

Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1998

[Full Table of Content](#)



98/W/CS/439 Metal Salts - Grass

Rothamsted Research

Rothamsted Research (1999) *98/W/CS/439 Metal Salts - Grass* ; Yields Of The Field Experiments 1998, pp 84 - 85 - DOI: <https://doi.org/10.23637/ERADOC-1-52>

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		