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## Yields of the Field Experiments 1957

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### 57/R/CB/4 and 57/W/CB/4 Barley - Levels and Time of N

#### Rothamsted Research

Rothamsted Research (1958) *57/R/CB/4 and 57/W/CB/4 Barley - Levels and Time of N* ; Yields Of The Field Experiments 1957, pp 82 - 82 - DOI: <https://doi.org/10.23637/ERADOC-1-177>

BARLEY

Levels and times of application of nitrogen - Little Hoos 1957.

Design: 22 treatments arranged in 4 blocks of 13 plots each, the control and 3 treatments occurring in every block, the other 18 treatments occurring in 2 blocks. The total amounts of N applied per block were equal.

Area of each plot: 0.0212 acres. Area harvested: 0.0141 acres.

Treatments: None, and all combinations of:-

Nitrogen: 0.23; 0.46; 0.69 cwt N per acre as 'Nitro-Chalk'.

Times of application: All in seedbed (S); all as early top dressing (E); all as late top dressing (L);  $\frac{1}{2}S$  &  $\frac{1}{2}E$ ;  $\frac{1}{2}S$  &  $\frac{1}{2}L$ ;  $\frac{1}{2}E$  &  $\frac{1}{2}L$ ;  $\frac{1}{3}S$ ,  $\frac{1}{3}E$ ,  $\frac{1}{3}L$ .

Basal dressing: 1 cwt superphosphate per acre combine drilled with seed.

Cultivations, etc.: Ploughed: Oct 12, 1956 and Jan 23, 1957. Seedbed 'Nitro-Chalk' applied, seed combine drilled at  $2\frac{1}{2}$  bushels per acre: Mar 22. Early 'Nitro-Chalk' top dressing applied: Apr 17. Late 'Nitro-Chalk' top dressing applied: May 15. Sprayed with MCPA, at 2 pints in 40 gallons per acre: May 30. Combine harvested: Aug 22. Variety: Herta. Previous crop: Wheat and barley.

Standard error per plot.

Grain (at 85% dry matter): 1.71 cwt per acre or 6.2% (26 d.f.)\*

\*1 missing value.

Note: A similar experiment at Woburn was abandoned due to herbicide damage.

Summary of Results

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

N: cwt per acre	S	E	Time of application				$\frac{1}{3}S$ $\frac{1}{3}E$ $\frac{1}{3}L$	Mean
			L	$\frac{1}{2}S$ $\frac{1}{2}E$	$\frac{1}{2}S$ $\frac{1}{2}L$	$\frac{1}{2}E$ $\frac{1}{2}L$		
			(±1.28)				(±0.85)	(±0.43)
None							20.9 <sup>x(1)</sup>	
0.23	22.7	22.0	26.5	26.8	26.1	21.9	24.6	
0.46	27.1	26.6	29.8	29.4	31.3	28.5	28.6	
0.69	33.6	34.6	30.1	30.9	29.0	31.3	31.4	
Mean (±0.71)	27.8	27.7	28.8	29.0	28.8	27.2	28.1 <sup>(2)</sup>	27.7

(1) ±0.85 (2) ±0.49

Mean dry matter % as harvested: 85.3

<sup>x</sup>Includes 1 estimated value.