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78/R/CS/156 Leatherjacket Study - Old Grass

Rothamsted Research

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78/R/CS/156

LEATHERJACKET STUDY

Object: To study the effects of protection from bird predation on leatherjacket populations and yield of old grass - Road Piece.

Sponsors: J. Bowden, J.R. Lofty.

The fourth year on this site, first year of new treatments, old grass.

For previous years see 75-76/R/CS/156.

Design: 3 blocks of 6 plots.

Whole plot dimensions: 2.74 x 3.66.

Treatments (ignoring those applied in 1975-1976). The experiment was treated uniformly in 1977, no yields taken:

TREATMNT

NONE	No protection
GRS SEPT	Long grass allowed to grow on this treatment in September 1977 by omitting the penultimate cut in that year
NET E	Covered by bird-proof netting 13 December 1977 - 8 March 1978
NET M	" " " " " 8 March - 5 May
NET L	" " " " " 5 May - 26 June
NET EML	" " " " " 13 December - 26 June

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

Cultivations, etc.: - PK applied: 8 Dec, 1977. NK applied: 7 Mar, 1978, 4 Aug. Cut: 5 June, 27 July, 6 Nov.

NOTES: (1) An intended application of (25:0:16) in June was not applied.
(2) The plots were sampled for leatherjackets several times during the season.

78/R/CS/156

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

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

TREATMNT	NONE	GRS	SEPT	NET E	NET M	NET L	NET EML	MEAN
	5.26		5.04	5.47	5.28	5.29	5.42	5.29

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

TABLE	TREATMNT
SED	0.405

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

STRATUM	DF	SE	CV%
BLOCK.WP	10	0.496	9.4

1ST CUT MEAN DM% 18.7

2ND CUT (27/7/78) DRY MATTER TONNES/HECTARE

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

TREATMNT	NONE	GRS	SEPT	NET E	NET M	NET L	NET EML	MEAN
	1.48		1.22	1.47	1.48	1.35	1.65	1.44

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

TABLE	TREATMNT
SED	0.176

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

STRATUM	DF	SE	CV%
BLOCK.WP	10	0.216	15.0

2ND CUT MEAN DM% 26.6

78/R/CS/156

3RD CUT (6/11/78) DRY MATTER TONNES/HECTARE

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

TREATMNT	NONE	GRS	SEPT	NET E	NET M	NET L	NET EML	MEAN
	3.90		3.50	3.84	3.75	3.74	3.25	3.66

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

TABLE	TREATMNT
SED	0.311

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

STRATUM	DF	SE	CV%
BLOCK.WP	10	0.380	10.4

3RD CUT MEAN DM% 34.0

TOTAL OF 3 CUTS DRY MATTER TONNES/HECTARE

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

TREATMNT	NONE	GRS	SEPT	NET E	NET M	NET L	NET EML	MEAN
	10.64		9.76	10.78	10.51	10.38	10.32	10.40

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

TABLE	TREATMNT
SED	0.519

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

STRATUM	DF	SE	CV%
BLOCK.WP	10	0.636	6.1

TOTAL OF 3 CUTS MEAN DM% 26.4

PLOT AREA HARVESTED 0.00037