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65/R/C/33 N and Cutting - Old Grass (Park Grass Microplots)

Rothamsted Research

Rothamsted Research (1966) *65/R/C/33 N and Cutting - Old Grass (Park Grass Microplots)* ; Yields Of The Field Experiments 1965, pp 237 - 238 - DOI: <https://doi.org/10.23637/ERADOC-1-159>

65/C/33.1

PARK GRASS MICROPLOTS

(FGM 41 - 80)

Effects of N levels and frequency of cutting on old grass, plot 6
(P K Na Mg 1869 - 1964 unlimed), 1965.

Design: 4 randomised blocks of 10 plots.

Area of each plot: 0.0045. Area harvested: 0.0021.

Treatments: All combinations of:-

1. N: None (N0), 129 (N1), 258 (N2), 387 lb N (N3) applied as 'Nitro-Chalk' in 3 or 6 equal dressings, one per cut.
2. Number of cuts: 3 (C3), 6 (C6). C3 coincides with the 2nd, 4th and 6th cuts.

Each block also included 2 additional plots - treatments SNOC3 and SNOC6, where S signifies herbicide spray, mecoprop at 45 oz in 50 gals to kill legumes (applied on May 11, 1965).

Basal applications: Manures as in previous years (30 lb P as superphosphate, 200 lb K as potassium sulphate, 14 lb Na as sodium sulphate, 10 lb Mg as magnesium sulphate) ground chalk - 69 cwt.

Cultivations, etc.: P, K, Na and Mg fertilisers applied: Nov 27, 1964.
Ground chalk applied: Feb 2, 1965. 'Nitro-Chalk' applied:
Mar 9. Cut: May 18, June 9, July 12, Aug 9, Sept 24, Oct 27.
'Nitro-Chalk' applied after every cut except the last.

Standard error per plot.

Dry matter, total of all cuts: 3.43 or 4.9% (27 d.f.)

65/c/33.2

SUMMARY OF RESULTS

DRY MATTER: TOTAL OF ALL CUTS

	NO	SNO	N1	N2	N3	Mean
			(±1.71)			(±0.77)
C3	59.6	36.4	84.8	107.7	111.9	80.1
C6	40.1	26.1	62.0	79.9	93.1	60.3
Mean (±1.21)	49.8	31.2	73.4	93.8	102.5	70.2

Mean D.M. %: 3 cut plots: 17.8
 6 cut plots: 16.5