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60/R/CA/4 Winter Wheat - Clover and Grass Leys and N

Rothamsted Research

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60/Ca/4.1

WINTER WHEAT

The comparison of clover and grass leys as a preparation for wheat -
West Barnfield II 1960.

Design: 4 randomised blocks of 16 plots each.

Area of each plot: 0.0146 acres.

Treatments. All combinations of:-

Nitrogen to Leys 1959:-

To clover: None (C_0)

To ryegrass: None (R_0), R_1 and R_2

Where R_1 = 0.6 cwt N per acre in spring, 0.15 cwt N after 1st
hay cut.

R_2 = 1.2 cwt N per acre in spring, 0.30 cwt N after 1st
hay cut.

Nitrogen to Wheat 1960:-

None; 0.25, 0.50, 0.75 cwt N per acre as top dressing, half in
March and half in April.

The nitrogen was applied as 'Nitro-Chalk'.

Basal dressings per acre:

To barley nurse crop 1958: 3 cwt compound fertiliser (10% P_2O_5 ,
20% K_2O) combine-drilled; 2 cwt sulphate of ammonia in seedbed.

To leys combine-drilled 1958: 1 cwt superphosphate.

To wheat 1960: 2 cwt compound fertiliser (16% P_2O_5 , 16% K_2O)
combine-drilled.

Cultivations, etc.: Ploughed: Aug 19, 1959. Seed combine-drilled at
180 lb per acre: Oct 16. Nitrogen applied: Mar 7 and Apr 27, 1960.
Sprayed with TCB/MCPA at 4 pints in 40 gallons per acre: Apr 29.
Combine-harvested: Aug 30. Variety: Cappelle.

Standard error per plot.

Grain (at 85% dry matter) cwt per acre: 1.89 cwt per acre or 4.8%
(45 d.f.)

Note: For details of the previous year's results see 'Results of the
Field Experiments' 59/Cg/4.

60/Ca/4.2

Summary of ResultsTreatment in 1959

N in 1960: cwt per acre	C ₀	R ₀	R ₁	R ₂	Mean
<u>Grain (at 85% dry matter): cwt per acre</u>					
			(±0.94)		(±0.46)
None	34.3	29.7	31.4	32.7	32.0
0.25	38.4	38.1	37.9	36.7	37.8
0.50	42.9	44.2	40.9	42.1	42.5
0.75	45.3	47.9	44.5	43.5	45.3
Mean (±0.46)	40.2	40.0	38.7	38.7	39.3

Straw (at 85% dry matter): cwt per acre

None	27.9	20.7	25.9	23.0	24.4
0.25	26.5	26.5	23.3	26.1	25.6
0.50	33.7	30.6	26.0	29.7	30.0
0.75	35.2	31.1	31.3	27.7	31.3
Mean	30.8	27.2	26.6	26.6	27.8

Treatment in 1959To clover C₀ = NoneTo ryegrass R₀ = NoneR₁ = 0.6 cwt N per acre in spring, 0.15 cwt N after 1st hay cut.R₂ = 1.2 cwt N per acre in spring, 0.30 cwt N after 1st hay cut.

Mean dry matter % as harvested: Grain 80.6

Straw 87.8