Numerical Results of the Field Experiments 1968

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68/A/4 Agdell Grass

Rothamsted Research

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GRASS - AGDELL 1968

(AG)

For history, treatments, etc. see 'Details' 1962 and 'Results' 63/A/4, 64/A/4, 65/A/4, 66/A/4 and 67/A/4.

Area of each microplot: Plots 1 - 4 - 0.0180. Plots 5 - 6 - 0.0162. Area harvested: 1st cut: Plots 1 - 4 - 0.0046. Plots 5 - 6 - 0.0040. 2nd cut: Plots 1 - 4 - 0.0023. Plots 5 - 6 - 0.0020.

P (as triple superphosphate) and K (as muriate of potash) were applied in March 1968 to balance removals by grass in 1967 to all sub plots except P0, which continues to receive no P, and K0, which continues to receive no K.

Rates in cwt P2O5

	Sub plots testing P:-				Sub plots testing K:-			
Plot no.	P0	P1	P2	P4	K0	K1	K2	K4
1	0	0.36	0.32	0.35	0.23	0.36	0.40	0.35
2	0	0.36	0.40	0.31	0.22	0.38	0.39	0.40
3	0	0.39	0.32	0.42	0.18	0.32	0.31	0.32
4	0	0.28	0.27	0.33	0.31	0.36	0.34	0.31
5	0	0.30	0.31	0.30	0.33	0.38	0.38	0.35
6	0	0.30	0.31	0.33	0.22	0.33	0.34	0.33

Rates in cwt K2O

	Sub plots testing P:-				Sub plots testing K:-			
Plot no.	P0	P1	P2	P4	K0	K1	K2	K4
1	1.33	1.80	1.56	1.65	0	1.48	1.80	1.66
2	0.86	1.63	1.99	1.48	0	1.62	1.68	1.84
3	0.99	2.00	1.57	1.99	0	1.38	1.35	1.52
4	0.48	1.68	1.67	1.75	0	1.50	1.67	1.54
5	0.38	1.84	2.04	1.86	0	1.96	1.94	2.00
6	0.18	1.68	1.57	1.72	0	1.53	1.54	1.64

Basal dressing: 'Nitro-Chalk' applied at 0.8 cwt N on 8 Sept, 1967 and 15 Mar, 1968, 30 May, 15 July.

Cultivations, etc.:

Grass: Ground chalk applied at 46 cwt to plots 1 and 2 and to the southern half of plots 3 and 4: 6 June, 1967. Ploughed: 14 June. Rotary cultivated 4 times: 5 July, 21 July, 8 Aug, 24 Aug. Seed

drilled at 30 lb: 7 Sept. P and K applied: 15 Mar, 1968. PO sub plots on plots 4, 5 and 6 resown at 30 lb: 10 Apr. Sprayed with ioxynil at 7.5 oz and mecoprop at 22.5 oz in 32 gals: 11 Apr. Cut 3 times for silage: 27 May, 10 July, 22 Oct. Variety: Timothy S51.

Fallow: Ploughed: 14 June, 1967.

68/A/4.3

SUMMARY OF RESULTS

DRY MATTER

Plot

P K	5	6	3	4	1	2	Mean
			1ST CUT				
0 4	0.0	0.0	3.0	0.0	17.9	5.9	4.5
1 4	20.8	27.6	37.9	31.3	38.1	34.6	31.7
2 4	28.8	27.5	33.0	30.7	33.6	38.6	32.0
4 4	29.8	29.4	36.5	30.7	35.8	40.5	33.8
4 0	17.1	26.0	29.1	29.3	26.5	22.8	25.1
4 1	26.7	31.5	40.3	33.5	35.6	35.7	33.9
4 2	30.5	34.8	31.2	35.6	39.4	35.0	34.4
4 4	31.1	30.8	37.1	39.4	37.7	38.5	35.8
Mean	23.1	25.9	31.0	28.8	33.1	31.5	28.9

Mean D.M. %: 15.0

			2ND CUT				
0 4	3.7	4.8	15.5	8.0	23.7	18.7	12.4
1 4	17.7	16.8	16.2	17.0	22.6	20.3	18.4
2 4	17.9	16.9	19.5	13.1	21.1	22.1	18.4
4 4	17.4	16.8	16.0	20.1	22.0	19.7	18.7
4 0	21.1	15.8	17.8	21.4	17.1	17.1	18.4
4 1	19.0	17.1	13.5	25.8	21.2	23.9	20.1
4 2	20.6	18.2	14.7	15.2	18.6	22.8	18.4
4 4	23.2	15.0	16.0	17.3	20.3	20.1	18.6
Mean	17.6	15.2	16.2	17.2	20.8	20.6	17.9

Mean D.M. %: 15.6

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DRY MATTER

Plot

P K	5	6	3	4	1	2	Mean
			3RD CUT				
0 4	19.6	21.3	26.2	24.8	23.1	21.4	22.7
1 4	30.7	28.5	24.4	35.2	26.1	27.8	28.8
2 4	25.3	37.0	28.2	31.8	20.5	27.8	28.4
4 4	25.8	27.0	25.6	24.6	26.2	25.4	25.8
4 0	18.2	23.4	20.2	21.0	14.2	13.1	18.3
4 1	25.8	26.1	22.4	28.2	23.7	24.6	25.1
4 2	24.5	29.5	25.4	27.8	27.9	28.8	27.3
4 4	26.1	26.7	23.2	29.3	24.3	25.7	25.9
Mean	24.5	27.4	24.4	27.8	23.2	24.3	25.3

Mean D.M. %: 20.7

			TOTAL OF 3 CUTS				
0 4	23.3	26.2	44.6	32.8	64.7	46.0	39.6
1 4	69.3	72.9	78.5	83.4	86.8	82.7	78.9
2 4	72.0	81.4	80.7	75.6	75.2	88.4	78.9
4 4	73.0	73.2	78.1	75.3	84.0	85.6	78.2
4 0	56.4	65.3	67.1	71.6	57.8	53.0	61.9
4 1	71.5	74.6	76.2	87.5	80.5	84.2	79.1
4 2	75.7	82.5	71.3	78.6	85.9	86.7	80.1
4 4	80.3	72.4	76.3	86.1	82.4	84.3	80.3
Mean	65.2	68.6	71.6	73.9	77.1	76.4	72.1

Mean D.M. %: 17.1