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Yields of the Field Experiments 1964



Full Table of Content

64/R/DG/1 Permanent Grass - N - Serve

Rothamsted Research

Rothamsted Research (1965) *64/R/DG/1 Permanent Grass - N - Serve ;* Yields Of The Field Experiments 1964, pp 243 - 245 **- DOI: https://doi.org/10.23637/ERADOC-1-160**

64/Dg/2.1

GRASS

Levels of N and K - Harwoods Piece 1964.

Design: 4 randomised blocks of 12 plots each.

Area of each plot: 0.0014. Area harvested: 1st and 2nd cuts - 0.0006, 3rd cut - 0.0008.

Treatments: All combinations of:-

- 1. N: None (NO), 0.3 (N1), 0.6 (N2), 0.9 (N3) cwt N per cut as 'Nitro-Chalk'.
- 2. K: None (KO), 0.6 (K1), 1.2 (K2) cwt K20 per cut as muriate of potash.

Both applied in spring and after each cut except the last.

Basal dressing: 0.6 cwt P205 in seedbed as triple superphosphate.

Cultivations, etc.: Ploughed: Nov 18, 1963. Rotary cultivated, fertilisers applied, seed drilled at 30 lb: Apr 2, 1964. Cut 3 times: July 1, Aug 12, Oct 28. Fertilisers applied after first 2 cuts. Variety: S22 Italian Ryegrass. Previous crops: Barley 1962 and 1963.

NOTE: Samples were taken for estimation of soluble carbohydrate and dry matter in grass.

Standard errors per plot. Dry matter:

1st cut: 3.15 or 13.8% (33 d.f.) 2nd cut: 1.48 or 7.2% (33 d.f.) 3rd cut: 1.24 or 13.5% (33 d.f.) Total of 3 cuts: 4.32 or 8.2% (33 d.f.)

64/Dg/2.2

SUMMARY OF RESULTS

DRY MATTER

	NO	N1	N2	N3	Mean	
	- 3/12	o bas pas pak	1ST CUT	A Large Lord Door . O - to	die nose to drog (SKC)	
	(±1.58): w &ecclesed drop [3]					
K0 K1 K2	11.3 13.7 13.3	18.2 23.1 19.6	25.2 28.7 27.5	28.4 32.9 31.4	20.8 24.6 22.9	
Mean (±0.90)	12.8	20.3	27.1	30.9	22.7	
			2ND CUT			
	(±0.74)					
K0 K1 K2	6.9 7.9 7.6	18.8 18.8 19.1	26.5 26.1 26.2	30.1 28.8 29.5	20.5 20.4 20.6	
Mean (±0.43)	7.5	18.9	26.3	29.4	20.5	

Mean D.M. %: 1st cut 20.3 2nd cut 19.1

64/Dg/2.3

TOTAL	MATTER
LINY	MUNITED H. H.

	NO	N1	N2	и3	Mean
		3	BRD CUT		
		(±0.	.62)		(±0.31)
K0 K1 K2	1.6 1.9 1.9	7•5 8•1 8•8	11.6 12.9 13.1	12.4 14.7 15.1	8.3 9.4 9.7
Mean (±0.36)	1.8	8.1	12.5	14.1	9.1
		TOTAL	OF 3 CUIS		
	(±2.16)				
K0 K1 K2	19.8 23.4 22.9	44.4 49.9 47.5	63.3 67.8 66.7	70.8 76.4 76.0	49.6 54.4 53.3
Mean (±1.25)	22.0	47.2	65.9	74.4	52.4

Mean D.M. %: 3rd cut 26.0 Total of 3 cuts 21.8