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83/R/B/7 Plot Sizes and Mildew Spread - S. Barley

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83/R/B/7

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 - Highfield IV.

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: 10.0 x 12.0.

Treatments:

TREATMNT	Plot width (all 12m long) and fungicide treatment:
3M NONE	3m, no fungicide
3M TRID	3m, tridemorph spray at 0.52 kg in 220 l on 10 June, 1983
10M NONE	10m, no fungicide

NOTES: (1) The above plots were each separated by 3m wide plots sprayed with tridemorph.

(2) The effects of treatments to neighbouring plots (left - LHN, right - RHN) were estimated. In this experiment 'left' was south-east, 'right' was north-west.

Basal applications: Manures: (0:18:36) at 690 kg. 'Nitro-Chalk' at 480 kg followed by 250 kg. Weedkillers: Dicamba, mecoprop and MCPA (as 'Herrisol' at 5.0 l) in 250 l.

Seed: Georgie, sown at 160 kg.

Cultivations, etc.: PK applied: 18 Oct, 1982. Ploughed: 17 Dec. Spring-tine cultivated, first N applied: 15 Mar, 1983. Spring-tine cultivated, seed sown: 17 Mar. 'Herrisol' applied: 24 May. Second N applied: 26 May. Combine harvested: 8 Aug. Previous crops: S. beans 1981, w. wheat 1982.

NOTE: Leaf diseases were assessed in late June and mid July.

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GRAIN TONNES/HECTARE

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

TREATMNT	3M	NONE	3M	TRID	10M	NONE
		4.99		5.71		4.89

LHN	3M	NONE	3M	TRID	10M	NONE
TREATMNT						
3M	NONE			4.94		5.03
3M	TRID	6.01				5.40
10M	NONE	4.71		5.06		

RHN	3M	NONE	3M	TRID	10M	NONE
TREATMNT						
3M	NONE			4.98		5.00
3M	TRID	5.92				5.50
10M	NONE	4.98		4.80		

GRAND MEAN 5.19

GRAIN MEAN DM% 86.8

PLOT AREA HARVESTED 0.00245