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Yields of the Field Experiments 1960

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60/R/CB/2 Barley - Green Manures and N

Rothamsted Research

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60/Cb/2

BARLEY

Effects of green manures, N and straw - Stackyard 1960.

Design: 6 randomised blocks of 9 plots each.

Area of each plot: 0.0212 acres. Area harvested: 0.0152 acres.

Treatments. All combinations of:-

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

Green manures and straw: None; ryegrass undersown; ryegrass undersown plus straw left on the plot after harvest.

Note: The straw treatment was not applied for the first crop.

Basal dressing: 3 cwt compound fertiliser (16% P_2O_5 , 16% K_2O) per acre combine drilled.

Cultivations, etc.: Ploughed: Nov 12 - 17, 1959. Rotary cultivated twice to kill couch (*Agropyron repens*): Mar 22, 1960 and Apr 13. Seed combine drilled at $2\frac{1}{2}$ bushels per acre with basal fertiliser, N applied: Apr 14. Ryegrass drilled at 40 lb per acre: Apr 19. Sprayed with CMPP at 6 pints in 40 gallons per acre: May 25. Combine harvested: Aug 22. Variety: Proctor; Ryegrass - S22 Italian. Previous crop: wheat.

Standard error per plot.

Grain (at 85% dry matter): 1.336 cwt per acre or 4.1% (43 d.f.)

Summary of Results

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

Undersown	N: cwt per acre			Mean
	None	0.3	0.6	
None (± 0.55)	32.1	34.2	33.4	33.2 (± 0.31)
Ryegrass (± 0.39)	30.0	33.2	33.1	32.1 (± 0.22)
Mean (± 0.31)	30.7	33.5	33.2	32.4
Diff. (± 0.67)	-2.1	-1.0	-0.3	-1.1 (± 0.39)

Mean dry matter % as harvested: 81.3