

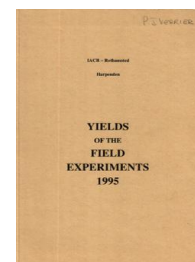
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95/R/CS/323 Cereal Sequences and Take-all - W. Barley, W. Oats, W. Triticale, W. Wheat

Rothamsted Research

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95/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, R.D. Prew.

The eighth year, w. barley, w. oats, w. triticale, w. wheat.

For previous years see 88-94/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):

TTTTTTTT
OTTTOFTT
TOTFTOTT
TTOTFTOT
TTOTFTTO
TTTTTTTT
OWWWWWW
WOWWWOW
WWWWWWO
WWWOWWO
BBBBBBBB
OBBBOBBB
BOBBBOBB
BBOBBBOB
BBBOBBBO
WTWTWTWT
WBWBWBWB
TBTBTBTB
SBSBSBSB
WWTFTWWW
WWBBBWWW
TTBBFTTT
TTWWWTTT
BBWWWBBB
BBFTTBBB
WSSSWWWW

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.

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Experimental diary:

- 22-Jul-94 : B : Straw baled.
06-Sep-94 : B : Sting CT at 2.0 l in 200 l.
07-Sep-94 : B : Dolomite at 5.0 t.
08-Sep-94 : B : PK as(0:20:32) at 300 kg.
16-Sep-94 : B : Ploughed and furrow pressed.
23-Sep-94 : **T** : **CROPSEQ** B: Rotary harrowed, Magie, dressed Rappor Plus, drilled at 350 seeds per m².
 : **T** : **CROPSEQ** O: Rotary harrowed, Image, dressed Panocrine, drilled at 350 seeds per m².
 : **T** : **CROPSEQ** T: Rotary harrowed, Lasko, dressed Cerevax, drilled at 400 seeds per m².
 : **T** : **CROPSEQ** W: Rotary harrowed, Mercia, dressed Rappor, drilled at 380 seeds per m².
26-Sep-94 : **T** : **CROPSEQ** O: Glytex at 2.25 kg in 200 l.
 : **T** : **CROPSEQ** B, T, W: Hytane 500 SC at 2.5 l with Stomp 400 at 3.3 l in 200 l.
10-Mar-95 : B : 34.5% N at 92 kg.
10-Apr-95 : **T** : **CROPSEQ** T, O: 34.5% N at 354 kg.
 : **T** : **CROPSEQ** B: 34.5% N at 442 kg.
 : **T** : **CROPSEQ** W: 34.5% N at 500 kg.
28-Apr-95 : B : Starane 2 at 0.75 l in 200 l.
 : **T** : **CROPSEQ** B: Tigress at 2.5 l in 200 l.
 : **T** : **CROPSEQ** W, T: Topik 240EC at 125 ml with Actipron at 1.2 l in 200 l.
16-Jun-95 : **T** : **CROPSEQ** W: Halo at 2.0 l with Patrol at 0.5 l in 300 l.
20-Jul-95 : **T** : **CROPSEQ** B, O: Combine harvested.
02-Aug-95 : **T** : **CROPSEQ** W, T: 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.

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GRAIN TONNES/HECTARE

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

CROPSEQ	
TTTTTTTT	4.71
OTTTOTTT	4.92
TOTTTOTT	5.65
TTOTTTOT	5.80
TTTOTTTT	4.84
WWWWWWW	6.90
OWWWOWW	6.17
WOWWOWW	7.74
WWOWWOW	7.47
WWOWWWO	5.22
BBBBBBBB	5.62
OBBBOBBB	5.37
BOBBBOBB	6.15
BBOBBBOB	5.82
BBBOBBBO	6.24
WTWTWTWT	4.79
WBWBWBWB	5.63
TBTBTBTB	6.01
SBSBSBSB	5.50
WTTTTWWW	6.73
WWBBBWWW	6.51
TTBBBTTT	5.25
TTWWTTT	4.84
BBWWBBB	5.95
BBTTTBBB	5.80
WWSSWWW	6.18
Mean	5.84

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

CROPSEQ
0.416

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	50	0.510	8.7
GRAIN MEAN DM%	89.7		
PLOT AREA HARVESTED	0.00228		