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## Yields of the Field Experiments 1999

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### 99/W/CS/482 Diagnosis of S Deficiency - W. Wheat

#### Rothamsted Research

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99/R/CS/480

**DRY MATTER TONNES/HECTARE**

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

<b>GENOTYPE</b>	
1	9.18
2	12.72
3	12.23
4	12.08
5	6.28
6	11.26
7	12.31
8	5.39
9	12.80
10	11.06
11	6.45
12	5.51
13	7.29
14	3.10
15	4.53
Mean	8.81

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

**GENOTYPE**  
0.893

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	28	1.094	12.4
MEAN DM%	67.7		
PLOT AREA HARVESTED	0.00090		

99/W/CS/482

**DIAGNOSIS OF S DEFICIENCY**

**Object:** To develop reliable diagnostic methods for the prediction of sulphur deficiency - Woburn, Butt Close I.

**Sponsors:** F.J. Zhao, M.M.A. Blake-Kalff, S.P. McGrath.

The second year, w. wheat.

For previous year see 98/W/CS/482.

**Design:** 4 randomised blocks of 6 plots.

**Plot dimensions:** 3.0 x 12.0.

**Treatments:-**

SULPHUR	Kg of sulphur applied twice as gypsum (17.5% S):
S0	None
S1	5
S2	10
S3	20
S4	40
S5	80

**Experimental diary:**

04-Sep-98 : B : : Ploughed and pressed.  
21-Sep-98 : T : S1,S2,S3,S4,S5 : Gypsum at 29, 57, 114, 229 or 457 kg respectively.  
: B : : Rotary harrowed.  
25-Sep-98 : B : : Drilled, Rialto, tr. Beret Gold, at 380 seeds/m<sup>2</sup> with the Accord drill.  
01-Feb-99 : B : : Muriate of potash at 200 kg.  
18-Feb-99 : B : : 34.5% N at 145 kg.  
25-Feb-99 : B : : Platform S at 1.0 kg with Isoguard at 2.0 l in 200 l.  
03-Apr-99 : B : : 34.5% N at 377 kg.  
14-Apr-99 : T : S1,S2,S3,S4,S5 : Gypsum at 29, 57, 114, 229 or 457 kg respectively.  
25-Apr-99 : B : : tm)Folicur at 0.5 l in 200 l.  
: B : : tm)Tripart Brevis at 2.0 l in 200 l.  
27-May-99 : B : : tm)Folicur at 0.75 l in 200 l.  
: B : : tm)Sipcam UK Rover 500 at 1.0 l in 200 l.  
20-Aug-99 : B : : Combine harvested.