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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.

Fungicide Strategies for Stripe Rust Management

Trial ID: CFT0905

Location:

Edgeroi

Trial Year:

2009

Investigator:

Clare Felton-Taylor

Objective:	To evaluate efficacy and benefits of at-planting fungicide options compared to foliar approaches	
Crop and Variety:	Wheat cv. EGA Wylie	
Planting Date:	14/05/2009	
Application Timing:	T1	T2
Foliar Application Dates:	24/07/2009	7/08/2009
Growth Stage at Application:	GS31 (1st sign of disease)	GS32/33
Keywords:	Stripe rust, wheat	

NB: All seed pre-treated with Dividend

Supreme Z at 25 kg/ha added to all treatments. Intake and Triad applied to the fertiliser.

Table 1: Emergence and Stripe Rust Infected Leaf Area (68 and 83 DAP)

Trt No.	Fungicide Treatment at Planting	Foliar Fungicide	Foliar Application Timing	Emergence 28/05/2009 14 DAP Plants/m ²	% Leaf Area affected with Stripe Rust					
					21/07/2009 68 DAP (3 Days before T1) GS31			5/08/2009 83 DAP 12 DAT1 GS32/33		
					Flag -3	Flag -4	Flag -5	Flag -1	Flag -2	Flag -3
1	-	-	-	153	0.0	1.8	3.8a	0.3	1.9	0.7
2	Jockey 300 mL/100kg of seed	-	-	121	0.0	0.1	0.2b	0.0	0.4	0.3
3	Jockey 300 mL/100kg of seed	Folicur 290 mL/ha	T2	129	0.0					
4	Intake 400 mL/ha in furrow	-	-	126	0.0	0.1	0.2b	0.0	0.0	0.0
5	Triad 500 WP 200 g/ha in furrow	-	-	131	0.0	0.0	0.0b	0.0	0.1	0.0
6	-	Folicur 290 mL/ha	T2	145	0.0					
7	-	Folicur 290 mL/ha	T1	137	0.0			0.0	0.0	0.0
P =				0.5	n/a	0.21	0.09	0.24	0.4	0.45
LSD =				nsd		nsd	2.8 (10%)	nsd	nsd	nsd

DAP = Days after Planting

DAT1 = Days after Timing 1

nsd = No significant difference

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Table 2: Stripe Rust Infected Leaf Area (107 and 113 DAP)

Trt No.	Fungicide Treatment at Planting	Foliar Fungicide	Foliar Application Timing	% Leaf Area affected with Stripe Rust					
				28/08/2009 107 DAP GS60			3/09/2009 113 DAP GS65		
				Flag	Flag -1	Flag -2	Flag	Flag -1	Flag -2
1	-	-	-	0.9a	11.6a	20.4a	2a	8.9a	34 a
2	Jockey 300 mL/100kg of seed	-	-	0.0b	4.0bc	9.7ab	1ab	6.9a	14 b
3	Jockey 300 mL/100kg of seed	Folicur 290 mL/ha	T2	0.0b	1.6d	4.5b	0b	1.0bc	6 bc
4	Intake 400 mL/ha in furrow	-	-	0.0b	3.9bc	6.5b	0.2b	2.9ab	5 bc
5	Triad 500 WP 200 g/ha in furrow	-	-	0.0b	5.1b	9.9ab	0.2b	3.2ab	8 bc
6	-	Folicur 290 mL/ha	T2	0.0b	1.7cd	7.1b	0b	1.3bc	7 bc
7	-	Folicur 290 mL/ha	T1	0.0b	0e	0.0c	0b	0.1c	0 c
P =				0.01	0.00	0.00	0.03	0.00	0.00
LSD =				Arcsin detransf	Log detransf	Log detransf	1.58	Log detransf	12.55

Table 3: Stripe Rust Infected Leaf Area at 120 DAP and Yield

Trt No.	Fungicide Treatment at Planting	Foliar Fungicide	Foliar Application Timing	% Leaf Area affected with Stripe Rust 10/09/2009 120 DAP GS65			Yield 23/09/2009 163DAP Harvest t/ha
				Flag	Flag -1	Flag -2	
1	-	-	-	2	7	31	2.82
2	Jockey 300 mL/100kg of seed	-	-				2.92
3	Jockey 300 mL/100kg of seed	Folicur 290 mL/ha	T2				2.95
4	Intake 400 mL/ha in furrow	-	-				3.15
5	Triad 500 WP 200 g/ha in furrow	-	-				3.13
6	-	Folicur 290 mL/ha	T2				2.87
7	-	Folicur 290 mL/ha	T1	0	0	0	2.78
P =				-	-	-	0.24
LSD =							nsd

Yield cv = 7.8%

DAP = Days after Planting

nsd = No significant difference