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## Yields of the Field Experiments 2000

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### 00/R/CS/323 Cereal Sequence and Take-all - W. Wheat

#### Rothamsted Research

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00/R/CS/323

### CEREAL SEQUENCES AND TAKE-ALL

**Object:** To study the effect of seed treatment on take-all (*Gaeumannomyces graminis*) in w. wheat grown after various cereal sequences - West Barnfield II.

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

The 13th year, w. wheat.

For previous years see 88-96,98-99/R/CS/323.

**Design:** 3 randomised blocks of 26 plots.

**Whole plot dimensions:** 3.0 x 10.0.

**Treatments:**

1. **FUNG99**                      Seed dressing in 1999:  
    (NONE)                      None  
    (FLUQUIN)                  Fluquinconazole
2. **FUNG00**                      Seed dressing in 2000:  
    NONE                        None  
    FLUQUIN                    Fluquinconazole
3. **GROUP**                      Crop sequences and levels of take-all decline:  
    I                            Old sequences with well established take-all decline  
    II                           Old sequences with less well established take-all decline  
    III                          Old sequences with take-all decline possibly not  
                                  established

**Experimental diary:**

11-Aug-99 : B :                    : Ploughed.  
30-Sep-99 : B :                    : tm)PDQ at 3.0 l in 200 l.  
          : B :                    : tm)Enhance Low Foam at 100 ml in 200 l.  
11-Oct-99 : T : NONE            : Combination drilled, Hereward, tr. Sibutol, at 380  
                                  seeds/m<sup>2</sup> with the Accord drill.  
          : T : FLUQUIN : Combination drilled, Hereward, tr. fluquinconazole,  
                                  at 380 seeds/m<sup>2</sup> with the Accord drill.  
15-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.  
27-Apr-00 : B :                    : 34.5% N at 348 kg.  
          : B :                    : tm)Opus at 0.5 l in 200 l.  
          : B :                    : tm)Unix at 0.5 kg in 200 l.  
          : B :                    : tm)BASF 3C Chlormequat 720 at 2.0 l in 200 l.  
22-May-00 : B :                    : Opus at 0.75 l in 100 l.  
29-Jun-00 : B :                    : Hand rogued wild oats.  
11-Aug-00 : B :                    : Combine harvested.

Previous crops: W. wheat 1998 and 1999.

**NOTE:** All plots were sampled in June to assess root and stem base diseases.

00/R/CS/323

**GRAIN TONNES/HECTARE**

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

<b>FUNG99 GROUP</b>	(NONE)	(FLUQUIN)	Mean
I	9.23	8.90	9.06
II	9.48	9.02	9.25
III	9.04	8.65	8.84
Mean	9.25	8.85	9.05

<b>FUNG00 GROUP</b>	NONE	FLUQUIN	Mean
I	9.14	8.99	9.06
II	9.10	9.39	9.25
III	8.64	9.05	8.84
Mean	8.96	9.14	9.05

<b>FUNG00 FUNG99</b>	NONE	FLUQUIN	Mean
(NONE)	9.10	9.40	9.25
(FLUQUIN)	8.82	8.89	8.85
Mean	8.96	9.14	9.05

<b>GROUP</b>	<b>FUNG00 FUNG99</b>	NONE	FLUQUIN
I	(NONE)	9.20	9.26
	(FLUQUIN)	9.08	8.72
II	(NONE)	9.42	9.53
	(FLUQUIN)	8.78	9.26
III	(NONE)	8.67	9.41
	(FLUQUIN)	8.61	8.68

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

<b>GROUP</b>	<b>FUNG99</b>	<b>FUNG00</b>	<b>GROUP FUNG99</b>
0.142	0.116	0.116	0.200
<b>GROUP FUNG00</b>	<b>FUNG99 FUNG00</b>	<b>GROUP FUNG99 FUNG00</b>	
0.200	0.163	0.283	

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	58	0.490	5.4
GRAIN MEAN DM%	86.5		
PLOT AREA HARVESTED	0.00237		