

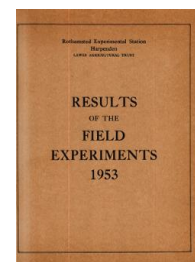
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53/CB/3 Barley - Control of Powdery Mildew - Rothamsted

Rothamsted Research

Rothamsted Research (1954) *53/CB/3 Barley - Control of Powdery Mildew - Rothamsted* ; Yields Of The Field Experiments 1953, pp 81 - 82 - DOI: <https://doi.org/10.23637/ERADOC-1-173>

53/Cb/3.1

BARLEY

Control of Powdery Mildew - Little Knott I 1953.

System of replication: 8 randomized blocks of 2 plots each, each plot being split into two for spraying, one group of 4 blocks being sown early, the other late.

Area of each sub plot: 0.0159 acre.

Treatments: All combinations of:

Blocks. Sowing date: Early, 12th March; Late, 15th April.

Whole plots. Varieties: Plumage Archer; Haisa II.

Sub plots. Spraying: None; 160 gals. per acre of 1 in 80 Lime sulphur.

Basal dressing per acre: 2 cwt sulphate of ammonia; 1 cwt superphosphate combine drilled.

Cultivations, etc.:

'Early' plots: Ploughed: Feb 23. Seed drilled at 3 bushels per acre with superphosphate, sulphate of ammonia applied: Mar 12. Harvested: Aug 17.

'Late' plots: Ploughed: Apr 11. Seed drilled at 3 bushels per acre with superphosphate, sulphate of ammonia applied: Apr 15. Harvested: Aug 18.

Whole experiment: Sprayed appropriate plots with lime sulphur: May 5 and again June 11. Previous crop: Kale.

Standard errors per plot. Grain:

Whole plot: 1.92 cwt per acre or 5.7% (6 d.f.)

Sub plot: 1.55 cwt per acre or 4.6% (12 d.f.)

Note: Counts of incidence of Powdery Mildew were made.

53/Cb/3.2

Summary of Results

| Lime sulphur | Early sowing 11th March | | | Late sowing 15th April | | |
|--------------|-------------------------|-------|------|------------------------|-------|------|
| | Plumage | Haisa | Mean | Plumage | Haisa | Mean |
| | Archer | II | | Archer | II | |

Grain: cwt per acre

| | (a) and (b) | (±0.55) | | (a) and (b) | (±0.55) | |
|--------------|-------------|---------|------|-------------|---------|------|
| - | 33.6 | 31.4 | 32.5 | 34.6 | 35.8 | 35.2 |
| Sprayed | 33.3 | 31.6 | 32.4 | 35.9 | 35.0 | 35.5 |
| Mean (±0.96) | 33.4 | 31.5 | 32.5 | 35.3 | 35.4 | 35.3 |

Straw: cwt per acre

| | | | | | | |
|---------|------|------|------|------|------|------|
| - | 42.2 | 42.4 | 42.3 | 41.9 | 41.9 | 41.9 |
| Sprayed | 45.3 | 40.5 | 42.9 | 46.5 | 43.3 | 44.9 |
| Mean | 43.7 | 41.5 | 42.6 | 44.2 | 42.6 | 43.4 |

- (a) ±0.77 for use in vertical comparisons only.
 (b) ±1.11 for use in all others.

N.B. The standard errors given are not valid for testing the effect of sowing date for any particular treatment; the interactions of sowing date with treatments may, however, be tested.