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## Yields of the Field Experiments 1993

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### 93/W/RAS/2 Sulphur and Nitrogen - S. Oilseed Rape

#### Rothamsted Research

Rothamsted Research (1994) *93/W/RAS/2 Sulphur and Nitrogen - S. Oilseed Rape* ; Yields Of The Field Experiments 1993, pp 144 - 145 - DOI: <https://doi.org/10.23637/ERADOC-1-48>

93/W/RAS/2

**SPRING OILSEED RAPE**

**SULPHUR AND NITROGEN**

**Object:** To determine the effects of different rates of sulphur and nitrogen fertilizer on the yield and sulphur content of s. rape - Woburn, School Field.

**Sponsors:** S.P. McGrath, F. Zhao, G.F.J. Milford, J. Fieldsend.

**Design:** 4 randomised blocks of 12.

**Whole plot dimensions:** 4.0 x 10.0.

**Treatments:** All combinations of:-

1. **N** Rates of nitrogen (kg N):

50  
100  
150

2. **SULPHUR** Rates of sulphur (kg S):

0  
10  
20  
40

**Experimental diary:**

17-Mar-93 : B : Ploughed.

24-Mar-93 : B : Treflan at 2.3 l in 200 l, rotary cultivated with crumbler attached, Starlight, dressed Lindex-Plus FS, drilled at 8 kg.

25-Mar-93 : T : N 50, 100, 150: Applied as 27% N.

15-Apr-93 : T : **SULPHUR** 10, 20, 40: Applied as gypsum (17.5% S).

04-Jun-93 : B : Decis at 0.50 l in 200 l.

04-Sep-93 : B : Combine harvested.

**NOTE:** Previous w. rape crop failed, experiment was resown to s. rape.

93/W/RAS/2

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

SULPHUR	0	10	20	40	Mean
N					
50	3.94	3.70	3.68	3.78	3.78
100	4.39	4.23	4.19	4.03	4.21
150	4.14	4.23	3.95	4.40	4.18
Mean	4.16	4.06	3.94	4.07	4.05

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

N	SULPHUR	N	SULPHUR
0.117	0.135	0.234	

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	33	0.332	8.2

GRAIN MEAN DM% 84.9

PLOT AREA HARVESTED 0.00176