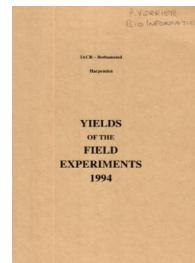


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# Yields of the Field Experiments 1994

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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

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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):

TTTTTTTT  
OTTTOTT  
TOTTTOT  
TTOTTTO  
TTTOTTT  
WWWWWWWW  
OWWWOWWW  
WOWWWOW  
WWOWWWO  
WWWOWWW  
BBBBBBBB  
OBBOBOB  
BOBBBOB  
BBOBBBO  
BBBOBBBB  
WTWTWTW  
WBWBWBW  
TBTBTBT  
SBSBSBS  
WWTTTWW  
WWBBBBWW  
TTBBBBTT  
TTWWWWTT  
BBWWWWBB  
BBTTTB  
WWSSSSWW

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**

TTTTTTTT	5.35
OTTTOTT	5.04
TOTTTOT	6.23
TTTOTTO	6.95
TTTOTTT	5.91
WWWWWWW	4.70
OWWWOWW	4.84
WOWWWOW	5.01
WWOWWWO	6.55
WWWWOWW	6.65
BBBBBBB	6.46
OBBBBOB	7.15
BOBBBOB	5.23
BBOBBBO	6.60
BBBOBBBB	6.48
WTWTWTW	5.27
WBWBWBW	6.25
TBTBTBT	6.98
SBSBSBS	5.09
WWTTTWW	6.64
WWBBBBWW	5.65
TTBBBTT	5.87
TTWWWWTT	5.18
BBWWWWBB	6.46
BBTTTB	7.04
WWSSSWW	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