FIELD TECHNIC IN DETERMINING YIELDS OF EXPERIMENTAL PLOTS BY THE SQUARE YARD METHOD.¹

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INTRODUCTION.

In an article (1)² giving results of determination of yields by harvesting parts of plots as compared with harvesting the entire areas, the uses of such a method are outlined and the known literature on the subject reviewed.

Two considerations led to the undertaking of more extensive work along this line in 1918. It seemed desirable (a) to extend the work over a period of at least two years and (b) to secure data on a method which may be used equally well in sampling broadcasted and drilled forages and grains.

After the compilation of the 1918 results for publication, an article by Kiesselbach (4) was called to our attention. Results are given for the determination of yields by harvesting 14 entire thirtieth-acre plots of seven different varieties or strains of winter wheat as compared with the yields secured by the removal of 20 areas 32 by 32 inches from each plot at locations 10 feet from the ends at intervals of 14 feet on alternate sides. The statement is made that, due to the severe winterkilling, the 14 plots varied markedly in stand and yield, and that, therefore, there was a greater variation between the areas removed within any single plot than would normally be expected.

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² Figures in parentheses refer to "Literature cited," p. 106.