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Numerical Results of the Field Experiments 1969

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69/R/AG/6 - Agdell - Grass

Rothamsted Research

Rothamsted Research (1970) 69/R/AG/6 - Agdell - Grass ; Numerical Results Of The Field Experiments 1969, pp 24 - 26 - DOI: <https://doi.org/10.23637/ERADOC-1-96>

GRASS - AGDELL 1969

(69/R/AG/6)

For history, treatments, etc. see 'Results' 63/A/4, 64/A/4, 65/A/4, 66/A/4, 67/A/4, 68/A/4 and 'Details' 1967.

Area of each microplot: Plots 1, 2, 3, 4, - 0.0180. Plots 5, 6 - 0.0162.
Area harvested: 0.0023.

P (as triple superphosphate) and K (as muriate of potash) were applied on 10 Dec, 1968 to balance removals by grass in 1968 to all sub plots except P0, which continues to receive no P, and K0, which continues to receive no K.

Rates in cwt P205

Plot no.	Sub plots testing P:-				Sub plots testing K:-			
	P0	P1	P2	P4	K0	K1	K2	K4
1	0	0.48	0.45	0.57	0.41	0.52	0.56	0.55
2	0	0.44	0.52	0.54	0.41	0.56	0.55	0.52
3	0	0.45	0.49	0.52	0.47	0.46	0.49	0.46
4	0	0.44	0.44	0.48	0.49	0.57	0.52	0.59
5	0	0.30	0.37	0.43	0.34	0.43	0.46	0.49
6	0	0.36	0.35	0.46	0.43	0.50	0.52	0.48

Rates in cwt K20

Plot no.	Sub plots testing P:-				Sub plots testing K:-			
	P0	P1	P2	P4	K0	K1	K2	K4
1	3.64	5.40	4.45	5.28	0	4.30	4.93	4.99
2	2.29	4.65	5.31	5.03	0	4.35	4.71	4.70
3	2.15	4.34	4.52	4.85	0	4.14	3.89	4.44
4	1.46	4.70	4.34	4.36	0	4.65	4.50	5.05
5	1.06	3.70	4.01	4.36	0	3.57	4.16	4.56
6	1.10	3.96	4.18	4.26	0	3.96	4.12	4.06

Basal dressing: 'Nitro-Chalk' applied at 0.8 cwt N on 7 Mar, 1969 and then after each cut except the last.

Cultivations, etc.:

Grass: Cut 3 times for silage: 5 June, 1969, 4 Aug and 14 Oct.

Fallow: Ploughed: 28 Oct, 1968. Rotary cultivated: 19 June.

SUMMARY OF RESULTS

DRY MATTER: CWT

Plot

P K	5	6	3	4	1	2	Mean
1ST CUT							
0 4	17.8	12.6	28.2	16.9	36.4	35.5	24.6
1 4	37.8	37.3	36.7	40.0	39.1	36.2	37.9
2 4	36.5	31.6	36.0	33.2	42.2	44.8	37.4
4 4	37.2	36.2	35.6	42.9	37.3	43.0	38.7
4 0	34.0	20.4	31.1	33.4	26.5	24.9	28.4
4 1	36.7	39.6	35.5	39.6	41.1	39.9	38.7
4 2	37.8	40.9	32.9	37.7	39.2	44.1	38.8
4 4	36.0	36.4	38.5	40.1	47.0	39.7	39.6
Mean	34.2	31.9	34.3	35.5	38.6	38.5	35.5
2ND CUT							
0 4	12.9	10.6	22.3	16.5	25.4	25.1	18.8
1 4	22.5	20.1	22.6	31.3	30.2	28.5	25.9
2 4	25.3	26.5	27.3	24.8	34.2	25.3	27.2
4 4	26.3	24.5	21.6	31.0	30.2	30.2	27.3
4 0	13.8	16.5	18.5	29.2	27.0	19.6	20.7
4 1	22.3	26.1	25.5	26.4	23.1	26.3	25.0
4 2	21.3	23.1	21.6	19.0	29.3	28.4	23.8
4 4	23.2	27.5	24.8	30.8	32.5	30.7	28.3
Mean	20.9	21.9	23.0	26.1	29.0	26.8	24.6

Mean D.M. %: 1st cut: 19.6
2nd cut: 20.7

DRY MATTER: CWT

Plot

P K	5	6	3	4	1	2	Mean
3RD CUT							
0 4	5.5	5.0	10.6	8.4	13.2	12.2	9.2
1 4	9.7	8.6	12.9	14.1	13.4	13.7	12.1
2 4	9.5	10.7	13.9	10.6	13.9	13.3	12.0
4 4	10.6	8.7	12.4	14.2	13.6	15.0	12.4
4 0	6.5	3.7	8.8	10.4	11.9	8.7	8.3
4 1	11.6	12.5	11.4	14.0	11.7	11.4	12.1
4 2	9.0	10.2	11.5	11.2	10.9	14.5	11.2
4 4	9.4	12.0	10.8	12.3	11.4	14.8	11.8
Mean	9.0	8.9	11.5	11.9	12.5	12.9	11.1

TOTAL OF 3 CUTS

0 4	36.3	28.2	61.2	41.8	75.0	72.7	52.5
1 4	70.1	66.0	72.2	85.5	82.7	78.4	75.8
2 4	71.2	68.8	77.1	68.6	90.2	83.4	76.6
4 4	74.0	69.5	69.7	88.1	81.0	88.2	78.4
4 0	54.2	40.5	58.4	72.9	65.4	53.2	57.4
4 1	70.6	78.3	72.4	80.0	75.8	77.6	75.8
4 2	68.1	74.2	66.0	67.9	79.4	87.0	73.8
4 4	68.5	75.9	74.1	83.3	91.0	85.2	79.7
Mean	64.1	62.7	68.9	73.5	80.1	78.2	71.2

Mean D.M. %: 3rd cut: 36.6
 Total of 3 cuts: 25.6