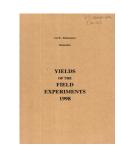
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Yields of the Field Experiments 1998



Full Table of Content

98/R/CS/494 Take-all, Phialophora and Seed Treatments - S. Wheat

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98/R/CS/494

TAKE-ALL, PHIALOPHORA AND SEED TREATMENTS

Object: To test the effects in the field of 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.

The first year, s. wheat.

Design: 4 randomised blocks of 18 plots.

Plot dimensions: 3.0 x 10.0.

Treatments: Combinations of:-

1.	TRT1998	Treatment to 1998 crop:
	-8 P8 T8	None Phialophora inoculum to seedbed Take-all inoculum to seedbed
2.	TRT1999	Treatment to 1999 crop:
	-9 P9 T9	None Phialophora inoculum to seedbed Take-all inoculum to seedbed
3.	TRT2000	Treatment to 2000 crop:
	-0 P0 S0 PS0	None Phialophora inoculum to seedbed Seed treatment fungicide Phialophora and seed treatment

Experimental diary:

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31-Oct-97 : B : Ploughed.
30-Jan-98 : B : Barclay Gallup at 2.0 l with Chiltern Cropoil at 1.0 l
in 200 l.

12-Feb-98 : B : Parable at 2.0 l with Scythe LC at 0.5 l and Luxon
Non-Ionic Wetter at 0.1 l in 200 l.

16-Mar-98 : B : Heavy spring-tine cultivated.

17-Mar-98 : B : Spring-tine cultivated.

18-Mar-98 : T : TRT1998 P8: Inoculum applied at 20 g per m². Rotary
harrowed.

: T : TRT1998 T8: Inoculum applied at 20 g per m². Rotary
harrowed.

: B : Rotary harrowed, Axona, undressed, drilled at 400 seeds
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 $\label{eq:per m2} \text{per } m^2.$ 29-Apr-98 : B : 34.5% N at 380 kg.

05-May-98 : B : Ally at 30 g with MSS Optica at 2.0 l in 200 l. 04-Jun-98 : B : Corbel at 0.3 l with Opus at 0.3 l in 200 l.

12-Jun-98 : B : Topik at 125 ml with Chiltern Cropoil at 1.0 l in 200 l.

98/R/CS/494

Experimental diary:

 $28-Jun-98:B:Bavistin\ DF\ at\ 0.3\ kg\ with\ Radar\ at\ 0.25\ l\ in\ 200\ l.$ 02-Sep-98:B:Combine harvested.

NOTE: Plant samples were taken in July to assess take-all and root colonisation by Phialophora.

GRAIN TONNES/HECTARE

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

TRT1998

-8 7.02 P8 6.83 T8 5.81

Mean 6.63

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

TRT1998

0.099 min.rep 0.089 max-min

TRT1998

min.rep P8 v T8 max-min -8 v P8 or T8

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

Stratum d.f. s.e. cv%

BLOCK.WP 66 0.313 4.7

GRAIN MEAN DM% 82.0

PLOT AREA HARVESTED 0.00229