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Numerical Results of the Field Experiments 1970



Full Table of Content

70/R/CS/13 N and Mg Levels to Old Grass

Rothamsted Research

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N AND Mg LEVELS TO OLD GRASS

(70/R/CS/13)

Old grass, Park Grass plot 6, 1970, the sixth year.

For previous years' results see 'Results' 65/C/33, 66/C/14, 67/C/10, 68/C/8 and 69/R/CS/13.

Area of each plot: 0.0045. Area harvested: 0.0021.

Additional treatments: A test of 25 (M1) v 50 lb (M2) Mg as magnesium sulphate applied in spring has been added in combination with the other residual treatments. A certain high order interaction is confounded with block differences. All plots are now cut 4 times a year and the 'Nitro-Chalk' is applied in equal dressings for each cut. Total N rates per year are unchanged. Basal applications of sodium and magnesium have been discontinued.

Basal application: 23 cwt ground chalk.

Cultivations, etc.: Basal PK applied: 20 Feb, 1970. Test Mg applied: 23 Feb. N applied: 16 Mar. Ground chalk applied: 16 Apr. S plots sprayed with mecoprop at 45 oz a.e. in 40 gals: 1 May. S plots spot-sprayed with mecoprop at the same rate: 1 Sept. Plots cut: 20 May, 16 July, 4 Sept, 23 Oct. N applied after each cut except the last.

Standard errors per plot. Dry matter, cwt:

1st cut:
2nd cut:
3rd cut:
4th cut:
1.76 or 7.8% (14 d.f.)
1.71 or 10.7% (14 d.f.)
1.16 or 13.9% (14 d.f.)
Total of all 4 cuts:
3.81 or 6.6% (14 d.f.)

70/R/CS/13 SUMMARY OF RESULTS

DRY MATTER: CWT

	NO	Nl	N2	N3	Mean	SNO
		15	T CUT	ent can	T.C santh -	* **
1969		(±0.89)				
C3 C6	10.4	15.7 16.6	29.6 30.1	35.7 35.7	22.8 22.9	1.9
1970 M1 M2	9.7 10.1	15.9 16.3	29.8 29.8	35•7 35•7	22.8 23.0	1.8
Mean (±0.63)	9.9	16.1	29.8	35.7	22.9	1.8
		21	D CUT			
1969	3.30	(±1.	05)		(±0.53)	
C3 C6	12.7 11.4	11.6	12.1 11.3	7.5 7.5	11.0	3.9
1970 M1 M2	12.7	11.6	12.4	8.0 6.9	11.2	3.7 3.7
Mean (±0.74)	12.0	11.6	11.7	7.5	10.7	3.7
lst cut: 2nd cut:	Gen	eral mean: 18.7 9.3	Mean	D.M. %: 19.6 28.0		

144

70/R/CS/13
DRY MATTER: CWT

382	NO	Nl	N2	из	Mean	SNO
			3RD CUT			
1969		(±0.	(±0.43)			
C3 C6 0,01	9.9	12.2 12.9	20.2 19.5	19.9	15.9 16.0	3.2 3.8
1970 M1 M2	10.5	13.0 12.1	20.4	21.1 20.4	16.3 15.6	3.2 3.8
Mean (±0.60)	10.5	12.6	19.9	20.8	15.9	3.5
			4TH CUT			
1969	10.5 13.0 20.4 21.1 10.4 12.1 19.3 20.4 10.5 12.6 19.9 20.8 4TH CUT (±0.58) 4.1 6.7 11.6 10.7 12.0 12.0 12.0 12.0 12.0 12.0				(±0.29)	T in
C3 C6					8.3 8.4	3.0
1970 M1 M2					8.6 8.1	2.7
Mean (±0.41)	4.1	6.6	11.3	11.4	8.4	2.6

3rd cut: 4th cut: General mean: 13.4 7.2 Mean D.M. %: 22.8 25.0

70/R/CS/13

DRY MATTER: CWT

	NO	Nl	N2	м3	Mean	SNO
		TOTAL	OF 4 CUTS		Linker our	7 (0150
1969		(±1.	(±0.95)			
C3 C6	38.2 34.8	46.3 47.6	73.6 71.9	73.8 76.9	58.0 57.8	12.0 11.1
1970 M1 M2	37.3 35.7	47.8 46.1	74.1 71.5	76.4 74.3	58.9 56.9	11.5
Mean (±1.35)	36.5	47.0	72.8	75.3	57.9	11.6

General mean: 48.6

Mean D.M. %: 23.8