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76/R/CS/130 Effects of Earthworm Inoculation - Ley

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76/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 third year, ley.

For previous years see 74-75/R/CS/130.

Design: 3 blocks of 4 plots.

Whole plot dimensions: 8.53 x 9.14.

Treatments: Inoculation with earthworm species in 1974 and 1975:

WORMSPEC

NONE	None
ALLOLOBO	Allolobophora longa at 15,000 per hectare in 1974; 5,000 in 1975
LUMBRICU	Lumbricus terrestris at 5,000 per hectare in 1974 and 1975
SIX SPEC	Six species - A. caliginosa, A. chlorotica, A. longa, A. rosea, L. rubellus, L. terrestris at a total of 35,000 per hectare in 1974, 12,000 in 1975

NOTE: The experiment was ploughed in error on 8 July after the first cut. Drought prevented resowing until September.

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

Cultivations, etc.: PK applied: 3 Dec, 1975. NK applied: 25 Feb, 1976, 24 May. Cut: 19 May. Ploughed: 8 July.

NOTE: Earthworm populations were assessed in March.

1ST AND ONLY CUT (19/5/76) DRY MATTER TONNES/HECTARE

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

WORMSPEC	NONE	ALLOLOBO	LUMBRICU	SIX SPEC	MEAN
	2.42	2.09	2.50	2.40	2.35

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

TABLE	WORMSPEC
SED	0.298

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

STRATUM	DF	SE	CV%
BLOCK.WP	6	0.365	15.5
MEAN DM%	23.8		
PLOT AREA HARVESTED	0.00046		