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

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98/R/CS/323

CEREAL SEQUENCES AND TAKE-ALL

Object: To study the level of take-all (*Gaeumannomyces graminis*) in w. wheat grown after various cereal sequences and one year of set-aside - West Barnfield II.

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

The eleventh year, w. wheat.

For previous years see 88-96/R/CS/323.

Design: 3 randomised blocks of 26 plots.

Whole plot dimensions: 3.0 x 10.0.

Treatments:

CROPSEQ Crop sequences 1988 to 1995, all in wheat in 1996 and set-aside in 1997

TTTTTTTT
OTTTOTTT
TOTTOTTT
TTOTTTOT
TTTOTTTT
TTTTOTTT
WWWWWWWW
OWWWOWWW
WOWWWOWW
WWOWWWOW
WWOWWWWO
BBBBBBBB
OBBBOBBB
BOBBBOBB
BBOBBBOB
BBBOBBBO
WTWTWTWT
WBWBWBWB
TBTBTBTB
SBSBSBSB
WWTTTWWW
WWBBBWWW
TTBBBTTT
TTWWWT
BBWWBBB
BBTTTBBB
WWSSSWWW

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

98/R/CS/323

Experimental diary:

28-Jul-97 : B : Discd.
10-Sep-97 : B : Scythe LC at 3.0 l in 300 l.
23-Sep-97 : B : Topped.
26-Sep-97 : B : Ploughed and furrow pressed.
01-Oct-97 : B : Rotary harrowed, Abbot, dressed Beret Gold, drilled at 380
seeds per m².
02-Oct-97 : B : Rolled.
12-Nov-97 : B : Stefes IPU 500 at 4.0 l with MSS Trifluralin 48 EC at 2.0 l
and Cyperkill 10 at 250 ml in 200 l.
17-Feb-98 : B : 34.5% N at 120 kg.
27-Apr-98 : B : Opus at 0.6 l with Tripart Brevis at 2.25 l in 200 l.
28-Apr-98 : B : 34.5% N at 460 kg.
28-May-98 : B : Opus at 0.7 l in 200 l.
12-Jun-98 : B : Bavistin DF at 0.5 kg with Folicur at 0.5 l in 100 l.
17-Aug-98 : B : Combine harvested.

NOTE: Plant samples were taken in July to assess root and stem base diseases.

99/R/CS/323

GRAIN TONNES/HECTARE

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

CROPSEQ	
TTTTTTTT	11.23
OTTTOTTT	11.31
TOTTTOTT	11.40
TTOTTTOT	11.09
TTTOTTTT	11.17
WWWWWWW	11.15
OWWWOWW	11.38
WOWWWOW	11.29
WWOWWWO	11.28
WWOWWWO	11.27
BBBBBBBB	11.07
OBBBOBBB	11.41
BOBBBOBB	11.19
BBOBBBOB	10.94
BBBOBBBO	11.43
WTWTWTWT	11.40
WBWBWBWB	11.30
TBTBTBTB	11.29
SBSBSBSB	10.98
WWTTTWWW	11.20
WWBBBWWW	11.58
TTBBBTTT	11.32
TTWWWT	11.26
BBWWBBB	11.32
BBTTTBBB	11.14
WWSSSWWW	11.09
Mean	11.25

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

CROPSEQ
0.199

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	50	0.243	2.2
GRAIN MEAN DM%	87.6		
PLOT AREA HARVESTED	0.00229		