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Yields of the Field Experiments 1967



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

Rothamsted Research

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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 PO 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 KO 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 P205

		Sub-plots	testing P		Sub-plots		testing K	
Plot no.	PO	Pl	P2	P4	KO	Kl	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 K20

		Sub-plots	testing	P		Sub-plots	testing	K
Plot no.	PO	Pl	P2	P4	KO	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.

Fallow: Ploughed: 31 Oct, 1966.

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.

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67/A/4.3

SUMMARY OF RESULTS

DRY MATTER

Plot

P	K	5	6	3	4	1	2	Mean
-				1ST A	ND ONLY	CUT		
012444444	4 4 4 0 1 2 4	13.7 50.4 55.8 46.9 41.7 57.6 53.0 53.6	7.9 47.8 45.4 44.9 23.9 44.3 43.4 46.2	30.2 48.6 42.4 48.8 24.1 38.4 36.8 38.8	17.0 47.0 39.3 48.2 37.8 47.3 44.7 37.3	37.0 45.2 39.0 42.9 26.2 41.7 45.4 46.6	27.1 46.4 53.6 40.4 25.5 48.1 49.0 48.9	22.1 47.6 45.9 45.3 29.9 46.2 45.4 45.2
Ме	an	46.6	38.0	38.5	39.8	40.5	42.4	41.0

Mean D.M. %: 17.9