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Yields of the Field Experiments 1958

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58/R/CG/2 Grass - N and K

Rothamsted Research

Rothamsted Research (1959) *58/R/CG/2 Grass - N and K* ; Yields Of The Field Experiments 1958, pp 115 - 115 - DOI: <https://doi.org/10.23637/ERADOC-1-181>

GRASS

Levels of N and K - Harwoods Piece 1958.

Design: 4 randomized blocks of 12 plots each.

Area of each plot: 0.0087 acres. Area harvested: 1st cut - 0.0050 acres, 2nd and 3rd cuts - 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 K₂O per acre as muriate of potash.

All treatments in the presence of 0.6 cwt P₂O₅ 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 P₂O₅ per acre as superphosphate.

Basal dressing: None.

Cultivations, etc.: Ploughed: Oct 28 - Nov 22, 1957. Fertilizers applied in seedbed: Apr 23, 1958. Seeds sown: Apr 24. Sprayed with MCPA at 4 pints in 40 gallons per acre: May 27. 2nd and 3rd dressings of N and K applied: July 16 and Sept 9. Cut 3 times: July 9, Sept 9 and Oct 27. Variety: S22 Italian Ryegrass. Previous crop: Spring wheat.

Standard error per plot. Dry matter:

1st cut:	2.03 cwt per acre or 7.7% (33 d.f.)
2nd cut:	1.91 cwt per acre or 6.7% (33 d.f.)
3rd cut:	0.83 cwt per acre or 5.9% (33 d.f.)
Total of 3 cuts:	3.06 cwt per acre or 4.5% (33 d.f.)

Summary of Results

Dry matter: cwt per acre

cwt per acre	Dry matter: 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 ₂ O ₅	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 ₂ O	0.0	0.0	0.3	0.6	0.0	0.3	0.6	0.0	0.3	0.6	0.6	0.6	Mean
1st cut (±1.01)	15.2	21.6	22.3	19.8	27.3	27.6	27.5	31.6	30.3	30.4	30.5	31.0	26.3
2nd cut (±0.95)	15.6	25.1	25.2	26.2	29.8	30.2	30.1	32.0	33.8	32.1	30.8	32.1	28.6
3rd cut (±0.41)	4.0	12.3	12.7	11.9	14.6	15.5	15.0	17.1	15.5	16.0	15.6	17.4	13.9
Total of 3 cuts (±1.53)	34.8	59.0	60.2	57.9	71.6	73.3	72.6	80.6	79.5	78.4	76.8	80.5	68.8

Mean dry matter % as cut:

1st cut:	15.1	3rd cut:	12.6
2nd cut:	12.4	Total of 3 cuts:	13.4