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Yields of the Field Experiments 1972

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72/R/PG/5 Park Grass - Permanent Grass

Rothamsted Research

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72/R/PG/5

PARK GRASS

Object : To study the effects of organic and inorganic manures on permanent grass (for hay). The effects of liming are also studied.

The 117th year, hay.

For previous years see 'Details' 1967, 68/A/6(t) and 69-71/R/PG/5.

Treatments: Plot 6 (South) which was excluded from the Classical experiment in the period 1965 - 71 and used for microplot experiments in the period 1967 - 70 is now included in the Classical experiment again - PK Na Mg manuring as in the past: N, as sulphate of ammonia, at 48 kg.

Ground chalk was applied as follows (kg Ca CO₃):-

Plot 1a, 2a, 3a, 4/1a, 7a, 8a, 9a, 13a, 14a, 16a, 17a - 2000
Plot 18a, 18/2 - 1140.

Cultivations, etc.: Ground chalk applied: 29 Nov, 1971. Mineral fertilisers applied: 30 Nov. N applied: 1st dressing - 13 Apr, 1972, 2nd dressing - 3 May. Cut twice: 15 June, 14 Sept.

72/R/Pg/5

TABLE OF MEANS

DRY MATTER: TONNES/HECTARE

Plot	1st cut				2nd cut				Total of 2 cuts				Mean
	a	b	c	d	a	b	c	d	a	b	c	d	
1	2.24	2.03	2.23	0.65	1.17	1.21	0.71	0.66	3.40	3.24	2.94	1.30	2.72
2	1.61	1.43	1.47	1.34	0.74	0.93	1.07	1.10	2.36	2.36	2.54	2.44	2.42
3	1.46	1.30	1.22	1.40	0.65	0.88	0.81	0.98	2.11	2.17	2.03	2.38	2.17
4-1	2.36	2.24	2.26	1.97	0.99	1.03	1.12	1.18	3.35	3.27	3.38	3.16	3.29
4-2	3.39	3.22	3.50	3.15	1.15	1.13	0.88	1.17	4.54	4.35	4.38	4.32	4.40
6	5.86	5.40			1.88	1.77			7.73	7.17			7.45
7	5.68	5.39	2.79	2.72	3.13	3.05	1.63	1.40	8.81	8.44	4.42	4.12	6.45
8	1.97	1.78	2.36	2.27	1.30	1.12	1.62	1.53	3.27	2.90	3.99	3.81	3.49
9	6.62	5.90	6.68	6.25	2.01	2.18	1.25	1.34	8.63	8.08	7.92	7.59	8.05
10	3.47	3.66	4.13	3.05	1.18	1.17	1.17	1.54	4.65	4.83	5.30	4.59	4.84
11-1	7.26	7.47	8.56	7.69	2.91	2.67	2.59	2.25	10.17	10.14	11.15	9.94	10.35
11-2	8.27	8.05	8.53	7.96	3.24	3.26	2.54	2.69	11.51	11.31	11.07	10.65	11.14
12	1.93		1.54		1.59		1.36		3.52		2.91		3.22
13	3.84	4.51	4.20	3.16	2.78	2.86	2.05	1.74	6.62	7.37	6.26	4.90	6.29
14	4.85	5.60	6.46	6.75	0.97	2.16	3.32	3.16	5.82	7.76	9.78	9.91	8.32
15	4.32		2.70		2.64		1.68		6.96		4.38		5.67
16	5.20	5.24	5.32	5.12	2.24	2.50	2.29	2.05	7.44	7.74	7.61	7.17	7.49
17	2.16	2.49	2.52	2.27	1.47	1.20	1.66	1.79	3.63	3.69	4.18	4.06	3.89
18	2.23	2.21	3.17	1.12	1.18	1.32	0.93	0.80	3.41	3.53	4.10	1.92	3.24
18-2													
19-1									1.32				3.49
19-2									1.56				5.13
19-3									1.90				6.07
20-1									1.96				6.33
20-1									1.89				7.23
20-2									1.91				6.33
20-3									1.95				6.88

Total of 2 cuts: 27.2

2nd cut: 30.9

Mean D.M. %: 1st cut: 23.5