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# Yields of the Field Experiments 1985

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## Crop Sequences

### Rothamsted Research

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85/R/CS/10 and 85/W/CS/10

LONG TERM LIMING

Object: To study the effects of different amounts of lime and phosphate on the yields and compositions of a sequence of crops. Rothamsted (R) Sawyers I and Woburn (W) Stackyard C.

Sponsor: S.P. McGrath.

The 24th year, s. barley.

For previous years see 'Details' 1967, 1973 and 74-84/R&W/CS/10.

Design: 2 randomised blocks of 16 plots.

Whole plot dimensions: 6.40 x 18.3.

Treatments: All combinations of:-

1. CHALK Residual effects of ground chalk (tonnes CaCO<sub>3</sub>) (total applied 1962-83):

		Rothamsted total		Woburn total	
R	W	1962-78	1982-83	1962-78	1982-83
0	0	0	0	0	0
14	8	7	7	6	2
23	24	15	8	14	10
50	43	30	20	23	20

2. P Residual effects of P fertilizer applied:

	Until 1978		1981	1982	1983	
	R	W	R & W	R & W	R	W
0	0	0	0	0	0	0
P1	0		P1	P1	0	P2
P2	P		P1	0	P2	P2
P3	P		P3	P1	P2	P4

Rates 1981-83 P1, P2, P3, P4 = 25, 50, 75, 100 kg P as superphosphate

NOTES: Until 1978 test P was applied cumulatively, rates varied with crop, K was also applied cumulatively, to P1 and P3 plots. Since 1981 K has been applied basally.

Basal applications:-

Sawyers I (R): Manures: (25:0:16) at 450 kg. Weedkillers: Mecoprop at 1.6 kg with bromoxynil at 0.20 kg and ioxynil at 0.20 kg with fungicide in 200 l. Fungicide: Tridemorph at 0.52 kg.

Stackyard C (W): Manures: (25:0:16) at 490 kg. Weedkillers: Mecoprop at 1.2 kg with bromoxynil at 0.26 kg and ioxynil at 0.26 kg in 250 l.

Seed: Sawyers I (R): Klaxon, sown at 160 kg.  
Stackyard C (W): Klaxon, sown at 150 kg.