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Yields of the Field Experiments 1975

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75/ R/C S/130 - Effects of Earthworm Inoculation - Ley

Rothamsted Research

Rothamsted Research (1976) 75/ R/C S/130 - *Effects of Earthworm Inoculation - Ley* ; Yields Of The Field Experiments 1975, pp 215 - 217 - DOI: <https://doi.org/10.23637/ERADOC-1-141>

75/R/CS/130

EFFECTS OF EARTHWORM INOCULATION

Object: To study the effects of different species of earthworms on yield and other characteristics of grass - Fosters O & E.

Sponsor: J.R. Lofty.

The second year, ley.

For previous year see 74/R/CS/130.

Design: 3 blocks of 4 plots.

Whole plot dimensions: 8.53 x 9.14.

Treatments: Inoculation with earthworm species cumulative on 1974 treatments:

None

Allolobophora longa at 5000 per hectare

Lumbricus terrestris at 5000 per hectare

Six species - A. caliginosa, A. chlorotica,

A. longa, A. rosea, L. rubellus,

L. terrestris at a total of 12000 per hectare

WORMSPEC

NONE

ALLOLOBO

LUMBRICU

SIX SPEC

NOTE: Earthworms were applied on 11 March, 1975.

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 cuts.

Cultivations, etc.: - PK applied: 9 Jan, 1975. NK, applied: 5 Mar, 4 June, 18 Aug. Cut: 28 May, 31 July, 7 Nov.

75/R/CS/130

1ST CUT (28/5/75) DRY MATTER TONNES/HECTARE

*** TABLES OF MEANS ***

WORMSPEC	NONE	ALLOLOBO	LUMBRICU	SIXSPEC	MEAN
	2.79	2.74	2.95	2.68	2.79

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

TABLE	WORMSPEC
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SED	0.290

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

STRATUM	DF	SE	CV%
BLOCK.WP	6	0.355	12.7

1ST CUT MEAN DM% 22.3

1ST CUT PLOT AREA HARVESTED 0.00093

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

*** TABLES OF MEANS ***

WORMSPEC	NONE	ALLOLOBO	LUMBRICU	SIXSPEC	MEAN
	1.00	0.78	0.75	0.78	0.83

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

TABLE	WORMSPEC
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SED	0.1623

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

STRATUM	DF	SE	CV%
BLOCK.WP	6	0.1988	24.0

2ND CUT MEAN DM% 39.4

2ND PLOT AREA HARVESTED 0.00046

75/R/CS/130

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

*** TABLES OF MEANS ***

WORMSPEC	NONE	ALLOLOBO	LUMBRICU	SIXSPEC	MEAN
	1.77	1.78	1.65	1.65	1.71

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

TABLE	WORMSPEC
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SED	0.142

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

STRATUM	DF	SE	CV%
BLOCK.WP	6	0.174	10.2

3RD CUT MEAN DM% 21.8

3RD CUT PLOT AREA HARVESTED 0.00046

TOTAL OF 3 CUTS DRY MATTER TONNES/HECTARE

*** TABLES OF MEANS ***

WORMSPEC	NONE	ALLOLOBO	LUMBRICU	SIXSPEC	MEAN
	5.56	5.30	5.35	5.11	5.33

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

TABLE	WORMSPEC
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SED	0.328

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

STRATUM	DF	SE	CV%
BLOCK.WP	6	0.402	7.5

TOTAL OF 3 CUTS MEAN DM% 27.8