

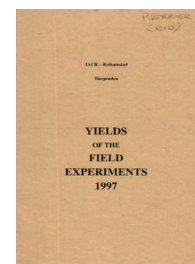
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## Yields of the Field Experiments 1997

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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                                |
| S3      | 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 l with Vassgro Non-ionic at 400 ml in 400 l.
- 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.

97/W/RAW/1

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

SULPHUR

|    |      |
|----|------|
| S0 | 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. | cv% |
|---------|------|------|-----|
|---------|------|------|-----|

|          |    |       |     |
|----------|----|-------|-----|
| BLOCK.WP | 15 | 0.213 | 4.9 |
|----------|----|-------|-----|

GRAIN MEAN DM% 90.6

PLOT AREA HARVESTED 0.00288