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99/R/CS/494 Take-all, Phialophora and Seed Treatments - W. Wheat

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99/W/CS/491

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

	S FORM	APP TIME	GYP SUM	S FORM
				APP TIME
	0.183	0.130	0.107	0.259
	S FORM	APP TIME	S FORM	
	GYP SUM	GYP SUM	APP TIME	
			GYP SUM	
	0.237	0.168	0.336	
Except when comparing means with the same level(s) of				
S FORM	0.213			
APP TIME		0.151		
S FORM.APP TIME			0.302	

S.e.d. for comparing **EXTRA** - with any item **S FORM.APP TIME.GYP SUM** is 0.300

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	24	0.367	13.4
BLOCK.WP.SP	27	0.427	15.6

GRAIN MEAN DM% 88.1

PLOT AREA HARVESTED 0.00175

99/R/CS/494

TAKE-ALL, PHIALOPHORA AND SEED TREATMENTS

Object: To test a fungal antagonist of take-all (*Gaeumannomyces graminis*) and determine its interaction with a take-all-selective fungicide - Stackyard.

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

The second year, w. wheat.

For previous year see 98/R/CS/494.

Design: 4 randomised blocks of 18 plots.

Plot dimensions: 3.0 x 10.0.

Treatments: Selected combinations of:-

1. **TRT1998** Treatment to 1998 crop:
 - (-8) None
 - (P8) *Phialophora* inoculum to seedbed
 - (T8) Take-all inoculum to seedbed
2. **TRT1999** Treatment to 1999 crop:
 - 9 None
 - P9 *Phialophora* inoculum to seedbed
 - T9 Take-all inoculum to seedbed
3. **TRT2000** Treatment to 2000 crop:
 - 0 None
 - P0 *Phialophora* inoculum to seedbed
 - S0 Seed treatment fungicide; fluquinconazole at 75 g/100 kg
 - PS0 *Phialophora* inoculum and seed treatment fungicide
fluquinconazole at 75 g/100 kg

Experimental diary:

11-Sep-98	: B :	: Ploughed and furrow pressed, started.
14-Sep-98	: B :	: Ploughed and furrow pressed, completed.
15-Oct-98	: B :	: Combination drilled, Hereward, recleaned, at 380 seeds/m ² with the Nordsten drill.
	: T : P9	: Inoculum applied at 23 g/m ² .
	: T : T9	: Inoculum applied at 23 g/m ² .
16-Oct-98	: B :	: Hardy at 7.5 kg.
06-Nov-98	: B :	: Decoy at 15 kg.
13-Feb-99	: B :	: tm)Chiltern IPU at 1.0 l in 200 l.
	: B :	: tm)Unite A at 0.125 l in 200 l.
	: B :	: tm)Unite B at 1.0 l in 200 l.
	: B :	: tm)Cropoil at 1.0 l in 200 l
10-Mar-99	: B :	: 34.5% N at 145 kg.
30-Apr-99	: B :	: tm)Ally at 30 g in 200 l.
	: B :	: tm)Starane 2 at 0.5 l in 200 l.
	: B :	: tm)Opus at 0.7 l in 200 l.
27-May-99	: B :	: tm)Opus at 0.75 l in 100 l.
	: B :	: tm)Sipcam UK Rover 500 at 1.0 l in 100 l.
16-Jun-99	: B :	: Policur at 0.25 l in 100 l.