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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.**

### Impact of Stripe Rust on Moderately Resistant (MR) Rated Wheat Varieties

Trial ID: **AM1003**      Location: **Moree**      Trial Year: **2010**  
 Investigator: **Anthony Mitchell**

<b>Objective:</b>	To evaluate the impact of stripe rust on yield and grain quality on moderately resistant (MR) rated Wheat varieties	
<b>Planting Date:</b>	8/6/2010	
<b>Plant Population:</b>	Uniform between varieties (~59- 65/m <sup>2</sup> )	
<b>Application:</b>	<b>T1</b>	<b>T2</b>
<b>Application Date:</b>	14/08/2010	7/09/2010
<b>Crop Stage at Application :</b>	GS31-32	~GS37-41
<b>Disease Level at T1 Application:</b>	All varieties had stripe rust present on the 3 <sup>rd</sup> fully emerged leaf from top of canopy (~0.5-2% leaf area) but with <0.1% on top fully emerged leaf. There was no significant difference in disease levels between varieties.	
<b>Nozzles:</b>	DG110015	
<b>Volume:</b>	70L/ha	

EGA Wylie included as stripe rust Moderately Susceptible (MS) check

Trt No.	Variety	Treatment	Application Timing	% Leaf Area Affected with Stripe Rust					
				7/09/2010 24DAT1			24/09/2010 41DAT1/ 17DAT2		
				Flag or Flag-1	Flag-1 or Flag-2	Flag-2 or Flag-3	Flag	Flag -1	Flag -2
1	EGA Wylie	Untreated	-	0.0	0.7	4.4 a	5.6 a	4.6 a	7.3 a
2	EGA Wylie	Folicur 145 mL/ha	T1	0.0	0.0	0.3 b	2.5 b	2.2 b	1.4 bc
3	EGA Wylie	Folicur 145 mL/ha	T1 & T2	0.0	0.1	0.3 b	0.2 def	1.3 bcd	0.6 cd
4	EGA Gregory	Untreated	-	0.0	0.1	0.7 b	0.5 cde	0.4 ef	0.2 d
5	EGA Gregory	Folicur 145 mL/ha	T1	0.0	0.0	0.1 b	0.1 def	0.3 f	0.2 d
6	EGA Gregory	Folicur 145 mL/ha	T1 & T2	0.0	0.0	0.4 b	0.0 f	0.4 ef	0.3 d
7	Sunvale	Untreated	-	0.0	0.2	0.6 b	1.2 c	1.0 cde	1.7 bc
8	Sunvale	Folicur 145 mL/ha	T1	0.0	0.0	0.1 b	0.6 cd	0.8 def	0.4 d
9	Bellaroi	Untreated	-	0.1	0.0	0.2 b	0.1 ef	0.7 def	1.4 bc
10	Bellaroi	Folicur 145 mL/ha	T1	0.0	0.0	0.0 b	0.1 ef	0.3 f	0.3 d
11	Caparoi	Untreated	-	0.0	0.2	6.8 a	0.1 def	1.9 bc	1.8 b
12	Caparoi	Folicur 145 mL/ha	T1	0.0	0.0	0.0 b	0.2 def	0.7 def	0.9 bcd
			P =	0.47	0.11	0.00	0.00	0.00	0.00
			LSD =	nsd	nsd	Arcsin (sqrt(x/100)) transformation	Arcsin (sqrt(x/100)) transformation	log+1 transformation	log+1 transformation

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

nsd = No significant difference

DAT1 = Days after Treatment 1      DAT2 = Days after Treatment 2

Assessment at 24DAT1 was on the top 3 fully unfurled leaves. The top leaf was either the Flag or Flag-1, the 2nd leaf was either Flag-1 or Flag-2 and the 3rd leaf was Flag-2 or Flag-3.

NB: A final assessment of stripe rust was attempted at 66DAT1. A combination of stripe rust and yellow spot effects were present but were unable to be clearly separated

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Location:

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2010

Trt No.	Variety	Treatment	Application Timing	Yield 11/11/2010 t/ha	Test Weight kg/hL	Screenings %	Protein %
1	EGA Wylie	Untreated	-	3.67 e	76	2.3 a	12.1 a
2	EGA Wylie	Folicur 145 mL/ha	T1	4.00 cde	76	1.9 a	12.0 a
3	EGA Wylie	Folicur 145 mL/ha	T1 & T2	3.93 de	74	2.1 a	12.2 a
4	EGA Gregory	Untreated	-	4.50 ab	74	1.2 bc	10.3 ef
5	EGA Gregory	Folicur 145 mL/ha	T1	4.71 ab	74	1.4 b	10.5 def
6	EGA Gregory	Folicur 145 mL/ha	T1 & T2	4.66 ab	76	1.2 bc	10.1 f
7	Sunvale	Untreated	-	4.44 abc	77	0.7 de	11.1 bc
8	Sunvale	Folicur 145 mL/ha	T1	4.33 bcd	75	0.8 cd	11.0 bcd
9	Bellaroi	Untreated	-	4.90 a	74	0.5 def	11.4 b
10	Bellaroi	Folicur 145 mL/ha	T1	4.80 ab	74	0.3 f	11.2 bc
11	Caparoi	Untreated	-	4.58 ab	77	0.4 ef	10.8 cde
12	Caparoi	Folicur 145 mL/ha	T1	4.80 ab	75	0.3 f	11.0 bc
				P=	0.00	0.00	0.00
				LSD=	log+1 transformation	sqrt(x+0.5) transformation	0.5

Yield cv 7.5%

Stripe rust developed on all varieties.

Application of fungicide significantly reduced stripe rust levels on at least one leaf (on all varieties) at 41 days after the initial application.

There was no significant difference in yield or grain quality for any variety when treated with fungicide in the presence of both stripe rust and yellow spot