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## Yields of the Field Experiments 2000

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### 00/W/CS/527 Sulphur and Malting Barley

#### Rothamsted Research

Rothamsted Research (2001) *00/W/CS/527 Sulphur and Malting Barley* ; Yields Of The Field Experiments 2000, pp 110 - 111 - DOI: <https://doi.org/10.23637/ERADOC-1-55>

00/W/CS/527

### SULPHUR AND MALTING BARLEY

**Object:** To test types and rates of sulphur fertilizer on the yield and quality of winter malting barley - Woburn, Butt Close II.

**Sponsors:** F.J. Zhao.

**Design:** 4 randomised blocks of 5 plots.

**Plot dimensions:** 3.0 x 12.0.

**Treatments:-**

SULPHUR	Kg of sulphur as gypsum (17.5% S) or Thiovit (80% S):
S0	None
S1	10 (gypsum)
S2	20 (gypsum)
S4	40 (gypsum)
S2T	20 (Thiovit)

**Experimental diary:**

06-Sep-99 : B : : Ploughed and furrow pressed.  
14-Sep-99 : B : : Dutch harrowed.  
          : B : : Drilled, Regina, tr. Raxil S, at 300 seeds/m<sup>2</sup> with the Accord drill.  
12-Oct-99 : B : : tm)Stomp 400 SC at 2.5 l in 200 l.  
          : B : : tm)Cyberkill 10 at 250 ml in 200 l.  
          : B : : tm)Isoguard at 1.0 l in 200 l.  
23-Mar-00 : T : S1,S2,S4 : Gypsum at 57, 114 and 229 kg respectively.  
          : T : S2T : Thiovit at 25 kg.  
          : B : : 34.5% N at 145 kg.  
08-May-00 : B : : tm)Vytel Manganese at 3.0 l in 200 l.  
          : B : : tm)Amistar at 0.5 l in 200 l.  
          : B : : tm)Folicur at 0.5 l in 200 l.  
          : B : : tm)BASF 3C Chlormequat 720 at 2.0 l in 200 l.  
09-May-00 : B : : 34.5% N at 217 kg.  
20-May-00 : B : : tm)Amistar at 0.8 l in 200 l.  
          : B : : tm)Opus at 0.5 l in 200 l.  
31-Jul-00 : B : : Combine harvested.

Previous crops: W. wheat 1998, s. peas 1999.

**NOTE:** Crop samples were taken at stem extension and grain at harvest for nitrogen and sulphur content. Grain was also tested for malting quality.

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GRAIN TONNES/HECTARE

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

SULPHUR

S0	3.17
S1	4.11
S2	3.91
S4	4.21
S2T	4.75

Mean	4.03
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\*\*\* Standard errors of differences of means \*\*\*

SULPHUR

0.470

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	12	0.665	16.5
GRAIN MEAN DM%	86.5		
PLOT AREA HARVESTED	0.00240		