

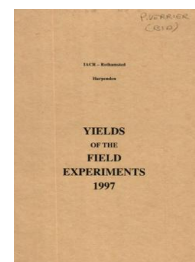
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## Yields of the Field Experiments 1997

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

#### Rothamsted Research

Rothamsted Research (1998) *97/R/CS/472 Cereals and Seed Treatments - W. Wheat, W. Barley* ;  
Yields Of The Field Experiments 1997, pp 90 - 91 - DOI: <https://doi.org/10.23637/ERADOC-1-53>

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 FUNGcide	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 \*\*\*

FUNGcide	CROP	FUNGcide CROP	
0.244		0.345	min.rep
0.211	0.172	0.299	max-min
		0.244	max.rep

FUNGcide  
 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		