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Yields of the Field Experiments 1960

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60/R/CI/2 Grass - Species and N

Rothamsted Research

Rothamsted Research (1961) *60/R/CI/2 Grass - Species and N* ; Yields Of The Field Experiments 1960, pp 131 - 132 - DOI: <https://doi.org/10.23637/ERADOC-1-180>

60/Ci/2.1

GRASS

Species and levels of nitrogen - Harwood's Piece 1960, the 3rd year.

Design: 4 randomised blocks of 12 plots each.

Area of each plot: 0.0087 acres. Area harvested: 0.0057 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 fertiliser (10% P₂O₅, 20% K₂O) per acre.

Cultivations, etc.: Basal fertiliser applied: Mar 3, 1960. Nitrogen dressings applied: Mar 3 and June 1. Cut twice: May 31 and Aug 25.

Standard errors per plot. Dry matter:

1st cut:	2.95 cwt per acre or 9.6% (33 d.f.)
2nd cut:	1.44 cwt per acre or 8.8% (33 d.f.)
Total of 2 cuts:	3.93 cwt per acre or 8.4% (33 d.f.)

Note: For details of the previous years' results see 'Results of the Field Experiments' 58/Cg/3 and 59/Cg/3.

60/Ci/2.2

Summary of Results

Dry matter: cwt per acre

N: cwt per acre*	Species				Mean
	C	M	R	T	
<u>1st cut</u>					
	(±1.48)				(±0.74)
None	8.4	11.8	14.5	15.4	12.5
0.3	32.4	31.9	31.8	39.9	34.0
0.6	48.8	41.7	41.8	50.3	45.6
Mean (±0.85)	29.9	28.4	29.3	35.2	30.7
<u>2nd cut</u>					
	(±0.71)				(±0.35)
None	4.6	3.9	1.8	4.1	3.6
0.3	21.2	15.0	6.4	17.9	15.1
0.6	36.7	26.7	21.3	35.4	30.0
Mean (±0.41)	20.8	15.2	9.8	19.1	16.2
<u>Total of 2 cuts</u>					
	(±1.96)				(±0.98)
None	13.0	15.7	16.3	19.6	16.1
0.3	53.6	46.9	38.2	57.8	49.1
0.6	85.5	68.4	63.0	85.7	75.6
Mean (±1.13)	50.7	43.7	39.2	54.3	47.0

Mean dry matter % as cut:
 1st cut: 27.3
 2nd cut: 24.6
 Total of 2 cuts: 26.0

Species
 C S37 Cocksfoot
 M S215 Meadow Fescue
 R S24 Perennial Ryegrass
 T Timothy "Scotia"

* Applied for each cut.