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Yields of the Field Experiments 1995

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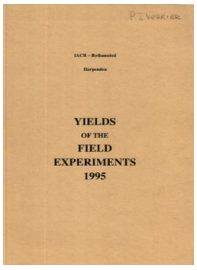

95/R/RAS/3 Sulphur for Spring Oilseed Rape - S. Oilseed Rape

Rothamsted Research

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95/R/RAS/3

SPRING OILSEED RAPE

SULPHUR FOR SPRING OILSEED RAPE

Object: To test the response of spring oilseed rape to sulphur and magnesium fertilizers - Geescroft.

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

Design: 4 randomised blocks of 12 plots.

Whole plot dimensions: 3.0 x 10.0.

Treatments:

SULMAG	Rates of sulphur or magnesium fertilizer, kg:
-	None (duplicated)
KS1	10 kg S as potassium sulphate to seedbed
KS2	20 kg S as potassium sulphate to seedbed
KS4	40 kg S as potassium sulphate to seedbed
KS8	80 kg S as potassium sulphate to seedbed
S2	20 kg S as elemental sulphur (Thiovit) to seedbed
S4	40 kg S as elemental sulphur (Thiovit) to seedbed
E2	20 kg S and 15.4 kg Mg as Epsom salts as a foliar spray
E4	40 kg S and 30.8 kg Mg as Epsom salts as a foliar spray
MG1	15.4 kg Mg as magnesium chloride
MG2	30.8 kg Mg as magnesium chloride

NOTES: (1) Muriate of potash was applied to balance the potassium in the potassium sulphate, so all plots received 222 kg K_2O.

(2) The Epsom salts and magnesium chloride treatments E2 and MG1 were applied in two doses repeated one week later. Treatments E4 and MG2 in four doses repeated one week later. Plants were allowed to dry between applications.

Experimental diary:

25-Nov-94 : B : Ploughed.
03-Apr-95 : **T** : **SULMAG** KS1, KS2, KS4, KS8, S2, S4: Seedbed treatments applied.
: B : Spring-tine cultivated, rotary harrowed, Starlight, dressed Lindex-Plus FS, drilled at 7.0 kg.
04-Apr-95 : B : Butisan S at 1.5 l in 200 l.
05-Apr-95 : B : 34.5% N at 145 kg.
02-May-95 : B : Decis at 300 ml in 200 l.
11-May-95 : B : Part irrigated 25 mm.
12-May-95 : B : Part irrigated 25 mm.
24-May-95 : B : 34.5% N at 156 kg.
31-May-95 : B : Dow Shield at 0.5 l in 200 l.
01-Jun-95 : B : Fastac at 200 ml in 300 l.
14-Jun-95 : B : Dow Shield at 1.0 l in 200 l.
15-Jun-95 : **T** : **SULMAG** E2, E4: Epsom salts applied with Vassgro Spreader at 56 ml in 750 l.

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95/R/RAS/3

Experimental diary:

15-Jun-95 : **T** : **SULMAG** MG1, MG2: Magnesium chloride applied with Vassgro Spreader at 56 ml in 750 l.
22-Jun-95 : **T** : **SULMAG** E2, E4: Epsom salts applied with Vassgro Spreader at 56 ml in 750 l.
: **T** : **SULMAG** MG1, MG2: Magnesium chloride applied with Vassgro Spreader at 56 ml in 750 l.
10-Jul-95 : B : Fastac at 100 ml in 300 l.
15-Aug-95 : B : Reglone at 3.0 l with Vassgro Spreader at 400 ml in 400 l.
18-Aug-95 : B : Combine harvested.

Previous crops: S. wheat 1993, linseed 1994.

NOTE: The crop was sampled on three occasions to measure sulphur content.

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

SULMAG	
-	0.55
KS1	0.58
KS2	0.63
KS4	0.59
KS8	0.64
S2	0.72
S4	0.66
E2	0.54
E4	0.49
MG1	0.61
MG2	0.60
Mean	0.60

*** Standard errors of differences of means ***

SULMAG	
0.085	min.rep
0.073	max-min

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

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	34	0.120	20.1

GRAIN MEAN DM% 82.2 PLOT AREA HARVESTED 0.00184

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