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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

Rothamsted Research (1961) *60/R/CB/2 Barley - Green Manures and N* ; Yields Of The Field Experiments 1960, pp 99 - 99 - DOI: <https://doi.org/10.23637/ERADOC-1-180>

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% P₂O₅, 16% K₂O) 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 2½ 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