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

Rothamsted Research

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79/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 fifth year, old grass.

For previous years see 75-78/R/CS/156.

Design: 3 blocks of 6 plots.

Whole plot dimensions: 2.74 x 3.66.

Treatments:

TREATMNT

NONE	No protection (duplicated)	
NET E	Covered by bird-proof netting	16 Nov, 1978 - 29 Jan, 1979
NET L	" " " " "	19 Feb - 17 May
NET EL	" " " " "	16 Nov - 17 May
NET EL G	" " " " "	16 Nov - 17 May but with a gap at ground level

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: 16 Nov, 1978. NK applied: 5 Mar, 1979. Cut three times: 31 May, 24 July, 28 Sept. NK applied: 13 June, 24 July.

NOTE: The plots were sampled for leatherjackets several times during the season.

79/R/CS/156

1ST CUT (31/5/79) DRY MATTER TONNES/HECTARE

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

TREATMNT	NONE	NET E	NET L	NET EL	NET EL G	MEAN
	4.18	3.72	4.19	4.54	4.33	4.19

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

TABLE	TREATMNT
SED	0.277 MIN REP 0.240 MAX-MIN

TREATMNT
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	11	0.339	8.1

1ST CUT MEAN DM% 15.6

2ND CUT (24/7/79) DRY MATTER TONNES/HECTARE

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

TREATMNT	NONE	NET E	NET L	NET EL	NET EL G	MEAN
	2.28	2.20	2.23	1.98	2.10	2.18

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

TABLE	TREATMNT
SED	0.321 MIN REP 0.278 MAX-MIN

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

STRATUM	DF	SE	CV%
BLOCK.WP	11	0.393	18.1

2ND CUT MEAN DM% 20.0

79/R/CS/156

3RD CUT (28/9/79) DRY MATTER TONNES/HECTARE

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

TREATMNT	NONE	NET E	NET L	NET EL	NET EL G	MEAN
	2.34	2.64	2.60	2.42	2.16	2.42

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

TABLE	TREATMNT
SED	0.160 MIN REP 0.139 MAX-MIN

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

STRATUM	DF	SE	CV%
BLOCK.WP	11	0.196	8.1

3RD CUT MEAN DM% 24.3

TOTAL OF 3 CUTS DRY MATTER TONNES/HECTARE

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

TREATMNT	NONE	NET E	NET L	NET EL	NET EL G	MEAN
	8.80	8.56	9.02	8.94	8.58	8.78

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

TABLE	TREATMNT
SED	0.631 MIN REP 0.546 MAX-MIN

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

STRATUM	DF	SE	CV%
BLOCK.WP	11	0.772	8.8

TOTAL OF 3 CUTS MEAN DM% 20.0

PLOT AREA HARVESTED 0.00037