

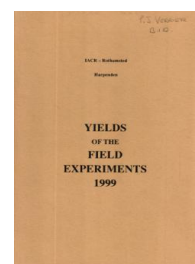
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99/W/CS/427 Contaminated Sludge Cake - W. Wheat

Rothamsted Research

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99/R/CS/411

DRY MATTER TONNES/HECTARE

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

	N	-	N1	Mean
VARIETY				
CAVIN R	10.78		13.27	12.03
KANLOW	12.15		11.46	11.81
PATHFIND	11.65		10.21	10.93
SUNBURST	9.76		9.52	9.64
FORESTB	10.14		8.60	9.37
NEBR 28	10.33		11.36	10.85
DACOTAH	7.11		7.89	7.50
Mean	10.28		10.33	10.30

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

VARIETY	N	VARIETY	N
0.777	0.415	1.099	

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	26	1.346	13.1

MEAN DM% 56.7

PLOT AREA HARVESTED 0.00047

99/W/CS/427

CONTAMINATED SLUDGE CAKE

Object: To test the effect of zinc, copper or cadmium enriched sewage sludges on soil microbial activity and agricultural productivity - Woburn, Butt Close West.

Sponsors: S.P. McGrath, A. Chaudri.

The fifth year, w. wheat.

For previous years see 98/W/CS/427.

Design: 3 randomised blocks of 23 plots.

Whole plot dimensions: 6.0 x 8.0.

Treatments:

SLUDGE

T1	None (duplicated)
T2	Uncontaminated, digested low rate (quadruplicated)
T3	Uncontaminated, undigested low rate (duplicated)
T4	Zinc 150
T5	Zinc 250
T6	Zinc 350
T7	Zinc 450
T8	Copper 50
T9	Copper 100
T10	Copper 150
T11	Copper 200
T12	Cadmium 1
T13	Cadmium 2
T14	Cadmium 3
T15	Cadmium 4
T16	Uncontaminated, digested low rate + nitrogen (duplicated)
T17	Uncontaminated, undigested low rate + nitrogen (duplicated)
T18	Zinc 15 kg per annum
T19	Copper 7.5 kg per annum
T20	Cadmium 0.15 kg per annum

Experimental diary:

24-Sep-98	: B :	: tm)Alpha Glyphogan at 3.0 l in 200 l.
	: B :	: tm)Codacide Oil at 0.5 l in 200 l.
16-Oct-98	: T :	: Sludges applied as treatment.
17-Nov-98	: B :	: Mechanical spade cultivated.
19-Nov-98	: B :	: Rolled. Drilled Riband, tr. Anchor, at 380 seeds/m ² with the Accord drill.
23-Nov-98	: B :	: Decoy at 5.0 kg.
19-Mar-99	: B :	: tm)Isoguard at 2.0 l in 200 l.
	: B :	: tm)Platform S at 1.0 kg in 200 l.
03-Apr-99	: B :	: 34.5% N at 116 kg.
25-Apr-99	: B :	: tm)Folicur at 0.5 l in 200 l.
	: B :	: tm)Tripart Brevis at 2.0 l in 200 l.
29-Apr-99	: B :	: Muriate of potash at 150 kg. 27% N at 370 kg.