

To the Honourable

The Minister of Agriculture.

SIR,—I beg to submit for your approval Bulletin No. 34 of the Experimental Farm series, prepared by myself. In this publication there are presented the results of a large number of experiments which have been conducted at all the experimental farms under your department during the season of 1899, with oats, barley, spring wheat, pease, Indian corn, turnips, mangels, carrots, sugar beets and potatoes in uniform plots. The average results are also given of five years' tests on such plots with varieties of oats, barley, spring wheat and potatoes, four and five years' experience with Indian corn, four years' with plots of pease, turnips, mangels and carrots and three years' experience with sugar beets.

This work of testing varieties is being conducted with the object of gaining information as to their relative productiveness and earliness in ripening. The results show wide variations in the weight of the crops grown and indicate the importance of the exercise of care in the choice of varieties of seed for sowing. It is hoped that the results presented, covering the experience gained under some of the most important climatic variations found in the Dominion will prove useful to farmers in every part of Canada.

I have the honour to be,

Your obedient servant,

WM. SAUNDERS,

*Director Experimental Farms.*

OTTAWA, 29th December, 1899.