

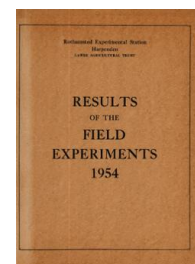
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Yields of the Field Experiments 1954

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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