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Yields of the Field Experiments 1967

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67/R/AF/C/4 Levels of N and K - Grass 10th Year

Rothamsted Research

Rothamsted Research (1968) *67/R/AF/C/4 Levels of N and K - Grass 10th Year* ; Yields Of The Field Experiments 1967, pp 129 - 131 - DOI: <https://doi.org/10.23637/ERADOC-1-157>

67/C/4.1

GRASS

(AF)

Levels of N and K - Harwoods Piece 1967, the 10th year.

For treatments etc. see 'Results' 63/C/7.1 and 65/C/6.2 and for previous years' results see 58/Cg/2, 59/Cg/2, 60/Ci/1, 61/Dg/1, 62/C/11, 63/C/7, 64/C/6, 65/C/6 and 66/C/5.

Area of each plot: 0.0087. Area harvested: 0.0059.

Cultivations, etc.: N, P and K fertilisers applied: Mar 10, 1967.
Cut four times: May 23, July 7, Sept 4, Oct 26. N and K fertilisers applied after first 3 cuts.

NOTE: Crop samples were taken for N, P and K determinations.
Soil samples were taken for pH and available P and K.

Standard errors per plot. Dry matter:

1st cut:	1.96 or 8.4% (33 d.f.)
2nd cut:	2.13 or 12.3% (33 d.f.)
3rd cut:	1.70 or 8.7% (33 d.f.)
4th cut:	1.00 or 17.1% (33 d.f.)
Total of 4 cuts:	3.72 or 5.6% (33 d.f.)

67/C/4.2

SUMMARY OF RESULTS

DRY MATTER

N	0	1	1	1	2	2	2	3	3	3	3	3	Mean
P	1	1	1	1	1	1	1	1	1	1	0	2	
K	0	0	1	2	0	1	2	0	1	2	2	2	

1ST CUT

1.6 11.2 12.7 12.8 20.1 23.9 24.4 27.8 34.5 37.8 36.4 37.3 | 23.4
(± 0.98)

Mean D.M. %: 21.7

2ND CUT

7.4 13.6 14.3 12.0 19.9 20.7 18.7 19.7 19.1 21.7 20.8 20.4 | 17.4
(± 1.06)

Mean D.M. %: 27.8

3RD CUT

3.7 12.2 13.8 14.3 19.8 20.4 22.1 21.9 25.8 27.5 26.5 27.8 | 19.7
(± 0.85)

Mean D.M. %: 26.5

67/c/4.3

DRY MATTER

N	0	1	1	1	2	2	2	3	3	3	3	3	Mean
P	1	1	1	1	1	1	1	1	1	1	0	2	
K	0	0	1	2	0	1	2	0	1	2	2	2	

4TH CUT

0.7	3.3	3.3	5.0	6.5	8.2	8.3	3.5	7.2	7.5	7.3	9.5	5.9
(±0.50)												

Mean D.M. %: 17.1

TOTAL OF 4 CUTS

13.5	40.3	44.1	44.0	66.2	73.2	73.5	73.0	86.6	94.5	91.0	95.0	66.2
(±1.86)												

Mean D.M. %: 23.3

Treatment symbols:

N 0 1 2 3 0.0 0.3 0.6 0.9 cwt N as 'Nitro-Chalk' 21 per cut
P 0 1 2 0.0 0.6 1.2 cwt P₂O₅ as Granular Superphosphate per cut
K 0 1 2 0.0 0.3 0.6 cwt K₂O as Granular Muriate of Potash per cut