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82/R/B/8 Plot Sizes and Mildew Spread - Spring Barley

Rothamsted Research

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82/R/B/8

SPRING BARLEY

PLOT SIZES AND MILDEW SPREAD

Object: To study the effects of plot size on the incidence of mildew (*Erysiphe graminis*) and on the yield of neighbouring plots - Great Knott II.

Sponsor: J.F. Jenkyn.

Design: A serially balanced sequence of 4 'blocks' of 3 plots with separating and flanking plots.

Whole plot dimensions: Narrow plots: 3.0 x 12.0.
Wide plots: 9.0 x 12.0.

Treatments:

TREATMNT	Plot width (all 12m long) and fungicide treatment:
3M NONE	3m, no fungicide
3M TRID	3m, tridemorph spray at 0.53 kg on 21 May
9M NONE	9m, no fungicide

- NOTES: (1) The above plots were each separated by 3m wide plots sprayed with tridemorph. Three extra plots, also treated with tridemorph, were included at each end of the experiment.
- (2) The effects of treatments to neighbouring plots (left - LHN, right - RHN) were estimated. In this experiment 'left' was East, 'right' was West.

Basal applications: Manures: (0:14:28) at 900 kg, 'Nitro-Chalk' at 480 kg.
Weedkillers: Dicamba, mecoprop and MCPA (as 'Poly-Farmon' at 5.0 l) in 250 l. Paraquat and diquat (as 'Cleansweep' at 2.0 l) in 250 l.

Seed: Georgie, sown at 160 kg.

Cultivations, etc.: Paraquat and diquat applied: 22 Oct, 1981. PK applied: 25 Nov. Ploughed: 10 Dec. Spring-tine cultivated, N applied: 30 Mar, 1982. Rotary harrowed, seed sown: 31 Mar. Dicamba, mecoprop and MCPA applied: 18 May. Combine harvested: 17 Aug. Previous crops: S. beans 1980, w. barley 1981.

NOTE: Mildew was assessed in early June and early July on all plots.

82/R/B/8

***** TABLES OF MEANS *****

TREATMNT	3M NONE	3M TRID	9M NONE
	5.72	6.62	5.39

LHN	3M NONE	3M TRID	9M NONE
TREATMNT			
3M NONE		5.64	5.80
3M TRID	6.61		6.64
9M NONE	5.41	5.38	

RHN	3M NONE	3M TRID	9M NONE
TREATMNT			
3M NONE		5.77	5.67
3M TRID	6.70		6.55
9M NONE	5.53	5.26	

GRAND MEAN 5.91

GRAIN MEAN DM% 84.0

PLOT AREA HARVESTED 0.00245