ROTHAMSTED RESEARCH

Yields of the Field Experiments 1959

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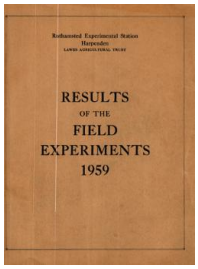

59/R/CG/2 Grass - N and K

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/Cg/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	
P_2O_5	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_2O*	0.0	0.0	0.3	0.6	0.0	0.3	0.6	0.0	0.3	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

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% P_2O_5, 20% K_2O) 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.

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