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Yields of the Field Experiments 1971



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71/R/CS/43 Aqua Ammonia - Old Grass

Rothamsted Research

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71/R/CS/43

AQUA AMMONIA

Object: To study the effects of injecting large single dressings of aqueous ammonia on the yield of grazed grassland - Highfield IX.

The third year, grazed grass.

For previous years see 69/R/CS/43(t) and 70/R/CS/43.

Whole plot dimensions: 4.27 x 15.2. Area harvested: 0.00008.

Cultivations, etc.: Basal PK applied: 9 Nov, 1970. Aqueous ammonia injected: 11 Feb, 1971. N applied, sample cages placed: 24 Feb. Sample cuts taken: 27 Apr, 1 June*, 28 June, 4 Aug, 6 Sept, 1 Nov. 'Nitro-Chalk' applied and sample cage moved after each of first 5 cuts.

- * Grass cut with shears because it was too long to cut with mower.
- NOTES: (1) Visual estimates were made of the percentage surface area within each cage covered by clover leaves immediately before cutting.
 - (2) The percentage of N in the dry grass was determined.

Standard errors per plot. Dry matter, tonnes/hectare:
1st cut:
0.581 or 23.9% (21 d.f.)
2nd cut:
0.376 or 7.8% (21 d.f.)

3rd cut: 0.335 or 11.9% (21 d.f.)
4th cut: 0.437 or 10.5% (21 d.f.)
5th cut: 0.546 or 15.4% (21 d.f.)
6th cut: 0.260 or 11.0% (21 d.f.)

6th cut: 0.260 or 11.0% (21 d.f.)
Total of 6 cuts: 1.535 or 7.6% (21 d.f.)

71/R/CS/43

SUMMARY OF RESULTS

DRY MATTER: TONNES/HECTARE

	Nl	N2	из	N4	Mean
Marie I					
		(±0.145)			
I B	2.38 2.26	2.54 2.57	2.99 2.16	2.01 2.50	2.48 2.37
Mean (±0.205)	2.32	2.55	2.58	2.25	2.43
NO: General mean:	1.27 2.30	2ND C	FUT		
	1	(±0.094)			
I B	4.54 3.73	5.3 1 4.79	5.27 4.61	5.40 4.81	5.13 4.49
Mean (±0.133)	4.14	5.05	4.94	5.11	4.81
NO: General mean:	2.43 4.54	3RD 0	EUT		
	1	(±0.084)			
I B	2.76 2.16	2.98 2.86	3.00 2.88	3.01 2.93	2.94 2.71
Mean (±0.118)	2.46	2.92	2.94	2.97	2.82
NO: General mean:	1.98 2.73				

Mean D.M. %: 1st cut: 17.4 2nd cut: 15.9 3rd cut: 18.6

71/R/CS/43 DRY MATTER: TONNES/HECTARE

	NI	N2	и3	N4	Mean
2040					
		(±0.	(±0.219)		(±0,109)
I B	3.47 3.86	4.05	4.76 4.57	4.64 3.94	4.23 4.12
Mean (±0.155)	3.67	4.07	4.67	4.29	4.17
NO: General mean:	3.03 4.05				
General mean.	4.07				
	1	(±0.136)			
I B	3.20 3.17	3.69 3.54	3.75 3.26	4.08 3.62	3.68 3.40
Mean (±0.193)	3.19	3.62	3.50	3.85	3.54
NO: General mean:	2.82 3.46	6тн с	UI		
	1	(±0,065)			
I B	2.45 2.33	2.17 2.55	2.53 2.42	2.21 2.29	2.34 2.40
Mean (±0.092)	2.39	2.36	2.48	2.25	2.37
NO: General mean:	2.43 2.38				

Mean D.M. %: 4th cut: 20.1 5th cut: 24.3 6th cut: 24.5

71/R/CS/43
DRY MATTER: TONNES/HECTARE

The shine	Nl	N2	м3	N4	Mean
		TOTAL OF	6 curs		
		(±0.	(±0.384)		
I B	18.81 17.51	20.75 20.41	22.31 19.90	21.37 20.09	20.81 19.48
Mean (±0.543)	18.16	20.58	21.10	20.73	20.14

NO: 13.97 General mean: 19.46

Mean D.M. %: 20.1