

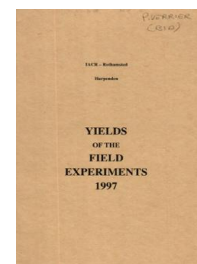
Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1997

[Full Table of Content](#)



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 m².
 : T : CROP WW: Rotary harrowed, Brigadier, dressed as treatment, drilled at 380 seeds per m².
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		