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Yields of the Field Experiments 1961

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61/R/DG/1 Grass - Levels of K and N 4th Year

Rothamsted Research

Rothamsted Research (1962) *61/R/DG/1 Grass - Levels of K and N 4th Year* ; Yields Of The Field Experiments 1961, pp 135 - 136 - DOI: <https://doi.org/10.23637/ERADOC-1-182>

61/Dg/1.1

GRASS

Levels of N and K - Harwoods Piece 1961 - the 4th year.

Design: 4 randomised blocks of 12 plots each.

Area of each plot: 0.0087 acres. Area harvested: 0.0057 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 the above in the presence of 0.6 cwt P_2O_5 per acre as superphosphate.

In addition 2 plots per block, receiving 0.9 cwt N and 0.6 cwt K_2O per acre, 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.

(2) All treatments were applied to the same plots as in the previous seasons.

Basal dressing: None.

Cultivations, etc.: Sprayed with dalapon at 8 lb in 40 gallons per acre: Sept 7, 1960. 1st dressing of fertilisers applied: Mar 3, 1961. Cut twice: May 12 and July 4.

Standard errors per plot. Dry matter:

1st cut: 3.04 cwt per acre or 6.4% (33 d.f.)

2nd cut: 1.16 cwt per acre or 8.8% (33 d.f.)

Total of 2 cuts: 3.28 cwt per acre or 5.4% (33 d.f.)

Note: (3) For details of the previous years results see 'Results of the Field Experiments' 58/Cg/2, 59/Cg/2 and 60/Ci/1.

61/Dg/1.2

Summary of Results

Dry matter: cwt per acre

cwt per acre*														
N	0.0	0.3	0.3	0.3	0.6	0.6	0.6	0.9	0.9	0.9	0.9	0.9		
P ₂₀ ⁵	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0	1.2	
K ₂₀ *	0.0	0.0	0.3	0.6	0.0	0.3	0.6	0.0	0.3	0.6	0.6	0.6	0.6	Mean
1st cut (±1.51)	12.0	43.5	39.7	39.7	53.0	54.8	55.1	52.9	52.6	53.6	54.3	54.3	47.1	
2nd cut (±0.58)	5.1	10.5	10.9	10.9	13.5	11.7	12.5	15.0	16.4	17.7	17.3	17.8	13.3	
Total of 2 cuts (±1.64)	17.2	54.0	50.6	50.6	66.5	66.5	67.6	67.9	69.0	71.3	71.6	72.1	60.4	

*For each cut.

Mean dry matter % as cut:

1st cut: 22.1
2nd cut: 32.4
Total of 2 cuts: 27.2