

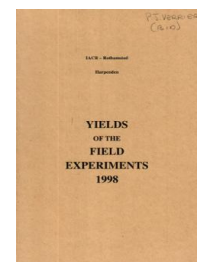
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98/R/CS/476 Fungicide Sequence and Take-all - W. Wheat

Rothamsted Research

Rothamsted Research (1999) *98/R/CS/476 Fungicide Sequence and Take-all - W. Wheat* ; Yields Of The Field Experiments 1998, pp 98 - 99 - DOI: <https://doi.org/10.23637/ERADOC-1-52>

98/R/CS/476

FUNGICIDE SEQUENCES AND TAKE-ALL

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

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

The second year, w. wheat.

For previous year see 97/R/CS/476.

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 disclosed in confidence.

Experimental diary:

- 20-Aug-97 : B : Straw baled.
- 30-Sep-97 : B : Ploughed, rolled. Spring-tine cultivated.
- 01-Oct-97 : B : Rotary harrowed, Hereward, dressed as treatment, drilled at 400 seeds per m².
- 13-Jan-98 : B : Atlas Fieldgard at 3.0 l with Stomp 400 SC at 2.5 l in 200 l.
- 19-Feb-98 : B : 34.5% N at 120 kg.
- 29-Apr-98 : B : 34.5% N at 460 kg.
- 13-Jul-98 : B : Hand rogued wild oats.
- 19-Aug-98 : B : Combine harvested.

NOTE: Plant samples were taken in December for leaf and root assessments, in March and June for root and stem base diseases. Soil samples were taken after harvest and used in bioassays to measure take-all infectivity.

98/R/CS/476

GRAIN TONNES/HECTARE

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

FUNG98	F98	-98	Mean
FUNG97			
(F97)	8.48	8.06	8.27
(-97)	7.99	7.50	7.74
Mean	8.24	7.78	8.01

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

FUNG97	FUNG98	FUNG97 FUNG98
0.292	0.292	0.413

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	25	0.826	10.3

GRAIN MEAN DM% 84.9

PLOT AREA HARVESTED 0.00228