Individual trial results 2008

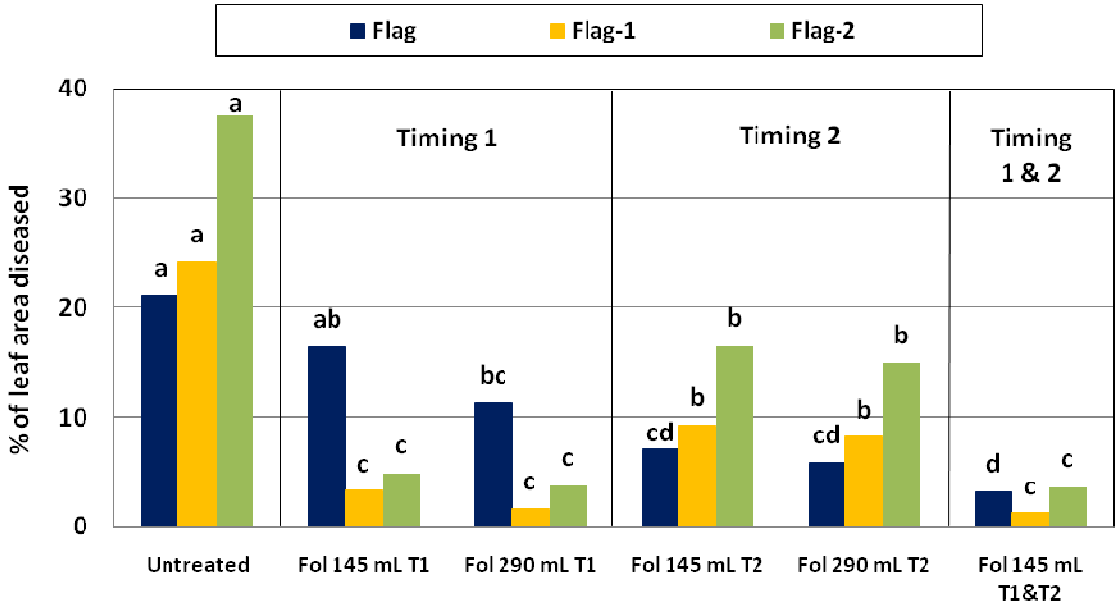
Trial number: **NGA0817**

Site: **'Inglewood Forest' Ashley**

Co-operators: **Mark and Trish Winter**

		Crop stage (GS)	Stripe rust leaf area diseased
Timing 1:	27/08/2008	32	Nil
Timing 2:	11/09/2008	41-49	0.2-1.7% on Flag-1 and -2

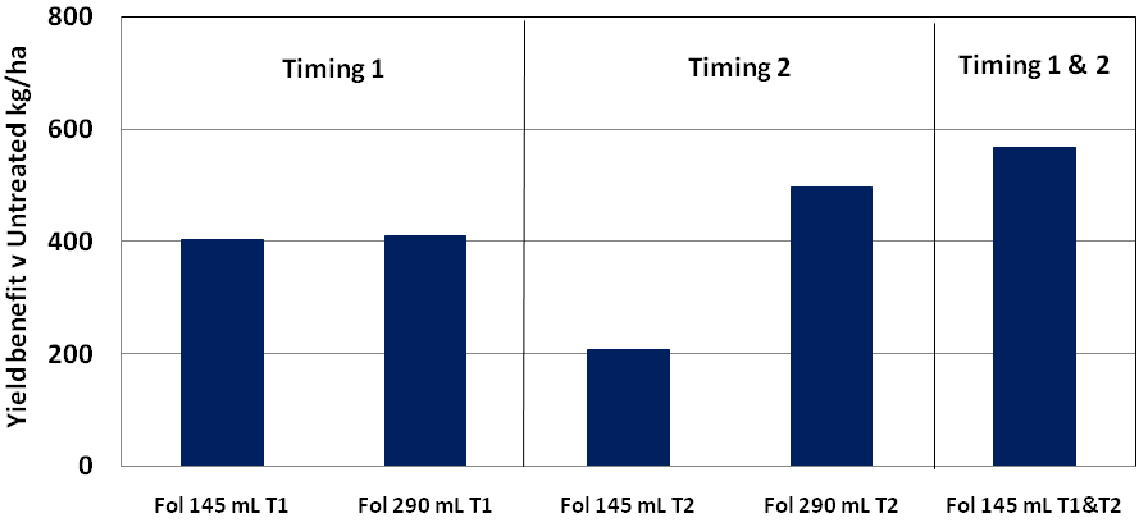
Leaf area affected by stripe rust at 27 DAA1/ 12 DAA2



