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84/R/B/8 Mildew Sensitivity - S. Barley

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84/R/B/8

SPRING BARLEY

MILDEW SENSITIVITY

Object: To study the effects of varieties with differing resistance genes on the sensitivity of powdery mildew (*Erysiphe graminis*) to fungicides - Delafield.

Sponsor: D.W. Hollomon.

Design: 2 randomised blocks of 16 plots.

Whole plot dimensions: 9.0 x 9.0.

Treatments: All combinations of:-

1. VARIETY Varieties:

CARNIVAL
TRIUMPH

2. FUNG SD Fungicidal seed dressings:

NONE None
ETHIRIMO Ethirimol at 4 g per kg seed
TR+FU Triadimenol at 0.38 g per kg seed and fuberidazole
at 0.045 g per kg seed (duplicated)

3. FUNG SP Fungicidal foliar spray:

NONE None
TRIADIME Triadimenol at 0.12 kg in 500 l on 11 June, 1984

NOTES: (1) The seed was sown at 160 kg.

(2) Plots were divided by 3m sown paths of undressed Golden Promise.

Basal applications: Manures: 'Nitro-Chalk' at 500 kg. Weedkillers:
Dicamba, mecoprop and MCPA (as 'Herrisol' at 5.0 l) in 250 l.

Cultivations, etc.:- Ploughed: 12 Dec, 1983. N applied: 9 Mar, 1984.
Spring-tine cultivated: 16 Mar. Rotary harrowed, seed sown: 19 Mar.
Weedkillers applied: 16 May. Combine harvested: 18 Aug. Previous
crops: S. beans 1982, w. wheat 1983.

NOTE: Mildew was assessed on five occasions from mid-May to early July.
Sensitivity of mildew to ethirimol and triadimenol was assessed by
bioassay in early June.

84/R/B/8

GRAIN TONNES/HECTARE

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

FUNG SD VARIETY	NONE	ETHIRIMO	TR+FU	MEAN
CARNIVAL	6.92	7.23	7.13	7.10
TRIUMPH	6.43	7.08	6.38	6.57
MEAN	6.67	7.16	6.75	6.83

FUNG SP VARIETY	NONE	TRIADIME	MEAN
CARNIVAL	6.88	7.33	7.10
TRIUMPH	5.94	7.19	6.57
MEAN	6.41	7.26	6.83

FUNG SP FUNG SD	NONE	TRIADIME	MEAN
NONE	6.42	6.93	6.67
ETHIRIMO	6.88	7.43	7.16
TR+FU	6.17	7.33	6.75
MEAN	6.41	7.26	6.83

FUNG SD FUNG SP VARIETY	NONE	TRIADIME	ETHIRIMO	TRIADIME	TR+FU	TRIADIME
CARNIVAL	6.88	6.95	7.18	7.29	6.73	7.53
TRIUMPH	5.95	6.91	6.58	7.58	5.62	7.13

***** STANDARD ERRORS OF DIFFERENCES OF MEANS *****

TABLE	VARIETY	FUNG SD	FUNG SP	VARIETY FUNG SD	MIN REP	MAX-MIN
SED	0.138	0.196	0.138	0.277		
		0.169		0.239		

TABLE	VARIETY FUNG SP	FUNG SD FUNG SP	VARIETY FUNG SD FUNG SP	MIN REP	MAX-MIN	MAX REP
SED	0.196	0.277	0.391			
		0.239	0.339			
		0.196	0.277			

FUNG SD
 MAX REP TR FU ONLY
 MAX-MIN TR FU V ANY OF REMAINDER
 MIN REP ANY OF REMAINDER

***** STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATION *****

STRATUM	DF	SE	CV%
BLOCK.WP	19	0.391	5.7

GRAIN MEAN DM% 86.7 PLOT AREA HARVESTED 0.00248