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98/W/RAS/1 Diagnosis of S Deficiency - S. Oilseed Rape

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98/W/RAS/1

SPRING OILSEED RAPE

DIAGNOSIS OF S DEFICIENCY

Object: To test sulphur fertilizer on spring oilseed rape - Woburn, Stackyard A II.

Sponsors: S.P. McGrath, M.M.A. Blake-Kalff, F. Zhao.

Design: 4 randomised blocks of 6 plots.

Whole plot dimensions: 3.0 x 12.0.

Treatments:

SULPHUR	Kg S:
S0	None
S1	5
S2	10
S3	20
S4	40
S5	80

Experimental diary:

29-Apr-98 : B : Rotary harrowed. Spring-tine cultivated. Rotary harrowed, Starlight, dressed Lindex Plus FS, drilled at 225 seeds per m².

05-May-98 : T : **SULPHUR** 5, 10, 20, 40, 80: Gypsum applied at 29, 57, 114, 228 and 457 kg respectively.

: B : 27% N at 370 kg.

12-May-98 : B : Cyperkill 10 at 250 ml in 200 l.

20-May-98 : B : Cyperkill 10 at 250 ml in 200 l.

12-Jun-98 : B : Cyperkill 10 at 250 ml in 200 l.

24-Aug-98 : B : Roundup Biactive at 3.0 l in 200 l.

02-Sep-98 : B : Combine harvested.

Previous crops: Mixed crops 1996 and 7.

NOTES: (1) Plant samples were taken in June, July and at harvest and analysed for sulphur and glutathione content.

(3) The yield of one plot, with **SULPHUR** S4 was lost because of damage caused while netting the experiment. An estimated value was used in the analysis.

98/W/RAS/1

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

SULPHUR

S0	1.20
S1	1.34
S2	1.46
S3	1.67
S4	1.42
S5	1.53

Mean	1.44
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*** Standard errors of differences of means ***

SULPHUR

0.154

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

Stratum	d.f.	s.e.	cv%
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BLOCK.WP	14	0.217	15.1
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GRAIN MEAN DM% 80.2

PLOT AREA HARVESTED 0.00276