

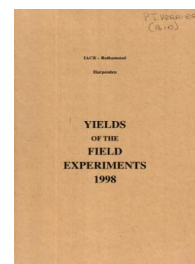
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98/R/WW/9 Seed Treatments and Foliar Diseases B - W. Wheat

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98/R/WW/9

WINTER WHEAT

SEED TREATMENTS AND FOLIAR DISEASES B

Object: To assess the effects of seed treatment and foliar fungicides on foliar diseases in the absence of take-all (*Gaeumannomyces graminis*)- Bones Close

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

Design: 4 randomised blocks of 3 x 8 plots.

Whole plot dimensions: 3.0 x 10.0.

Treatments: All combinations of:-

1. **SOW DATE** Time of sowing:

S	25-Sep-97
O	20-Oct-97
N	13-Nov-97

2. **FUNG** Fungicide:

	Seed Treatment	Foliar Spray
-	None	None
-F2	None	F2
-F1F2	None	F1 and F2
9R1F2	CR21529 at 200 ml	F2
9R2F2	CR21529 at 300 ml	F2
9R3F2	CR21529 at 450 ml	F2
8R3F2	CR21528 at 450 ml	F2
BF2	Baytan	F2

F1 = Cyproconazole and prochloraz at growth stage (GS) 30-31 as Sportak Delta 460 HF and Tern 750 EC

F2 = Tebuconazole and azoxystrobin at GS 59 as Standon Tebuconazole and Amistar

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

Experimental diary:

26-Aug-97 : B : Ploughed and furrow pressed.

25-Sep-97 : T : **SOW DATE** S: Rotary harrowed, Hereward, dressed as treatment, drilled at 380 seeds per m².

20-Oct-97 : T : **SOW DATE** O: Rotary harrowed, Hereward, dressed as treatment, drilled at 380 seeds per m².

13-Nov-97 : T : **SOW DATE** N: Rotary harrowed, Hereward, dressed as treatment, drilled at 380 seeds per m².

28-Jan-98 : B : Amazon at 1.0 l in 200 l.

18-Feb-98 : B : 34.5% N at 120 kg.

17-Mar-98 : B : Ally at 20 g with MSS Optica at 1.0 l in 200 l.

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Experimental diary:

23-Mar-98 : T : SOW DATE S, FUNG -F1F2: Sportak Delta 460 HF at 1.0 l
with Tern 750 EC at 0.5 l in 220 l.
16-Apr-98 : T : SOW DATE O, N, FUNG -F1F2: Sportak Delta 460 HF at 1.0 l
with Tern 750 EC at 0.5 l in 220 l.
28-Apr-98 : B : 34.5% N at 460 kg.
12-May-98 : T : FUNG -F2, -F1F2, 9R1F2, 9R2F2, 9R3F2, 8R3F2, BF2:
Standon Tebuconazole at 0.5 l with Amistar at 0.5 l in
220 l.
18-Aug-98 : B : Combine harvested.

Previous crops: W. cereal 1996, w. rape 1997

NOTE: Plant samples were taken in March for dry weights and in July for
disease assessment.

GRAIN TONNES/HECTARE

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

SOW DATE	S	O	N	Mean
FUNG				
-	7.68	8.05	8.37	8.03
-F2	8.54	8.54	9.19	8.76
-F1F2	9.07	9.37	9.52	9.32
9R1F2	8.77	8.72	8.98	8.82
9R2F2	8.87	8.66	8.87	8.80
9R3F2	9.01	8.58	9.05	8.88
8R3F2	8.37	8.73	8.21	8.44
BF2	8.63	8.07	8.68	8.46
Mean	8.62	8.59	8.86	8.69

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

SOW DATE	FUNG	SOW DATE
		FUNG
0.099	0.162	0.281

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	69	0.398	4.6
GRAIN MEAN DM%	87.2		
PLOT AREA HARVESTED	0.00229		