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Yields of the Field Experiments 1978

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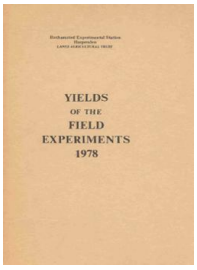

78/R/B/7 Mildew Sensitivity to Ethirimol - Barley

Rothamsted Research

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78/R/B/7

SPRING BARLEY

MILDEW SENSITIVITY TO ETHIRIMOL

Object: To study the effects of a range of rates of ethirimol seed dressing on mildew sensitivity and yield of barley - Long Hoos V4.

Sponsor: D.W. Hollomon.

Design: 4 randomised blocks of 4 plots.

Whole plot dimensions: 2.41 x 5.18.

Treatments:

ETHIRIMO	Ethirimol seed dressing (g/kg of seed):
0	0.00
1	0.93
4	3.20
16	14.40

NOTE: Surrounds were sown to Proctor not treated against mildew.

Basal applications: Manures: (0:14:28) at 630 kg, 'Nitro-Chalk 25' at 400 kg. Weedkillers: Dicamba with mecoprop and MCPA ('Tetralex Plus' at 5.6 l in 340 l).

Seed: Proctor, sown at 160 kg.

Cultivations, etc.:- PK applied: 23 Nov, 1977. Ploughed: 29 Nov. N applied, spring-tine cultivated: 10 Mar, 1978. Sown: 11 Mar. Weedkillers applied: 10 May. Combine harvested: 26 May. Previous crops: Wheat and barley 1976, potatoes 1977.

NOTES: (1) Plots were inoculated with plants heavily infected with mildew (five strains) on 24 Apr, 1978.
(2) Mildew and its race composition and ethirimol sensitivity were assessed at 3 growth stages during the season.

GRAIN TONNES/HECTARE

***** TABLES OF MEANS *****

ETHIRIMO	0	1	4	16	MEAN
	5.35	5.35	5.51	5.46	5.42

***** STANDARD ERRORS OF DIFFERENCES OF MEANS *****

TABLE	ETHIRIMO
SED	0.112

***** STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATION *****

STRATUM	DF	SE	CV%
BLOCK.WP	9	0.159	2.9

GRAIN MEAN DM% 79.6 PLOT AREA HARVESTED 0.00086

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