Yields of the Field Experiments 1977

[Full Table of Content](#)
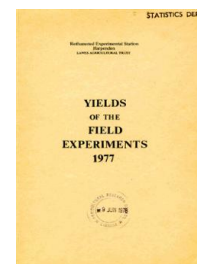
77/R/B/9 Mildew Tolerance to Ethirimol - Barley

Rothamsted Research

77/R/B/9

SPRING BARLEY

MILDEW TOLERANCE TO ETHIRIMOL

Object: To study the effects of a range of rates of ethirimol seed dressing on mildew tolerance and yield of barley - Garden Plot 8.

Sponsor: D.W. Hollomon.

Design: 3 randomised blocks of 4 plots.

Whole plot dimensions: 2.40 x 5.18.

Treatments:

ETHIRIMO   Ethirimol seed dressing (g/kg of seed):

 0
 1
 4
16

NOTE: Surrounds were sown to Proctor sprayed with tridemorph at 0.53 kg in 340 l on 23 June.

Basal applications: Manures: (0:14:28) at 970 kg. 'Nitro-Chalk' at 450 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: 13 Dec, 1976. Ploughed: 7 Mar, 1977. Power harrowed and seed sown: 8 Apr. N applied: 13 Apr. Weedkillers applied: 31 May. Combine harvested: 30 Aug. Previous crops: Spring wheat 1975, lupins 1976.

NOTES: (1) Plots were inoculated with six separate strains of powdery mildew, ranging in ethirimol-sensitivity from none to great.
       (2) Mildew and its race composition and ethirimol tolerance were assessed during the season.

GRAIN TONNES/HECTARE

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

ETHIRIMO	0	1	4	16	MEAN
	5.38	4.32	5.03	5.18	4.98

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

TABLE	ETHIRIMO
SED	0.367

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

STRATUM	DF	SE	CV%
BLOCK.WP	6	0.450	9.0

GRAIN MEAN DM% 81.3
PLOT AREA HARVESTED 0.00050

363