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Yields of the Field Experiments 1975

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

Rothamsted Research

Rothamsted Research (1976) 75/ R/CS/131 - *Effects of Earthworm Destruction - Old Grass* ; Yields Of The Field Experiments 1975, pp 218 - 220 - DOI: <https://doi.org/10.23637/ERADOC-1-141>

75/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 2nd year, old grass.

For previous year see 74/R/CS/131.

Design: 4 blocks of 4 plots.

Whole plot dimensions: 7.62 x 7.62.

Treatments: Chemicals (applied 1974):-	CHEMICAL(74)
None (2 plots per block)	NONE
Benomyl at 5 kg	BENOMYL
Chlordane at 10 kg	CHLORDAN

Basal applications: Manures: (0:14:28) at 500 kg in winter, (25:0:16) at 440 kg for the first cut and at 220 kg for the second and third cut.

Cultivations, etc.:- PK applied: 16 Jan. NK applied: 5 Mar, 16 June, 18 Aug. Cut: 29 May, 31 July, 7 Nov.

NOTE: Soil samples were taken in spring and autumn to assess earthworm populations.

75/R/CS/131

1ST CUT (29/5/75) DRY MATTER TONNES/HECTARE

*** TABLES OF MEANS ***

CHEMICAL(74)	NONE	BENOMYL	CHLORDAN	MEAN
	6.01	6.01	6.06	6.03

*** STANDARD ERROR OF DIFFERENCES OF MEANS ***

TABLE	CHEMICAL(74)
SED	0.280 (1) 0.323 (2)

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

	DF	SE	CV%
BLOCK.WP	10	0.457	7.6

MEAN DM% 17.3

2ND CUT (31/7/75) DRY MATTER TONNES/HECTARE

*** TABLES OF MEANS ***

CHEMICAL(74)	NONE	BENOMYL	CHLORDAN	MEAN
	3.42	3.04	2.84	3.10

*** STANDARD ERROR OF DIFFERENCES OF MEANS ***

TABLE	CHEMICAL(74)
SED	0.312 (1) 0.361 (2)

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

	DF	SE	CV%
BLOCK.WP	10	0.510	16.0

MEAN DM% 33.9

75/R/CS/131

3RD CUT (7/11/75) DRY MATTER TONNES/HECTARE

*** TABLES OF MEANS ***

CHEMICAL(74)	NONE	BENOMYL	CHLORDAN	MEAN
	1.75	2.01	1.59	1.78

*** STANDARD ERROR OF DIFFERENCES OF MEANS ***

TABLE	CHEMICAL(74)
SED	0.217 (1) 0.250 (2)

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

	DF	SE	CV%
BLOCK.WP	10	0.354	20.0

MEAN DM% 21.5

TOTAL OF 3 CUTS DRY MATTER TONNES/HECTARE

*** TABLES OF MEANS ***

CHEMICAL(74)	NONE	BENOMYL	CHLORDAN	MEAN
	11.18	11.06	10.49	10.91

*** STANDARD ERROR OF DIFFERENCES OF MEANS ***

TABLE	CHEMICAL(74)
SED	0.321 (1) 0.371 (2)

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

	DF	SE	CV%
BLOCK.WP	10	0.524	4.8

MEAN DM% 24.2

PLOT AREA HARVESTED 0.00046