

Disclaimer:

This document is based on the results from an individual trial and may contain experimental use patterns that are currently off-label. **This document does not provide any interpretation and should not be taken as an endorsement of any unregistered use pattern.**

Professional advice should be sought for specific recommendations to ensure access to the most up to date information and knowledge.

Any product referred to in this document must be used strictly as directed, and in accordance with all label or permit instructions. Always consult the label prior to use.

The Impact of Foliar Fungicide on Crown Rot

Trial ID: RD1006

Location:

Wyaga

Trial Year:

2010

Investigator:

Rob Duncan

Objective	To evaluate the impact of foliar fungicides on disease level, yield and grain quality from 'stubble-borne' infections of Crown rot		
Crop:	Wheat cv. EGA Gregory		
Planting Date:	9/05/2010		
Application:	T1	T2	
Application Date:	27/07/2010	16/08/2010	
Growth Stage at Application:	GS31/32	GS37	
Nozzles:	AIXR110015		
Keywords:	Crown rot, fungicide		

Trt No.	Product & Rate	Application Timing	Application Volume L/ha	Yield 9/11/2010 t/ha
1	Untreated	-	-	2.84 de
2	Triazole A 145 mL/ha	T2	50	2.96 cde
3	Untreated	-	-	2.71 e
4	Untreated	-	-	2.97 bcde
5	Triazole A 145 mL/ha	T1	50	3.05 bcd
6	Triazole A 290 mL/ha	T1	50	3.19 abc
7	Triazole A 290 mL/ha	T2	50	3.20 abc
8	Triazole A 290 mL/ha	T2	70	3.27 abc
9	Triazole A 290 mL/ha	T2	100	3.07 bcd
10	Triazole B 300 mL/ha	T2	50	3.15 abcd
11	Triazole A 290 mL/ha	T1 & T2	50	3.28 ab
12	Triazole B 300 mL/ha	T2	70	3.10 abcd
13	Triazole B 300 mL/ha	T2	100	3.42 a
14	Triazole B 300 mL/ha	T1	50	3.03 bcde
P =				0.06
LSD =				322 (10%)

Yield cv 8.7%

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Pathology Assessments

Trt No.	Product & Rate	Application Timing	Application Volume L/ha	CR Severity	% Tillers with Basal Browning	% <i>Fusarium pseudograminearum</i>	% <i>Bipolaris sorokiniana</i>	Tillers per Plant
1	Untreated	-	-	13.4	55	47	8.4	4.3
2	Triazole A 145 mL/ha	T2	50	12.0	46	41	6.1	4.0
3	Untreated	-	-	19.2	73	56	8.3	4.5
4	Untreated	-	-	14.7	54		1.0	4.3
5	Triazole A 145 mL/ha	T1	50	12.2	45	49	5.8	4.4
6	Triazole A 290 mL/ha	T1	50	4.6	24	25	0.3	4.4
7	Triazole A 290 mL/ha	T2	50	14.3	59	53	2.9	4.5
8	Triazole A 290 mL/ha	T2	70	13.6	50	44	4.4	4.7
9	Triazole A 290 mL/ha	T2	100	13.7	59	49	4.4	3.9
10	Triazole B 300 mL/ha	T2	50	8.7	36	37	3.7	4.7
11	Triazole A 290 mL/ha	T1 & T2	50	16.8	57	62	5.0	4.7
12	Triazole B 300 mL/ha	T2	70	10.2	46	48	5.3	4.6
13	Triazole B 300 mL/ha	T2	100	9.4	48	40	8.3	4.4
14	Triazole B 300 mL/ha	T1	50	7.6	38	25	11.2	4.3
P =				0.63	0.42	0.55	0.49	0.79
LSD =				nsd	nsd	nsd	nsd	nsd

Means followed by same letter do not significantly differ (P=.05, LSD)

nsd = No significant difference

Comments:

In a situation of natural crown rot infestation, there was a yield benefit from the majority of fungicide applications and timing. However there was no indication that any fungicide treatment impacted on crown rot severity, the % of plants colonised with the crown rot fungus (*F. pseudograminearum*), the % of plants colonised with the common root rot fungus (*Bipolaris sorokiniana*) or the number of tiller per plant.