

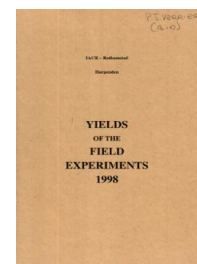
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98/R/BW/2 Seed Treatments and Winter Barley - W. Barley

Rothamsted Research

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98/R/BW/2

WINTER BARLEY

SEED TREATMENTS AND WINTER BARLEY

Object: To investigate the effects of seed treatment fungicides on a site not at risk from take-all (*Gaeumannomyces graminis*) - Appletree.

Sponsors: G.L. Bateman, J.F. Jenkyn, R.J. Gutteridge.

Design: 4 randomised blocks of 14 plots.

Whole plot dimensions: 3.0 x 10.0.

Treatments:

SEEDFUNG	Seed dressing and/or foliar fungicidal sprays:
-	None
-F1F2	Undressed, fungicide at growth stage (GS) 30-31 and GS 39
8R1	Dressed CR21528 at 200 ml
8R1F2	Dressed CR21528 at 200 ml and fungicide at GS 39
8R1F1F2	Dressed CR21528 at 200 ml and fungicide at GS 30-31 and GS 39
8R2	Dressed CR21528 at 300 ml
8R3	Dressed CR21528 at 450 ml
8R3F2	Dressed CR21528 at 450 ml and fungicide at GS 39
8R3F1F2	Dressed CR21528 at 450 ml and fungicide at GS 30-31 and GS 39
9R1	Dressed CR21529 at 200 ml
9R2	Dressed CR21529 at 300 ml
9R3	Dressed CR21529 at 450 ml
FX	Dressed Ferrax
FXF1F2	Dressed Ferrax and fungicide at GS 30-31 and GS 39

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

Experimental diary:

24-Sep-97 : B : Ploughed.
25-Sep-97 : B : Rolled.
29-Sep-97 : B : Rotary harrowed, Regina, dressed as treatment, drilled at 350 seeds per m².
12-Nov-97 : B : Stefes IPU 500 at 2.0 l with Stomp 400 SC at 2.0 l and Cyperkill 10 at 250 ml in 200 l.
13-Feb-98 : B : 34.5% N at 116 kg.
25-Feb-98 : B : Manganese sulphate at 3.0 kg with Tern 750 EC at 0.75 l in 200 l.
17-Mar-98 : T : **SEEDFUNG** -F1F2, 8R1F1F2, 8R3F1F2, FXF1F2: Sportak Delta 460 HF at 1.0 l with Tern 750 EC at 0.5 l in 220 l.
20-Mar-98 : B : Stefes CCC 700 at 2.3 l in 200 l.
23-Apr-98 : B : 34.5% N at 300 kg.
04-May-98 : B : Grasp at 1.0 l with Output at 1.0 l in 200 l.

98/R/BW/2

Experimental diary:

12-May-98 : T : **SEEDFUNG** -F1F2, 8R1F2, 8R1F1F2, 8R3F2, 8R3F1F2, FXF1F2:
Opus Team at 1.5 l in 220 l.
21-Jul-98 : B : Combine harvested.

Previous crops: Lupins 1996, linseed 1997.

- NOTES:** (1) Plant samples were taken in December, February, May and June for disease assessments, plant counts and dry weights were also taken in February.
(4) Because of a harvesting error, the yield of one plot with **SEEDFUNG** FXF1F2 was lost. An estimated value was used in the analysis.

GRAIN TONNES/HECTARE

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

SEEDFUNG	
-	4.81
-F1F2	6.66
8R1	5.00
8R1F2	6.62
8R1F1F2	6.68
8R2	5.34
8R3	5.01
8R3F2	6.40
8R3F1F2	7.12
9R1	5.14
9R2	4.87
9R3	5.26
FX	4.49
FXF1F2	6.97
Mean	5.74

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

SEEDFUNG
0.320

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	38	0.452	7.9
GRAIN MEAN DM%	88.0		
PLOT AREA HARVESTED	0.00229		