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

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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
TTTTTTTT
OWWWOWWW
WOWWWOWW
WWOWWWOW
WWWOWWWO
BBBBBBBB
OBBBBBBB
BOBBBBBB
BBOBBBBB
BBBBOBBB
WTWTWTWT
WBWBWBWB
TBTBTBTB
SBSBSBSB
WWTTTWWW
WWBBBWWW
TTBBBTTT
TTWWTTT
BBWWBBB
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 m².
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
OTTTOTTT	8.90
TOTTTOTT	9.26
TTOTTTOT	9.04
TTTOTTTT	9.08
WWWWWWW	8.25
OWWWOWWW	8.44
WOWWWOWW	8.86
WWOWWWOW	8.91
WWOWWWO	9.14
BBBBBBBB	8.67
OBBOBBB	8.35
BOBBBOB	9.39
BBOBBBO	9.26
BBBOBBB	9.30
WTWTWT	9.05
WBWBWB	8.56
TBTBTB	7.63
SBSBSB	8.64
WWTTWWW	8.28
WWBBWWW	8.59
TTBBTTT	9.03
TIWWWTT	8.83
BBWWBBB	9.02
BBTTBBB	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		