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# Yields of the Field Experiments 1961



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# 61/R/C/2 One Year Leys for Wheat - Ryegrass Ley

## **Rothamsted Research**

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61/C/2.1

#### ONE YEAR LEYS FOR WHEAT

The comparison of various clover and grass leys as a preparation for wheat - Stackyard 1961.

Design: 4 randomised blocks of 18 plots each.

Area of each plot (acres): 0.0159. Area harvested: 1st cut - 0.0045; 2nd and 3rd cuts - 0.0114.

## Treatments:

Nitrogen to leys 1961:- 3 plots per block of each of the following 6 treatments:

To clover: None (Co)

To ryegrass: None (Ro); 1 cwt (R1); 2 cwt (R2) N per acre.

To clover-ryegrass: None (CRo); 1cwt (CR1) N per acre. The nitrogen was applied as 'Nitro-Chalk', 0.625 and 1.25 cwt

N in spring, and 0.375 and 0.75 cwt N after 1st silage cut.

Note: The experiment is designed to include three rates of N
applied to wheat in 1961/62.

Basal dressings per acre:

To barley nurse crop 1960: 3 cwt compound fertiliser (16% N, 9% P<sub>2</sub>O<sub>5</sub>, 9% K<sub>2</sub>O) combine drilled.

To leys, combine drilled in seedbed 1960: 1½ cwt superphosphate.

Cultivations, etc.: Barley combine drilled, leys combine drilled, ryegrass at 30 lb, clover at 12 lb and clover-ryegrass at 10 lb clover and 20 lb ryegrass, per acre: Apr 19, 1960. 'Nitro-Chalk' dressings applied: Mar 13 and May 17, 1961. Cut three times for silage: May 15, July 6 and Sept 18. Varieties: Italian ryegrass S22 and Dorset Marl broad red clover.

Standard error per plot, Grass dry matter cwt per acre:

1st cut:
3.34 cwt per acre or 6.7% (62 d.f.)

2nd cut:
2.25 cwt per acre or 9.7% (63 d.f.)

3rd cut:
1.42 cwt per acre or 11.3% (63 d.f.)

Total of 3 cuts: 3.88 cwt per acre or 4.5% (63 d.f.)

<sup>\*1</sup> missing value.

61/c/2.2

# Summary of Results

# Grass dry matter: cwt per acre

Nitrogen to leys 1961						
°,	Ro	R <sub>1</sub>	R <sub>2</sub>	CRo	CR <sub>1</sub>	Mean
28.5	39.6	62.5 (±0.9		51•3	59•1	50.1
28.2	9•9	25.2 (±0.6		15•8	26.7	23.1
23.7	4•9	6.7 (±0.4		19•1	10.9	12.6
80.4	54•3	<u>Tota</u> 94.3 (±1.1			96.8	85.8

+ Includes 1 estimated value.

Mean dry matter % as harvested: 1st cut: 21.8
2nd cut: 30.7
3rd cut: 31.6
Total of 3 cuts: 28.0