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Yields of the Field Experiments 1960

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60/R/CI/1 Grass - Levels of K and N

Rothamsted Research

Rothamsted Research (1961) *60/R/CI/1 Grass - Levels of K and N ; Yields Of The Field Experiments 1960*, pp 129 - 130 - DOI: <https://doi.org/10.23637/ERADOC-1-180>

60/C1/1.4

GRASS

Levels of N and K - Harwoods Piece 1960 - the 3rd year.

Design: 4 randomised blocks of 12 plots each.

Area of each plot: 0.0087 acres. Area harvested: 0.0059 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 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.: Ploughed: Dec 2, 1959. 1st dressing of fertilisers applied, seed drilled at 30 lb per acre: Mar 28, 1960. Sprayed with CMPP at 6 pints in 40 gallons per acre: May 24. Cut 3 times: July 21, Sept 13 and Nov 7. Variety: S22 Italian Ryegrass.

Standard errors per plot. Dry matter:

1st cut: 4.00 cwt per acre or 14.9% (33 d.f.)

2nd cut: 1.51 cwt per acre or 7.2% (33 d.f.)

3rd cut: 0.95 cwt per acre or 8.5% (33 d.f.)

Total of 3 cuts: 5.29 cwt per acre or 9.0% (33 d.f.)

Note: (3) For details for the previous years results see "Results of the Field Experiments" 58/Cg/2 and 59/Cg/2.

Errata to "Results of the Field Experiments" 1958 and 1959.

Pages 58/Cg/2.1 and 59/Cg/2.1.

Under 'Treatments' alter the last paragraph to read

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

60/Gi/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	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	0.6	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	0.6	Mean	
1st cut (±2.00)	14.9	21.3	24.1	27.6	26.8	27.7	31.3	24.9	27.8	33.2	29.7	32.9	26.9		
2nd cut (±0.75)	4.9	16.1	15.7	14.4	22.6	23.0	22.3	26.1	26.5	27.1	27.7	25.8	21.0		
3rd cut (±0.48)	2.3	9.3	9.8	9.0	11.9	13.3	13.3	12.9	12.9	13.3	12.7	13.3	11.2		
Total of 3 cuts (±2.64)	22.1	46.7	49.5	51.0	61.3	64.1	66.9	63.9	67.1	73.7	70.1	72.0	59.0		

* For each cut.

Mean dry matter % as cut:

1st cut:	16.7	3rd cut:	13.4
2nd cut:	18.3	Total of 3 cuts:	16.1