimental Farms.

*Poultry.*—The scope of work of the Poultry Division has been greatly extended during the last few years. It now covers the following main lines of investigation: artificial and natural incubation, poultry breeding, systems of breeding and rearing, production of heavy-laying strains, feeding for eggs and table, and housing of poultry. Poultry survey work, *i.e.*, the endeavour to get groups of farmers in various localities to keep accurate records of their poultry costs and returns, is already showing results in the better housing, breeding and care of the farm flock. Egg-laying contests and record of performance work are carried on.