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## Yields of the Field Experiments 1994

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### 94/W/WW/1 Sulphur and Wheat - W. Wheat

#### Rothamsted Research

Rothamsted Research (1995) *94/W/WW/1 Sulphur and Wheat - W. Wheat* ; Yields Of The Field Experiments 1994, pp 95 - 96 - DOI: <https://doi.org/10.23637/ERADOC-1-49>

94/W/WW/1

WINTER WHEAT

SULPHUR AND WHEAT

**Object:** To measure the uptake of sulphur and the effect of fertilizer sulphur on the yield and quality of w. wheat grown on light soil - Woburn, Lansome II.

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

**Design:** 5 blocks of 2 plots, systematically arranged.

**Plot dimensions:** 5.0 x 10.0.

**Treatments:**

**SULPHUR** Sulphur fertilizer (kg S), as potassium sulphate:

S0	0
S4	40

**NOTE:** The potassium was balanced by applying potassium chloride to the S0 plots.

**Experimental diary:**

20-Sep-93 : B : Ploughed.  
16-Oct-93 : B : Rotary harrowed, Hereward, dressed Cerevax, drilled at 325 seeds per m<sup>2</sup>.  
10-Mar-94 : T : **SULPHUR** S0: Potassium chloride at 186 kg.  
          : T : **SULPHUR** S4: Potassium sulphate at 217 kg.  
13-Apr-94 : B : 27% N at 415 kg.  
27-Apr-94 : B : 27% N at 415 kg.  
01-May-94 : B : Oxytril CM at 1.5 l with Duplosan New System CMPP at 2.0 l and Halo at 1.5 l in 200 l.  
30-May-94 : B : Cyclone at 1.0 l with Mistral at 0.5 l in 200 l.  
14-Jun-94 : B : Hostathion at 0.84 l in 200 l.  
22-Aug-94 : B : Combine harvested.

Previous crops: W. rape 1992, s. barley 1993.

**NOTE:** Samples of grain and straw were taken for chemicals analysis and grain was tested for baking quality. Soil was also sampled for sulphur content.

94/W/WW/1

**GRAIN TONNES/HECTARE**

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

**SULPHUR**

S0	5.08
S4	5.27
Mean	5.17

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

**SULPHUR**

0.255

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	4	0.403	7.8

GRAIN MEAN DM% 88.2

**STRAW TONNES/HECTARE**

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

**SULPHUR**

S0	3.80
S4	4.46
Mean	4.13

STRAW MEAN DM% 86.1

PLOT AREA HARVESTED 0.00220