

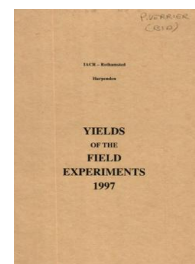
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97/R/CS/472 Cereals and Seed Treatments - W. Wheat, W. Barley

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 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 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		