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70/W/CS/60 Glycoluril for Grass - Grass

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GLYCOLURIL FOR GRASS

(70/W/CS/60)

The effects of glycoluril as a slow-N fertiliser for grass - Woburn Stackyard D 1970, first year - ryegrass.

Design: 3 randomised blocks of 16 plots.

Area of each plot: 0.0003. Area harvested: 0.0002.

Treatments: None (NO) (4 plots per block) and all combinations of:-

1. N fertiliser:-

Glycoluril powder (less than 1 mm) single application (GP)

Glycoluril granules (1.5 - 3.0 mm) single application (GG)

'Nitro-Chalk' single application (NS)

'Nitro-Chalk', three equal divided applications* (ND)

2. Levels of N: 100 lb (N1), 200 lb (N2), 300 lb (N3)

* The third application was not given in 1970, it will be given in spring 1971.

Basal application: 6 cwt (6:15:15).

Cultivations, etc.: Rotary cultivated: 10 Sept, 1969. Seed combine drilled at 50 lb: 11 Sept. Trimmed by rotary mower (yields not taken): 10 Apr, 1970. N applied: 17 Apr. Second N applied ND plots: 18 May. Cut twice: 18 May, 30 Sept. Variety: S24 Ryegrass. Previous crops: Fallow 1968, 1969.

NOTE: Grass samples were taken to determine dry matter and percentage N.

Standard errors per plot. Dry matter, cwt:

1st cut: 2.80 or 11.6% (30 d.f.)

2nd cut: 3.43 or 12.5% (30 d.f.)

Total of 2 cuts: 4.31 or 8.4% (30 d.f.)

70/W/CS/60

SUMMARY OF RESULTS

DRY MATTER: CWT

	NO	N1	N2	N3	Mean
1ST CUT					
			(±1.61)		(±0.93)
GP		17.2	15.8	19.3	17.4
GG		17.9	19.9	18.1	18.6
NS		36.2	36.8	38.5	37.2
ND		29.8	36.7	36.4	34.3
Mean (±0.81)	16.2	25.3	27.3	28.1	24.2*
2ND CUT					
			(±1.98)		(±1.14)
GP		24.8	38.7	42.2	35.3
GG		26.4	34.9	37.8	33.0
NS		14.7	24.9	38.2	25.9
ND		25.2	37.3	43.4	35.3
Mean (±0.99)	12.5	22.8	34.0	40.4	27.4*
TOTAL OF 2 CUTS					
			(±2.49)		(±1.44)
GP		42.1	54.5	61.5	52.7
GG		44.3	54.7	55.8	51.6
NS		51.0	61.7	76.6	63.1
ND		55.0	74.0	79.8	69.6
Mean (±1.24)	28.7	48.1	61.2	68.5	51.6*
Mean D.M. %: 1st cut: 20.9					
2nd cut: 26.7					
Total of 2 cuts: 23.8					

* General mean