

Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED  
RESEARCH

## Yields of the Field Experiments 1996

[Full Table of Content](#)



---

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

#### Rothamsted Research

Rothamsted Research (1997) *96/R/CS/323 Cereal Sequence and Take-all - W. Wheat* ; Yields Of The Field Experiments 1996, pp 69 - 71 - DOI: <https://doi.org/10.23637/ERADOC-1-51>

96/R/CS/323

**CEREAL SEQUENCES AND TAKE-ALL**

**Object:** To study the effects on take-all (*Gaeumannomyces graminis*) and yield of different cereals grown in various sequences - West Barnfield II.

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

The ninth year, w. wheat.

For previous years see 88-95/R/CS/323

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

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

**CROPSEQ**            Crop sequences (1988 to 1995 respectively), all w. wheat in 1996:

TTTTTTTT  
OTTTOTTT  
TOTTOTTT  
TTOTTTOT  
TTTOTTTO  
WWWWWWW  
OWWWOWWW  
WOWWWOWW  
WWOWWWOW  
WWWOWWWO  
BBBBBBBB  
OBBBBBBB  
BOBBBBBB  
BBOBBBBB  
BBBBOBBB  
WTWTWTWT  
WBWBWBWB  
TBTBTBTB  
SBSBSBSB  
WWTTTWWW  
WWBBBWWW  
TTBBBTTT  
TTWWWTTT  
BBWWWBBB  
BBTTTBBB  
WWSSWWW

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

**NOTE:** Only the last letter of the crop sequence, the crop in 1995, is used in the experimental diary.

96/R/CS/323

**Experimental diary:**

20-Jul-95 : T : CROPSEQ S, B, O: Barley and oat straw baled.  
11-Aug-95 : T : CROPSEQ W: Wheat straw baled.  
30-Aug-95 : T : CROPSEQ T: Triticale straw baled.  
18-Sep-95 : B : PK as (0:20:32) at 300 kg.  
20-Sep-95 : B : Ploughed and furrow pressed.  
25-Sep-95 : B : Rotary harrowed, Mercia, dressed Sibutol, drilled at 380  
seeds per m<sup>2</sup>.  
23-Oct-95 : B : Avadex BW Granular at 22.5 kg.  
13-Nov-95 : B : MSS Iprofile at 2.6 l with Stomp 400 SC at 2.6 l in  
200 l.  
07-Mar-96 : B : 34.5% N at 87 kg.  
15-Apr-96 : B : 34.5% N at 580 kg.  
25-Apr-96 : B : Cheetah Super at 1.25 l with Halo at 1.5 l in 200 l.  
13-Jun-96 : B : Alto 100 SL at 0.6 l with Mallard 750 EC at 0.4 l in  
300 l.  
19-Aug-96 : B : Combine harvested.

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

96/R/CS/323

GRAIN TONNES/HECTARE

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

CROPSEQ	
TTTTTTTT	9.23
OTTTOTT	8.90
TOTTTOTT	9.26
TTOTTTOT	9.04
TTTOTTTO	9.08
WWWWWWW	8.25
OWWWOWW	8.44
WOWWOWW	8.86
WWOWWOW	8.91
WWWOWWO	9.14
BBBBBBBB	8.67
OBBBBBB	8.35
BOBBBBB	9.39
BBOBBBB	9.26
BBBBOBB	9.30
WTWTWT	9.05
WBWBWB	8.56
TBTBTBT	7.63
SBSBSBS	8.64
WWTTWWW	8.28
WWBBBWW	8.59
TTBBBTT	9.03
TIWWWTT	8.83
BBWWWBB	9.02
BBTTTBB	8.46
WWSSWWW	7.59
Mean	8.76

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

CROPSEQ  
0.377

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	50	0.461	5.3

GRAIN MEAN DM% 89.3

PLOT AREA HARVESTED 0.00229