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

Rothamsted Research

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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

*** 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/m² by hand. Raked.
19-Mar-99 : B : : Raked. Broadcast Chablis, tr. Sibutol, at 330 seeds/m² 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.