

Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1957

[Full Table of Content](#)



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 ^{x(1)}	
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 ⁽²⁾	27.7

(1) ±0.85 (2) ±0.49

Mean dry matter % as harvested: 85.3

^xIncludes 1 estimated value.