

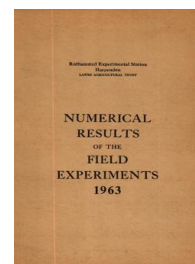
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Yields of the Field Experiments 1963

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63/R/AF/C/7 Levels of N and K - Cocksfoot 6th Year

Rothamsted Research

Rothamsted Research (1964) *63/R/AF/C/7 Levels of N and K - Cocksfoot 6th Year* ; Yields Of The Field Experiments 1963, pp 147 - 148 - DOI: <https://doi.org/10.23637/ERADOC-1-183>

63/C/7.1

GRASS

(AF)

Levels of N and K - Harwoods Piece 1963, the 6th 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 K₂O per acre as muriate of potash.

All the above in the presence of 0.6 cwt P₂O₅ per acre as super-phosphate.

In addition 2 plots per block, receiving 0.9 cwt N and 0.6 cwt K₂O per acre, also received phosphate at either None or 1.2 cwt P₂O₅ 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.: P and first dressings of N and K applied:

Apr 4, 1963. Cut four times: May 29, July 16, Aug 22, Oct 29.

Variety: S37 Cocksfoot.

Note: For details of the previous years' results see 'Results of the Field Experiments' 58/Cg/2, 59/Cg/2, 60/C1/1, 61/Dg/1 and 62/C/11.

Standard errors per plot. Dry matter:

1st cut: 2.99 cwt per acre or 6.7% (33 d.f.)

2nd cut: 2.65 cwt per acre or 8.5% (33 d.f.)

3rd cut: 1.40 cwt per acre or 10.0% (33 d.f.)

4th cut: 1.25 cwt per acre or 7.4% (33 d.f.)

Total of 4 cuts: 5.76 cwt per acre or 5.4% (33 d.f.)

Dry matter: cwt per acre

cwt per acre	0.0	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6	0.9	0.9	0.9	0.9	0.9	Mean
N*	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	
P2O5	0.0	0.0	0.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	
K2O*	0.0	0.0	0.3	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	
1st cut (±1.49)	14.0	37.0	39.1	36.9	43.4	51.3	53.8	44.9	52.0	55.1	53.1	55.1	55.1	55.1	44.6
2nd cut (±1.33)	9.2	25.6	27.0	27.4	29.6	34.0	37.7	30.5	35.8	40.5	38.9	40.1	40.1	40.1	31.3
3rd cut (±0.70)	3.6	13.4	14.4	14.4	13.8	17.2	17.4	13.7	16.0	14.1	15.9	15.0	15.0	15.0	14.1
4th cut (±0.63)	1.4	11.1	11.6	11.4	16.7	19.9	19.4	18.8	24.0	22.6	23.1	22.8	22.8	22.8	16.9
Total of 4 cuts (±2.88)	28.2	87.0	92.0	90.1	103.5	122.4	128.3	107.8	127.7	132.2	130.9	133.0	133.0	133.0	106.9

*For each cut

Mean dry matter % as harvested:

1st cut: 19.2

2nd cut: 18.4

3rd cut:	16.5
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4th cut: 21.3

Total of 4 cuts: 18.8