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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.

