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92/R/CS/10 and 92/W/CS/10 Long-term Liming - W. Oilseed Rape

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92/R/CS/10 and 92/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.

The 31st year, w. oilseed rape.

For previous years see 'Details' 1967, 1973 and 74-91/R&W/CS/10.

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

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	1982-87	1962-78	1982-87
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	22.5	23	22.5

2. **P** Residual effects of P fertilizer applied:

	Until 1978		1981	1982	1983		1988	
	R & W	R & W	R & W	R & W	R	W	R	W
0	0	0	0	0	0	0	0	0
P1	0	P1	P1	0	P2	P1	P1	P1
P2	P	P1	0	P2	P2	P1	P1	P1
P3	P	P3	P1	P2	P4	P3	P3	P3

Rates 1981-83 and 1988 P1, P2, P3, P4 = 25, 50, 75, 100 kg P as superphosphate

Sub plots

3. **SULPHUR** Sulphur (kg S, as calcium sulphate):

0
30

- 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 and 1990).
(2) Test manganese was applied cumulatively, 1987-90.

92/R/CS/10 and 92/W/CS/10

Experimental diary:

Sawyers I (R).

- 25-Aug-91 : B : Deep-tine cultivated with vibrating tines 60 cm apart,
45 cm deep.
- 26-Aug-91 : B : Ploughed, rolled.
- 04-Sep-91 : B : Rotary harrowed.
- 05-Sep-91 : B : Rotary harrowed, Libravo, dressed Hydraguard and
Rovral WP, drilled at 6.1 kg, rolled.
- 06-Sep-91 : B : Butisan S at 2.5 l in 200 l.
- 24-Oct-91 : B : NK as (25:0:16) at 200 kg.
- 02-Dec-91 : B : Vytel Liquid Chelated Magnesium at 2.0 l in 200 l.
- 05-Mar-92 : T : **SULPHUR** 30: 30 kg S as gypsum.
- 05-Mar-92 : B : 34.5% N at 220 kg.
- 13-Apr-92 : B : Ploughed (crop failed).

Stackyard C (W).

- 03-Sep-91 : B : Ploughed.
- 06-Sep-91 : B : Rotary cultivated, Libravo, dressed Hydraguard and
Rovral WP, drilled at 6.0 kg, rolled.
- 29-Oct-91 : B : NK as (25:0:16) at 200 kg.
- 15-Jan-92 : B : Benazalox at 1.25 kg in 200 l.
- 05-Mar-92 : T : **SULPHUR** 30: 30 kg S as gypsum.
- 06-Mar-92 : B : 34.5% N at 220 kg.
- 13-May-92 : B : Ploughed (crop failed).

NOTE: Owing to crop failure no yields were taken.