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

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98/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 second 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:	
	1997	1998
(-)-	None	None
(E)-	CR21528	None
(-)E	None	CR21529
(E)E	CR21528	CR21528
(B)-	CR21529	None
(-)B	None	CR21529
(B)B	CR21529	CR21529

2. CROP

WW	Winter wheat
BW	Winter barley

NOTE: Fungicides CR21528 and CR21529 are under commercial development, composition disclosed in confidence.

Experimental diary:

- 17-Sep-97 : B : Scythe LC at 3.0 l with Vassgro Non Ionic at 100 ml in 200 l.
18-Sep-97 : B : Topped.
24-Sep-97 : B : Ploughed and furrow pressed.
26-Sep-97 : 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.
06-Jan-98 : B : Atlas Fieldgard at 2.6 l with Stomp 400 SC at 3.3 l in 200 l.
13-Feb-98 : B : 34.5% N at 116 kg. Grasp at 1.4 l with Isoguard at 2.0 l and Output at 0.75 l in 200 l.
25-Feb-98 : B : Manganese sulphate at 3.0 kg with Tern 750 EC at 0.75 l in 200 l.
31-Mar-98 : T : CROP BW: Campbell's Carbendazim 50% Flowable at 0.5 l in 220 l.
28-Apr-98 : B : 34.5% N at 400 kg.
08-May-98 : B : Ally at 20 g with Starane 2 at 0.5 l in 200 l.
14-May-98 : B : Carbate Flowable at 0.5 l with Opus at 1.0 l in 200 l.

98/R/CS/472

Experimental diary:

05-Jun-98 : B : Corbel at 1.0 l in 200 l.
 20-Jul-98 : B : CROP BW: Combine harvested.
 11-Aug-98 : B : CROP WW: Combine harvested.

NOTE: Plant samples were taken in January, March and June to assess root and stem base diseases.

GRAIN TONNES/HECTARE

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

CROP FUNGCIDE	WW	BW	Mean
(-)-	7.59	7.40	7.50
(E)-	7.99	7.51	7.75
(-)E	9.14	7.33	8.23
(E)E	8.47	7.85	8.16
(B)-	8.00	7.90	7.95
(-)B	9.32	7.26	8.29
(B)B	8.74	7.43	8.08
Mean	8.36	7.51	7.93

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

FUNGCIDE	CROP	FUNGCIDE CROP	
0.296		0.419	min.rep
0.257	0.148	0.363	max-min
		0.296	max.rep

FUNGCIDE

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

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	47	0.593	7.5
GRAIN MEAN DM%	88.5		
PLOT AREA HARVESTED	0.00228		