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

Rothamsted Research

Rothamsted Research (1999) *98/R/CS/323 Cereal Sequence and Take-all - W. Wheat* ; Yields Of The Field Experiments 1998, pp 64 - 66 - DOI: <https://doi.org/10.23637/ERADOC-1-52>

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
TOTTTOTT
TTOTTTOT
TTTOTTTT
TTTTTTTT
OWWWOWWW
WOWWWOWW
WWOWWWOW
WWWOWWWO
BBBBBBBB
OBBBOBBB
BOBBBOBB
BBOBBBOB
BBBOBBBO
WTWTWTWT
WBWBWBWB
TBTBTBTB
SBSBSBSB
WTTTWWW
WWBBBWWW
TTBBBTTT
TTWWWTTT
BBWWWBBB
BBTTTBBB
WSSSSWWW

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

98/R/CS/323

Experimental diary:

28-Jul-97 : B : Disced.
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
OWWWWWW	11.38
WOWWWOW	11.29
WWOWWWO	11.28
WWWOWWO	11.27
BBBBBBB	11.07
OBBBOBB	11.41
BOBBBOB	11.19
BBOBBOB	10.94
BBBOBBO	11.43
WTWTWT	11.40
WBWBWB	11.30
TBTBTB	11.29
SBSBSB	10.98
WWTWWW	11.20
WWBBWWW	11.58
TTBBTTT	11.32
TTWWTTT	11.26
BBWWBBB	11.32
BBTTBBB	11.14
WWSSWWW	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		