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Yields of the Field Experiments 1998



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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:

SEEI	FUNG	Seed dre	essing an	nd/d	or fo	olia	ar fi	ungicidal	spra	ays	:	
-	e	None										
-F1F2 Undressed, fungicide				le at	le at growth stage (GS) 30-31 and GS 39							
8	BR1	Dressed	CR21528	at	200	ml						
8	BR1F2	Dressed	CR21528	at	200	ml	and	fungicide	at	GS	39	
8	BR1F1F2	Dressed	CR21528	at	200	ml	and	fungicide	at	GS	30-31	and
GS 39												
8	BR2	Dressed	CR21528	at	300	ml						
8	BR3	Dressed	CR21528	at	450	ml						
8	BR3F2	Dressed	CR21528	at	450	ml	and	fungicide	at	GS	39	
8	BR3F1F2	Dressed	CR21528	at	450	ml	and	fungicide	at	GS	30-31	and
		GS 3	9									
9	R1	Dressed	CR21529	at	200	ml						
9	R2	Dressed	CR21529	at	300	ml						
9	R3	Dressed	CR21529	at	450	ml						
E	7X	Dressed	Ferrax									
F	XF1F2	Dressed	Ferrax a	and	fung	gic	ide a	at GS 30-32	1 ar	nd (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.

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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