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RESEARCH

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 | 3 | |
| P | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 2 | 2 | |
| K | 0 | 0 | 1 | 2 | 0 | 1 | 2 | 0 | 1 | 2 | 2 | 2 | 2 | Mean |

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