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Yields of the Field Experiments 1967

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67/R/EAA/C/31 Formalin and N - Grasses

Rothamsted Research

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67/c/31.1

GRASS

(EAA)

Effects of formalin and nitrogen, Fosters O & E I, 1967.

Design: 4 randomised blocks of 8 plots.

Area of each plot: 0.0016. Area harvested: 0.0010.

Treatments: All combinations of:-

1. Formalin: None (0), sprayed with a 38% solution of formaldehyde at 532 gals in 3630 gals (F).
2. Nitrogen: None (N0), 0.3 (N1), 0.6 (N2), 0.9 (N3) cwt N as calcium nitrate per cut.

NOTE: Because the grass established poorly the N dressings were repeated on 9 June (before the 1st cut).

Basal applications: 8 cwt (0:14:28) in seedbed.

Cultivations, etc.: Ploughed: Nov 8, 1966. Formalin applied: Feb 10, 1967. Basal PK and 1st N dressings applied, seeds sown at 30 lb: Mar 20. N dressings repeated: June 9. Cut three times: July 10, Sept 5 and Nov 6. Calcium nitrate applied after 1st and 2nd cuts. Varieties: Soots Timothy and Meadow Fescue (S53). Previous crops: Potatoes 1965, barley 1966.

Standard errors per plot. Dry matter:

1st cut:	2.10 or 12.8% (21 d.f.)
2nd cut:	1.99 or 7.1% (21 d.f.)
3rd cut:	0.79 or 14.4% (21 d.f.)
Total of 3 cuts:	3.11 or 6.2% (21 d.f.)

67/c/31.2

SUMMARY OF RESULTS

DRY MATTER

	NO	N1	N2	N3	Mean
	1ST CUT				
	(±1.05)				(±0.53)
O	5.0	12.2	16.5	18.3	13.0
F	12.9	20.1	23.6	23.1	19.9
Mean (±0.74)	8.9	16.1	20.0	20.7	16.4
	2ND CUT				
	(±0.99)				(±0.50)
O	17.5	29.7	32.4	32.1	27.9
F	18.4	29.0	32.9	32.9	28.3
Mean (±0.70)	17.9	29.4	32.6	32.5	28.1

Mean D.M. %: 1st cut: 23.0
 2nd cut: 20.6

67/c/31.3

		DRY MATTER				
		NO	N1	N2	N3	Mean
		3RD CUT				
		(±0.40)				(±0.20)
O		0.7	6.2	7.9	6.4	5.3
F		1.2	6.6	7.8	7.2	5.7
Mean (±0.28)		0.9	6.4	7.9	6.8	5.5

		TOTAL OF 3 CUTS				
		(±1.55)				(±0.78)
O		23.2	48.1	56.8	56.8	46.2
F		32.4	55.7	64.3	63.3	53.9
Mean (±1.10)		27.8	51.9	60.5	60.1	50.1

Mean D.M. %: 3rd cut: 21.9
 Total of 3 cuts: 21.9