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## Yields of the Field Experiments 2000

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### 00/R/RAS/1 Effects of Sulphur and Nitrogen on Spring Oilseed Rape

#### Rothamsted Research

Rothamsted Research (2001) *00/R/RAS/1 Effects of Sulphur and Nitrogen on Spring Oilseed Rape* ;  
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00/R/RAS/1

SPRING OILSEED RAPE

EFFECTS OF SULPHUR AND NITROGEN ON SPRING OILSEED RAPE

**Object:** To study the timing of sulphur applications and test a novel diagnostic indicator with different nitrogen rates - Webbs.

**Sponsor:** F.J. Zhao, M.J. Hawksford, M.M.A. Blake-Kalff, S.P. McGrath.

**Design:** 4 randomised blocks of 2 x 2 + 1.

**Whole plot dimensions:** 3.0 x 10.0.

**Treatments:** All combinations of:-

1. **S** Sulphur kg S:

S0 None  
S1 80

2. **N** Nitrogen kg N:

N1 150  
N2 200

Extra

**LATE SULPHUR** Kg S:

SL 80

**Experimental diary:**

19-Aug-99 : : : Muriate of potash at 300 kg.  
04-Oct-99 : : : Ploughed.  
21-Mar-00 : B : : Combination drilled, Canyon, tr. Rovral Liquid FS and  
Hydraguard, at 180 seeds/m<sup>2</sup>, with the Accord drill.  
: B : : Rolled.  
22-Mar-00 : B : : Butisan S at 1.0 l in 200 l.  
24-Apr-00 : B : : Hallmark with Zeon Technology at 75 ml in 200 l.  
28-Apr-00 : B : : 34.5% N at 435 kg.  
03-May-00 : B : : Combination drilled, Sprinter, tr. Rovral Liquid FS, at  
250 seeds/m<sup>2</sup>, with the Accord drill.  
05-May-00 : B : : Rolled.  
12-Jun-00 : T : N2 : 34.5% N at 145 kg.  
16-Jun-00 : T : S1 : Gypsum at 457 kg.  
26-Jun-00 : B : : Hallmark with Zeon Technology at 100 ml in 200 l.  
17-Jul-00 : T : SL : Gypsum at 457 kg.  
06-Sep-00 : B : : Combine harvested.

Previous crops: W. barley 1998, w. linseed 1999.

**NOTE:** Plants were sampled on 28-Jun-00 for sulphur and nitrogen analysis.

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GRAIN TONNES/HECTARE

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

S	S0	S1	Mean
N1	2.19	2.42	2.31
N2	2.19	2.36	2.28
Mean	2.19	2.39	2.29

LATE SULPHUR 2.14

Grand mean 2.26

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

N	S	N S & LATE SULPHUR
0.050	0.050	0.071

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	12	0.100	4.4
GRAIN MEAN DM%	82.2		
PLOT AREA HARVESTED	0.00233		