

ILLUSTRATION PLOTS.

I think it desirable now to arrange for a series of illustration plots at each school. These beds need not lie side by side ; but they should be numbered so that a definite rotation might be followed in their use. I think it desirable that eight plots should be arranged for, each plot being of a size 10 ft. 5 in. x 20 ft. 10 in. That would make each plot 1/200 part of an acre in area.

On another sheet I send you a diagram which will illustrate the scheme which I think should be followed in the illustration plots. It has really a threefold purpose : to illustrate (1) the difference between the use of selected ; good seed and selected poor seed ; (2) the difference in the returns obtained from cereals when sown on land on which clover has been grown the previous year, and when sown on land on which grain only has been grown the previous year ; (3) the difference in the yield of potatoes when sprayed and when not sprayed.

In addition to these three points, the effect of rotation as illustrated in plots No. 1 to 6 could be compared with the results from plots No. 7 and 8.

The wheat (selected good and selected poor seed) should be, of course, of the same variety and, if practicable, from the same crop. I shall be able to furnish all the cereals required for these plots this year. I think the children should make selections of good and poor seed themselves, for following years.

The potatoes on plots 3 and 4 should be, of the same variety and put in under conditions as nearly similar as practicable, the only difference being in the treatment afterwards, in the one case the crop being sprayed and in the other case not sprayed.

SPRAYING OUTFITS.

I thought it would be necessary to provide a spraying outfit for each school, considering the distances, the need for spraying the crop frequently during its growth and the weather conditions that might prevail.

Paragraph from a later letter : On the whole I think it better to have a spraying outfit left at each school. That will enable two of the older pupils to spray when the teacher thinks it necessary to have that done. Then I would be willing to let such pupils, either before or after school hours, or on Saturdays or other holi-