

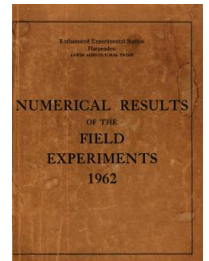
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Yields of the Field Experiments 1962

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62/R/C/11 Levels of N and K - Cocksfoot 5th Year

Rothamsted Research

Rothamsted Research (1963) *62/R/C/11 Levels of N and K - Cocksfoot 5th Year* ; Yields Of The Field Experiments 1962, pp 122 - 123 - DOI: <https://doi.org/10.23637/ERADOC-1-164>

62/C/11.1

GRASS

Levels of N and K - Harwoods Piece 1962 - the 5th 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 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.: Ryegrass sprayed with dalapon at 8 lb in 40 gallons per acre: Sept 7, 1961 and again at 4 lb in 40 gallons per acre: Sept 27. Ploughed: Nov 8. Ground chalk at 3 tons per acre applied to plots 1 - 24: Feb 21, 1962. Rotary cultivated: Apr 13. 1st dressing of fertilisers applied: Apr 16. Seed drilled at 40 lb per acre: Apr 24. Sprayed with MCPB/MCPA at 5 pints in 40 gallons per acre: June 5. Cut twice: Aug 13 and Oct 3. Variety: S37 Cocksfoot.

Note: (3) For details of the previous years' results see "Results of the Field Experiments" 58/Cg/2, 59/Cg/2, 60/Ci/1 and 61/Dg/1.

Standard errors per plot. Dry matter:

1st cut: 1.44 cwt per acre or 8.7% (33 d.f.)

2nd cut: 2.51 cwt per acre or 9.5% (33 d.f.)

Total of 2 cuts: 3.34 cwt per acre or 7.8% (33 d.f.)

62/C/11.2

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 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 (±0.71)	8.5	14.1	17.5	18.0	14.2	18.3	20.1	13.5	18.0	19.8	17.6	19.4	16.6	
2nd cut (±1.25)	7.0	22.9	23.8	22.2	28.2	30.4	29.3	29.9	30.4	30.2	31.1	31.1	26.4	
Total of 2 cuts (±1.66)	15.5	37.1	41.2	40.2	42.4	48.7	49.3	43.4	48.4	50.0	48.8	50.6	42.9	

*For each cut.

Mean dry matter % as cut:

1st cut: 18.3

2nd cut: 14.5

Total of 2 cuts: 16.4