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Yields of the Field Experiments 1958

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58/R/CG/3 Grass - Species and N

Rothamsted Research

Rothamsted Research (1959) *58/R/CG/3 Grass - Species and N* ; Yields Of The Field Experiments 1958, pp 116 - 117 - DOI: <https://doi.org/10.23637/ERADOC-1-181>

58/Cg/3.1

GRASS

Species and levels of nitrogen - Harwood's Piece 1958.

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 applied in seedbed.

Cultivations, etc.: Ploughed: Oct 28 - Nov 22, 1957. Basal fertilizer and seedbed nitrogen applied: Apr 23, 1958. Seed sown: Apr 24. Sprayed with MCPA at 4 pints in 40 gallons per acre: May 27. Topped: July 9. Cut twice: Aug 25, Oct 24. 2nd and 3rd dressings of 'Nitro-Chalk' applied: July 16 and Aug 25. Previous crop: Spring wheat.

Standard errors per plot. Dry matter:

1st cut:	2.08 cwt per acre or 11.5% (33 d.f.)
2nd cut:	1.81 cwt per acre or 12.3% (33 d.f.)
Total of 2 cuts:	3.14 cwt per acre or 9.6% (33 d.f.)

58/Cg/3.2

Summary of Results

Dry matter: cwt per acre

N: cwt per acre *	Species				Mean
	C	M	R	T	
	<u>1st cut</u>				
	(±1.04)				(±0.51)
None	9.1	7.8	10.0	8.0	8.7
0.3	22.2	19.5	21.2	18.2	20.3
0.6	30.0	21.6	27.6	21.3	25.1
Mean (±0.60)	20.4	16.3	19.6	15.8	18.0
	<u>2nd cut</u>				
	(±0.90)				(±0.45)
None	6.0	6.2	8.0	4.1	6.1
0.3	20.1	18.1	18.7	10.9	17.0
0.6	26.0	21.5	22.8	14.0	21.0
Mean (±0.53)	17.4	15.2	16.5	9.7	14.6
	<u>Total of 2 cuts</u>				
	(±1.56)				(±0.78)
None	15.1	14.0	18.0	12.0	14.8
0.3	42.4	37.6	39.9	29.2	37.2
0.6	56.0	43.0	50.3	35.3	46.2
Mean (±0.90)	37.8	31.5	36.1	25.5	32.7

		<u>Species</u>
Mean dry matter % as cut:		
1st cut:	15.5	C S37 Cocksfoot
2nd cut:	16.7	M S215 Meadow Fescue
Total of 2 cuts:	16.1	R S24 Perennial Ryegrass
		T Timothy "Scotia"

* Applied for each cut.