Trial 1 HYC Barley G.E.M Trial Series- Time of Sowing 1 (FAR VIC B23-03-01)

Key Points:

- The 2023 G.E.M trials looked to investigate the agronomic and economic influence of four management approaches- 'low' input (minimalist approach), 'high' input (no expenses spared), 'strategic' input (tailored approach based on pre-season forecasts/expectations) and 'tactical' (tailored approach based on strategic with in-season adjustment guided by climate and in-season triggers) on 6 varieties (details in table 10).
- There was no interaction between variety and management with all varieties responding similarly. Low input, which was characterised by cheaper fungicides, no PGR and less applied nitrogen, yielding significantly less than the other management approaches (Table 1).
- On average the quick developing but adaptable variety Rosalind yielded best (7.19 t/ha) with the slower developing spring barley Laureate also preforming strongly (6.98 t/ha) (Figure 1).
- RGT Planet and Neo suffered from high Net Form Net Blotch infection with untreated plots recording 98% and 55% of plot infected respectively. Robust fungicide in strategic and high input managements significantly reduced disease levels to less than 10% of plot infected in Neo. While still reducing infection in RGT Planet, NFNB infection was still between 88% and 94% plot severity (Figure 2).
- High grain protein results meant no treatment achieved malting grade (Table 3).
- Although there was no interaction between variety and management, economic differences have been observed when completing a partial net margin analysis. Varieties that showed very little yield differences between management, such as Pixel, meant reducing total operational costs under 'low input' was most economical (Table 7).
- There was a yield trend in Neo and RGT Planet to yield less where less fungicide input had been implemented and higher disease was found. Therefore, the economic analysis shows that the additional expenditure in the 'High' input was justified. An additional margin of \$160/ha in Neo and \$581/ha in RGT Planet was made by shifting from 'Low' to 'High' input.

Treatments:

Six cultivars (RGT Planet, Rosalind, Laureate, Minotaur, Neo and Pixel) were tested under four different management programs;

- Low Input- Two units of fungicide based on Tilt 500EC (propiconazole) applied at 500mL/ha (250g ai/ha) and Folicur 430SC (tebuconazole) applied at 290mL/ha (125g ai/ha) and 150kg N/ha.
- 2. High Input- Four units of fungicide (Systiva seed treatment plus foliar fungicides GS31, GS39, GS59), 225kg N/ha, PGR.
- 3. HYC Strategic Input This management strategy was set out at the start of the season based on crop inputs that had been associated with higher yields in previous HYC research for that variety.
- 4. HYC Tactical Input This was in essence the HYC strategic approach but modified to take account of particular variety agronomic traits such as disease resistance, grain quality or straw strength (Standing power).

The exact crop inputs applied to the different varieties and crop management regimes can be found in table 10.

Table 1. Influence of management strategy and cultivar on grain yield (t/ha).

						Yield (t/	ha)				
		Low In	put	High In	put	Strate	gic	Tacti	cal	Mea	n
1.	RGT Planet	5.19	-	7.68	-	5.85	-	7.07	-	5.96	С
2.	Rosalind	6.08	-	7.36	-	6.27	-	7.19	-	7.19	а
3.	Laureate	5.97	-	6.28	-	6.75	-	5.66	-	6.98	а
4.	Minotaur	6.61	-	7.05	-	6.14	-	6.46	-	6.25	bc
5.	Neo	6.31	-	7.48	-	6.65	-	6.92	-	6.25	bc
6.	Pixel	7.40	-	7.10	-	7.05	-	6.91	-	6.49	b
Me	an	5.99	b	6.72	а	6.98	а	6.88	а	6.64	1
LSD	Cultivar P=0.05			0.31		P	Valu	ie		< 0.001	
LSD	Management P=0.	.05		0.40		P	Valu	ie		< 0.001	
LSD	Cultivar X Man. P=	0.05		ns		P	Valu	ie		0.283	

8.00 а а 7.00 bc bc С 6.00 5.00 Yield (t/ha) 4.00 3.00 2.00 1.00 0.00 **RGT Planet** Rosalind Laureate Minotaur Neo Pixel Cultivar

Figure 1. Influence of cultivar on grain yield (t/ha).

Table 2. Influence of management strategy and cultivar on harvest index (%).

		Harvest Index (%)						
		Low Input	High Input	Strategic	Tactical	Mean		
1.	RGT Planet	32.4 -	42.2 -	33.7 -	43.6 -	37.6 a		
2.	Rosalind	35.6 -	37.4 -	33.6 -	40.1 -	40.5 a		
3.	Laureate	42.0 -	32.5 -	30.2 -	30.4 -	38.8 a		
4.	Minotaur	40.3 -	38.0 -	32.7 -	33.1 -	32.6 b		
5.	Neo	43.0 -	43.4 -	38.7 -	35.6 -	41.0 a		
6.	Pixel	39.2 -	41.1 -	41.4 -	32.5 -	32.9 b		
Me	an	35.1 -	36.8 -	39.5 -	37.4 -	37.2		
LSD	Cultivar P=0.05		3.8	P Value	!	<0.001		
LSD	Management P=0.	05	ns	P Value	!	0.164		
LSD Cultivar X Man. P=0.05			ns	P Value	1	0.353		

Table 3. Influence of management strategy and cultivar on harvest protein (%).

