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## Yields of the Field Experiments 1971

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### 71/R/B/12 Early and Late Mildew - Barley

#### Rothamsted Research

Rothamsted Research (1972) *71/R/B/12 Early and Late Mildew - Barley* ; Yields Of The Field Experiments 1971, pp 289 - 290 - DOI: <https://doi.org/10.23637/ERADOC-1-97>

71/R/B/12

BARLEY

EARLY AND LATE MILDEW

Object: To study the effects of mildew epidemics at various times -  
Long Hoos IV.

Design: 8 randomised blocks of 4 plots.

Dimensions of whole plot: 4.27 x 24.4. Area harvested: 0.00390.

Treatments: Fungicides, ethirimol:-

|                                                                                    |      |
|------------------------------------------------------------------------------------|------|
| None                                                                               | (0)  |
| 224 g as seed dressing                                                             | (1D) |
| 1.80 kg as seed dressing                                                           | (8D) |
| 0.90 kg in 337 l on 15 June (growth stage 10) and on<br>9 July (growth stage 11.1) | (8S) |

Basal applications: 377 kg (20:10:10) combine drilled. Weedkiller:  
Ioxynil octanoate, bromoxynil octanoate and the iso-octyl ester  
of dichlorprop ('Oxytril P' at 1.4 l in 225 l).

Cultivations, etc.: Deep-tine cultivated twice: 10 Oct, 1970.  
Seed combine drilled at 157 kg: 30 Mar, 1971. Weedkiller  
applied: 11 May. Combine harvested: 18 Aug. Variety: Zephyr.  
Previous crops: Spring beans 1969, potatoes 1970.

NOTE: Samples were taken for assessment of mildew (*Erysiphe graminis*) and  
other foliar diseases and for assessment of tiller numbers,  
tiller length and ear sizes.

Standard error per plot.

Grain, tonnes/hectare: 0.081 or 1.6% (21 d.f.)

71/R/B/12

SUMMARY OF RESULTS

| 0                     | 1D   | 8D   | 8S   | Mean |
|-----------------------|------|------|------|------|
| GRAIN: TONNES/HECTARE |      |      |      |      |
| (±0.029)              |      |      |      |      |
| 4.59                  | 4.97 | 5.48 | 4.70 | 4.94 |
| STRAW: TONNES/HECTARE |      |      |      |      |
| 3.78                  | 3.85 | 4.57 | 3.92 | 4.03 |

Mean D.M. %: Grain: 85.0  
Straw: 85.3