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# Yields of the Field Experiments 1997



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## 97/W/RAW/1 Diagnosis of S Deficiency - W. Oilseed Rape

### **Rothamsted Research**

Rothamsted Research (1998) 97/W/RAW/1 Diagnosis of S Deficiency - W. Oilseed Rape ; Yields Of The Field Experiments 1997, pp 130 - 131 - DOI: https://doi.org/10.23637/ERADOC-1-53

#### 97/W/RAW/1

#### WINTER OILSEED RAPE

#### DIAGNOSIS OF S DEFICIENCY

Object: To study the effects of rates of sulphur on the yield and sulphur content of winter oilseed rape - Woburn, Far Field II.

Sponsors: F. Zhao, S.P. McGrath.

Design: 4 randomised blocks of 6 plots.

Whole plot dimensions: 3.0 x 12.0.

Treatments:

SULPHUR Sulphur as gypsum (17.5% S) kg S:

S0	0
S1	5
S2	10
\$3	20
S4	40
S5	80

#### Experimental diary:

02-Sep-96 : **T** : **SULPHUR** 5, 10, 20, 40, 80: Gypsum applied at 28.6, 57.1, 114, 229, 457 kg respectively. 02-Sep-96 : B : Drilled Apex, dressed Lindex-Plus FS at 6.6 kg per ha. 24-Jul-97 : B : Reglone at 3.0 1 with Vassgro Non-ionic at 400 ml in 400 1.

05-Aug-97 : B : Combine harvested.

Previous crops: Potatoes 1995, w. wheat 1996.

NOTE: Plant samples were taken on four occasions between March and May to measure total sulphur content, sulphate-S and glutathione.

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#### 97/W/RAW/1

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

#### SULPHUR

SO	4.51
S1	4.17
S2	4.39
S3	4.44
S4	4.27
S5	4.33

Mean 4.35

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

#### SULPHUR 0.151

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

Stratum	d.f.	s.e.	CV8
BLOCK . WP	15	0.213	4.9

GRAIN MEAN DM% 90.6

PLOT AREA HARVESTED 0.00288