

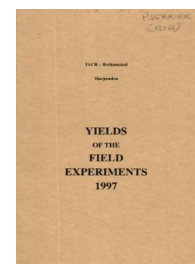
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97/W/RAS/1 Sulphur for Spring Oilseed Rape - S. Oilseed Rape

Rothamsted Research

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97/W/RAS/1

SPRING OILSEED RAPE

SULPHUR FOR SPRING OILSEED RAPE

Object: To study the effects of rates of sulphur fertilizer on the yield and sulphur content of spring oilseed rape - Woburn, Stackyard I.

Sponsors: S.P. McGrath, F. Zhao.

Design: 5 randomised blocks of 5 plots.

Whole plot dimensions: 3.0 x 15.0.

Treatments:

SULPHUR	Sulphur as potassium sulphate (kg S):
S0	0 (duplicated)
S1	10
S2	20
S4	40

NOTE: Potassium chloride was applied to balance the potassium to supply 111 kg K₂O.

Experimental diary:

- 13-Nov-97 : B : Ploughed.
- 26-Mar-97 : B : Heavy spring-tine cultivated.
- 02-Apr-97 : B : 34.5% N at 290 kg.
- 18-Apr-97 : T : **SULPHUR** S1, S2, S4: Potassium sulphate at 56, 111, 222 kg respectively.
- : T : **SULPHUR** S0, S1, S2: Muriate of potash at 185, 138, 93 kg respectively.
- : B : Rotary harrowed, Starlight, dressed Lindex-Plus FS, drilled at 250 seeds per m².
- 02-Sep-97 : B : Combine harvested.

Previous crops: W. wheat 1995, w. rye 1996.

NOTE: Samples were taken on three occasions between green-bud and mid-flowering for analysis of sulphur, sulphate-S and glutathione.

97/W/RAS/1

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

***** Tables of means *****

SULPHUR

S0	1.97
S1	2.07
S2	2.01
S4	2.03

Mean	2.01
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*** Standard errors of differences of means ***

SULPHUR

0.077	min.rep
0.066	max-min

SULPHUR

min.rep	Any of the remainder
max-min	S0 v any of the remainder

***** Stratum standard errors and coefficients of variation *****

Stratum	d.f.	s.e.	cv%
BLOCK.WP	17	0.121	6.0
GRAIN MEAN DM%	88.7		
PLOT AREA HARVESTED	0.00286		