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## Yields of the Field Experiments 1971

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### 71/R/CS/71 Weedkiller and Aqueous N - Old Grass

#### Rothamsted Research

Rothamsted Research (1972) *71/R/CS/71 Weedkiller and Aqueous N - Old Grass* ; Yields Of The Field Experiments 1971, pp 215 - 219 - DOI: <https://doi.org/10.23637/ERADOC-1-97>

71/R/CS/71

WEEDKILLER AND AQUEOUS N

Object: To study the effects of a combined spray of liquid nitrogen fertiliser and a hormone weedkiller as a top dressing on old grass - Road Piece.

The second year, old grass.

For previous year see 70/R/G/3(t).

Whole plot dimensions: 1.37 x 2.13. Area harvested: 0.00017.

All treatments were repeated cumulatively on the same plots except the four 1970 additional treatments which were altered to:-

DN2 HR, DN2 H1, DN2 H2, DN2 H3 respectively

where D indicates liquid N fertiliser applied separately before the weedkiller which was applied on the same day, after the foliage had dried. HR indicates dalapon applied 1970 only.

All treatments were applied on 3 occasions in 1971.

Basal applications: 565 kg (0:14:28).

Cultivations, etc.: Basal PK applied: 21 Dec, 1970. Grass lightly topped: 26 Mar, 1971. All treatments applied: 27 Apr. Cut: 26 May. All treatments re-applied: 16 June. Cut: 22 July. All treatments re-applied: 5 Aug. Cut: 14 Oct.

- NOTES: (1) Observations were made of weedkiller scorch and weed control.  
(2) The yield of weeds from two blocks was measured at the third cut.  
(3) The percentage N in the dry grass was measured.

Standard errors per plot. Dry matter: tonnes/hectare.

1st cut:	0.406 or 11.3% (69 d.f.)
2nd cut:	0.336 or 11.1% (69 d.f.)
3rd cut:	0.310 or 15.1% (69 d.f.)
Total of 3 cuts:	0.661 or 7.6% (69 d.f.)

71/R/CS/71

SUMMARY OF RESULTS

DRY MATTER: TONNES/HECTARE

1ST CUT

	N1	N2	N3	H0	H1	H2	H3	Mean
	(±0.101)			(±0.117)				(±0.059)
S	3.22	4.13	4.65	4.01	4.11	4.08	3.80	4.00
L	2.50	3.25	3.82	3.18	3.50	3.12	2.97	3.19
				(±0.143)				(±0.072)
			N1	2.95	3.00	2.78	2.73	2.86
			N2	3.71	3.88	3.72	3.44	3.69
			N3	4.12	4.53	4.31	3.99	4.24
Mean (±0.083)				3.59	3.80	3.60	3.39	3.60
	DN2	HR	3.92					
	DN2	H1	3.98	(±0.203)				
	DN2	H2	3.42					
	DN2	H3	3.22					

General mean: 3.60  
 Mean D.M. %: 18.1

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DRY MATTER: TONNES/HECTARE

2ND CUT

	N1	N2	N3	H0	H1	H2	H3	Mean
	(±0.084)			(±0.097)				(±0.048)
S	2.49	3.43	3.88	3.40	3.25	3.17	3.24	3.26
L	2.05	2.79	3.55	3.08	2.78	2.68	2.65	2.80
				(±0.119)				(±0.059)
			N1	2.41	2.25	2.21	2.22	2.27
			N2	3.25	3.24	2.91	3.03	3.11
			N3	4.06	3.56	3.65	3.58	3.71
Mean (±0.068)				3.24	3.02	2.92	2.94	3.03
		DN2 HR	3.62					
		DN2 H1	3.33	(±0.168)				
		DN2 H2	3.17					
		DN2 H3	2.90					

General mean: 3.06  
 Mean D.M. %: 29.3

T1/R/CS/T1

DRY MATTER: TONNES/HECTARE

3RD CUT

	N1	N2	N3	H0	H1	H2	H3	Mean
	(±0.078)				(±0.090)			(±0.045)
S	1.71	2.37	2.52	2.19	2.19	2.18	2.23	2.20
L	1.25	1.98	2.50	2.05	1.80	1.88	1.91	1.91
					(±0.110)			(±0.055)
			N1	1.53	1.53	1.40	1.46	1.48
			N2	2.30	1.98	2.11	2.32	2.18
			N3	2.53	2.49	2.59	2.43	2.51
Mean (±0.063)				2.12	2.00	2.03	2.07	2.06

DN2 HR 2.18  
 DN2 H1 2.28 (±0.155)  
 DN2 H2 2.42  
 DN2 H3 2.29

General mean: 2.09  
 Mean D.M. %: 23.2

71/R/CS/71

DRY MATTER: TONNES/HECTARE

TOTAL OF 3 CUTS

	N1	N2	N3	H0	H1	H2	H3	Mean
	(±0.165)			(±0.191)				(±0.095)
S	7.42	9.92	11.05	9.60	9.56	9.43	9.27	9.46
L	5.81	8.02	9.87	8.31	8.08	7.68	7.53	7.90
				(±0.234)				(±0.117)
			N1	6.89	6.78	6.38	6.41	6.62
			N2	9.26	9.10	8.73	8.79	8.97
			N3	10.71	10.57	10.55	10.00	10.46
Mean (±0.135)				8.95	8.82	8.56	8.40	8.68

DN2 HR 9.72  
 DN2 H1 9.59 (±0.330)  
 DN2 H2 9.01  
 DN2 H3 8.41

General mean: 8.75  
 Mean D.M. %: 23.5