					Protei	n (%)				
		Low Inpu	ıt High In	put	Strat	egic	Tactio	al	Me	an
1.	RGT Planet	12.6 -	13.3	-	13.5	-	12.2	-	12.9	d
2.	Rosalind	13.5 -	13.3	-	14.3	-	12.3	-	13.4	b
3.	Laureate	12.6 -	12.8	-	13.3	-	13.3	-	13.1	cd
4.	Minotaur	12.9 -	13.7	-	13.6	-	13.6	-	13.7	а
5.	Neo	13.2 -	12.8	-	12.2	-	12.7	-	12.4	е
6.	Pixel	13.9 -	13.0	-	12.7	-	13.2	-	13.2	bc
Me	an	13.0 b	13.6	а	12.8	b	13.0	b	13	.1
LSD	Cultivar P=0.05		0.2			P Val	ue		<0.001	
LSD	Management P=0.	05	0.3			P Val	ue		< 0.001	
LSD	Cultivar x Man. P=	0.05	ns			P Val	ue		0.898	

Table 4. Influence of management strategy and cultivar on harvest test weights (kg/hL).

		Test Weights (kg/hL)							
		Low Input	High Input	Strategic	Tactical	Mean			
1.	RGT Planet	65.5 -	66.9 -	67.3 -	67.4 -	66.0 c			
2.	Rosalind	65.7 -	66.5 -	67.6 -	66.5 -	66.5 b			
3.	Laureate	66.6 -	65.6 -	68.4 -	61.7 -	65.2 d			
4.	Minotaur	66.3 -	65.0 -	67.6 -	61.7 -	67.7 a			
5.	Neo	66.3 -	65.3 -	66.6 -	62.9 -	66.8 b			
6.	Pixel	66.5 -	64.9 -	66.7 -	63.0 -	62.3 e			
Me	an	65.5 c	65.5 bc	66.3 a	65.8 b	65.8			
LSC	Cultivar P=0.05		0.5	P Value	•	<0.001			
LSC	Management P=0	.05	0.3	P Value	•	<0.001			
LSC	Cultivar X Man. P	=0.05	ns	P Value	:	0.403			

Table 5. Influence of management strategy and cultivar on harvest retention (%).

				Retention (%)		
		Low Inpu	t High Inpu	t Strategic	Tactical	Mean
1.	RGT Planet	90.2 -	93.8 -	95.0 -	95.9 -	92.6 b
2.	Rosalind	93.5 -	93.6 -	95.2 -	95.2 -	93.9 ab
3.	Laureate	93.8 -	95.0 -	95.2 -	73.3 -	94.8 ab
4.	Minotaur	93.1 -	94.4 -	95.3 -	69.5 -	95.2 ab
5.	Neo	94.7 -	94.7 -	95.6 -	76.7 -	95.7 a
6.	Pixel	93.6 -	95.1 -	96.0 -	74.2 -	73.4 c
Me	an	90.6 -	90.4 -	91.7 -	91.1 -	90.9
LSD	Cultivar P=0.05		2.7	P Valu	ie	<0.001
LSD	Management P=0.	05	ns	P Valu	ie	0.484
LSD	Cultivar x Man. P=	0.05	ns	P Valu	ie	0.892

Table 6. Influence of management strategy and cultivar on harvest screenings (%).

			Scre	enings (%)		
		Low Input	High Input	Strategic	Tactical	Mean
1.	RGT Planet	3.2 -	1.9 -	1.7 -	2.0 -	2.8 b
2.	Rosalind	2.6 -	2.3 -	1.8 -	2.0 -	2.2 bc
3.	Laureate	2.3 -	2.6 -	2.1 -	5.3 -	2.3 bc
4.	Minotaur	3.0 -	2.5 -	1.8 -	5.4 -	1.9 c
5.	Neo	2.2 -	2.4 -	2.1 -	4.6 -	2.0 c
6.	Pixel	2.4 -	1.9 -	1.8 -	5.5 -	5.2 a
Mea	n	2.9 -	2.8 -	2.5 -	2.7 -	2.7
LSD	Cultivar P=0.05		0.6	P Value		<0.001
LSD	Management P=0.05		ns	P Value	ı	0.739
LSD	Cultivar x Man. P=0.05		ns	P Value		0.915

