

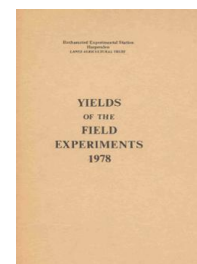
Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1978

[Full Table of Content](#)



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

Rothamsted Research

Rothamsted Research (1979) *78/R/CS/131 Effects of Earthworm Destruction - Old Grass* ; Yields Of The Field Experiments 1978, pp 171 - 173 - DOI: <https://doi.org/10.23637/ERADOC-1-30>

78/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 fifth year, old grass.

For previous years see 74-77/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: Chalk at 7.5 t. (0:14:28) at 500 kg in winter. (25:0:16) at 440 kg in spring and at 220 kg after each of the first two cuts.

Cultivations, etc.: - Chalk applied: 6 Dec, 1977. PK applied: 8 Dec. NK applied: 7 Mar, 1978. Cut three times: 5 June, 24 July, 3 Nov. NK applied: 8 June, 28 July.

78/R/CS/131

1ST CUT (5/6/78) DRY MATTER TONNES/HECTARE

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

CHEMICAL	NONE	BENOMYL	CHLORDAN	MEAN
	4.79	5.36	5.09	5.01

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

TABLE	CHEMICAL
SED	0.390 MIN REP 0.338 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	0.552	11.0
1ST CUT MEAN DM%	14.1		

2ND CUT (24/7/78) DRY MATTER TONNES/HECTARE

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

CHEMICAL	NONE	BENOMYL	CHLORDAN	MEAN
	2.76	2.94	2.92	2.85

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

TABLE	CHEMICAL
SED	0.169 MIN REP 0.146 MAX-MIN

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

STRATUM	DF	SE	CV%
BLOCK.WP	10	0.239	8.4
2ND CUT MEAN DM%	19.1		

78/R/CS/131

3RD CUT (3/11/78) DRY MATTER TONNES/HECTARE

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

CHEMICAL	NONE	BENOMYL	CHLORDAN	MEAN
	3.90	4.35	3.72	3.97

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

TABLE	CHEMICAL
SED	0.452 MIN REP 0.392 MAX-MIN

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

STRATUM	DF	SE	CV%
BLOCK.WP	10	0.639	16.1
3RD CUT MEAN DM% 29.8			

TOTAL OF 3 CUTS DRY MATTER TONNES/HECTARE

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

CHEMICAL	NONE	BENOMYL	CHLORDAN	MEAN
	11.45	12.65	11.73	11.82

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

TABLE	CHEMICAL
SED	0.334 MIN REP 0.289 MAX-MIN

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

STRATUM	DF	SE	CV%
BLOCK.WP	10	0.472	4.0
TOTAL OF 3 CUTS MEAN DM% 21.0			
PLOT AREA HARVESTED 0.00046			