

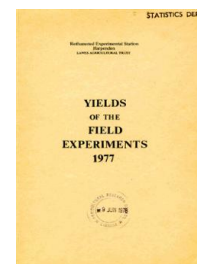
Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED  
RESEARCH

## Yields of the Field Experiments 1977

[Full Table of Content](#)



---

### 77/R/B/9 Mildew Tolerance to Ethirimol - Barley

#### Rothamsted Research

Rothamsted Research (1978) *77/R/B/9 Mildew Tolerance to Ethirimol - Barley* ; Yields Of The Field Experiments 1977, pp 363 - 363 - DOI: <https://doi.org/10.23637/ERADOC-1-29>

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 ('Tetralix 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