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00/W/CS/439 Metal Salts - Grass

Rothamsted Research

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00/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 sixth year, grass. For previous year see 98-99/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:

28-Aug-99	: B :	: Alpha Glyphogan at 3.0 l in 200 l.
07-Sep-99	: B :	: Hand dug and raked.
01-Oct-99	: B :	: tm)PDQ at 3.0 l in 200 l.
	: B :	: tm)Enhance Low Foam at 100 ml in 200 l.
13-Oct-99	: B :	: Hand raked. Broadcast Cotswold ryegrass Mix A at 40 kg. Rolled.
12-Nov-99	: B :	: Spannit at 1.5 l in 100 l.
25-Feb-00	: B :	: Muriate of potash at 167 kg. 34.5% N at 116 kg.
19-Mar-00	: B :	: Legumex Extra at 7.0 l in 200 l.
07-Apr-00	: B :	: Broadcast Danergo and Ligrane ryegrass 50:50 mix at 100 kg.
11-Apr-00	: B :	: 27.0% N at 407 kg.
14-Jun-00	: B :	: Cut.
17-Jul-00	: B :	: Azural at 4.0 l in 200 l.

00/W/CS/439

1ST CUT (16/6/00) DRY MATTER TONNES/HECTARE

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

SALTS

A	5.56
ZN1	5.47
ZN2	5.62
ZN3	5.44
CU1	5.88
CU2	5.63
CU3	5.79
CD1	5.47
CD2	5.71
CD3	6.32

Mean 5.68

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

SALTS

0.581 min.rep
0.503 max-min

SALTS

max-min A 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	21	0.712	12.5
1ST CUT MEAN DM%	29.2		
PLOT AREA HARVESTED	0.00032		