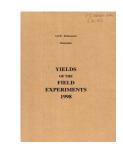
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Yields of the Field Experiments 1998



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98/W/CS/428 Metal-amended Liquid Sludge - Grass

Rothamsted Research

Rothamsted Research (1999) 98/W/CS/428 Metal-amended Liquid Sludge - Grass; Yields Of The Field Experiments 1998, pp 78 - 79 - DOI: https://doi.org/10.23637/ERADOC-1-52

98/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 fourth year, grass.

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:

```
10-Sep-97 : B : Gallup at 6.0 l in 200 l.
31-Oct-97 : T : Sludges applied as treatment.
31-Mar-98 : B : Muriate of potash at 120 kg. 34.5% N at 145 kg.
03-Apr-98 : T : SLUDGE T21: Triple superphosphate at 64 kg.
27% N at 370 kg.

08-May-98 : B : PDQ at 4.0 l in 200 l.
12-May-98 : B : Raked. Mixed ryegrass broadcast at 40 kg. Raked.
05-Oct-98 : B : Cut.
```

NOTE: Soils were sampled in spring and the grass in summer for chemical analysis.

98/W/CS/428

1ST AND ONLY CUT (5/10/1998) DRY MATTER TONNES/HECTARE

**** Tables of means ****

SLUDGE 1.12 T21 T22 2.63 1.97 T23 2.61 T24 2.65 T25 2.47 T26 3.03 T27 3.00 T28 2.40 T29 2.10 T30 2.84 T31

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

2.35

SLUDGE

Mean

0.470 min.rep

0.407 max-min

0.333 max.rep

SLUDGE

max-min T21 or T22 v any of the remainder min.rep Any of the remainder

max.rep T21 v T22 only

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

Stratum d.f. s.e. cv%

BLOCK.WP 26 0.576 24.5

1ST CUT MEAN DM% 14.0

PLOT AREA HARVESTED BETWEEN 0.00020 and 0.00024