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66/R/BX/C/27 Anhydrous Ammonia - Established Grass

Rothamsted Research

Rothamsted Research (1967) *66/R/BX/C/27 Anhydrous Ammonia - Established Grass* ; Yields Of The Field Experiments 1966, pp 219 - 221 - DOI: <https://doi.org/10.23637/ERADOC-1-158>

66/C/27.1

ESTABLISHED GRASS

(BX)

Anhydrous ammonia for grass, West Barnfield I 1966, the first year.

Design: 4 randomised blocks of 16 plots.

Area of each plot: 0.0080. Area harvested: 0.0052.

Treatments: All combinations of:-

1. Forms of nitrogen: Anhydrous ammonia injected 2 - 3 inches deep (I). 'Nitro-Chalk' broadcast in spring (B). 'Nitro-Chalk' dressing divided equally between 3 cuts (BD).
2. Levels of nitrogen: 1.0 (N1), 2.0 (N2), 3.0 (N3), 4.0 (N4) cwt N. together with no nitrogen - without (NO), with (NO I) the injector running idle through the turf (two plots of each per block).

Basal application: 560 lb (0:14:28).

Cultivations, etc.:- Anhydrous ammonia injected: Mar 2, 1966. 'Nitro-Chalk' to (B) plots and first dressing to (BD) plots and basal PK applied: Mar 8. Cut 3 times: May 16, July 4, Oct 5. 'Nitro-Chalk' applied after first 2 cuts.

Standard errors per plot. Dry matter:

- 1st cut: 2.69 or 10.7% (44 d.f.)
- 2nd cut: 1.89 or 7.4% (44 d.f.)
- 3rd cut: 1.95 or 23.2% (44 d.f.)
- Total of 3 cuts: 4.03 or 6.8% (44 d.f.)

66/C/27.2

SUMMARY OF RESULTS

DRY MATTER

	N1	N2	N3	N4	Mean
1ST CUT					
		(± 1.35)			(± 0.67)
I	17.0	24.3	23.2	25.0	22.4
B	35.5	36.9	38.4	36.4	36.8
BD	22.5	32.1	35.5	35.9	31.5
Mean (± 0.78)	25.0	31.1	32.4	32.4	30.2

NO NO I

(± 0.95)
9.6 9.9

General mean: 25.1

Mean D.M. %: 18.8

2ND CUT

		(± 0.94)			(± 0.47)
I	16.5	19.8	21.0	22.2	19.9
B	21.0	33.4	36.1	34.9	31.4
BD	29.9	39.3	38.2	37.6	36.2
Mean (± 0.54)	22.5	30.8	31.8	31.6	29.2

NO NO I

(± 0.67)
14.5 15.0

General mean: 25.6

Mean D.M. %: 26.5

66/c/27.3

DRY MATTER					
	N1	N2	N3	N4	Mean
3RD CUT					
		(± 0.98)			(± 0.49)
I	2.3	1.5	1.8	1.8	1.8
B	1.6	4.0	7.1	15.2	7.0
BD	10.4	24.1	26.7	27.4	22.2
Mean (± 0.56)	4.8	9.8	11.9	14.8	10.3
	NO	NO I			
		(± 0.69)			
	3.3	2.1			

General mean: 8.4

Mean D.M. %: 23.5

TOTAL OF 3 CUTS					
		(± 2.01)			(± 1.01)
I	35.8	45.6	46.0	49.0	44.1
B	58.1	74.4	81.7	86.6	75.2
BD	62.9	95.4	100.4	100.8	89.9
Mean (± 1.16)	52.3	71.8	76.0	78.8	69.7
	NO	NO I			
		(± 1.42)			
	27.4	27.1			

General mean: 59.1

Mean D.M. %: 22.9