

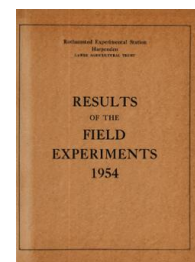
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# Yields of the Field Experiments 1954

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## 54/R/CB/2 Barley - Methods of Harvesting Square Plots

### Rothamsted Research

Rothamsted Research (1955) *54/R/CB/2 Barley - Methods of Harvesting Square Plots* ; Yields Of The Field Experiments 1954, pp 75 - 76 - DOI: <https://doi.org/10.23637/ERADOC-1-184>

54/Cb/1

BARLEY

Seed rates and levels of nitrogen - Long Hoos V 1954.

System of replication: 3 randomized blocks of 9 plots each.

Area of each plot: 0.0112 acre.

Treatments: All combinations of:-

Seed rates: 1; 2; 3 bushels per acre.

Nitrogen: 0.3; 0.6; 0.9 cwt N per acre applied as sulphate of ammonia.

Basal dressing: None.

Cultivations, etc.: Ploughed: Sept 16, 1953 and again Nov 25. Sulphate of ammonia applied, seed drilled at 3 bushels per acre: Mar 18, 1954. Sprayed with M.C.P.A. medium volume, 2½ pints per acre: May 14. Combine harvested: Sept 2. Variety: Proctor. Previous crop: Beans.

Standard error per plot:

Grain (at 85% D.M.): 1.49 cwt per acre or 3.5% (16 d.f.)

Summary of Results

| N cwt per acre                          | Seed rates: bushels per acre |         |      | Mean    |
|---|------------------------------|---------|------|---------|
|   | 1                            | 2       | 3    |         |
| Grain (at 85% dry matter): cwt per acre |                              |         |      |         |
|   |                              | (±0.86) |      | (±0.50) |
| 0.3                                     | 41.3                         | 43.5    | 43.7 | 42.8    |
| 0.6                                     | 42.3                         | 43.9    | 44.5 | 43.6    |
| 0.9                                     | 39.7                         | 43.4    | 43.4 | 42.1    |
| Mean (±0.50)                            | 41.1                         | 43.6    | 43.9 | 42.9    |

Mean dry matter % as harvested: 77.9

Estimates of % area lodged and counts of plant, straw and ear numbers were made. There was no Eyespot or Take-All.

54/Cb/2

BARLEY

Methods of harvesting square plots and two N levels - Great Harpenden I 1954.

System of replication: 4 randomized blocks of 4 plots each.

Area of each plot: 0.0265 acre. Area harvested: Binder - full area, Combine - 0.0225 acre.

Treatments: All combinations of:-

N: 0.3; 0.6 cwt per acre applied as Nitrochalk in seedbed.

Methods of harvesting: Binder - full area; Combine (Massey Harris 780, 10' cut) - 3 cuts each of 0.0075 acre, recorded separately.

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 error per plot:

Grain (at 85% D.M.): 0.988 cwt per acre or 2.8% (9 d.f.)

Estimated % S.E. (whole plot) measured by combine:-

|        |      |
|--------|------|
| 3 cuts | 2.8% |
| 2 cuts | 4.3% |
| 1 cut  | 7.2% |

Summary of Results

Grain (at 85% Dry Matter): cwt per acre

| Methods of Harvesting | N: cwt per acre |      | Mean    |
|-----------------------|-----------------|------|---------|
|                       | 0.3             | 0.6  |         |
|                       | (±0.49)         |      | (±0.35) |
| Binder                | 32.7            | 38.0 | 35.3    |
| Combine               | 33.9            | 36.8 | 35.4    |
| Mean (±0.35)          | 33.3            | 37.4 | 35.3    |

Mean dry matter % as weighed: Binder plots - 84.0; Combine plots - 82.1.