

management. In this trial, the standard fungicide regime was sufficient to suppress disease, while lodging and head loss were minimal at the site, negating the need for canopy management through plant growth regulators or defoliation. While the 6 row barley showed promise, the winter barleys that were tested have a maturity that is too long for WA and need to flower earlier in a WA environment.

#### Trial 4. HVC Disease Management germplasm interaction

**Objective:** To develop profitable and sustainable approaches to disease management in HRZ barley.

**Key Messages:**

- Fungicide management had little to no influence on grain quality and yield in Planet in 2021 despite low levels of disease in the plots.
- These data is in contrast to cool longer season HRZ environments where the addition of an SDHI or more robust chemistry is providing large yield increases.
- Caution should be taken when interpreting single site data. Planet is very susceptible to disease and single site data needs to be combined with other sites and environments to determine where and when we are most likely to achieve a yield response to increased fungicide inputs.

**Treatments:** 4 fungicide management levels applied to RGT Planet.

**Table 3.** Influence of management strategy of wheat grain yield (t/ha) and Protein (%).

Treatment				Yield		Protein	
	GS00	GS31	GS39-49	GS59	t/ha	%	
1	---	---	---	---	7.27	-	9.6 -
2	Systiva	Prosaro 300ml	Radial 840ml	---	7.41	-	9.7 -
3	Systiva	Prosaro 300ml	Radial 840ml	Opus 500ml	7.80	-	9.6 -
4	---	Prosaro 300ml	Aviator Xpro 420ml	---	7.52	-	9.7 -
5	---	---	Aviator Xpro 420ml	---	7.55	-	9.5 -
6	---	---	FAR F1-19 750ml/ha	---	7.68	-	9.7 -
7	---	---	Radial 840ml	---	7.48	-	9.8 -
8	---	Prosaro 300ml	---	---	7.45	-	9.9 -
9	---	Tilt 500mL	---	---	7.84	-	10.0 -
10	Systiva	---	Radial 840ml	---	7.27	-	9.6 -
11	---	Prosaro 300ml	Radial 840ml	---	7.67	-	10.0 -
12	---	Prosaro 300ml	Aviator Xpro 420ml	Opus 500ml	8.39	-	9.5 -
13	---	Aviator Xpro 420ml	Radial 840ml	---	8.24	-	9.6 -
14	---	Prosaro 150ml	Radial 420ml	---	8.32	-	9.6 -
15	Systiva	Prosaro 300ml	Aviator Xpro 420ml	Opus 500ml	8.14	-	9.7 -
16	---	Prosaro 300ml	---	---	7.82	-	9.6 -
					<b>7.74</b>		<b>9.7</b>
LSD Yield P=0.05				0.78	<b>P Value</b>	ns	
LSD Protein P=0.05				10.1	<b>P Value</b>	ns	