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Yields of the Field Experiments 2000



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00/R/CS/494

TAKE-ALL, PHIALOPHORA AND SEED TREATMENTS

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Object: To test a fungal antagonist of take-all (Gaeumannomyces graminis) and determine its interaction with a take-all-selective fungicide - Stackyard.
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Sponsors: G.L. Bateman, R.J. Gutteridge, J.F. Jenkyn.
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The third year, w. wheat.

For previous years see 98-99/R/CS/494.

Design: 4 randomised blocks of 18 plots.

Plot dimensions: 3.0×10.0 .

Treatments: Selected combinations of:-

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1. Y1998 Treatment to 1998 crop:

(-8) None
(P8) Phialophora inoculum to seedbed
(T8) Take-all inoculum to seedbed

2. Y1999 Treatment to 1999 crop:
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- (-9) None
- 3. Y2000 Treatment to 2000 crop:

```
-0 None
```

- P0 Phialophora inoculum to seedbed
- S0 Seed treatment fungicide; fluquinconazole at 75 g a.i./100 kg
- PS0 Phialophora inoculum and seed treatment fungicide;

fluquinconazole at 75 g a.i./100 kg

Experimental diary:

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02-Sep-99: B:: Shallow (10 cm) ploughed.
04-Sep-99: B:: Rolled.
04-Oct-99: T: P0,PS0: Phialophora inoculum applied.
: T: -0,P0: Combination drilled, Hereward, tr. undressed, at 380
seeds/m² with the Accord drill.
: T: S0,PS0: Combination drilled, Hereward, tr. fluquinconazole, at
380 seeds/m² with the Accord drill.
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06-Oct-99 : B : : Rolled.

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12-Nov-99 : B : : tm) Lexus 50 DF at 20 g in 200 1.

: B : : tm) Stomp 400 SC at 2.5 1 in 200 1.

: B : : tm) Toppel 10 at 250 ml in 200 1.

07-Mar-00 : B : : 34.5% N at 232 kg.
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19-Apr-00 : B : : 34.5% N at 435 kg. 24-Apr-00 : B : : tm)Opus at 0.5 l in 100 l. : B : : tm)Unix at 0.5 kg in 100 l.

: B : : tm)BASF 3C Chlormequat 720 at 2.2 1 in 100 1.

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Experimental diary:

12-May-00 : B : : tm)Ally at 30 g in 200 l.
: B : : tm)Starane 2 at 0.5 l in 200 l.
22-May-00 : B : : Opus at 0.75 l in 100 l.
27-Jun-00 : B : : Folicur at 0.25 l in 100 l.
29-Jun-00 : B : : Hand rogued wild oats.
10-Aug-00 : B : : Combine harvested.

Previous crops: S. wheat 1998, w. wheat 1999.

NOTE: All plots were sampled in April and June to assess root and stem base diseases.

GRAIN TONNES/HECTARE

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

	Y2000	-0	P0	S0	PS0
****		-0	PU	50	PSU
Y1998	Y1999				
(-8)	(-9)	5.98	5.47	6.80	6.60
	(P9)	5.29	5.11	6.86	6.43
	(T9)	+	+	+	+
(P8)	(-9)	5.76	+	6.69	+
	(P9)	+	5.43	+	+
	(T9)	4.45	+	5.45	+
(T8)	(-9)	6.02	+	7.17	+
	(P9)	6.12	6.50	6.91	+
	(T9)	+	+	+	+

⁺ TREATMENT COMBINATIONS NOT TESTED

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

Y1998 Y1999 Y2000 0.404

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

Stratum d.f. s.e. CV8 BLOCK.WP 51 0.572 9.4

GRAIN MEAN DM% 82.1

PLOT AREA HARVESTED 0.00237