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

Rothamsted Research

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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 Archer	Haisa II	Mean	Plumage Archer	Haisa II	Mean

Grain: cwt per acre

	(a)	(b)	(±0.55)	(a)	(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.