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00/R/CS/476 Fungicide Sequences and Take-all - W. Wheat

Rothamsted Research

Rothamsted Research (2001) *00/R/CS/476 Fungicide Sequences and Take-all - W. Wheat* ; Yields Of The Field Experiments 2000, pp 81 - 83 - DOI: <https://doi.org/10.23637/ERADOC-1-55>

00/R/CS/476

FUNGICIDE SEQUENCES AND TAKE-ALL

Object: To determine the effects of a fungicidal seed treatment on take-all (*Gaeumannomyces graminis*) development in w. wheat - Long Hoos IV 4.

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The fourth year, w. wheat.

For previous years see 97-99/R/CS/476.

Design: 2 randomised blocks of 2 x 2 x 2 x 2.

Plot dimensions: 3.0 x 10.0.

Treatments: All combinations of:-

- | | |
|------------------|---|
| 1. FUNG97 | Fungicidal seed treatment to the 1997 crop: |
| (F97) | Seed treated |
| (-97) | None |
| 2. FUNG98 | Fungicidal seed treatment to the 1998 crop: |
| (F98) | Seed treated |
| (-98) | None |
| 3. FUNG99 | Fungicidal seed treatment to the 1999 crop: |
| (F99) | Seed treated |
| (-99) | None |
| 4. FUNG00 | Fungicidal seed treatment to the 2000 crop: |
| F00 | Seed treated |
| -00 | None |

NOTE: The seed treatment was fluquinconazole at 75 g a.i./100 kg of seed.

Experimental diary:

12-Sep-99 : B : : Ploughed.
22-Sep-99 : T : -00 : Combination drilled, Hereward, undressed, at 380 seeds/m² with the Accord drill.
 : T : F00 : Combination drilled, Hereward, tr. fluquinconazole, at 380 seeds/m² with the Accord drill.
14-Dec-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.
08-Mar-00 : B : : 34.5% N at 232 kg.
27-Apr-00 : B : : tm)Opus at 0.5 l in 200 l.
 : B : : tm)Unix at 0.5 kg in 200 l.
04-May-00 : B : : 34.5% N at 348 kg.
22-May-00 : B : : Opus at 0.75 l in 100 l.
07-Aug-00 : B : : Combine harvested.

NOTE: Samples were taken in April and June to assess root and stem base diseases.

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GRAIN TONNES/HECTARE

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

FUNG98	(F98)	(-98)	Mean
FUNG97			
(F97)	4.47	4.49	4.48
(-97)	4.62	4.53	4.58
Mean	4.55	4.51	4.53
FUNG99	(F99)	(-99)	Mean
FUNG97			
(F97)	4.36	4.60	4.48
(-97)	3.92	5.24	4.58
Mean	4.14	4.92	4.53
FUNG99	(F99)	(-99)	Mean
FUNG98			
(F98)	4.44	4.65	4.55
(-98)	3.84	5.19	4.51
Mean	4.14	4.92	4.53
FUNG00	F00	-00	Mean
FUNG97			
(F97)	4.54	4.42	4.48
(-97)	5.28	3.87	4.58
Mean	4.91	4.14	4.53
FUNG00	F00	-00	Mean
FUNG98			
(F98)	4.88	4.21	4.55
(-98)	4.94	4.08	4.51
Mean	4.91	4.14	4.53
FUNG00	F00	-00	Mean
FUNG99			
(F99)	4.45	3.83	4.14
(-99)	5.38	4.46	4.92
Mean	4.91	4.14	4.53
FUNG97	FUNG99	(F99)	(-99)
(F97)	FUNG98		
	(F98)	4.79	4.15
	(-98)	3.93	5.05
(-97)	(F98)	4.09	5.15
	(-98)	3.74	5.32
FUNG97	FUNG00	F00	-00
(F97)	FUNG98		
	(F98)	4.65	4.30
	(-98)	4.44	4.54
(-97)	(F98)	5.12	4.12
	(-98)	5.44	3.62

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GRAIN TONNES/HECTARE

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

FUNG97	FUNG00 FUNG99	F00	-00
(F97)	(F99)	4.34	4.37
	(-99)	4.74	4.46
(-97)	(F99)	4.55	3.28
	(-99)	6.02	4.46

FUNG98	FUNG00 FUNG99	F00	-00
(F98)	(F99)	4.55	4.33
	(-99)	5.22	4.09
(-98)	(F99)	4.34	3.33
	(-99)	5.54	4.83

FUNG97	FUNG98	FUNG00 FUNG99	F00	-00
(F97)	(F98)	(F99)	4.59	4.99
		(-99)	4.71	3.60
	(-98)	(F99)	4.10	3.75
		(-99)	4.78	5.32
(-97)	(F98)	(F99)	4.51	3.67
		(-99)	5.72	4.58
	(-98)	(F99)	4.58	2.90
		(-99)	6.31	4.34

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

FUNG97	FUNG98	FUNG99	FUNG00
0.360	0.360	0.360	0.360
FUNG97	FUNG97	FUNG98	FUNG97
FUNG98	FUNG99	FUNG99	FUNG00
0.508	0.508	0.508	0.508
FUNG98	FUNG99	FUNG97	FUNG97
FUNG00	FUNG00	FUNG98	FUNG98
		FUNG99	FUNG00
0.508	0.508	0.719	0.719
FUNG97	FUNG98	FUNG97	
FUNG99	FUNG99	FUNG98	
FUNG00	FUNG00	FUNG99	
		FUNG00	
0.719	0.719	1.017	

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	15	1.017	22.5
GRAIN MEAN DM%	81.6		
PLOT AREA HARVESTED	0.00237		