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## Yields of the Field Experiments 1998

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

#### Rothamsted Research

Rothamsted Research (1999) *98/R/CS/323 Cereal Sequence and Take-all - W. Wheat* ; Yields Of The Field Experiments 1998, pp 64 - 66 - DOI: <https://doi.org/10.23637/ERADOC-1-52>

98/R/CS/323

**CEREAL SEQUENCES AND TAKE-ALL**

**Object:** To study the level of take-all (*Gaeumannomyces graminis*) in w. wheat grown after various cereal sequences and one year of set-aside - West Barnfield II.

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

The eleventh year, w. wheat.

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

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

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

**Treatments:**

**CROPSEQ** Crop sequences 1988 to 1995, all in wheat in 1996 and set-aside in 1997

TTTTTTTT  
OTTTOTTT  
TOTTTOTT  
TTOTTTOT  
TTTOTTTT  
TTTTTTTT  
OWWWOWWW  
WOWWWOWW  
WWOWWWOW  
WWWOWWWO  
BBBBBBBB  
OBBBOBBB  
BOBBBOBB  
BBOBBBOB  
BBBOBBBO  
WTWTWTWT  
WBWBWBWB  
TBTBTBTB  
SBSBSBSB  
WWTTTWWW  
WWBBBWWW  
TTBBBTTT  
TTWWWTTT  
BBWWWBBB  
BBTTTBBB  
WSSSSWWW

W = W. wheat  
S = S. barley  
B = W. barley  
O = W. oats  
T = W. triticale

98/R/CS/323

**Experimental diary:**

28-Jul-97 : B : Disced.  
10-Sep-97 : B : Scythe LC at 3.0 l in 300 l.  
23-Sep-97 : B : Topped.  
26-Sep-97 : B : Ploughed and furrow pressed.  
01-Oct-97 : B : Rotary harrowed, Abbot, dressed Beret Gold, drilled at 380  
seeds per m<sup>2</sup>.  
02-Oct-97 : B : Rolled.  
12-Nov-97 : B : Stefes IPU 500 at 4.0 l with MSS Trifluralin 48 EC at 2.0 l  
and Cyperkill 10 at 250 ml in 200 l.  
17-Feb-98 : B : 34.5% N at 120 kg.  
27-Apr-98 : B : Opus at 0.6 l with Tripart Brevis at 2.25 l in 200 l.  
28-Apr-98 : B : 34.5% N at 460 kg.  
28-May-98 : B : Opus at 0.7 l in 200 l.  
12-Jun-98 : B : Bavistin DF at 0.5 kg with Folicur at 0.5 l in 100 l.  
17-Aug-98 : B : Combine harvested.

**NOTE:** Plant samples were taken in July to assess root and stem base diseases.

99/R/CS/323

GRAIN TONNES/HECTARE

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

CROPSEQ	
TTTTTTTT	11.23
OTTTOTTT	11.31
TOTTTOTT	11.40
TTOTTTOT	11.09
TTTOTTTT	11.17
WWWWWWW	11.15
OWWWWWW	11.38
WOWWWOW	11.29
WWOWWWO	11.28
WWWOWWO	11.27
BBBBBBB	11.07
OBBBOBB	11.41
BOBBBOB	11.19
BBOBBOB	10.94
BBBOBBO	11.43
WTWTWTWT	11.40
WBWBWBWB	11.30
TBTBTBTE	11.29
SBSBSBSB	10.98
WWTTTWWW	11.20
WWBBBWWW	11.58
TTBBBTTT	11.32
TTWWTTT	11.26
BBWWBBB	11.32
BBTTBBB	11.14
WWSSWWW	11.09
Mean	11.25

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

CROPSEQ  
0.199

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	50	0.243	2.2
GRAIN MEAN DM%	87.6		
PLOT AREA HARVESTED	0.00229		