

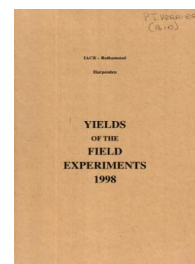
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98/W/CS/439 Metal Salts - Grass

Rothamsted Research

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98/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.

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:

10-Sep-97 : B : Barclay Gallup at 6.0 l in 200 l.
31-Mar-98 : B : Muriate of potash at 120 kg. 34.5% N at 145 kg.
03-Apr-98 : B : 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/439

1ST AND ONLY CUT (5/10/98) DRY MATTER TONNES/HECTARE

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

SALTS

A	1.12
ZN1	1.10
ZN2	1.35
ZN3	1.29
CU1	1.06
CU2	0.84
CU3	0.79
CD1	0.84
CD2	1.10
CD3	0.92

Mean 1.04

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

SALTS

0.239 min.rep
0.207 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	0.293	28.0
1ST CUT MEAN DM%	15.6		
PLOT AREA HARVESTED (MEAN)	0.00022		