

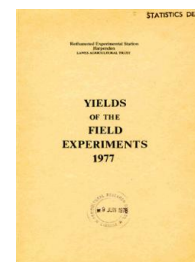
Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1977

[Full Table of Content](#)



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

Rothamsted Research

Rothamsted Research (1978) *77/R/CS/131 Effects of Earthworm Destruction - Old Grass* ; Yields Of The Field Experiments 1977, pp 168 - 170 - DOI: <https://doi.org/10.23637/ERADOC-1-29>

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.

77/R/CS/131

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		

77/R/CS/131

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