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Yields of the Field Experiments 1998

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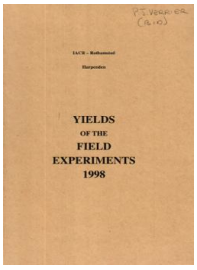

98/R/BW/1 Seed Treatments, Winter Barley and Take-all - W. Barley

Rothamsted Research

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98/R/BW/1

WINTER BARLEY

SEED TREATMENTS, WINTER BARLEY AND TAKE-ALL

Object: To investigate the effects of seed treatment fungicides on a site at risk of take-all (*Gaeumannomyces graminis*) - Harwoods Piece.

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 fungicidal sprays:
-	None
-F1F2	Undressed, fungicide at growth stage (GS) 30-31 and at 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, fungicide at GS 30-31 and at 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, fungicide at GS 30-31 and at 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, fungicide at GS 30-31 and at GS 39

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

Experimental diary:

23-Sep-97 : B : Ploughed and furrow pressed.
24-Sep-97 : B : Rolled.
29-Sep-97 : B : Rotary harrowed, Regina, dressed as treatment, drilled at 350 seeds per m^2.
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 MF at 1.0 l with Tern 750 EC at 0.5 l in 220 l.
31-Mar-98 : B : Tripart Brevis at 2.3 l in 200 l.
27-Apr-98 : B : 34.5% N at 300 kg.

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98/R/BW/1

Experimental diary:

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12-May-98 : T : SEEDFUNG -F1F2, 8R1F2, 8R1F1F2, 8R3F2, 8R3F1F2, FXF1F2:
                Opus Team at 1.5 l in 220 l.
10-Jul-98 : B : Alpha Glyphogan at 3.0 l in 400 l.
20-Jul-98 : B : Combine harvested.
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Previous crops: Set-aside 1996, s. wheat 1997.

NOTE: Plant samples were taken in March and June to assess diseases. Plant counts and dry weights were also taken in March.

GRAIN TONNES/HECTARE

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

SEEDFUNG	
-	7.78
-F1F2	9.88
8R1	8.33
8R1F2	9.37
8R1F1F2	10.08
8R2	8.23
8R3	8.40
8R3F2	9.82
8R3F1F2	10.08
9R1	8.28
9R2	8.67
9R3	7.88
FX	7.88
FXF1F2	9.73
Mean	8.89

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

SEEDFUNG
0.219

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	39	0.310	3.5

GRAIN MEAN DM% 89.5

PLOT AREA HARVESTED 0.00228

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