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## Yields of the Field Experiments 1994

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### 94/R/CS/323 Cereal Sequence and Take-all - W. Barley, W. Oats, W. Triticale, W. Wheat, S. Barley

#### Rothamsted Research

Rothamsted Research (1995) *94/R/CS/323 Cereal Sequence and Take-all - W. Barley, W. Oats, W. Triticale, W. Wheat, S. Barley*; Yields Of The Field Experiments 1994, pp 64 - 66 - DOI: <https://doi.org/10.23637/ERADOC-1-49>

94/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 cereal sequences - West Barnfield II.

**Sponsors:** R.J. Gutteridge, D. Hornby, R.D. Prew.

The seventh year, w. barley, w. oats, w. triticale, w. wheat, s. barley.

For previous years see 88-93/R/CS/323

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

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

**CROPSEQ** Crop sequences (1988 to 1994 respectively):

TTTTTTT  
OTTTOTT  
TOTTTOT  
TTOTTTO  
TTTOTT  
WWWWWWW  
OWWWOWW  
WOWWWOW  
WWOWWOW  
WWWOWWW  
BBBBBBB  
OBBBOBB  
BOBBBOB  
BBOBBBO  
BBBOBBB  
WTWTWTW  
WBWBWBW  
TBTBTBT  
SBSBSBS  
WWTTTWW  
WWBBBWW  
TTBBBTT  
TTWWWTT  
BBWWWBB  
BBTTTBB  
WWSSSWW

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

94/R/CS/323

**Experimental diary:**

- 02-Sep-93 : B : PK as (0:18:36) at 300 kg.  
09-Sep-93 : B : Ploughed.  
23-Sep-93 : B : Spring-tine cultivated.  
23-Sep-93 : T : CROPSEQ W. barley plots: Rotary harrowed, Magie, dressed Cerevax, drilled at 400 seeds per m<sup>2</sup>.  
24-Sep-93 : T : CROPSEQ Oats plots: Rotary harrowed, Image, dressed Ceresol, drilled at 350 seeds per m<sup>2</sup>.  
: T : CROPSEQ Triticale plots: Rotary harrowed, Lasko, dressed Cerevax, drilled at 400 seeds per m<sup>2</sup>.  
: T : CROPSEQ Wheat plots: Rotary harrowed, Mercia, dressed Cerevax, drilled at 380 seeds per m<sup>2</sup>.  
: B : Glytex at 2.25 kg in 200 l.  
08-Mar-94 : T : CROPSEQ W. barley, oats, triticale and wheat plots: 34.5% N at 87 kg.  
16-Mar-94 : T : CROPSEQ S. barley plots: Rotary harrowed, Klaxon undressed, drilled at 350 seeds per m<sup>2</sup>.  
12-Apr-94 : T : CROPSEQ Triticale plots: Hoegrass at 3.0 l with Starane 2 at 0.75 l in 220 l.  
14-Apr-94 : T : CROPSEQ Oats and triticale plots: 34.5% N at 346 kg.  
: T : CROPSEQ W. barley plots: 34.5% N at 428 kg.  
: T : CROPSEQ Wheat plots: 34.5% N at 496 kg.  
: T : CROPSEQ S. barley plots: 34.5% N at 346 kg.  
09-May-94 : T : CROPSEQ W. barley plots: Starane 2 at 0.75 l with Tigress at 2.5 l in 200 l.  
31-May-94 : B : Mistral at 0.5 l with Radar at 0.5 l in 200 l.  
01-Jun-94 : T : CROPSEQ S. barley plots: Duplosan New System CMPP at 1.4 l with Oxytril CM at 1.0 l in 200 l.  
26-Jul-94 : T : CROPSEQ W. barley plots: Combine harvested.  
02-Aug-94 : T : CROPSEQ S. barley, wheat, oats and triticale plots: Combine harvested.

**NOTE:** Plant samples were taken in April, June and July for take-all and eyespot assessments. Soil cores were taken after harvest to assess take-all infectivity.

94/R/CS/323

GRAIN TONNES/HECTARE

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

CROPSEQ	
TTTTTTT	5.35
OTTTOTT	5.04
TOTTTOT	6.23
TTOTTTO	6.95
TTTOTT	5.91
WWWWWWW	4.70
OWWWOWW	4.84
WOWWWOW	5.01
WWOWWOW	6.55
WWWOWWW	6.65
BBBBBBB	6.46
OBBBBBB	7.15
BOBBBB	5.23
BBOBBBO	6.60
BBBOBBB	6.48
WTWTWTW	5.27
WBWBWBW	6.25
TBTBTBT	6.98
SBSBSBS	5.09
WTTTWW	6.64
WWBBBWW	5.65
TTBBBTT	5.87
TTWWTT	5.18
BBWWBB	6.46
BBTTTBB	7.04
WWSSWW	5.28
Mean	5.96

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

CROPSEQ  
0.632

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	50	0.774	13.0
GRAIN MEAN DM%	84.8		
PLOT AREA HARVESTED	0.00226		