ROTHAMSTED RESEARCH

Yields of the Field Experiments 1959

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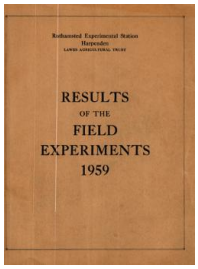

59/R/CG/3 Grass - Species and N

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**

Summary of Results

Dry matter: cwt per acre

N: cwt per acre*	Species C	M	R	T	Mean
1st cut					
		(±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
2nd cut					
		(±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
3rd cut					
		(±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
Total of 3 cuts					
		(±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.

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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 acreas. 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% P_2O_5, 20% K_2O) 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.)

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