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## Yields of the Field Experiments 1997

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### 97/R/CS/472 Cereals and Seed Treatments - W. Wheat, W. Barley

#### Rothamsted Research

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97/R/CS/472

## CEREALS AND SEED TREATMENTS

**Object:** To test seed treatment fungicides on root and stem base diseases of winter wheat and barley - Highfield IV/Road Piece East.

**Sponsors:** W.A.J.M. Dawson, G.L. Bateman, J.F. Jenkyn.

The first year, w. wheat and w. barley.

**Design:** 4 randomised blocks of 8 x 2.

**Plot dimensions:** 3.0 x 10.0.

**Treatments:** All combinations of:-

- |              |                   |
|--------------|-------------------|
| 1. FUNGICIDE | Seed dressing:    |
| -            | None (duplicated) |
| E            | CR21528           |
| B            | CR21529           |
| 2. CROP      |                   |
| WW           | Winter wheat      |
| BW           | Winter barley     |

**NOTE:** Fungicides CR21528 and CR21529 are under commercial development, composition undisclosed.

### Experimental diary:

27-Aug-96 : B : PK as (0:20:32) at 1400 kg.  
24-Sep-96 : B : Stefes Glyphosate at 4.0 l in 200 l, weeds spot treated.  
05-Oct-96 : B : Ploughed and furrow pressed.  
14-Oct-96 : T : CROP BW: Rotary harrowed, Pipkin, dressed as treatment, drilled at 350 seeds per m<sup>2</sup>.  
              : T : CROP WW: Rotary harrowed, Brigadier, dressed as treatment, drilled at 380 seeds per m<sup>2</sup>.  
28-Nov-96 : B : Auger at 2.6 l with Stomp 400 SC at 3.1 l in 200 l.  
07-Mar-97 : B : 34.5% N at 118 kg.  
03-Apr-97 : T : CROP BW: 34.5% N at 400 kg.  
              : T : CROP WW: 34.5% N at 463 kg.  
09-Jun-97 : B : Mallard 750 EC at 1.0 l in 300 l.  
22-Jul-97 : T : CROP BW: Combine harvested.  
13-Aug-97 : T : CROP WW: Combine harvested.

Previous crops: W. and s. rape 1995, w. wheat 1996.

**NOTE:** Plant samples were taken in January, May and June to isolate and identify rhizosphere and stem base fungi, and in late June to assess take-all and stem base diseases.

97/R/CS/472

GRAIN TONNES/HECTARE

\*\*\*\*\* Tables of means \*\*\*\*\*

| CROP<br>FUNGIDE | WW   | BW   | Mean |
|-----------------|------|------|------|
| -               | 7.66 | 7.08 | 7.37 |
| E               | 8.79 | 7.05 | 7.92 |
| B               | 8.78 | 6.95 | 7.86 |
| Mean            | 8.22 | 7.04 | 7.63 |

\*\*\* Standard errors of differences of means \*\*\*

| FUNGIDE | CROP  | FUNGIDE | CROP    |
|---------|-------|---------|---------|
| 0.244   |       | 0.345   | min.rep |
| 0.211   | 0.172 | 0.299   | max-min |
|         |       | 0.244   | max.rep |

FUNGIDE  
min.rep - only  
max-min - v any of the remainder  
max.rep Any of the remainder

\*\*\*\*\* Stratum standard errors and coefficients of variation \*\*\*\*\*

| Stratum             | d.f.    | s.e.  | cv% |
|---------------------|---------|-------|-----|
| BLOCK.WP            | 55      | 0.689 | 9.0 |
| GRAIN MEAN DM%      | 85.9    |       |     |
| PLOT AREA HARVESTED | 0.00239 |       |     |