

Trial 4: HYC Wheat Disease Management (FAR VIC W22-04-1) cv Big Red

Key Points:

- In low yielding trials all fungicide treatments were significantly higher yielding than the untreated, however there were no significant differences between the different strategies based on 1 spray, 2 sprays or 4 units of fungicide.
- In line with previous seasons Big Red was relatively disease resistant to Septoria tritici blotch (STB) and did not suffer from the new strain of stripe rust to the same extent as RGT Cesario.
- Therefore, going forward at present, one – two units of fungicide should be sufficient to combat STB susceptibility in 2023 as these were the most cost-effective control programmes under very high disease pressure in 2022.
- There were no significant differences in grain quality as a result of fungicide treatment.

Treatments:

The cultivar Big Red was evaluated with five levels of fungicide input:

6. Untreated
7. 1 unit of fungicide – GS39
8. 2 units of fungicide – GS32 & GS39
9. 2 units of fungicide – GS32, GS55 (straddle approach)
10. 4 units of fungicide – Flutriafol at sowing, GS31, GS39 and GS59

Table 1. Yield (t/ha), % Site Mean and grain quality, protein (%), test weight (kg/HL) & screenings (%).

	Yield			Quality				
	Yield (t/ha)		% of Mean	Protein (%)		Test Weight (kg/hl)		Screenings (%)
Untreated	6.77	b	91.8	10.4	-	78.8	-	2.9
1F Flag Leaf Approach	7.48	a	101.5	10.0	-	80.0	-	2.4
2F Standard Approach	7.59	a	102.9	10.1	-	80.1	-	2.9
4F Full Protection	7.68	a	104.2	9.9	-	80.1	-	2.5
2F Straddle Approach	7.35	a	99.7	10.0	-	80.1	-	2.8
Mean	7.37		100.0	10.1		79.8		2.7
LSD 0.05	0.47		6.34	ns		ns		ns
P Val	0.009		0.009	0.593		0.202		0.627
CV	4.11		4.1	4.5		1.1		21.1

Table 2. Details of the management levels (kg, g, ml/ha).

Sowing date:		28 April				
Seed Rate:		180 Seeds/m2				
Sowing Fertiliser:		100kg MAP				
Seed Treatment:		Vibrance & Gaucho				
Grazing:		Nil				
Nitrogen:	13 July	50kg N/ha				
	5 Sept	100kg N/ha				
PGR:	GS30	Moddus Evo 100ml/ha + Errex 650ml/ha				
	GS32	Moddus Evo 100ml/ha + Errex 650ml/ha				
		Untreated	1 Fungicide Unit	2 Fungicide Units	4 Fungicide Units	Straddle approach
Fungicide:	GS00	---	---	---	Systiva	---
	GS31	---	---	Prosaro 300ml/ha	Prosaro 300ml/ha	---
	GS33	---	---	---	---	FAR F1-19 750ml/ha
	GS39	---	FAR F1-19 750ml/ha	FAR F1-19 750ml/ha	FAR F1-19 750ml/ha	---
	GS55	---	---	---	---	Opus 500ml/ha
	GS59-61	---	---	---	Opus 500ml/ha	---