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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
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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 ² , 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 ² , 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 N	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