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# Yields of the Field Experiments 1971

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## 71/R/CS/2 Grazed Reference Plots - Old Grass

### Rothamsted Research

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71/R/CS/2

GRAZED REFERENCE PLOTS

Object: To study the residual effects of N, P and K fertiliser, applied to grazed grass 1959 - 1970, on the yield of grass from which livestock are now excluded - Highfield IX.

The thirteenth year, old grass.

For previous years see 64/B/11(t), 65/B/2, 66/B/2(t), 67/B/2, 68/B/3 and 69-70/R/CS/2.

The experiment is now fenced to exclude livestock. Yields are taken by self-propelled scythe.

Whole plot dimensions: 4.57 x 7.32. Area harvested: 0.00059.

Basal N was applied at 125.5 kg as 'Nitro-Chalk' for each of the three cuts taken.

Cultivations, etc.: First basal N applied: 3 Mar, 1971. Cut three times: 24 May, 12 July, 2 Nov. Basal N applied after each of first two cuts.

NOTE: The percentages of P and K in the dry grass were measured for each cut.

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

1st cut:	0.562 or 9.7% (39 d.f.)
2nd cut:	0.234 or 7.5% (39 d.f.)
3rd cut:	0.313 or 9.3% (39 d.f.)
Total of 3 cuts:	0.690 or 5.6% (39 d.f.)

71/R/CS/2

SUMMARY OF RESULTS

GRASS: DRY MATTER: TONNES/HECTARE

1959-70	1st cut	2nd cut	3rd cut	Total of 3 cuts
PK	(±0.281)	(±0.117)	(±0.156)	(±0.345)
NO 00	4.89	3.29	3.18	11.36
N1 00	4.47	2.59	3.25	10.31
A1 00	4.95	2.49	3.21	10.66
NO 10	5.65	3.61	3.01	12.27
N1 10	5.70	2.58	3.05	11.33
A1 10	5.72	2.73	2.92	11.37
NO 01	4.68	3.71	3.40	11.80
N1 01	5.68	3.10	3.65	12.42
A1 01	5.41	2.63	3.73	11.77
NO 11	6.00	4.01	3.27	13.28
N1 11	6.59	3.26	3.50	13.34
A1 11	7.27	3.21	3.72	14.20
N2 11	6.69	3.14	3.56	13.39
A2 11	7.22	3.03	3.52	13.77
Mean	5.78	3.10	3.35	12.23

Mean D.M. %: 1st cut: 17.4  
 2nd cut: 19.9  
 3rd cut: 27.9  
 Total of 3 cuts: 21.7