

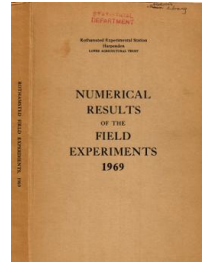
Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Numerical Results of the Field Experiments 1969

[Full Table of Content](#)



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

Rothamsted Research

Rothamsted Research (1970) *69/S/CS/3 - Rates, Forms and Times of N - Grass ; Numerical Results Of The Field Experiments 1969*, pp 231 - 232 - DOI: <https://doi.org/10.23637/ERADOC-1-96>

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