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61/W/C/5 *Trefoil* and Ryegrass Green Manures - Barley (Test Crop)

Rothamsted Research

Rothamsted Research (1962) *61/W/C/5 Trefoil and Ryegrass Green Manures - Barley (Test Crop)* ; Yields Of The Field Experiments 1961, pp 98 - 98 - DOI: <https://doi.org/10.23637/ERADOC-1-182>

61/C/5

BARLEY

Effects of Trefoil and Ryegrass green manures and N - Woburn, Lansome Field 1961.

Design: 3 randomised blocks of 16 plots each.

Area of each plot: 0.0193 acres. Area harvested: 0.0138 acres.

Treatments. All combinations of:-

Nitrogen: None(O); 0.3; 0.6; 0.9 cwt N per acre as 'Nitro-Chalk'.

Green manures: None; trefoil (T); Italian ryegrass (R);

Italian ryegrass sown with 0.6 cwt N per acre as 'Nitro-Chalk'(RN).

Basal dressing: 3 cwt compound fertiliser (16% P₂O₅, 16% K₂O) per acre combine drilled.

Cultivations, etc.: N applied for ryegrass: July 22, 1960. Trefoil sown at 30 lb and ryegrass at 40 lb per acre: July 23. Ground chalk applied at 48 cwt per acre: Jan 12, 1961. Ploughed: Jan 26. Seed combine drilled at 2¹/₄ bushels per acre: Mar 8. Sprayed with TCB/MCPA at 4 pints in 40 gallons per acre: May 6. Combine harvested: Aug 17. Variety: Proctor; Ryegrass - S22 Italian. Previous crop: Early potatoes.

Standard error per plot.

Grain (at 85% dry matter): 2.86 cwt per acre or 10.2% (30 d.f.)

Summary of Results

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

Green Manure	N: cwt per acre				Mean
	None	0.3	0.6	0.9	
		(±1.65)			(±0.83)
O	18.2	28.1	34.4	31.8	28.1
T	22.5	27.5	32.8	30.7	28.4
R	19.4	26.9	33.3	30.0	27.4
RN	25.6	30.7	29.8	29.4	28.9
Mean (±0.83)	21.4	28.3	32.6	30.5	28.1

Mean dry matter % as harvested: 81.4

Note: The trefoil made very poor growth. Estimates of dry matter and N per acre in the green manures were made just before ploughing.