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Numerical Results of the Field Experiments 1970



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70/R/CS/23 Simulated Grazing - Old Grass

Rothamsted Research

Rothamsted Research (1971) 70/R/CS/23 Simulated Grazing - Old Grass; Numerical Results Of The Field Experiments 1970, pp 162 - 165 - DOI: https://doi.org/10.23637/ERADOC-1-59

SIMULATED GRAZING

(70/R/CS/23)

Old grass, plot 6 Park Grass 1970 the fourth year. For treatments, etc., and for previous years' results see 'Results' 67/C/38, 68/C/29 and 69/R/CS/23.

Treatments C+H and HC+ were replaced by treatments C+ (cuttings returned after each cut) and G- (cuttings removed). The new treatments were allocated at random for each N level in each block.

Cultivations, etc.: Basal P, K, Na and Mg applied: 4 Dec, 1969.
The following treatments were cut on the dates shown:-

24 Apr, 1970: G+ G- G-H 11 May: 12 May: G+ G- G-H 1 June: G+ G- HG- 18 June: G+ G- HG- 30 June: G+ G- G-H 21 July: G+ G- G-H 4 Aug: G+ G- G-H 2 Sept: G+ G- G-H 16 Sept: G+ G- HG- 5 Oct: G+ G- G-H 16 G- HG- 17 HG- HG- 18 June: HG- HG- 19 HG- HG- 10 HG- HG- 11 HG-			100	acte eno	OTT OTT	uaces	DITOMIT
12 May: G+ G- G-H 1 June: G+ G- HG- 18 June: G+ G- HG- 30 June: G+ G- G-H HG- H 21 July: G+ G- G-H 4 Aug: G+ G- G-H 2 Sept: G+ G- G-H HG- H 16 Sept: G+ G- HG- 5 Oct: G+ G- HG-	24 1	Apr, 1970:	G+	G-	G-H		
1 June: G+ G- HG- 18 June: G+ G- HG- 30 June: G+ G- G-H HG- H 21 July: G+ G- G-H 4 Aug: G+ G- G-H 2 Sept: G+ G- G-H HG- H 16 Sept: G+ G- HG- 5 Oct: G+ G- HG-	11 N	May:				HG-	H
18 June: G+ G- HG- 30 June: G+ G- G-H HG- H 21 July: G+ G- G-H 4 Aug: G+ G- G-H 2 Sept: G+ G- G-H HG- H 16 Sept: G+ G- HG- 5 Oct: G+ G- HG-	12 N	May:	G+	G-	G-H		
30 June: G+ G- G-H HG- H 21 July: G+ G- G-H 4 Aug: G+ G- G-H 2 Sept: G+ G- G-H HG- H 16 Sept: G+ G- HG- 5 Oct: G+ G- HG-	1 3	June:	G+	G-		HG-	
21 July: G+ G- G-H 4 Aug: G+ G- G-H 2 Sept: G+ G- G-H HG- H 16 Sept: G+ G- HG- 5 Oct: G+ G- HG-	18 3	June:	C+	G-		HG-	
4 Aug: G+ G- G-H 2 Sept: G+ G- G-H HG- H 16 Sept: G+ G- HG- 5 Oct: G+ G- HG-	30 3	June:	G+	G-	G-H	HG-	H
2 Sept: G+ G- G-H HG- H 16 Sept: G+ G- HG- 5 Oct: G+ G- HG-	21 3	July:	G+	G-	G-H		
16 Sept: G+ G- HG- 5 Oct: G+ G- HG-	4 A	Aug:	G+	G-	G-H		
5 Oct: G+ G- HG-	2 8	Sept:	G+	G-	G-H	HG-	H
	16 5	Sept:	G+	G-		HG-	
26 Oct: G+ G- G-H HG- H	5.0	Oct:	G+	G-		HG-	
	26 0	Oct:	G+	G-	G-H	HG-	H

Calcium nitrate applied on 16 Mar, 12 May, 30 June, 2 Sept.

- NOTES: (1) On the G+ plots some grass returned at previous cutting was recovered by the rotary mower. Therefore these yields were overestimated.
 - (2) The percentages of N, P and K in the dry grass were measured.

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Standard errors per plot. Dry matter, cwt:

1st Period (cuts 1-2):
2nd Period (cuts 3-5):
3.18 or 19.6% (28 d.f.)
3rd Period (cuts 6-8):
4th Period (cuts 9-11):
1.26 or 14.8% (28 d.f.)
Total of all 4 Periods (cuts 1-11): 4.65 or 8.0% (28 d.f.)
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70/R/CS/23

SUMMARY OF RESULTS

DRY MATTER: CWT

1ST PERIOD

Treatment	Н	H(G-)	G-(H)	G+	G-	Mean
Cut with	М	М	R	R	R	
			(±2.04)			(±0.91)
NO N1	3.3 20.7 29.8	2.3 18.7 29.6	5.4 13.8 20.6	6.0 15.7 23.3	6.7 16.8 20.4	4.7 17.1 24.7
Mean (±1.18)	18.0	16.9	13.3	15.0	14.6	15.5

R plots cut twice.

2ND PERIOD

Treatment	Н	(H)G-	(G-)H	G+	G-	Mean
Cut with	М	R	М	R	R	
115 STE 2013	-3847 9		(±1.84)			(±0.82)
NS NI NO	14.4 17.5 15.7	9.6 11.6 10.3	16.6 18.5 22.3	17.7 28.8 25.1	10.2 11.7 12.8	13.7 17.6 17.2
Mean (±1.06)	15.9	10.5	19.1	23.9	11.6	16.2

R plots cut three times.

M = Motor scythe

R = Rotary mower

()= Not applied in this period

70/R/CS/23

DRY MATTER: CWT

3RD PERIOD

Treatment	Н	H(G-)	G-(H)	G+	G-	Mean	
Cut with	М	М	R	R	R		
			(±1.60)			(±0.71)	
NO N1 N2	11.9 18.4 26.4	12.3 22.2 31.9	11.8 14.2 20.6	7.9 20.3 22.7	7.4 13.0 21.5	10.3 17.6 24.6	
Mean (±0.92)	18.9	22.1	15.5	17.0	14.0	17.5	

R plots cut three times

4TH PERIOD

Treatment	Н	(H)G-	(G-)H	G+	G-	Mean
Cut with	M	R	М	R	R	
			(±0.73)			(±0,32)
NO NI	4.9 10.4	6.4 7.1	5.4 9.3	6.6 15.0	4.9 7.7	5•7 9•9
N2	9.3	6.7	12.4	13.4	7.7	9.9
Mean (±0.42)	8.2	6.7	9.0	11.7	6.8	8:5

R plots cut three times

70/R/CS/23

DRY MATTER: CWT

TOTAL OVER ALL PERIODS

						39		same gement
Treat-	Н	HG-	G-H	G+	G-	Mean	H(G-)	G-(H)
Cut with	M	MC:R	M%R	R	R		М	R
1,11			(±2.68)	18.19		(±1.20)		TELLENIE
N2 N2	34.6 67.0 81.2	30.6 59.6 78.6	39.2 55.8 75.9	38.2 79.8 84.5	29.2 49.3 62.4	34.4 62.3 76.5	36.6 68.7 96.2	33.2 46.7 58.2
Mean (±1.55)	60.9	56.2	57.0	67.5	47.0	57.7	67.1	46.0