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Numerical Results of the Field Experiments 1968



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68/DF/2 Nitrogen and Damage to Sward by Ammoniainjectors - Grass

Rothamsted Research

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68/Df/2.1

GRASS

(RG 201)

Nitrogen and damage to sward by ammonia-injectors - Parklands 1968.

Design: 1 randomised block of 18 plots.

Area of each plot: 0.0092. Area harvested: 0.0054.

Treatments: All combinations of:-

- 1. Mechanical damage by injector: None (IO), damage by 'Anhydrous' injector (IA), by 'Aqua' injector (IQ).
- 2. Time of damage: In autumn (A), in spring (S).
- 3. Nitrogen per cut: 0.3 (N1), 0.6 (N2), 1.0 (N3) cwt as 'Nitro-Chalk' broadcast by hand.

Basal applications: 900 lb (0:14:28) applied in winter.

Cultivations, etc.: Autumn injector slits made - 'aqua': 8 Nov, 1967, 'anhydrous': 21 Nov. Basal PK compound applied: 23 Jan, 1968.

Spring injector slits made - 'aqua': 12 Mar, 'anhydrous': 14 Mar. 'Nitro-Chalk' applied: 15 Mar. Cut three times: 22 May, 9 July, 14 Sept. 'Nitro-Chalk' applied after first two cuts. Previous crop: Grassland for at least 35 years.

NOTE: Grass samples were taken for dry matter and percentage of N.

Standard errors per plot.

```
Dry matter:

1st cut:
2nd cut:
3rd cut:
5.38 or 23.4% (4 d.f.)
Total of 3 cuts:
8.01 or 9.8% (4 d.f.)
```

68/Df/2.2

SUMMARY OF RESULTS

DRY MATTER

		DRY 1	MATTER			
2000	IA	IQ	Nl	N2	N3	Mean
		187	CUT	to design t	Sa Endorse	2.119/127
	(±1.00)		(±1.22)			(±0.71)
A S	33.0 30.8	33.0 34.6	29.3 31.8	34.7 33.9	35.1 32.4	33.0 32.7
-52 (6	De 190 (1)			(±1.22)	200	(±0.71)
17001	O IA IQ	y at ball	28.9 28.8 32.2	35.9 34.7 33.8	34.2 32.1 35.4	33.0 31.9 33.8
Mean (±0.71)	Leondonia	1000 A	30.0	34.8	33.9	32.9
1		2ND	CUT		THE PERSON	
of M.	(±1.	57)	इसी सर्वे	(±1.92)	solupes :	(±1.11)
A S	25.4 26.2	25.9 26.6	26.3 27.5	24.7	25.9	25.6

(±1.57)		(±1.92)			(±1.11)
25.4 26.2	25.9 26.6	26.3 27.5	24.7 25.3	25.9 26.5	25.6 26.4
	(63)	H.01	(±1.92)	17.1	(±1.11)
O IA IQ	1.2.3	26.8 25.5 28.3	26.5 25.1 24.9	26.2 26.9 25.5	26.5 25.8 26.3
		26.9	25.5	26.2	26.2
	25.4 26.2 D	25.4 25.9 26.2 26.6	25.4 25.9 26.3 27.5 D 26.8 25.5 1Q 28.3	25.4 25.9 26.3 24.7 25.3 (±1.92) 0 26.8 26.5 25.5 25.1 10 28.3 24.9	25.4 25.9 26.3 24.7 25.9 26.2 (±1.92) 0 26.8 26.5 26.9 27.5 25.1 26.9 10 28.3 24.9 25.5

Mean D.M. %: 1st cut: 15.2 2nd cut: 15.8

68/Df/2.3

DOV	MARIONA
DUI	MATTER

	IA	IQ	Nl	N2	м3	Mean	
3RD CUT							
	(±3.11)		(±3.81)			(±2.20)	
A S	20.3	24.3 26.6	23.3 27.1	20.3	23.4 21.7	22.3 24.8	
1				(±3.81)		(±2,20)	
	O IA IQ		25.2 25.3 25.1	17.7 19.2 26.6	22.4 20.3 24.8	21.8 21.6 25.5	
Mean (±2.20)			25.2	21.2	22.5	23.0	
		TOTAL OF	3 CUTS'				
	(±4,62)		(±5.66)			(±3.27)	
A S	78.7 79.9	83.2 87.9	78.8 86.4	79•7 84•7	84.4 80.7	81.0 83.9	
	1			(±5.66)		(±3.27)	
	O IA IQ		80.9 79.6 85.7	80.2 79.1 85.3	82.7 79.3 85.8	81.3 79.3 85.6	
Mean (±3.27)			82.0	81.5	82.6	82.0	

Mean D.M. %: 3rd cut: 17.7 Total of 3 cuts: 16.2

