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71/R/B/12 Early and Late Mildew - Barley

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71/R/B/12

BARLEY

EARLY AND LATE MILDEW

Object: To study the effects of mildew epidemics at various times - Long Hoos IV.

Design: 8 randomised blocks of 4 plots.

Dimensions of whole plot: 4.27 x 24.4. Area harvested: 0.00390.

Treatments: Fungicides, ethirimol:-

None	(0)
224 g as seed dressing	(1D)
1.80 kg as seed dressing	(8D)
0.90 kg in 337 l on 15 June (growth stage 10) and on 9 July (growth stage 11.1)	(8S)

Basal applications: 377 kg (20:10:10) combine drilled. Weedkiller: Ioxynil octanoate, bromoxynil octanoate and the iso-octyl ester of dichlorprop ('Oxytril P' at 1.4 l in 225 l).

Cultivations, etc.: Deep-tine cultivated twice: 10 Oct, 1970.
Seed combine drilled at 157 kg: 30 Mar, 1971. Weedkiller applied: 11 May. Combine harvested: 18 Aug. Variety: Zephyr.
Previous crops: Spring beans 1969, potatoes 1970.

NOTE: Samples were taken for assessment of mildew (*Erysiphe graminis*) and other foliar diseases and for assessment of tiller numbers, tiller length and ear sizes.

Standard error per plot.

Grain, tonnes/hectare: 0.081 or 1.6% (21 d.f.)

71/R/B/12

SUMMARY OF RESULTS

0	1D	8D	8S	Mean
GRAIN: TONNES/HECTARE				
(±0.029)				
4.59	4.97	5.48	4.70	4.94
STRAW: TONNES/HECTARE				
3.78	3.85	4.57	3.92	4.03

Mean D.M. %: Grain: 85.0
Straw: 85.3