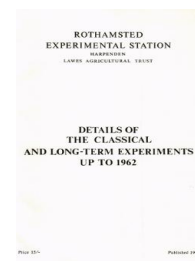


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Details of the Classical and Long-term Experiments Up to 1962

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Introduction

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DETAILS OF THE CLASSICAL AND LONG-TERM EXPERIMENTS, UP TO 1962

INTRODUCTION

The following notes are for use with the "Numerical Results of the Field Experiments" published annually. They give the present (1962) treatments of the classical and long-term experiments, together with the more important changes in cropping, manuring, and cultivations that have taken place up to date.

References are given to publications in which minor, and for the most part unimportant, changes in procedure have been recorded. The long-period average yields for some of the experiments are included but not for those which have been summarised in recent publications. The standard publications which discuss in detail the results of the classical experiments from the beginning till the early years of the present century are:-

1. Gilbert, J. H. (1895). Agricultural investigations at Rothamsted, England. U.S. Dept. Agric. Bull. No. 22.
2. Lawes, J. B. & Gilbert, J. H. (1895). The Rothamsted experiments. Trans. Highl. Agric. Soc. Scot, 5th Series 7, 1.
3. Hall, A. D. (1917). The book of the Rothamsted experiments. London: John Murray.

This contains a list of all important papers relating to the Rothamsted experiments from 1845 to 1910.

4. Gilbert, J. H. (1901). Memoranda of the results of the field experiments.

Detailed statement of the manurial treatments applied to the classical plots from 1843-1900. Yields and occasionally chemical analyses of the experimental produce. The yields are usually successive long-period means but in some experiments year by year yields are given.

5. Russell, E. J. & Voelcker, J. A. (1936). Fifty years of field experiments at the Woburn Experimental Station. Rothamsted Monographs of Agricultural Science. London: Longmans, Green & Co.

Period of Treatments

The convention used in these notes is:-

all years are "harvest years".

1906-1925 means that the treatment was first applied to the crop harvested in 1906, and was last applied to the crop harvested in 1925.

"Since 1885" means that the treatment in question was applied for the first time for the crop that was harvested in 1885.

"Until 1884" means that the treatment in question was applied for the last time to the crop harvested in 1884, e.g. plot 2A on Broadbalk would be described as unmanured until 1884, 14 tons dung since 1885.

Tables of Mean Yields

Different numbers of years' results are grouped in the various experiments. For example for Broadbalk the period is 5 years (corresponding to one cycle of fallowing), for Park Grass 8 years (two cycles of liming).

In the tables the treatments are indicated by very brief symbols; full descriptions are given in the pages preceding each set of tables.

Note: Reference has been made to this publication in the (Numerical) Results of the Field Experiments as:- (a) Appendix Y 1950

(b) Details of the Classical and Long-Term Experiments 1956.