

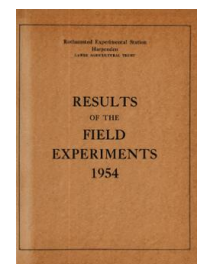
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Yields of the Field Experiments 1954

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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	$\frac{1}{4}$ plots	$\frac{1}{2}$ 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