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71/R/CS/69 Early and Late Mildew - Barley

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71/R/CS/69

EARLY AND LATE MILDEW

Object: To study the residual effects of ethirimol applied to barley in 1970 - Long Hoos V.

The second year, barley.

For previous year see 70/R/B/4(t).

Design: 4 randomised blocks of 4 plots.

Dimensions of whole plot: 4.27 x 24.4 Area harvested: 0.00694.

Treatments: Residues of fungicide (ethirimol) applied in 1970.

None

224 g as seed dressing

1.80 kg as seed dressing plus 0.90 kg in 393 l as a foliar spray on two occasions

0.90 kg in 393 l as a foliar spray on two occasions.

(0)

(1D)

(8D8S)

(8S)

Basal applications: 1255 kg (0:14:28) broadcast by drill, 405 kg (20:10:10) combine drilled. Weedkillers: Paraquat at 0.28 kg ion in 225 l. Ioxynil at 0.536 kg and mecoprop at 1.58 kg in 225 l.

Cultivations, etc.: Paraquat applied: 23 Sept, 1970. Basal PK applied: 27 Oct. Deep-tine cultivated twice (depth 15 cm): 28 Oct. Seed combine drilled at 157 kg: 5 Mar, 1971. Ioxynil/mecoprop applied: 3 May. Combine harvested: 18 Aug. Variety: Zephyr.

- NOTES: (1) Samples were taken for assessment of mildew (*Erysiphe graminis*) and other foliar diseases.
(2) The rates of ethirimol shown above are the correct ones. Those shown in 70/R/B/4 as ethirimol were amounts of 'Milstem' (80% ethirimol).

Standard error per plot.

Grain, tonnes/hectare: 0.110 or 2.2% (9 d.f.)

71/R/CS/69

SUMMARY OF RESULTS

GRAIN: TONNES/HECTARE

Applied 1970

0	1D	8D8s	8s	Mean
(±0.055)				
5.00	5.08	5.19	5.10	5.09

Mean D.M. %: 84.6