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84/R/B/10 Plot Sizes and Mildew Spread - S. Barley

Rothamsted Research

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84/R/B/10

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 - Gt. Harpenden 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 10.0.
Wide plots: 10.0 x 10.0.

Treatments:

TREATMNT	Plot width (all 10m long) and fungicide treatment:
3M NONE	3m, no fungicide
3M TRID	3m, tridemorph spray at 0.52 kg in 220 l on 25 May, 31 May, 1984
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 north-west, 'right' was south-east.

Basal applications: Manures: 'Nitro-Chalk' at 480 kg. Weedkillers: Dicamba with mecoprop and MCPA (as 'Herrisol' at 5.0 l) in 200 l.

Seed: Georgie, sown at 160 kg.

Cultivations, etc.: - Ploughed: 5 Dec, 1983. N applied, spring-tine cultivated, rotary harrowed, seed sown: 22 Mar, 1984. Weedkillers applied: 15 May. Combine harvested: 19 Aug. Previous crops: Potatoes 1982, w. wheat 1983.

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

84/R/B/10

GRAIN TONNES/HECTARE

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

TREATMNT	3M NONE	3M TRID	10M NONE
	6.99	8.60	6.92

LHN	3M NONE	3M TRID	10M NONE
TREATMNT			
3M NONE		6.87	7.12
3M TRID	8.60		8.60
10M NONE	6.87	6.97	

RHN	3M NONE	3M TRID	10M NONE
TREATMNT			
3M NONE		7.02	6.97
3M TRID	8.50		8.70
10M NONE	6.79	7.05	

GRAND MEAN 7.50

GRAIN MEAN DM% 85.0

PLOT AREA HARVESTED 0.00204