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Yields of the Field Experiments 1959

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59/R/CG/2 Grass - N and K

Rothamsted Research

Rothamsted Research (1960) *59/R/CG/2 Grass - N and K* ; Yields Of The Field Experiments 1959, pp 103 - 104 - DOI: <https://doi.org/10.23637/ERADOC-1-179>

59/0g/2.2

Summary of Results

Dry matter: cwt per acre

cwt per acre													
N*	0.0	0.3	0.3	0.3	0.6	0.6	0.6	0.9	0.9	0.9	0.9	0.9	0.9
P ₂₀₅	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0	1.2
K ₂₀ *	0.0	0.0	0.3	0.6	0.0	0.3	0.6	0.0	0.3	0.6	0.6	0.6	0.6
Mean													
1st cut (±0.74)	6.1	20.4	21.0	19.8	29.8	29.9	28.6	31.1	30.6	29.4	28.8	30.6	25.5
2nd cut (±1.19)	13.7	31.5	31.3	33.4	39.4	40.0	42.9	44.4	44.9	46.8	43.7	45.0	38.1
3rd cut (±1.24)	5.4	15.8	14.4	16.1	21.1	23.3	24.4	24.4	24.1	24.7	23.2	24.5	20.1
Total of 3 cuts (±2.63)	25.2	67.7	66.7	69.2	90.3	93.2	95.9	99.8	99.6	100.8	95.7	100.1	83.7

*For each cut.

Mean dry matter % as cut:

1st cut:	15.3	3rd cut:	30.5
2nd cut:	32.1	Total of 3 cuts:	26.0

59/Cg/3.1

GRASS

Species and levels of nitrogen - Harwood's Piece. 1959, the 2nd year.

Design: 4 randomized blocks of 12 plots each.

Area of each plot: 0.0087 acres. Area harvested: 0.0035 acres.

Treatments. All combinations of:-

Species sown in spring 1958:

S37 Cocksfoot at 30 lb per acre	(C)
S215 Meadow Fescue at 30 lb per acre	(M)
S24 Perennial Ryegrass at 25 lb per acre	(R)
Timothy "Scotia" at 20 lb per acre	(T)

Levels of nitrogen: None; 0.3; 0.6 cwt N per acre as
'Nitro-Chalk', applied for each cut.

Basal dressing: 5 cwt compound fertilizer (10% P₂O₅, 20% K₂O) per acre.

Cultivations, etc.: Basal fertilizer applied: Feb 12, 1959. Nitrogen dressings applied: Mar 11, May 14, July 17. Cut 3 times: May 13, July 15, Nov 4.

Standard errors per plot. Dry matter:

1st cut:	1.71 cwt per acre or 5.9% (33 d.f.)
2nd cut:	2.98 cwt per acre or 16.9% (33 d.f.)
3rd cut:	2.03 cwt per acre or 19.1% (33 d.f.)
Total of 3 cuts:	4.35 cwt per acre or 7.6% (33 d.f.)

Note: For details of the previous years results see "Results of the Field Experiments" 58/Cg.3.