## Trial 4. HYC Disease Management germplasm interaction

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

## Key Points:

- There was limited visual disease symptoms at this site in 2020, however a significant yield response to fungicide was measured. Untreated achieved an average yield of 5.51t/ha.
- A single application of Folicur at GS31 increased yield by 0.35t/ha, and an additional application of Opus at GS39 49 did not offer any additional yield benefit.
- The treatment combining Systiva seed dressing, Folicur at GS31 and Radial at GS39-49 yielding 0.58t/ha higher than the untreated control but not significantly greater than the single application.
- The benefits of maintaining a green leaf during grain fill even in the absence of significant disease required further investigation.
- Later fungicide timings are consistently influencing grain quality in malting barley across the high rainfall zone and even in the absence of a yield response should not be overlooked.

 Table 4. Influence of management strategy and variety of wheat grain yield (t/ha).

 Treatment
 RGT Planet
 HV8 Nitro

Treatments: 4 fungicide management levels applied to 2 varieties

Treatment			RGT Planet	HV8 Nitro	Mean
GS00	G\$31	GS39-49	Yield (t/ha)	Yield (t/ha)	Yield (t/ha)
			5.54 -	5.48 -	5.51 c
	Folicur 290ml/ha		5.97 -	5.76 -	5.86 ab
	Folicur 290ml/ha	Opus 500ml/ha	5.75 -	5.40 -	5.57 bc
Systiva	Folicur 290ml/ha	Radial 840ml/ha	6.02 -	6.17 -	6.09 a
Mean			5.82 -	5.70 -	5.76
LSD Variety P=0.05		0.14	P Value	0.090	
LSD Fungicide P=0.05		0.32	P Value	0.008	
LSD Variety x Fungicide P=0.05		0.28	P Value	0.088	
CV			3.18		