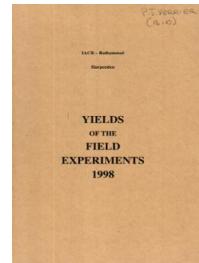


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# Yields of the Field Experiments 1998

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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  
TTTOTTTO  
WWWWWWWW  
OWWWOWWW  
WOWWWOWW  
WWOWWWOW  
WWOWWWO  
BBBBBBBB  
OBBBOBBB  
BOBBBBBB  
BBOBBBBB  
BBBOBBBO  
WTWTWTWT  
WBWBWBWB  
TBTBTBTB  
SBSBSBSB  
WWTTTWWWW  
WWBBBBWWWW  
TTBBBBTTT  
TTWWWWTTT  
BBWWWWBBB  
BBTTTBBBB  
WWSSSSWWWW

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
OTTTOTT	11.31
TOTTTOTT	11.40
TTOTTTOT	11.09
TTTOTTTO	11.17
WWWWWWWW	11.15
OWWWOWWW	11.38
WOWWWOWW	11.29
WWOWWWOW	11.28
WWWOWWWO	11.27
BBBBBBBB	11.07
OBBBBBBB	11.41
BOBBBBBB	11.19
BBOBBBBB	10.94
BBBOBBBO	11.43
WTWTWTWT	11.40
WBWBWBWB	11.30
TBTBTBTB	11.29
SBSBSBSB	10.98
WWTTTWWW	11.20
WWBBBBWW	11.58
TTBBBTTT	11.32
TTWWWTTT	11.26
BBWWWWBB	11.32
BBTTTBBB	11.14
WWSSSSWW	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