

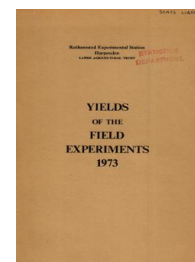
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# Yields of the Field Experiments 1973

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## 73/R/BS/6 - Times of Applying Fungicides - Spring Barley

### Rothamsted Research

Rothamsted Research (1974) *73/R/BS/6 - Times of Applying Fungicides - Spring Barley* ; Yields Of The Field Experiments 1973, pp 329 - 330 - DOI: <https://doi.org/10.23637/ERADOC-1-98>

73/R/BS/6

# SPRING BARLEY

## TIMES OF APPLYING FUNGICIDES

Object: To study the effects of applying fungicides to barley, at a range of times on yield and incidence of mildew - Whittlocks.

Sponsor: J.F. Jenkyn.

Design: 4 blocks of 14 plots.

Whole plot dimensions: 4.27 x 12.2 Area harvested: 0.00260.

Treatments: Times of applying fungicides:

|                                                                                        | FUNGICIDE |
|----------------------------------------------------------------------------------------|-----------|
| None (2 plots per block)                                                               | O         |
| Ethirimol seed dressing (2 plots per block)                                            | ED        |
| Ethirimol spray, early (1 June)                                                        | ES1       |
| Ethirimol spray, late (25 June)                                                        | ES2       |
| Tridemorph spray, early (2 plots per block) (1 June)                                   | TS1       |
| Tridemorph spray, late (25 June)                                                       | TS2       |
| Tridemorph spray, 10-14 days after rapid increase in mildew spore production (11 June) | TS3       |
| Captafol plus tridemorph sprays repeated 3 times (1,11,25 June)                        | CTS       |
| Ethirimol seed dressing plus tridemorph spray, early (1 June)                          | EDTS1     |
| Ethirimol seed dressing plus tridemorph spray, late (25 June)                          | EDTS2     |
| Tridemorph spray, early plus late (1,25 June)                                          | TS12      |

NOTE: Tridemorph was applied at 0.64 kg in 290 l  
Ethirimol was applied at 0.44 kg in 290 l  
Captafol was applied at 1.7 kg in 290 l.

Basal applications: Manures: (20:15:15) at 440 kg, combine drilled.  
Weedkiller: MCPA, mecoprop and dicamba ('Tetralix plus' 7.0 l in 220 l).

Seed: Zephyr, sown at 160 kg.

Cultivations, etc.: Ploughed: 20 Nov, 1972. Seed sown: 20 Mar, 1973.  
Weedkiller applied: 18 May. Combine harvested: 14 Aug. Previous crops: Potatoes 1970, winter wheat 1971.

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NOTE: Counts were made of seedling emergence and fertile tillers.  
Brown rust (*Puccinia hordei*) was assessed in mid July.  
Mildew and % green leaf were assessed at intervals from May onwards.

Standard error per plot.

Grain, tonnes/hectare: 0.194 or 4.0% (42 d.f.)

# TABLES OF MEANS

## GRAIN: TONNES/HECTARE

### FUNGICIDE

| O    | ED   | ES1  | ES2  | TSL  | TS2  | TS3  | CTS  | EDTSL | EDTS2 | TS12 | Mean |
|------|------|------|------|------|------|------|------|-------|-------|------|------|
| 4.34 | 4.88 | 4.91 | 4.45 | 5.23 | 4.50 | 4.83 | 5.55 | 5.25  | 4.92  | 5.21 | 4.89 |

## STANDARD ERRORS OF DIFFERENCES

### FUNGICIDE

|                                                   |       |
|---------------------------------------------------|-------|
| Between O, ED and TSL                             | 0.097 |
| Between remainder                                 | 0.138 |
| Between any of O, ED, TSL and<br>any of remainder | 0.119 |

Mean D.M. % 87.9