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72/R/B/6 Barley Early and Late Mildew

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72/R/B/6

BARLEY

EARLY AND LATE MILDEW

Object: To study the effects of applying ethirimol as seed dressing and spray at different times, on incidence of mildew (*Erysiphe graminis*) and yield of barley - Whittlocks.

Sponsor: J.Jenkyn.

Design: 8 randomised blocks of 4 plots.

Whole plot dimensions: 4.27 x 24.4. Area harvested: 0.00390.

Treatments: Fungicide, ethirimol (F):-

None	(O)
0.22 kg as seed dressing	(E)
1.79 kg as seed dressing plus	
2 spray applications each at 0.90 kg in 340 l	(EL)
2 spray applications each at 0.90 kg in 340 l	(L)

NOTE: Mildew infected seedlings were planted in O and L plots.

Basal applications: 440 kg (20:15:15) combine drilled. Ioxynil, bromoxynil, 2,4-DP and MCPA ('Tetroxone' at 5.6 l in 220 l).

Seed: Zephyr (all dressed with normal dual purpose dressing) sown at 160 kg.

Cultivations, etc.: - Deep-tine cultivated: 9 Nov, 1971. Seed combine drilled: 23 Mar, 1972. Mildew infected seedlings planted in O and L plots: 25 Apr. Weedkiller applied: 8 May. Ethirimol sprays applied: 23 June, 13 July. Combine harvested: 22 Aug. Previous crops: Potatoes 1970, fallow 1971.

NOTE: Seedling emergence counts were made in April. Mildew (*Erysiphe graminis*) was assessed on five occasions throughout the season. Brown rust (*Puccinia hordei*) was assessed in late July. In early August fertile tiller counts were made, and on 17 August harvest samples were taken for assessment of tiller and ear sizes.

Standard error per plot.

Grain, tonnes/hectare: 0.216 or 3.6% (21 d.f.)

72/R/B/6

TABLES OF MEANS

GRAIN: TONNES/HECTARE

F				
O	E	EL	L	Mean
5.46	5.75	6.59	6.03	5.96

STANDARD ERROR OF DIFFERENCES

F 0.108

STRAW: TONNES/HECTARE

F				
O	E	EL	L	Mean
4.55	5.14	6.13	5.19	5.25

Mean D.M. %: Grain: 86.2

Straw: 92.0