

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 1970

[Full Table of Content](#)



## 70/R/CS/43 Aqua Ammonia - Grazed Grass

### Rothamsted Research

Rothamsted Research (1971) *70/R/CS/43 Aqua Ammonia - Grazed Grass* ; Numerical Results Of The Field Experiments 1970, pp 185 - 188 - DOI: <https://doi.org/10.23637/ERADOC-1-59>

AQUA AMMONIA

(70/R/CS/43)

Grazed grass, Highfield IX 1970, the second year. For treatments and previous year's results see 'Results' 69/R/CS/43.

Area of each plot: 0.0161. Area harvested: 0.0002.

Cultivations, etc.: Basal PK applied: 18 Nov, 1969. Aqueous ammonia injected: 19 Mar, 1970. 'Nitro-Chalk' applied: 20 Mar. Sample cages placed: 23 Mar. Sample cuts taken: 7 May, 2 June, 8 July, 21 Aug, 10 Sept, 28 Oct. 'Nitro-Chalk' applied and sample cage moved after each of first five cuts.

- NOTES: (1) Visual estimates were made of the percentage surface area within each cage covered by clover leaves immediately before cutting.  
(2) The percentage of N in the dry grass was calculated.

Standard errors per plot. Dry matter, cwt:

1st cut:	3.73 or 17.9% (21 d.f.)
2nd cut:	1.96 or 5.9% (21 d.f.)
3rd cut:	2.50 or 19.6% (20 d.f.)
4th cut:	2.43 or 10.7% (21 d.f.)
5th cut:	2.75 or 9.9% (21 d.f.)
6th cut:	2.87 or 14.8% (21 d.f.)
Total of 6 cuts:	7.34 or 5.4% (20 d.f.)

NOTE: 3rd cut. Part of the yield from 1 plot (B N4) was lost. An estimated value has been used in the analysis of the 3rd cut and total of 6 cuts.

70/R/CS/43

SUMMARY OF RESULTS

DRY MATTER: CWT

	N1	N2	N3	N4	Mean
1ST CUT					
(±1.86)					
I	18.6	25.0	23.7	19.8	21.8
B	17.8	20.7	21.9	19.3	19.9
Mean (±1.32)	18.2	22.8	22.8	19.6	20.9
NO:	12.6				
General mean:	19.9				
2ND CUT					
(±0.98)					
I	32.2	33.4	34.9	34.6	33.8
B	27.0	32.8	37.2	34.7	32.9
Mean (±0.69)	29.6	33.1	36.1	34.7	33.3
NO:	20.3				
General mean:	31.9				
3RD CUT					
(±1.25)					
I	9.5	11.9	14.9	14.7	12.7
B	10.9	13.6	14.8	12.0	12.8
Mean (±0.88)	10.2	12.7	14.8	13.3	12.8

NO: 9.7  
General mean: 12.4

Mean D.M. %: 1st cut: 19.2  
2nd cut: 19.1  
3rd cut: 27.8

70/R/CS/43

DRY MATTER: CWT

	N1	N2	N3	N4	Mean
4TH CUT					
(±1.22)					(±0.61)
I	14.8	22.4	22.8	23.5	20.9
B	19.1	26.8	26.3	25.6	24.5
Mean (±0.86)	16.9	24.6	24.6	24.6	22.7

NO: 13.6  
General mean: 21.7

	N1	N2	N3	N4	Mean
5TH CUT					
(±1.38)					(±0.69)
I	25.2	26.6	29.4	28.2	27.4
B	26.1	27.4	29.9	29.9	28.3
Mean (±0.97)	25.6	27.0	29.6	29.1	27.8

NO: 22.1  
General mean: 27.2

	N1	N2	N3	N4	Mean
6TH CUT					
(±1.44)					(±0.72)
I	14.5	19.9	20.7	18.5	18.4
B	18.5	20.1	21.8	20.9	20.3
Mean (±1.02)	16.5	20.0	21.3	19.7	19.4

NO: 13.5  
General mean: 18.7

Mean D.M. %: 4th cut: 14.7  
5th cut: 27.0  
6th cut: 21.1

70/R/CS/43

DRY MATTER: CWT

TOTAL OF 6 CUTS

	N1	N2	N3	N4	Mean
		(±3.67)			(±1.83)
I	114.7	139.1	146.5	139.4	134.9
B	119.4	141.4	151.9	141.0	138.4
Mean (±2.59)	117.1	140.2	149.2	140.2	136.7

NO: 91.8  
 General mean: 131.4  
 Mean D.M. %: 21.5