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77/R/CS/131 Effects of Earthworm Destruction - Old Grass

Rothamsted Research

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77/R/CS/131

EFFECTS OF EARTHWORM DESTRUCTION

Object: To study the effects of eliminating earthworms on yield and soil structure of old grass - Appletree.

Sponsor: J.R. Lofty.

The fourth year, old grass.

For previous years see 74-76/R/CS/131.

Design: 4 blocks of 4 plots.

Whole plot dimensions: 7.62 x 7.62.

Treatments: Chemicals:-

CHEMICAL

NONE	None (duplicated)
BENOMYL	Benomyl at 5 kg in 1974 and at 2.5 kg in 1976
CHLORDAN	Chlordane at 10 kg in 1974 only

Basal applications: Manures: (0:14:28) at 500 kg in winter. (25:0:16) at 440 kg in spring and at 220 kg after the first two cuts.

Cultivations, etc.: - PK applied: 13 Dec, 1976. NK applied: 3 Mar, 1977, 31 May, 1 Aug. Cut three times: 25 May, 21 July, 14 Nov.

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1ST CUT (25/5/77) DRY MATTER TONNES/HECTARE

***** TABLES OF MEANS *****

CHEMICAL	NONE	BENOMYL	CHLORDAN	MEAN
	3.75	3.87	3.92	3.82

***** STANDARD ERRORS OF DIFFERENCES OF MEANS *****

TABLE	CHEMICAL
SED	0.124 MIN REP 0.107 MAX-MIN

CHEMICAL
MAX-MIN NONE V ANY OF REMAINDER
MIN REP ANY OF REMAINDER

***** STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATION *****

STRATUM	DF	SE	CV%
BLOCK.WP	10	0.175	4.6
1ST CUT MEAN DM%	17.8		

2ND CUT (21/7/77) DRY MATTER TONNES/HECTARE

***** TABLES OF MEANS *****

CHEMICAL	NONE	BENOMYL	CHLORDAN	MEAN
	5.04	4.69	4.81	4.89

***** STANDARD ERRORS OF DIFFERENCES OF MEANS *****

TABLE	CHEMICAL
SED	0.262 MIN REP 0.227 MAX-MIN

***** STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATION *****

STRATUM	DF	SE	CV%
BLOCK.WP	10	0.371	7.6
2ND CUT MEAN DM%	23.8		

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3RD CUT (14/11/77) DRY MATTER TONNES/HECTARE

***** TABLES OF MEANS *****

CHEMICAL	NONE	BENOMYL	CHLORDAN	MEAN
	2.86	2.51	2.90	2.78

***** STANDARD ERRORS OF DIFFERENCES OF MEANS *****

TABLE	CHEMICAL
SED	0.388 MIN REP 0.336 MAX-MIN

***** STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATION *****

STRATUM	DF	SE	CV%
BLOCK.WP	10	0.549	19.7

3RD CUT MEAN DM% 21.3

TOTAL OF 3 CUTS DRY MATTER TONNES/HECTARE

***** TABLES OF MEANS *****

CHEMICAL	NONE	BENOMYL	CHLORDAN	MEAN
	11.65	11.07	11.64	11.50

***** STANDARD ERRORS OF DIFFERENCES OF MEANS *****

TABLE	CHEMICAL
SED	0.423 MIN REP 0.366 MAX-MIN

***** STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATION *****

STRATUM	DF	SE	CV%
BLOCK.WP	10	0.598	5.2

TOTAL OF 3 CUTS MEAN DM% 21.0

PLOT AREA HARVESTED 0.00046