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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

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/m², 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/m², 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
N			
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		