

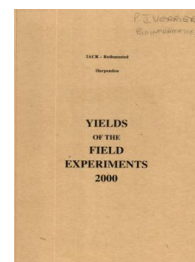
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## Yields of the Field Experiments 2000

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

#### Rothamsted Research

Rothamsted Research (2001) *00/R/CS/476 Fungicide Sequences and Take-all - W. Wheat* ; Yields Of The Field Experiments 2000, pp 81 - 83 - DOI: <https://doi.org/10.23637/ERADOC-1-55>

00/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:** J.F. Jenkyn, R.G. Gutteridge, G.L. Bateman.

The fourth year, w. wheat.

For previous years see 97-99/R/CS/476.

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

**Plot dimensions:** 3.0 x 10.0.

**Treatments:** All combinations of:-

- |                  |   |
|------------------|---|
| 1. <b>FUNG97</b> | Fungicidal seed treatment to the 1997 crop: |
| (F97)            | Seed treated                                |
| (-97)            | None  |
| 2. <b>FUNG98</b> | Fungicidal seed treatment to the 1998 crop: |
| (F98)            | Seed treated                                |
| (-98)            | None  |
| 3. <b>FUNG99</b> | Fungicidal seed treatment to the 1999 crop: |
| (F99)            | Seed treated                                |
| (-99)            | None  |
| 4. <b>FUNG00</b> | Fungicidal seed treatment to the 2000 crop: |
| F00              | Seed treated                                |
| -00              | None  |

**NOTE:** The seed treatment was fluquinconazole at 75 g a.i./100 kg of seed.

**Experimental diary:**

12-Sep-99 : B : : Ploughed.  
22-Sep-99 : T : -00 : Combination drilled, Hereward, undressed, at 380 seeds/m<sup>2</sup> with the Accord drill.  
          : T : F00 : Combination drilled, Hereward, tr. fluquinconazole, at 380 seeds/m<sup>2</sup> with the Accord drill.  
14-Dec-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.  
08-Mar-00 : B : : 34.5% N at 232 kg.  
27-Apr-00 : B : : tm)Opus at 0.5 l in 200 l.  
          : B : : tm)Unix at 0.5 kg in 200 l.  
04-May-00 : B : : 34.5% N at 348 kg.  
22-May-00 : B : : Opus at 0.75 l in 100 l.  
07-Aug-00 : B : : Combine harvested.

**NOTE:** Samples were taken in April and June to assess root and stem base diseases.

00/R/CS/476

GRAIN TONNES/HECTARE

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

<b>FUNG98</b>	(F98)	(-98)	Mean
<b>FUNG97</b>			
(F97)	4.47	4.49	4.48
(-97)	4.62	4.53	4.58
Mean	4.55	4.51	4.53
<b>FUNG99</b>	(F99)	(-99)	Mean
<b>FUNG97</b>			
(F97)	4.36	4.60	4.48
(-97)	3.92	5.24	4.58
Mean	4.14	4.92	4.53
<b>FUNG99</b>	(F99)	(-99)	Mean
<b>FUNG98</b>			
(F98)	4.44	4.65	4.55
(-98)	3.84	5.19	4.51
Mean	4.14	4.92	4.53
<b>FUNG00</b>	F00	-00	Mean
<b>FUNG97</b>			
(F97)	4.54	4.42	4.48
(-97)	5.28	3.87	4.58
Mean	4.91	4.14	4.53
<b>FUNG00</b>	F00	-00	Mean
<b>FUNG98</b>			
(F98)	4.88	4.21	4.55
(-98)	4.94	4.08	4.51
Mean	4.91	4.14	4.53
<b>FUNG00</b>	F00	-00	Mean
<b>FUNG99</b>			
(F99)	4.45	3.83	4.14
(-99)	5.38	4.46	4.92
Mean	4.91	4.14	4.53
<b>FUNG97</b>	<b>FUNG99</b>	(F99)	(-99)
(F97)	<b>FUNG98</b>		
	(F98)	4.79	4.15
	(-98)	3.93	5.05
(-97)	(F98)	4.09	5.15
	(-98)	3.74	5.32
<b>FUNG97</b>	<b>FUNG00</b>	F00	-00
(F97)	<b>FUNG98</b>		
	(F98)	4.65	4.30
	(-98)	4.44	4.54
(-97)	(F98)	5.12	4.12
	(-98)	5.44	3.62

00/R/CS/476

GRAIN TONNES/HECTARE

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

	<b>FUNG00</b>	F00	-00	
<b>FUNG97</b>	<b>FUNG99</b>			
(F97)	(F99)	4.34	4.37	
	(-99)	4.74	4.46	
(-97)	(F99)	4.55	3.28	
	(-99)	6.02	4.46	
	<b>FUNG00</b>	F00	-00	
<b>FUNG98</b>	<b>FUNG99</b>			
(F98)	(F99)	4.55	4.33	
	(-99)	5.22	4.09	
(-98)	(F99)	4.34	3.33	
	(-99)	5.54	4.83	
		<b>FUNG00</b>	F00	-00
<b>FUNG97</b>	<b>FUNG98</b>	<b>FUNG99</b>		
(F97)	(F98)	(F99)	4.59	4.99
		(-99)	4.71	3.60
	(-98)	(F99)	4.10	3.75
		(-99)	4.78	5.32
(-97)	(F98)	(F99)	4.51	3.67
		(-99)	5.72	4.58
	(-98)	(F99)	4.58	2.90
		(-99)	6.31	4.34

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

<b>FUNG97</b>	<b>FUNG98</b>	<b>FUNG99</b>	<b>FUNG00</b>
0.360	0.360	0.360	0.360
<b>FUNG97</b>	<b>FUNG97</b>	<b>FUNG98</b>	<b>FUNG97</b>
<b>FUNG98</b>	<b>FUNG99</b>	<b>FUNG99</b>	<b>FUNG00</b>
0.508	0.508	0.508	0.508
<b>FUNG98</b>	<b>FUNG99</b>	<b>FUNG97</b>	<b>FUNG97</b>
<b>FUNG00</b>	<b>FUNG00</b>	<b>FUNG98</b>	<b>FUNG98</b>
		<b>FUNG99</b>	<b>FUNG00</b>
0.508	0.508	0.719	0.719
<b>FUNG97</b>	<b>FUNG98</b>	<b>FUNG97</b>	
<b>FUNG99</b>	<b>FUNG99</b>	<b>FUNG98</b>	
<b>FUNG00</b>	<b>FUNG00</b>	<b>FUNG99</b>	
		<b>FUNG00</b>	
0.719	0.719	1.017	

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	15	1.017	22.5
GRAIN MEAN DM%	81.6		
PLOT AREA HARVESTED	0.00237		