Treatments sharing the same letter (on same leaf) are not significantly different
Fol 145 mL = Folicur at 145 mL/ha

- High disease incidence (stripe rust present on 98-100% of top 3 leaves in Untreated) combined with high disease severity
- T1 application (~ when Flag-2 emerging) - very effective on Flag-1 and F-2 but less effective on Flag
- Small dose response to Folicur rate on Flag leaf severity from T1 application
- T2 application (Flag fully out) - less effective than T1 on Flag-1 and F-2 but more effective on Flag. NB little or no disease present on Flag or F-1 when T2 applied
- Two spray program resulted in least disease on all 3 leaves

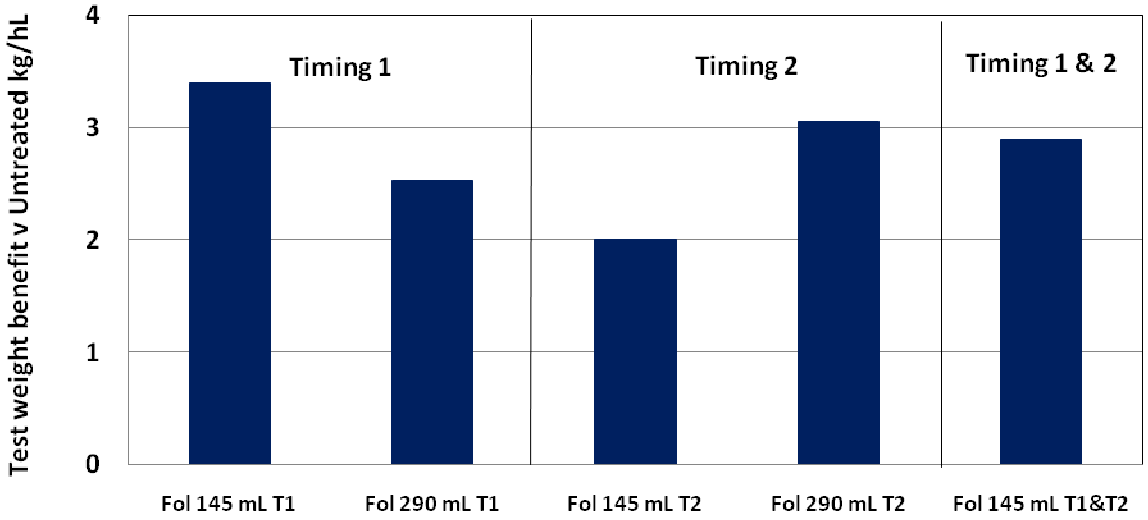
Yield impact



No significant difference in yield between any treatment and the Untreated
Fol 145 mL = Folicur at 145 mL/ha, Untreated yield: 2606 kg/ha

- Clear trend to improved yield from all fungicide treatments
- Mean yield benefit 16% (range 8-22%)
- No clear rate response or difference between T1 and T2

Test weight impact



No significant difference in test weight between any treatment and the Untreated
Fol 145 mL = Folicur at 145 mL/ha
Untreated test weight: 67 kg/hL (feed quality), all fungicide treatments eligible for GP

- Clear trend to improved test weight from all fungicide treatments
- Mean benefit 2.8 kg/hL (range 2-3.4 kg/hL)
- No clear rate response or difference between T1 and T2

Key messages

- High disease pressure in site ~30 km NW of Moree
- Both application timings provided useful disease suppression but on different leaves
- Two spray program was necessary for good disease control on all top 3 leaves
- T1 application provided similar yield, grain quality and economic benefits to T2 even under high and prolonged disease pressure
- Two spray approach provided largest economic benefit (see multi-trial summary) but a single low rate T1 spray still provided ~90% of two spray benefit

Stripe rust management, Hermitage Research Station October 2007

H45 (very susceptible) with full rate fungicide applied at ~GS32

Untreated H45