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Yields of the Field Experiments 1979

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79/R/CS/10 and 79/W/CS/10 Long-term Liming - Fallow

Rothamsted Research

Rothamsted Research (1980) *79/R/CS/10 and 79/W/CS/10 Long-term Liming - Fallow* ; Yields Of The Field Experiments 1979, pp 93 - 93 - DOI: <https://doi.org/10.23637/ERADOC-1-45>

79/R/CS/10 and 79/W/CS/10

LONG TERM LIMING

Object: To study the effects of different amounts of lime on the yields of a sequence of crops. The effects of P, K and Mg are also studied - Rothamsted (R) Sawyers I and Woburn (W) Stackyard C.

Sponsors: G.E.G. Mattingly, A. Penny.

The 18th year, fallow.

For previous years see 'Details' 1967, 1973 and 74-78/R&W/CS/10.

Design: 2 randomised blocks of 16 plots, split into 2.

Whole plot dimensions: 6.40 x 18.3.

The experiments were fallowed in 1979 but additional treatment ground chalk was applied:

Ground chalk (tonnes):

R		W	
Total 1962-63	1979	Total 1962-63	1979
0	0	0	0
5	2	5	1
10	5	12	2
20	10	19	4

Basal application:

Sawyers I (R): Weedkiller: Glyphosate at 1.5 kg in 220 l.

Stackyard C (W): Weedkiller: Glyphosate at 1.5 kg in 280 l.

Cultivations, etc.:-

Sawyers I (R): Weedkiller applied: 24 Oct, 1978. Test chalk applied: 29 Nov.
Ploughed: 21 Dec. Rotary cultivated: 12 June, 1979. Deep-tine cultivated: 3 July.

Stackyard C (W): Weedkiller applied: 14 Sept, 1978. Test chalk applied: 21 Nov. Ploughed: 22 Nov. Spring-tine cultivated with crumbler attached: 17 Apr, 1979. Rotary cultivated: 6 June. Rotary cultivated twice: 4 July, 16 Aug. Deep-tine cultivated: 21 Aug. Heavy spring-tine cultivated: 11 Sept.