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

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Rothamsted Research (2001) *00/R/CS/323 Cereal Sequence and Take-all - W. Wheat* ; Yields Of The Field Experiments 2000, pp 62 - 63 - DOI: <https://doi.org/10.23637/ERADOC-1-55>

00/R/CS/323

CEREAL SEQUENCES AND TAKE-ALL

Object: To study the effect of seed treatment on take-all (*Gaeumannomyces graminis*) in w. wheat grown after various cereal sequences - West Barnfield II.

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

The 13th year, w. wheat.

For previous years see 88-96,98-99/R/CS/323.

Design: 3 randomised blocks of 26 plots.

Whole plot dimensions: 3.0 x 10.0.

Treatments:

1. **FUNG99** Seed dressing in 1999:
 (NONE) None
 (FLUQUIN) Fluquinconazole
2. **FUNG00** Seed dressing in 2000:
 NONE None
 FLUQUIN Fluquinconazole
3. **GROUP** Crop sequences and levels of take-all decline:
 I Old sequences with well established take-all decline
 II Old sequences with less well established take-all decline
 III Old sequences with take-all decline possibly not established

Experimental diary:

- 11-Aug-99 : B : : Ploughed.
30-Sep-99 : B : : tm)PDQ at 3.0 l in 200 l.
 : B : : tm)Enhance Low Foam at 100 ml in 200 l.
11-Oct-99 : T : NONE : Combination drilled, Hereward, tr. Sibutol, at 380 seeds/m² with the Accord drill.
 : T : FLUQUIN : Combination drilled, Hereward, tr. fluquinconazole, at 380 seeds/m² with the Accord drill.
15-Nov-99 : B : : tm)Lexus 50 DF at 20 g in 200 l.
 : B : : tm)Stomp 400 SC at 2.5 l in 200 l.
 : B : : tm)Toppel 10 at 250 ml in 200 l.
07-Mar-00 : B : : 34.5% N at 232 kg.
27-Apr-00 : B : : 34.5% N at 348 kg.
 : B : : tm)Opus at 0.5 l in 200 l.
 : B : : tm)Unix at 0.5 kg in 200 l.
 : B : : tm)BASF 3C Chlormequat 720 at 2.0 l in 200 l.
22-May-00 : B : : Opus at 0.75 l in 100 l.
29-Jun-00 : B : : Hand rogued wild oats.
11-Aug-00 : B : : Combine harvested.

Previous crops: W. wheat 1998 and 1999.

NOTE: All plots were sampled in June to assess root and stem base diseases.

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GRAIN TONNES/HECTARE

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

FUNG99 GROUP	(NONE)	(FLUQUIN)	Mean
I	9.23	8.90	9.06
II	9.48	9.02	9.25
III	9.04	8.65	8.84
Mean	9.25	8.85	9.05

FUNG00 GROUP	NONE	FLUQUIN	Mean
I	9.14	8.99	9.06
II	9.10	9.39	9.25
III	8.64	9.05	8.84
Mean	8.96	9.14	9.05

FUNG00 (NONE)	NONE	FLUQUIN	Mean
(NONE)	9.10	9.40	9.25
(FLUQUIN)	8.82	8.89	8.85
Mean	8.96	9.14	9.05

GROUP	FUNG00 FUNG99	NONE	FLUQUIN
I	(NONE)	9.20	9.26
	(FLUQUIN)	9.08	8.72
II	(NONE)	9.42	9.53
	(FLUQUIN)	8.78	9.26
III	(NONE)	8.67	9.41
	(FLUQUIN)	8.61	8.68

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

GROUP	FUNG99	FUNG00	GROUP FUNG99
0.142	0.116	0.116	0.200
GROUP FUNG00	FUNG99 FUNG00	GROUP FUNG99 FUNG00	
0.200	0.163	0.283	

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	58	0.490	5.4
GRAIN MEAN DM%	86.5		
PLOT AREA HARVESTED	0.00237		