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96/W/RAS/1 Sulphur for Spring Oilseed Rape

Rothamsted Research

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96/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, Lansome II.

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

Design: 4 randomised blocks of 6 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
S8	80

NOTE: Potassium chloride was applied to balance the potassium to supply 222 kg K₂O.

Experimental diary:

- 14-Feb-96 : B : Ploughed.
- 28-Feb-96 : B : Heavy spring-tine cultivated.
- 02-Apr-96 : B : Portman Trifluralin at 2.0 l in 300 l, rotary harrowed.
- 03-Apr-96 : T : **SULPHUR** S0, S1, S2, S4: Muriate of potash to balance potassium applied.
: T : **SULPHUR** S1, S2, S4, S8: Potassium sulphate applied.
: B : 34.5% N at 145 kg. Starlight, dressed Lindex-Plus FS, drilled at 140 seeds per m².
- 04-Apr-96 : B : Rolled.
- 13-May-96 : B : 34.5% N at 290 kg.
- 13-Jun-96 : B : Fastac at 200 ml in 200 l.
- 31-Aug-96 : B : Combine harvested.

Previous crops: S. barley 1994, s. rape 1995.

NOTE: Leaves were sampled for nitrogen and sulphur content at flowering. Soil was sampled to measure sulphur content before drilling

96/W/RAS/1

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

SULPHUR

S0	1.91
S1	2.27
S2	2.24
S4	1.89
S8	2.10

Mean	2.05
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*** Standard errors of differences of means ***

SULPHUR

0.193	min.rep
0.167	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	16	0.272	13.3
GRAIN MEAN DM%	86.5		
PLOT AREA HARVESTED	0.00286		