

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 Fungicide Timing on Stripe Rust Management

Trial ID: RD1009

Location: Jandowae

Trial Year: 2010

Investigator: Rob Duncan

Objective:	To evaluate the impact of fungicide timing on wheat yield and grain quality in southern Qld	
Crop:	Wheat cv. Baxter	
Planting Date:	12/07/2010	
Application:	T1	T2
Application Date:	22/08/2010	8/09/2010
Crop Stage at Application:	GS39	~GS63
Disease at Application:	Trace	~1-2% Leaf Area infected on top 3 Leaves
Volume:	70 L/ha	
Nozzles:	TT11001	
Keywords:	Stripe rust, wheat	

Trt No	Treatment & Rate	Application Timing	% Leaf Area Affected with Stripe Rust							
			2/09/2010 11DAT1			8/09/2010 17DAT1/ 0DAT2			30/09/2010 39DAT1/ 22DAT2	
			Flag	Flag-1	Flag-2	Flag	Flag-1	Flag-2	Flag	Flag-1
1	Untreated	-	0.8 a	1.7 a	0.1 a	2.4 a	2.1 a	0.7 a	50.6 a	54.8 a
2	Folicur 145 ml/ha	T1	0.0 b	0.1 b	0.0 b	0.0 b	0.0 b	0.0 b	5.0 c	7.0 c
3	Folicur 290 ml/ha	T1	0.0 b	0.1 b	0.0 ab	0.1 b	0.1 b	0.0 b	3.8 cd	5.9 c
4	Folicur 145ml/ha	T2							15.2 b	17.7 b
5	Folicur 290 ml/ha	T2							17.1 b	17.2 b
6	Folicur 145ml/ha x 2	T1 & T2	0.0 b	0.0 b	0.0 b				2.9 cd	5.1 c
		P =	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00
		LSD =	Arcs Detransf	Arcs Detransf	Arcs Detransf	Log Detransf	Arcs Detransf	Arcs Detransf	Log Detransf	Log Detransf

Treatment means followed by the same letter are not significantly different at P = 0.05

DAT1 = Days after Timing 1

DAT2 = Days after Timing 2

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Trt No	Product & Rate	Application Timing	Yield 28/10/2010 t/ha	Grain Quality					
				1000 Grain Weight g	Test Weight kg/hL	Screenings %	Moisture %	Protein %	Blackpoint %
1	Untreated	-	3.23 e	34.5 c	72.4	3.6 a	14.4	13.7	0.75bc
2	Folicur 145ml/ha	T1	3.94 bc	36.7 abc	74.5	2.5 bc	14.4	13.4	1.42ab
3	Folicur 290 ml/ha	T1	3.92 cd	41.0 a	73.5	2.3 bc	14.4	13.4	1.90a
4	Folicur 145ml/ha	T2	3.71 d	39.0 ab	74.6	2.2 bc	14.5	13.4	0.91bc
5	Folicur 290ml/ha	T2	3.95 bc	40.9 a	74.2	2.3 bc	14.6	13.3	0.61c
6	Folicur 145ml/ha x 2	T1 & T2	4.13 ab	40.5 a	74.1	1.9 cd	14.8	13.4	1.37ab
P =			0.0000	0.01	0.19	0.00	0.67	0.26	0.03
LSD =			0.21	Log Detransf	nsd	Log Detransf	nsd	nsd	Arcs Detransf

Yield cv 3.6%

nsd = No significant difference

Comments: All fungicide treatments significantly reduced the % leaf area affected with stripe rust with Timing 1 more effective than Timing 2. Significant yield benefits were obtained from all fungicide treatments with the highest yield obtained from a two application approach. Untreated plots resulted in lighter grain and significantly increased screenings. However the level of screenings would not have impacted on receival grain quality.