

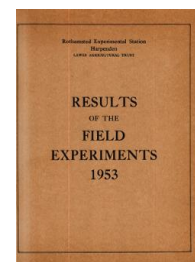
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53/CB/1 Barley - Late Application of Nitrogen - Rothamsted

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Rothamsted Research (1954) *53/CB/1 Barley - Late Application of Nitrogen - Rothamsted* ; Yields Of The Field Experiments 1953, pp 79 - 79 - DOI: <https://doi.org/10.23637/ERADOC-1-173>

BARLEY

Late application of nitrogen - Deacons. Field 1953.

System of replication: 4 randomized blocks of 3 plots each.

Area of each plot: 0.0204 acre.

Treatments:

Nitrogen: None; 0.23; 0.46 cwt per acre applied as nitrochalk top dressing.

Basal dressing per acre: $2\frac{1}{4}$ cwt sulphate of ammonia, 1 cwt superphosphate.

Cultivations, etc.: Ploughed: Feb 5. Seed drilled at 3 bushels per acre with Superphosphate: Mar 7. Sulphate of ammonia applied: Mar 9. Nitrochalk applied: June 25. Harvested: Aug 13. Variety: Herta. Previous crop: Potatoes.

Standard error per plot:

Grain: 0.582 cwt per acre or 1.4% (6 d.f.)

Summary of Results

| | Nitrogen (as nitrochalk top dressing): cwt per acre | | | Mean |
|----------------------|---|------|------|------|
| | None | 0.23 | 0.46 | |
| | Yield: cwt per acre | | | |
| Grain (± 0.29) | 38.6 | 40.3 | 42.0 | 40.3 |
| Straw [✱] | 39.8 | 39.3 | 40.8 | 40.0 |
| | Crude protein: cwt per acre | | | |
| Grain | 3.74 | 4.26 | 4.63 | |
| Increase | | 0.52 | 0.89 | |
| Straw | 0.80 | 0.96 | 1.22 | |
| Increase | | 0.16 | 0.42 | |
| | Percentage uptake of added nitrogen | | | |
| Grain | | 36 | 31 | |
| Straw | | 11 | 14 | |

[✱]Corrected to 85% dry matter. Mean dry matter %:85.1.