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97/R/CS/476 Fungicide Sequences and Take-all - W. Wheat

Rothamsted Research

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97/R/CS/476

FUNGICIDE SEQUENCES AND TAKE-ALL

Object: To determine the effects of fungicidal seed treatments on take-all (*Gaeumannomyces graminis*) development in w.wheat - Long Hoos IV 4.

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

The first year, w. wheat.

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

Plot dimensions: 3.0 x 10.0.

Treatments: All combinations of:-

1. **FUNG97** Fungicidal seed dressing to the 1997 crop:
 F97 Seed dressed
 -97 None
2. **FUNG98** Fungicidal seed dressing to the 1998 crop:
 F98 Seed dressed
 -98 None
3. **FUNG99** Fungicidal seed dressing to the 1999 crop:
 F99 Seed dressed
 -99 None

NOTE: The seed dressing is under commercial development, composition undisclosed.

Experimental diary:

- 17-Oct-96 : B : Spring-tine cultivated, rotary harrowed, Brigadier, dressed as treatment, drilled at 380 seeds per m².
- 28-Jan-97 : B : Panther at 2.0 l in 200 l.
- 11-Mar-97 : B : 34.5% N at 118 kg.
- 14-Apr-97 : B : 34.5% N at 463 kg.
- 16-Apr-97 : B : Deloxil at 1.5 l with Dow Shield at 0.35 l in 200 l.
- 30-May-97 : B : Folicur at 0.5 l in 300 l.
- 19-Aug-97 : B : Combine harvested.

Previous crops: S. wheat 1995, linseed 1996.

NOTE: Plant samples were taken in April to assess take-all on the roots and in July to assess root and stem base diseases. Soil samples were taken after harvest and used in bioassays to measure take-all infectivity.

97/R/CS/476

GRAIN TONNES/HECTARE

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

FUNG97

F97 10.31

-97 10.02

Mean 10.17

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

FUNG97

0.225

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	27	0.637	6.3
GRAIN MEAN DM%	90.0		
PLOT AREA HARVESTED	0.00240		