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99/W/CS/497 Diagnosis of S Deficiency - W. Rape Failed Resown to S. Rape

Rothamsted Research

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99/R/CS/494

Experimental diary:

23-Jul-99 : B : : Alpha Glyphogan at 4.0 l in 200 l.
13-Aug-99 : B : : Combine harvested.

Previous crops: W. beans and lupins 1997, s. wheat 1998.

GRAIN TONNES/HECTARE

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

TRT1999	-9	P9	T9
TRT1998			
(-8)	9.81	9.83	*
(P8)	9.90	10.01	9.13
(T8)	7.73	7.51	*

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

A = (P8), P9
B = (P8), -9 or (P8), T9 or (T8), -9
C = (T8), P9
D = (-8), -9 or (-8), P9

For comparing items between groups A, B, C or D

B	0.294	0.240		
C	0.277	0.219		
D	0.268	0.208	0.183	0.170
	A	B	C	D

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	62	0.480	5.3

GRAIN MEAN DM% 81.6

PLOT AREA HARVESTED 0.00227

99/W/CS/497

DIAGNOSIS OF S DEFICIENCY

Object: Diagnosis of S deficiency in oilseed rape - Woburn, Stackyard A II.

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

The first year, w. rape failed re-sown to s. rape.

Design: 4 blocks of 6 plots.

Plot dimensions: 3.0 x 12.0.

Treatments:-

SULPHUR Rates of sulphur (kg) applied as gypsum (17.5% S):

SO	None
S1	5
S2	10
S3	20
S4	40
S5	80

Experimental diary:

02-Sep-98 : B : : Ploughed.
 04-Sep-98 : B : : Rotary harrowed. Drilled, Apex, tr. Lindex-Plus FS Seed Treatment, at 120 seeds/m² with the Accord drill.
 Rolled.
 16-Sep-98 : B : : 34.5% N at 101 kg.
 17-Sep-98 : B : : Butisan S at 1.0 l in 200 l.
 : B : : Cyperkill 10 at 250 ml.
 02-Dec-98 : B : : tm)Cyperkill 10 at 0.25 l in 200 l.
 : B : : tm)Punch C at 0.4 l in 200 l.
 25-Feb-99 : B : : Sting CT at 4.0 l in 200 l.
 30-Mar-99 : B : : Strimmed nettles.
 31-Mar-99 : B : : Combination drilled, Starlight, tr. Lindex-Plus FS Seed Treatment, at 180 seeds/m² with the Accord drill.
 01-Apr-99 : T : S1,S2,S3,S4,S5 : Gypsum applied at 29, 57, 114, 229 or 457 kg respectively.
 : B : : Rolled.
 : B : : Butisan S at 1.0 l in 220 l.
 19-Apr-99 : B : : 34.5% N at 290 kg.
 12-May-99 : B : : Removed all the nettles by hand.
 09-Jun-99 : B : : Fastac at 200 ml in 200 l.
 23-Aug-99 : B : : Combine harvested, straw chopped.