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Numerical Results of the Field Experiments 1969

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69/S/CS/3 - Rates, Forms and Times of N - Grass

Rothamsted Research

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GRASS

(69/S/CS/3)

Rates, forms and times of application of N, Saxmundham Grove Plot, 1969, the first year.

NOTE: This experiment is sited on the area occupied by grass, 'N and cutting', 1967 - 68 (see 'Results' 67/C/47 and 68/C/43) - the previous treatments are ignored.

Design: 4 randomised blocks of 9 plots.

Area of each plot: 0.0018. Area harvested: 1st cut: 0.0013, 2nd and 3rd cuts: 0.0012, 4th cut: 0.0007.

Treatments (T): (in cwt N)

	Anhydrous ammonia	'Nitro-Chalk'	Date of application
1	0.0	0.0	11 Mar
2	2.5	0.0	11 Mar
3	5.0	0.0	11 Mar
4	0.0	2.5	11 Mar
5	0.0	5.0	11 Mar
6	2.5 + 'N serve'	0.0	11 Mar
7	5.0 + 'N serve'	0.0	11 Mar
8	0.0	1.25	11 Mar
		.63	29 May
		.62	29 July
9	0.0	2.5	11 Mar
		1.25	29 May
		1.25	29 July
10	2.5	0.0	11 Mar
		1.25	29 May
		1.25	29 July

Basal applications: 1.0 cwt P₂O₅, 2.0 cwt K₂O as triple superphosphate and muriate of potash.

Cultivations, etc.: Basal PK applied: 11 Mar, 1969. Cut 4 times: 29 May, 22 July, 11 Sept, 28 Oct.

NOTE: The yields of Treatment 1 were omitted from the analysis.

Standard errors per plot. Dry matter, cwt:

1st cut:	5.24 or 11.4% (24 d.f.)
2nd cut:	3.88 or 12.2% (24 d.f.)
3rd cut:	1.69 or 9.8% (24 d.f.)
4th cut:	1.40 or 21.0% (24 d.f.)
Total of 4 cuts:	6.54 or 6.4% (24 d.f.)

SUMMARY OF RESULTS

DRY MATTER: CWT

T2	T3	T4	T5	T6	T7	T8	T9	T10	Mean
1ST CUT									
(±2.62)									
47.0	47.4	45.9	52.4	44.2	44.2	38.6	47.6	48.0	46.2
2ND CUT									
(±1.94)									
30.5	35.5	10.8	34.4	35.3	37.5	26.1	38.9	37.8	31.9
3RD CUT									
(±0.84)									
9.4	18.9	4.4	12.8	13.8	21.9	21.4	26.1	26.5	17.2
4TH CUT									
(±0.70)									
7.7	7.4	4.8	7.0	6.2	7.5	6.1	6.5	6.9	6.7
TOTAL OF 4 CUTS									
(±3.27)									
94.5	109.2	65.9	106.7	99.4	111.1	92.2	119.1	119.3	101.9

	T1	Mean D.M. %*
1st cut:	10.0	18.3
2nd cut:	2.4	24.9
3rd cut:	2.0	26.5
4th cut:	4.2	39.2
Total of 4 cuts:	18.6	27.2

* All plots