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Yields of the Field Experiments 1998

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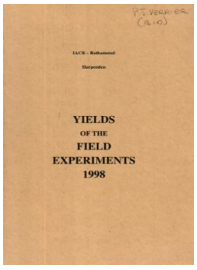

98/R/WW/8 Seed Treatments and Foliar Diseases a - W. Wheat

Rothamsted Research

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98/R/WW/8

WINTER WHEAT

SEED TREATMENTS AND FOLIAR DISEASES A

Object: To test new seed treatments on the control of take-all (*Gaeumannomyces graminis*) and foliar diseases of w. wheat - Highfield IV/Road Piece East.

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

Design: 4 randomised blocks of 3 x 8 + 1 plots.

Whole plot dimensions: 3.0 x 10.0.

Treatments: All combinations of:-

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

S	30-Sep-97
O	20-Oct-97
N	13-Nov-97

2. **T** Seed treatment and foliar spray:

	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

Plus 1 extra plot:

3. **EXTRA**

PF2	Seedbed inoculated *Phialophora* and 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: CR21528 and CR21529 and 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.

24-Sep-97 : B : Ploughed and furrow pressed.

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Experimental diary:

30-Sep-97 : **T** : **EXTRA** PF2: Inoculum applied.
: **T** : **SOW DATE** S: Rotary harrowed, Hereward, dressed as treatment, drilled at 380 seeds per m^2.
20-Oct-97 : **T** : **SOW DATE** O: Rotary harrowed, Hereward, dressed as treatment, drilled at 380 seeds per m^2.
13-Nov-97 : **T** : **SOW DATE** N: Rotary harrowed, Hereward, dressed as treatment, drilled at 380 seeds per m^2.
13-Jan-98 : B : Lexus Class WSB at 60 g in 100 l.
13-Feb-98 : B : 34.5% N at 116 kg.
23-Mar-98 : **T** : **SOW DATE** S **T** -F1F2: Sportak Delta 460 HF at 1.0 l with Tern 750 EC at 0.5 l in 200 l.
16-Apr-98 : **T** : **SOW DATE** O, N **T** -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.
08-May-98 : B : Ally at 20 g with Starane 2 at 0.5 l in 200 l.
12-May-98 : **T** : **T** -F2, -F1F2, 9R1F2, 9R2F2, 9R3F2, 8R3F2, BF2 and **EXTRA** PF2: Standon Tebuconazole at 0.5 l with Amistar at 0.5 l in 220 l.
11-Aug-98 : B : Combine harvested.

Previous crops: W. wheat 1996, w. wheat and barley 1997.

NOTE: Plant samples were taken in March for dry weights and disease assessments and in June for disease assessment. Patches of take-all were assessed in July.

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98/R/WW/8

GRAIN TONNES/HECTARE

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

T	-	-F2	-F1F2	9R1F2	9R2F2	9R3F2	8R3F2	BF2	Mean
SOW DATE									
S	6.96	8.29	7.50	8.15	8.14	7.91	8.27	7.50	7.84
O	7.65	7.98	8.85	9.27	8.64	8.58	8.48	8.43	8.48
N	7.97	8.87	9.17	9.04	8.55	8.52	8.60	8.29	8.63
Mean	7.53	8.38	8.51	8.82	8.44	8.34	8.45	8.07	8.32

EXTRA PF2 7.89

Grand mean 8.30

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

SOW DATE	**T**	**SOW DATE T & EXTRA**
0.174	0.285	0.493

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	72	0.697	8.4

GRAIN MEAN DM% 88.2

PLOT AREA HARVESTED 0.00228

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