

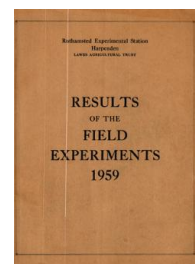
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Yields of the Field Experiments 1959

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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/1.3

Rate of appli- cation of N: cwt per acre	<u>Dry matter: cwt per acre</u>												
	Fertilizer												
	Ureaformaldehyde applied				'Nitro-Chalk' applied								
	None	1958	1959	1958 & 1959	As single dressing spring 1959	As divided dressing 1958 & 1959	1958	1959	1958	1959	1958 & 1959	Mean	
	<u>3rd cut</u>												
				(±0.63)									
1.0		6.9	7.9	9.0	7.3	6.0	14.1	15.3	9.5	(±0.24)			
2.0		8.4	10.7	13.2	11.0	7.2	22.0	22.2	13.5	(±0.17)			
Mean	(±0.45)	7.7	9.3	11.1	9.2	6.6	18.0	18.7	10.7				
Diff.	(±0.89)	+1.5	+2.8	+4.2	+3.7	+1.2	+7.9	+6.9	+4.0	(±0.34)			
		<u>Total of 3 cuts</u>											
		(±2.47)											
1.0		28.6	38.2	40.2	57.0	28.3	59.0	68.6	45.7	(±0.93)			
2.0		31.6	49.8	60.9	79.3	35.6	85.3	90.8	61.9	(±0.66)			
Mean	(±1.75)	30.1	44.0	50.5	68.1	31.9	72.2	79.7	49.8				
Diff.	(±3.49)	+3.0	+11.6	+20.7	+22.3	+7.3	+26.3	+22.2	+16.2	(±1.32)			

Mean dry matter $\bar{x}$ as cut:
 3rd cut: 33.4
 Total of 3 cuts: 27.7

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.