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Yields of the Field Experiments 1994



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Rothamsted Research

Rothamsted Research (1995) 94/R/CS/10 and 94/W/CS/10 Long-term Liming - W. Lupins ; Yields Of The Field Experiments 1994, pp 52 - 53 - DOI: https://doi.org/10.23637/ERADOC-1-49

94/R/CS/10 and 94/W/CS/10

LONG TERM LIMING

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

Sponsors: S.P. McGrath, P.B. Barraclough, G.F.J. Milford, J.M. Day.

The 33rd year, w. lupins.

For previous years see 'Details' 1967, 1973 and 74-93/R&W/CS/10.

Design: 2 randomised blocks of 16 plots split into 2 sub-plots.

Whole plot dimensions: 5.8 x 16.1 (R), 5.6 x 16.1 (W).

Treatments: All combinations of :-

Whole plots

.

1. CHALK			Residual effects of ground chalk (tonnes CaCO3) (total applied 1962-87):					
Rothamsted total Woburn total								
R	W	1962-78 1		1962-78		7		
0	0	0	0	0	0	,		
15	9	7	8	6	3			
24.5	25.5	15	9.5	14	11.5			
52.5	45.5	30	30 22.5		22.5			
2. P		Residual e	effects of	P fertili	izer app	lied:		
		Until 1978	3 1981	1982	1983	19	88	
		R & W	R & W	R & W	R W		W	
0		0	0	0	0 0			
P1		0	P1	P1	0 P2			
P2		P	P1	0	P2 P2			
P3		P	P3	P1	P2 P4	P3	P3	
Rates 19 super	81-83 and phosphate	d 1988 P1, P2 e	2, P3, P4 =	: 25, 50,	75, 100	kg P	as .	
Sub-plots								
3. SULPHUR Sulphur (kg S, as calcium sulphate), applied cumulatively since 1991:								
0								
30								

94/R/CS/10 and 94/W/CS/10

NOTES: (1) Until 1978 test P was applied cumulatively, rates varied with crop, none in 1979 and 1980. K was also applied cumulatively, to P1 and P3 plots. Since 1981 K has been applied basally (none in 1986, 1987, 1989, 1990, 1993 and 1994).
(2) Test manganese was applied cumulatively, 1987-90.

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Experimental diary:
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NOTE: Due to poor winter survival at Rothamsted and to excessive grazing damage at Woburn, both crops were abandoned in summer and no yields were taken.