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Rothamsted Research

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73/R/BW/1

WINTER BARLEY

TIMES OF APPLYING FUNGICIDES

Object: To study the effects of fungicides applied to barley at specific stages of mildew development on subsequent infection and on yield - Hoosfield.

Sponsor: A. Bainbridge.

Design: 5 x 5 Latin square.

Whole plot dimensions: 4.27 x 9.14. Area harvested: 0.00195.

Treatments: Times of applying fungicides	FUNGICIDE
None	O
Seed dressed with ethirimol	ED
Sprayed with tridemorph at 0.7 l in 340 l	
at GS 2-3 (beginning of tillering) on 19 Mar	TSl
at GS 8 (last leaf just visible) on 18 May (when	
spore numbers in traps were increasing rapidly)	TS2
at GS 10.5 (all ears out of sheath) on 31 May	TS3

Basal applications: Manures: 310 kg (0:20:20) combine drilled. 380 kg 'Nitro-Chalk' in spring. Weedkiller: MCPA, mecoprop and dicamba ('Tetralex plus' at 7.0 l in 220 l).

Seed: Senta sown at 160 kg.

Cultivations, etc.:- Ploughed: 11 Sept, 1972. Discd twice: 18 Sept.
Rotary harrowed: 28 Sept. Seed sown: 29 Sept. N applied:
14 Apr, 1973. Weedkiller applied: 26 Apr. Combine harvested:
26 July. Previous crops: Barley 1971, barley 1972.

NOTE: Determinations were made of numbers of seedlings at emergence, amounts of foliar disease and the number of fertile tillers.

Standard error per plot.

Grain, tonnes/hectare: 0.237 or 4.1% (12 d.f.)