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## Yields of the Field Experiments 1999

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### 99/W/CS/439 Metal Salts - S. Wheat

#### Rothamsted Research

Rothamsted Research (2000) *99/W/CS/439 Metal Salts - S. Wheat* ; Yields Of The Field Experiments 1999, pp 77 - 78 - DOI: <https://doi.org/10.23637/ERADOC-1-34>

99/R/CS/429

**GRAIN TONNES/HECTARE**

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

<b>N</b>	
-	6.75
N1	7.30
N2	7.74
N3	8.11
N4	8.00
Mean	7.58

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

<b>N</b>
0.630

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	8	0.772	10.2
GRAIN MEAN DM%		87.6	

**STRAW TONNES/HECTARE**

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

<b>N</b>	
-	5.41
N1	6.16
N2	6.64
N3	8.21
N4	7.42
Mean	6.77

STRAW MEAN DM% 83.1

PLOT AREA HARVESTED 0.00230

99/W/CS/439

**METAL SALTS**

**Object:** To study the effects of zinc, copper and cadmium as metal salts on soil microbial activity - Woburn, Butt Close West.

**Sponsors:** S.P. McGrath, A. Chaudri.

The fifth year, s. wheat. For previous year see 98/W/CS/439.

**Design:** 3 randomised blocks of 11 plots.

**Whole plot dimensions:** 1.2 x 3.5.

**Treatments:**

**SALTS**

A	None (duplicated)
ZN1	Zinc at rate 1
ZN2	Zinc at rate 2
ZN3	Zinc at rate 3
CU1	Copper at rate 1
CU2	Copper at rate 2
CU3	Copper at rate 3
CD1	Cadmium at rate 1
CD2	Cadmium at rate 2
CD3	Cadmium at rate 3

**Experimental diary:**

22-Dec-98 : B : : Raked. Broadcast Riband, tr. Beret Gold, at 600 seeds/m<sup>2</sup> by hand. Raked.  
19-Mar-99 : B : : Raked. Broadcast Chablis, tr. Sibutol, at 330 seeds/m<sup>2</sup> by hand. Raked.  
29-Apr-99 : B : : Muriate of potash at 183 kg. 27% N at 648 kg.  
07-May-99 : B : : Ally at 30 g in 200 l.  
20-Aug-99 : B : : Hand harvested.

**NOTES:** (1) The winter wheat failed and was resown to s. wheat.  
(2) The yields of two plots with treatments CD1 and CU2 were lost due to poor establishment. Estimated values were used in the analysis.