

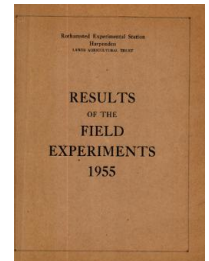
Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1955

[Full Table of Content](#)



55/R/CB/3 Barley - Varieties and N (Growth Study)

Rothamsted Research

Rothamsted Research (1956) *55/R/CB/3 Barley - Varieties and N (Growth Study)* ; Yields Of The Field Experiments 1955, pp 84 - 84 - DOI: <https://doi.org/10.23637/ERADOC-1-175>

55/Cb/3

BARLEY

Varieties and levels of nitrogen (Growth Study) - Great Field I 1955.

Design: 6 × 6 Latin square.

Area of each plot: 0.0223 acre. Area harvested: 0.0118 acre.

Treatments: All combinations of:

Varieties: Herta; Plumage Archer; Proctor.

Nitrogen: None; 0.46 cwt N per acre applied as nitrochalk.

Basal dressing: 1.15 cwt compound granular fertilizer (13% P₂O₅, 13% K₂O) per acre, combine drilled.

Cultivations, etc.: Ploughed: Dec 29, 1954. Nitrochalk applied, seed combine drilled with placement machine at 2½ bushels per acre: Apr 2, 1955. Sprayed with DNOC at 6 lb per acre in 80 gallons: May 11. Combine harvested: Aug 22. Previous crop: Potatoes.

Standard error per plot:

Grain (at 85% D.M.): 2.45 cwt per acre or 5.0% (20 d.f.).

Records were made of the following:-

At harvest:- Shoot number, 1000 corn weight
Straw height, N analyses of grain, straw and chaff.

At intermediate samplings (at fortnightly intervals from May-August):-

Dry weight of straw and ears
Shoot number
Leaf area
Straw height.

Summary of Results

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

N: cwt per acre	Herta	Variety Plumage Archer	Proctor	Mean
		(±1.00)		
None	48.5	43.9	51.0	47.8
0.46	55.6	40.6	52.7	49.6
Mean (±0.71)	52.0	42.3	51.8	48.7
Difference (±1.42)	+7.1	-3.3	+1.7	+1.8
				(±0.82)

Mean dry matter % as harvested: 87.6