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## Yields of the Field Experiments 2000

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### 00/R/CS/508 Seed Treatment Sequences and Take-all - W. Wheat

#### Rothamsted Research

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00/R/CS/508

### SEED TREATMENT SEQUENCES AND TAKE-ALL

**Object:** To determine effects of a seed treatment fungicide on take-all (*Gaeumannomyces graminis*) and populations of the causal fungus - Stackyard.

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

The second year, w. wheat.

For previous year see 99/R/CS/508.

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

**Plot dimensions:** 6.0 x 10.0.

**Treatments:**

1. **S1999**                   Seed dressing and year applied:  
(-99)                   1999 none  
(F99)                   1999 fluquinconazole
2. **S2000**                   Seed dressing and year applied:  
-00                   2000 none  
F00                   2000 fluquinconazole and prochloraz

Randomised for treatments as above in two subsequent years

**Experimental diary:**

02-Sep-99 : B : : Shallow (10 cm) ploughed.  
04-Sep-99 : B : : Rolled.  
04-Oct-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.  
06-Oct-99 : B : : Rolled.  
12-Nov-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.  
07-Mar-00 : B : : 34.5% N at 232 kg.  
19-Apr-00 : B : : 34.5% N at 435 kg.  
24-Apr-00 : B : : tm)Opus at 0.5 l in 100 l.  
          : B : : tm)Unix at 0.5 kg in 100 l.  
          : B : : tm)BASF 3C Chlormequat 720 at 2.2 l in 100 l.  
12-May-00 : B : : tm)Ally at 30 g in 200 l.  
          : B : : tm)Starane 2 at 0.5 l in 200 l.  
22-May-00 : B : : Opus at 0.75 l in 100 l.  
27-Jun-00 : B : : Folicur at 0.25 l in 100 l.  
29-Jun-00 : B : : Hand rogued wild oats.  
11-Aug-00 : B : : Combine harvested.

Previous crops: S. wheat 1998, w. wheat 1999.

**NOTE:** Plant and soil samples were taken in June to assess root and stem base diseases, take-all infectivity of the soil and diversity of fungal communities on roots.

00/R/CS/508

GRAIN TONNES/HECTARE

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

<b>S2000</b>	-00	F00	Mean
<b>S1999</b>			
(-99)	6.40	6.69	6.55
(F99)	6.06	6.53	6.30
Mean	6.23	6.61	6.42

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

<b>S1999</b>	<b>S2000</b>	<b>S1999</b>
		<b>S2000</b>
0.265	0.265	0.375

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	57	1.061	16.5
GRAIN MEAN DM%	83.2		
PLOT AREA HARVESTED	0.00240		