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Yields of the Field Experiments 1967

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67/R/AG/A/4 Agdell - Grass

Rothamsted Research

Rothamsted Research (1968) *67/R/AG/A/4 Agdell - Grass* ; Yields Of The Field Experiments 1967, pp 21 - 23 - DOI: <https://doi.org/10.23637/ERADOC-1-157>

67/A/4.1

GRASS - AGDELL 1967

(AG)

For history, treatments etc. see 'Details' 1962 and 'Results' 63/A/4, 64/A/4, 65/A/4 and 66/A/4.

Area of each microplot: Plots 1-4 - 0.0180. Plots 5-6 - 0.0162.
Area harvested: Plots 1-4 - 0.0023. Plots 5-6 - 0.0020.

P (as triple superphosphate) was applied in January 1967 to balance withdrawals by grass in 1964 and 1966 to all sub-plots except P0 which continued to receive no P.

K (as muriate of potash) was applied to balance withdrawals by grass in 1964, 1965 and 1966 to all sub-plots except K0 which continued to receive no K. Some of this K was applied in 1966 (see 'Results' 66/A/4). Because the amounts still required were large the 1967 dressings were split to lessen the risk of damaging the grass. Not more than 2.97 cwt K₂O (3.32 cwt on sub-plots 5 and 6) - 10 lb muriate of potash per sub-plot - was applied in January and the balance was applied after the first cut but before ploughing.

Rates in cwt P₂O₅

Plot no.	Sub-plots testing P				Sub-plots testing K			
	P0	P1	P2	P4	K0	K1	K2	K4
1	0	0.75	0.85	0.93	0.80	1.00	0.88	0.91
2	0	0.68	0.75	0.83	0.59	0.86	0.83	0.88
3	0	0.71	0.70	0.89	0.70	0.76	0.84	0.73
4	0	0.57	0.60	0.80	0.73	0.87	0.83	0.86
5	0	0.52	0.60	0.72	0.50	0.72	0.76	0.80
6	0	0.50	0.69	0.76	0.51	0.80	0.70	0.80

Rates in cwt K₂O

Plot no.	Sub-plots testing P				Sub-plots testing K			
	P0	P1	P2	P4	K0	K1	K2	K4
1	5.78	6.66	7.07	6.82	0	4.45	4.62	6.00
2	3.80	5.57	5.80	5.67	0	3.68	4.58	6.16
3	3.57	6.02	5.54	6.24	0	4.32	4.78	5.38
4	2.90	4.46	4.43	5.19	0	4.00	4.64	5.72
5	1.54	4.50	4.83	5.24	0	3.29	3.95	5.40
6	0.25	4.62	5.10	5.02	0	3.72	3.59	5.05

67/A/4.2

Basal dressing: 'Nitro-Chalk' applied at 0.8 cwt N in March.

Cultivations, etc.:-

Grass: P and first dressing of K applied: 18 Jan, 1967. Cut once for silage: 2 June, 1968. Second dressing of K applied: 7 June. Plots ploughed: 14 June. Rotary cultivated: 5 July, 21 July, 8 Aug, 24 Aug. Resown with Timothy: 7 Sept.
Fallow: Ploughed: 31 Oct, 1966.

67/A/4.3

SUMMARY OF RESULTS

DRY MATTER

Plot

P	K	5	6	3	4	1	2	Mean
1ST AND ONLY CUT								
0	4	13.7	7.9	30.2	17.0	37.0	27.1	22.1
1	4	50.4	47.8	48.6	47.0	45.2	46.4	47.6
2	4	55.8	45.4	42.4	39.3	39.0	53.6	45.9
4	4	46.9	44.9	48.8	48.2	42.9	40.4	45.3
4	0	41.7	23.9	24.1	37.8	26.2	25.5	29.9
4	1	57.6	44.3	38.4	47.3	41.7	48.1	46.2
4	2	53.0	43.4	36.8	44.7	45.4	49.0	45.4
4	4	53.6	46.2	38.8	37.3	46.6	48.9	45.2
Mean		46.6	38.0	38.5	39.8	40.5	42.4	41.0

Mean D.M. %: 17.9