

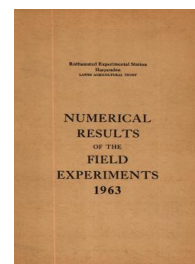
Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1963

[Full Table of Content](#)



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.)

Summary of Results

Dry matter: cwt per acre

cwt per acre	0.0	0.3	0.3	0.3	0.3	0.6	0.6	0.6	0.6	0.6	0.6	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	Mean	
N*																					
P205																					
K20*																					
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	55.1	55.1	55.1	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	40.1	40.1	40.1	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	15.0	15.0	15.0	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	22.8	22.8	22.8	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	133.0	133.0	133.0	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
- 4th cut: 21.3
- Total of 4 cuts: 18.8

63/C/7.2