

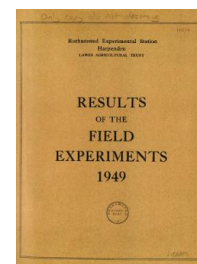
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Yields of the Field Experiments 1949

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49/A/7 Woburn - Permanent Wheat

49/A/7 Woburn - *Permanent Wheat*, Rothamsted Research (1950) Yields Of The Field Experiments 1949, pp 12 - 13

49/A/7.1

WHEAT - WOBURN STACKYARD 1949

This field was under wheat from 1877-1926 and results and treatments for this period are given in the 1928 Station Report pp 103-105. From 1927-1940 no manures were applied, wheat being grown each year except 1927 and '28, 1934 and '35, when the field was fallowed. In 1941 and '42 a top dressing of 2 cwt sulphate of ammonia per acre was applied.

For the crop of 1943 a new scheme was started. The plots were divided into sets of three according to their previous manurial treatments (omitting plots 2, 5 and 8 which were so acid as to give negligible crops). The field was fallowed in 1947 and '48.

The sets were:

No minerals	plots	1, 3, 7.
Minerals	"	4, 6, 9.
Dung	"	11b divided into three subsections
Various	"	10a, 10b, 11a.

In each set of three plots one receives nitrochalk at 2 cwt per acre, another at 4 cwt, and the third at 6 cwt. On every plot the dressings rotate in cyclical order and the field is cropped yearly with wheat.

Cultivations etc.: Ploughed: Oct 6 and Nov 12. Harrowed, seed sown and harrowed again: Nov 15. Nitrochalk applied: Apr 29. Wild oats pulled: July 11-21. Harvested: Aug 10. Variety: Squareheads Master 13/4.

49/A/7.2				
Plot	Treatment 1877-1926	Nitrochalk Dressing: cwt per acre	Total grain: cwt per acre	Total straw: cwt per acre
3	Nitrate of Soda	2	8.0	15.1
1	Unmanured	4	10.9	20.7
7	Unmanured	6	10.7	20.0
6	Minerals plus Nitrate of soda	2	11.1	21.2
9	Minerals, and, in alternate years nitrate of soda	4	14.4	28.3
4	Minerals	6	15.6	32.2
11b (2)	Dung	2	12.6	25.9
11b (3)	Dung	4	16.0	33.6
11b (1)	Dung	6	18.7	30.2
11a	Sulphate of potash plus nitrate of soda	2	11.6	23.5
10a	Superphosphate plus nitrate of soda	4	10.9	23.2
10b	Rape cake	6	10.2	19.2