

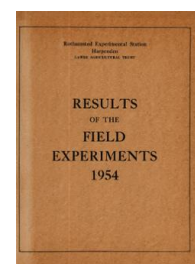
Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1954

[Full Table of Content](#)



54/R/CB/3 Barley - Methods of Harvesting Narrow Plots

Rothamsted Research

Rothamsted Research (1955) *54/R/CB/3 Barley - Methods of Harvesting Narrow Plots* ; Yields Of The Field Experiments 1954, pp 77 - 78 - DOI: <https://doi.org/10.23637/ERADOC-1-184>

54/Cb/3.1

BARLEY

Methods of harvesting, narrow plots and 2 N levels - Great Harpenden I 1954.

System of replication: Plots harvested along the rows - 2 randomized blocks of 10 plots each; Across the rows 2 randomized blocks of 8 plots each.

Area of each whole plot: 0.0231 acre. Area harvested: Binder - full area. Combine - 0.0164 acre.

Treatments: All combinations of:

N: 0.3; 0.6 cwt N per acre applied as nitrochalk.

Methods of harvesting: Binder: Whole plot, or plot harvested as half and 2 adjacent quarter plots separately.

Combine: Single cut full length of plot, single cut on half and 2 adjacent quarter plots separately, or single cut full length of plot between blank rows.

Basal dressing: None.

Cultivations, etc.: Ploughed: Nov 13, 1953. Nitrochalk applied: Mar 23, 1954. Seed drilled at 3 bushels per acre: Mar 24. Sprayed with M.C.P.A., low volume, 2 pints per acre: May 19. Harvested: Binder plots - Aug 26, Combine plots - Aug 30. Variety: Herta. Previous crop: Barley.

Standard errors per plot: Grain (at 85% dry matter).

Whole plot: 2.51 cwt per acre or 7.0% (16 d.f.)

Sub plot: 1.17 cwt per acre or 3.1% (14 d.f.)

54/Cb/3.2

Summary of Results

Grain (at 85% dry matter): Mean 35.6 cwt per acre

Method of Harvesting	Harvested		N: cwt per acre		Harvested as			Mean
	Along the rows	Across the rows	0.3	0.6	1/4 plots	1/2 plots	whole plots	
	(±0.89)		(±0.89)		(1) and (2)		(±0.89)	(±0.63)
Binder	37.0	36.2	34.4	38.9	38.2	38.2	35.1	36.6
Combine	34.4	33.6	32.2	35.9	35.6	35.0	32.8	34.0
Mean (±0.63)	35.7	35.0	33.3	37.4	36.9 ⁽³⁾	36.6 ⁽³⁾	33.9	35.3

Whole plots. Harvested along the rows by Combine

	N: cwt per acre		Mean
	0.3	0.6	
	(±1.77)		(±1.25)
Single cut	33.2	32.8	33.0
Area between blank rows	35.2	40.2	37.7

- (1) ±0.39 for use in horizontal comparisons
- (2) ±0.97 for use in all others
- (3) ±0.28