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Yields of the Field Experiments 1962



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62/R/C/2 One Year Leys for Wheat - Winter Wheat

Rothamsted Research

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62/0/2.1

WINTER WHEAT

The comparison of different one year leys as a preparation for wheat -Stackyard 1962 - the 2nd year.

Design: 4 randomised blocks of 18 plots each, each plot split into 3 for the application of nitrogen.

Area of each sub plot: 0.0053 acres. Area harvested: 0.0046 acres.

Treatments. All combinations of:-Whole plots:

Leys undersown 1960 and cut 1961, with nitrogen as follows:-Clover: None (Co).

Ryegrass: None (Ro); 1 cwt (R1); 2 cwt (R2) N per acre. Clover-ryegrass: None (CRo); 1 cwt (CR1) N per acre.

Potassium to wheat: None; 1.2; 2.4 cwt Ko0 per acre, half ploughed in as muriate of potash, half combine drilled as compound fertilisers (16% P₂O₅, 16% K₂O or 14% P₂O₅, 28% K₂O) - in order to include basal P₂O₅ described below.

Sub plots:

Nitrogen to wheat: None; 0.5; 1.0 cwt N per acre as 'Nitro-Chalk' applied in 2 equal dressings.

Basal dressings per acre:

- To barley nurse crop 1960: 3 cwt compound fertiliser (16% N, 9% P205, 9% K₂0) combine drilled.
- To leys, combine drilled in seedbed 1960: 12 cwt superphosphate.
- To wheat 1962: 0.6 cwt P₂0₅ combine drilled, either as granular superphosphate, or as compound fertilisers (16% P205, 16% K20 or 14% P₂0₅, 28% K₂0).

Cultivations, etc.: Ploughed: Sept 28, 1961. Seed drilled at 150 lb per acre: Oct 4. 1st dressing of 'Nitro-Chalk' applied: Mar 23, 1962. Sprayed with CMPP at 6 pints in 40 gallons per acre: Apr 24. 2nd dressing of 'Nitro-Chalk' applied: May 1. Green crop samples taken: June 13. Combine harvested: Sept 10. Variety: Cappelle.

Note: For details of the previous year's results see 'The Numerical Results of the Field Experiments' 61/C/2.

Standard errors per plot. Grain (at 85% dry matter): Whole plot: 2.38 cwt per acre or 5.1% (51 d.f.) Sub plot: 3.08 cwt per acre or 6.5% (108 d.f.)

62/C/2.2

Summary of Results

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

N to leys 1961

	1. 00 10/10 1/01						
	Co	Ro	R ₁	R ₂	CRo	CR ₁	Mean
K ₂ 0: cwt per acre 1962	(±1.19)						(±0.49)
None 1.2 2.4	53.5 53.0 54.3	42.5 46.2 44.8	43.0 45.2 44.5	39.1 44.9 45.0	45.0 49.6 47.8	44.8 45.9 47.4	44.6 47.5 47.3
N: cwt per acre 1962	(±0.89) ⁽¹⁾ (±1.00) ⁽²⁾						(±0.36)
None 0.5 1.0	47.3 55.9 57.6	31.2 46.3 56.0	33.3 45.7 53.8	33.6 43.6 51.7	38.4 49.7 54.3	35.8 47.4 55.0	36.6 48.1 54.7
Mean (±0.69)	53.6	44.5	44.2	43.0	47.5	46.0	46.5
K ₂ 0: cwt per acre 1962							
	None	1.2	2.4				
N: cwt per acre 1962	(±0.63)(1) (±0.71)(2)						
None 0.5 1.0	35.1 45.9 52.9	37.9 49.5 55.0	36.8 48.9 56.2				

- For use in vertical and interaction comparisons
 For use in horizontal and diagonal comparisons
- Mean dry matter % as harvested: 73.9