

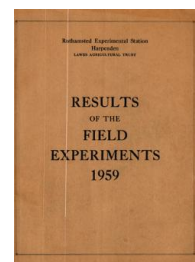
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Yields of the Field Experiments 1959

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59/R/CG/3 Grass - Species and N

Rothamsted Research

Rothamsted Research (1960) *59/R/CG/3 Grass - Species and N* ; Yields Of The Field Experiments 1959, pp 105 - 106 - DOI: <https://doi.org/10.23637/ERADOC-1-179>

59/Cg/3.2

Summary of Results

Dry matter: cwt per acre

N: cwt per acre*	Species				Mean
	C	M	R	T	
<u>1st cut</u>					
	(±0.85)				(±0.43)
None	9.1	19.6	20.7	12.9	15.5
0.3	25.1	34.8	39.9	30.1	32.5
0.6	34.0	40.8	45.2	36.0	39.0
Mean (±0.49)	22.7	31.7	35.2	26.3	28.9
<u>2nd cut</u>					
	(±1.49)				(±0.74)
None	6.2	5.5	1.7	10.8	6.0
0.3	24.0	15.3	12.2	27.9	19.9
0.6	31.4	21.5	21.0	33.6	26.8
Mean (±0.85)	20.6	14.1	11.6	24.1	17.5
<u>3rd cut</u>					
	(±1.01)				(±0.50)
None	2.0	1.9	1.3	1.6	1.7
0.3	17.4	9.8	4.2	13.0	11.1
0.6	30.1	17.5	7.8	21.1	19.1
Mean (±0.59)	16.5	9.7	4.4	11.9	10.6
<u>Total of 3 cuts</u>					
	(±2.18)				(±1.09)
None	17.2	26.9	23.6	25.2	23.2
0.3	66.5	59.8	56.3	71.1	63.4
0.6	95.5	79.7	73.9	90.7	84.9
Mean (±1.25)	59.7	55.5	51.2	62.3	57.1

Mean dry matter % as cut:
 1st cut: 22.7
 2nd cut: 36.7
 3rd cut: 30.5
 Total of 3 cuts: 30.0

Species
 C S37 Cocksfoot
 M S215 Meadow Fescue
 R S24 Perennial Ryegrass
 T Timothy "Scotia"

* Applied for each cut.

59/Cg/4.1

CLOVER AND GRASS LEYS

The comparison of clover and grass leys as a preparation for wheat - West Barnfield II, 1959.

Design: 4 randomized blocks of 16 plots each.

Area of each plot: 0.0159 acres. Area harvested: 0.0068 acres.

Treatments:

Nitrogen to Leys 1959:-

To clover: none (4 plots per block)

To ryegrass: none, R1 and R2 (4 plots per block in each case)

Where R1 = 0.6 cwt N in spring, 0.15 cwt N after 1st hay cut.

R2 = 1.2 cwt N in spring, 0.30 cwt N after 1st hay cut.

The Nitrogen was applied as 'Nitro-chalk'

Note: the experiment is designed to include four rates of N applied to wheat in 1960/61.

Basal Dressings per acre:

To barley nurse crop 1958: 3 cwt compound fertilizer (10% P₂O₅, 20% K₂O) combine drilled; 2 cwt sulphate of ammonia in seedbed.
To leys combine drilled in seedbed 1958: 1 cwt superphosphate.

Cultivations, etc., barley drilled March 25th, 1958: superphosphate applied, leys undersown in barley, ryegrass at 30 lb. and clover at 20 lb. per acre: April 22nd.

'Nitro-chalk' dressings applied: March 12th and May 25th, 1959.

Cut twice for hay: May 20th and July 20th. Varieties: Italian ryegrass S22 and Double cut red clover S151.

Standard errors per plot:

Ryegrass. Dry matter:

1st cut:	3.41 cwt per acre or 7.5%	(42 d.f.)
2nd cut:	0.97 cwt per acre or 7.5%	(42 d.f.)
Total of 2 cuts:	3.78 cwt per acre or 6.5%	(42 d.f.)