Mean	6.7 a	6	.9 a	3.3 b
LSD Cultivar p = 0.05		0.6	P val	<0.001
LSD Management p = 0.05		1.6	P val	<0.001
LSD Cultivar x Man. P = 0.05		1.6	P val	0.006

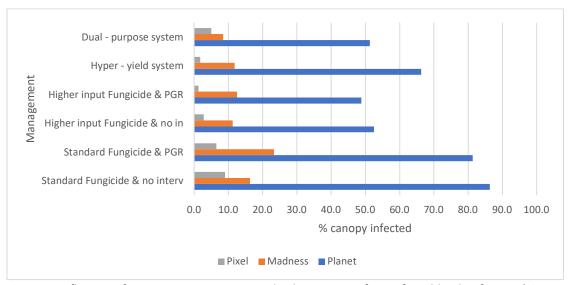


Figure 1. Influence of management strategy and cultivar on net form of net blotch infection (% canopy infected), 22 October 2021. LSD (p = 0.05) = 12.6, P value = 0.004 for the 2-way interaction between management and cultivar.

Trial 4. HYC Disease Management germplasm interaction

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

Key messages:

- Yields ranged from 2.75 to 6.16t/ha under different disease management strategies.
- The addition of an SDHI to fungicide program had the largest impact on yield in Planet.
- The application of Systiva on the seed under high disease pressure in this example suggests it is still having good efficacy in the lower SE.
- Quality results also were affected, disease managed plots had higher grain screenings than unmanaged plots.

Treatments: 16 fungicide management levels applied to Planet.

Table 1. Fungicide treatments applied to Planet sowing date 1 at Millicent 2021.

	Sow	GS31	GS39-49	GS59	Grain Yield t/ha	
1					2.75	g
2	Systiva	Prosaro 300 mL/ha	Radial 840 mL/ha		5.47	a b
3	Systiva	Prosaro 300 mL/ha	Radial 840 mL/ha	Opus 500 mL/ha	4.93	bc

4		Prosaro 300 mL/ha	Aviator Xpro 420 mL/ha		4.42	cd
5	,		Aviator Xpro 420 mL/ha		3.95	d e
6	6 FAR F1-1		FAR F1-19 750ml/ha		4.02	d e
7	'		Radial 840 mL/ha		3.10	fg
8		Prosaro 300 mL/ha			4.01	d e
9		Tilt 500 250 mL/ha			3.11	fg
10	Systiva		Radial 840 mL/ha		5.15	bc
11		Prosaro 300 mL/ha	Radial 840 mL/ha		4.04	d e
12	!	Prosaro 300 mL/ha	Aviator Xpro 420 mL/ha	Opus 500 mL/ha	4.58	cd
13		Aviator Xpro 420 mL/ha	Radial 840 mL/ha		4.90	bc
14		Prosaro 300 mL/ha	Radial 420 mL/ha		3.61	ef
15	Systiva Systiva	Prosaro 300 mL/ha	Aviator Xpro 420 mL/ha	Opus 500 mL/ha	6.16	а
				Mean	4.20	
				LSD	0.76	
				P Val	<0.001	

Table 2. Grain yield and quality (protein (%), test weight (kg/hL), retention (%) and screenings (%))

		Protein	Test weight	Retention	Screenings	
	Fungicide Management	%	Kg/hL	%>2.2mm	%<2.2mm	
1.	Untreated	11.1 -	62.7 -	70.7 bc	10.2 ab	
2.		12.1 -	67.1 -	83.5 ab	5.3 ef	
3.		12.0 -	66.6 -	82.6 ab	5.5 ef	
4.		11.8 -	65.4 -	81.1 ab	6.3 de	
5.		8.9 -	46.6 -	58.9 c	5.6 ef	
6.		12.2 -	61.2 -	80.9 ab	6.5 de	
7.		11.6 -	61.9 -	74.7 ab	9.1 abc	
8.		11.5 -	65.5 -	72.1 abc	9.3 abc	
9.		12.5 -	65.6 -	73.3 abc	9.0 bc	
10.		11.8 -	67.3 -	84.3 ab	4.8 ef	
11.		11.8 -	65.3 -	75.7 ab	8.1 cd	
12.		11.9 -	66.0 -	81.7 ab	5.9 ef	
13.		11.8 -	65.7 -	80.8 ab	6.4 de	
14.		12.3 -	65.5 -	75.0 ab	8.5 bc	
15.		11.3 -	66.4 -	86.5 a	4.3 f	
	Mean	11.6	63.8	77.0	7.2	
	LSD	2.4	11.2	14.6	1.8	
	P Val	0.472	0.109	0.049	<0.001	