

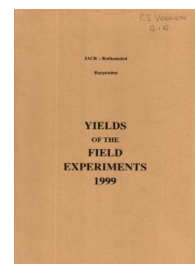
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## Yields of the Field Experiments 1999

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### 99/W/CS/428 Metal-amended Liquid Sludge - S. Wheat

#### Rothamsted Research

Rothamsted Research (2000) *99/W/CS/428 Metal-amended Liquid Sludge - S. Wheat* ; Yields Of The Field Experiments 1999, pp 73 - 74 - DOI: <https://doi.org/10.23637/ERADOC-1-34>

99/W/CS/427

**Experimental diary:**

07-May-99 : B : : Ally at 30 g 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.  
 22-Aug-99 : B : : Combine harvested, straw chopped.

**NOTE:** The yield of one plot was lost because of pest damage, with treatment T18. An estimated value was used in the analysis.

**GRAIN TONNES/HECTARE**

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

**SLUDGE**

T1	3.51
T2	4.91
T3	3.48
T4	4.41
T5	4.54
T6	4.23
T7	4.61
T8	3.40
T9	4.03
T10	4.08
T11	4.31
T12	3.87
T13	4.29
T14	3.93
T15	4.16
T16	4.44
T17	3.59
T18	4.50
T19	3.85
T20	4.42

Mean	4.15
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\*\*\* Standard errors of differences of means \*\*\*

**SLUDGE**

0.815	min.rep
0.706	max-min
0.576	max.rep

**SLUDGE**

max.rep	T1 v T2 or T16
max-min	T1 or T2 or T16 v any of the remainder
min.rep	Any of the remainder

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	46	0.998	24.1
GRAIN MEAN DM%	85.4		
		PLOT AREA HARVESTED	0.00184

99/W/CS/428

**METAL-AMENDED LIQUID SLUDGE**

**Object:** To study the effects of zinc, copper and cadmium on soil microbial activity with low organic matter inputs - Woburn, Butt Close West.

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

The fifth year, s. wheat.

For previous year see 98/W/CS/428.

**Design:** 3 randomised blocks of 13 plots.

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

**Treatments:**

**SLUDGE**

T21	None (duplicated)
T22	Uncontaminated (duplicated)
T23	Zinc, rate 1
T24	Zinc, rate 2
T25	Zinc, rate 3
T26	Copper, rate 1
T27	Copper, rate 2
T28	Copper, rate 3
T29	Cadmium, rate 1
T30	Cadmium, rate 2
T31	Cadmium, 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 167 kg. 27% N at 630 kg.  
07-May-99 : B : : Ally at 30 g in 200 l.  
20-Aug-99 : B : : Hand harvested.

**NOTE:** The w. wheat failed and was resown to s. wheat.