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00/R/CS/508 Seed Treatment Sequences and Take-all - W. Wheat

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00/R/CS/508

SEED TREATMENT SEQUENCES AND TAKE-ALL

Object: To determine effects of a seed treatment fungicide on take-all (*Gaeumannomyces graminis*) and populations of the causal fungus - Stackyard.

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

The second year, w. wheat.

For previous year see 99/R/CS/508.

Design: 4 randomised blocks of 2 x 2 x 2 x 2.

Plot dimensions: 6.0 x 10.0.

Treatments:

1. **S1999** Seed dressing and year applied:

(-99) 1999 none
(F99) 1999 fluquinconazole

2. **S2000** Seed dressing and year applied:

-00 2000 none
F00 2000 fluquinconazole and prochloraz

Randomised for treatments as above in two subsequent years

Experimental diary:

02-Sep-99 : B : : Shallow (10 cm) ploughed.
04-Sep-99 : B : : Rolled.
04-Oct-99 : T : -00 : Combination drilled, Hereward, undressed, at 380 seeds/m² with the Accord drill.
: T : F00 : Combination drilled, Hereward, tr. fluquinconazole, at 380 seeds/m² with the Accord drill.
06-Oct-99 : B : : Rolled.
12-Nov-99 : B : : tm)Lexus 50 DF at 20 g in 200 l.
: B : : tm)Stomp 400 SC at 2.5 l in 200 l.
: B : : tm)Toppel 10 at 250 ml in 200 l.
07-Mar-00 : B : : 34.5% N at 232 kg.
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 l in 100 l.
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.
11-Aug-00 : B : : Combine harvested.

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

NOTE: Plant and soil samples were taken in June to assess root and stem base diseases, take-all infectivity of the soil and diversity of fungal communities on roots.

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GRAIN TONNES/HECTARE

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

S2000	-00	F00	Mean
S1999			
(-99)	6.40	6.69	6.55
(F99)	6.06	6.53	6.30
Mean	6.23	6.61	6.42

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

S1999	S2000	S1999
		S2000
0.265	0.265	0.375

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	57	1.061	16.5
GRAIN MEAN DM%	83.2		
PLOT AREA HARVESTED	0.00240		