

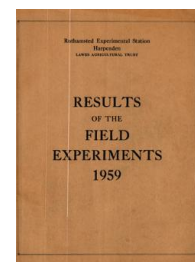
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Yields of the Field Experiments 1959

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59/R/CG/1 Grass - N Fertilizers

Rothamsted Research

Rothamsted Research (1960) *59/R/CG/1 Grass - N Fertilizers* ; Yields Of The Field Experiments 1959, pp 100 - 102 - DOI: <https://doi.org/10.23637/ERADOC-1-179>

59/Cg/1.2

Summary of Results

Rate of appli- cation of N: cwt per acre	Ureaformaldehyde applied		Fertilizer 'Nitro-Chalk' applied		Mean
	1958	1959	As single dressing & spring 1959	As divided dressing 1958 & 1959	
	Dry matter: cwt per acre				
None	1958	1959	1958 & 1959	1958	1959
1.0	8.6	13.1	16.9	9.6	22.7
2.0	9.7	16.7	24.5	15.3	32.1
Mean (± 0.62)	9.2	14.9	20.7	12.4	27.4
Diff. (± 1.23)	+1.1	+3.6	+7.6	+5.7	+9.4
			<u>1st cut</u> (± 0.87)		
			30.2	18.6	17.1 (± 0.33)
			33.7	26.7	22.7
			32.0	22.6	18.1
			+3.5	+8.1	+5.6 (± 0.47)
			<u>2nd cut</u>		
			(± 1.42)		
			14.3	26.4	19.1 (± 0.53)
			23.1	36.7	25.7
			18.7	31.5	20.9
			+8.8	+10.3	+6.6 (± 0.76)
			17.2		
			22.5		
			19.8		
			+5.3		
			13.1		
			13.5		
			13.3		
			+0.4		
			10.9		

Mean dry matter % as cut:
1st cut: 17.3
2nd cut: 32.5

59/Cg/2.1

GRASS

Levels of N and K - Harwoods 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: None and all combinations of:-

Nitrogen: 0.3; 0.6; 0.9 cwt N per acre as 'Nitro-Chalk'.

Potash: None; 0.3; 0.6 cwt K_2O per acre as muriate of potash.

All treatments in the presence of 0.6 cwt P_2O_5 per acre as superphosphate.

In addition 2 plots per block, receiving 0.9 N and 0.6 K, also received phosphate at either None or 1.2 cwt P_2O_5 per acre as superphosphate.

Note (1): N and K dressings are applied for each cut. All P dressings are applied once annually.

Basal dressing: None.

Cultivations, etc.: 1st dressing of fertilizers applied: Mar 10.

2nd and 3rd dressings of N and K applied: Apr 28 and June 22.

Cut 3 times: Apr 27, June 17 and Aug 18. Variety: S22 Italian Ryegrass.

Standard errors per plot. Dry matter:

1st cut: 1.48 cwt per acre or 5.8% (33 d.f.)

2nd cut: 2.38 cwt per acre or 6.2% (33 d.f.)

3rd cut: 2.48 cwt per acre or 12.3% (33 d.f.)

Total of 3 cuts: 5.26 cwt per acre or 6.3% (33 d.f.)

Note (2): For details of the previous year's results see 'Results of the Field Experiments' 58/Cg/2 to which should be added note (1) and the asterisks and footnote in the summary.