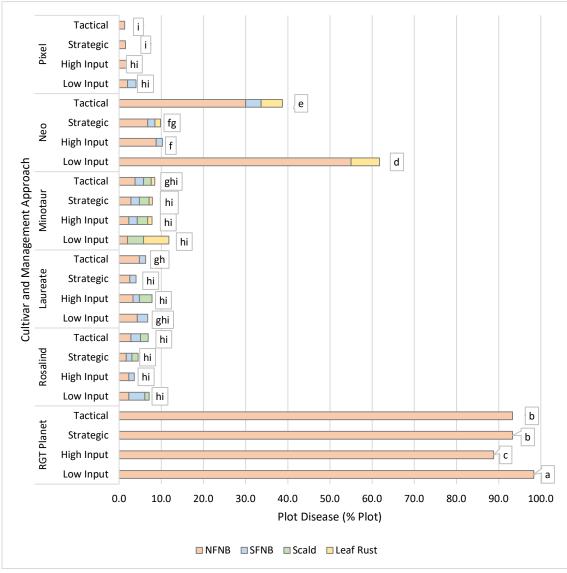


Figure 2. Influence of management strategy and cultivar on Net Form Net Blotch (NFNB), Spot Form Net Blotch (SFNB), Scald and Leaf Rust. Assessed 10 October 2023, GS75-80. Letters outside the end of bars refers to statistical difference for NFNB.

Table 7. Influence of management strategy (variable inputs only) and cultivar on system profitability Margin \$/ha (after N, F & PGR costs).

Fungicide strategy	Chemical costs + Application costs	Fertiliser costs + Application costs	Total (N, F, PGR) costs & application	Yield	Income	Margin
	\$/ha	\$/ha	\$/ha	t/ha	\$/ha	\$/ha
Laureate						
Low Input	\$25.90	\$215.65	\$241.56	5.97	\$1,893.44	\$1,651.88
High Input	\$127.62	\$323.48	\$451.10	6.28	\$1,991.71	\$1,540.61
Strategic	\$127.62	\$215.65	\$343.27	6.75	\$2,138.17	\$1,794.89
Tactical	\$100.09	\$248.26	\$348.35	5.66	\$1,794.22	\$1,445.87
Minotaur						
Low Input	\$25.90	\$215.65	\$241.56	6.61	\$2,095.37	\$1,853.81
High Input	\$127.62	\$323.48	\$451.10	7.05	\$2,234.22	\$1,783.12
Strategic	\$127.62	\$215.65	\$343.27	6.14	\$1,944.80	\$1,601.52
Tactical	\$50.82	\$248.26	\$299.08	6.46	\$2,046.24	\$1,747.16
Neo						
Low Input	\$25.90	\$215.65	\$241.56	6.31	\$1,999.64	\$1,758.08
High Input	\$127.62	\$323.48	\$451.10	7.48	\$2,369.58	\$1,918.48
Strategic	\$127.62	\$215.65	\$343.27	6.65	\$2,109.00	\$1,765.73
Tactical	\$59.88	\$248.26	\$308.15	6.92	\$2,194.59	\$1,886.45
Pixel						
Low Input	\$25.90	\$215.65	\$241.56	7.40	\$2,344.22	\$2,102.66
High Input	\$127.62	\$323.48	\$451.10	7.10	\$2,249.12	\$1,798.02
Strategic	\$127.62	\$215.65	\$343.27	7.05	\$2,233.27	\$1,889.99
Tactical	\$84.80	\$248.26	\$333.06	6.91	\$2,191.42	\$1,858.36
RGT Planet						
Low Input	\$25.90	\$215.65	\$241.56	5.19	\$1,645.23	\$1,403.67
High Input	\$127.62	\$323.48	\$451.10	7.68	\$2,435.51	\$1,984.41
Strategic	\$127.62	\$215.65	\$343.27	5.85	\$1,854.45	\$1,511.18
Tactical	\$100.09	\$248.26	\$348.35	7.07	\$2,241.19	\$1,892.84
Rosalind						
Low Input	\$25.90	\$215.65	\$241.56	6.08	\$1,926.73	\$1,685.17
High Input	\$127.62	\$323.48	\$451.10	7.36	\$2,332.49	\$1,881.39
Strategic	\$127.62	\$215.65	\$343.27	6.27	\$1,986.96	\$1,643.69
Tactical	\$100.09	\$248.26	\$348.35	7.19	\$2,278.60	\$1,930.25
				C+. 1.1		

Figures in green=most profitable approach, figure in red=least profitable approach. Refer to table 8 for pricing information.

Table 8. Input costs in economic analysis.

Product	Product type	Price
Opus	Fungicide	\$35.06/L
Prosaro	Fungicide	\$56.25/L
Aviator Xpro	Fungicide	\$58.46/L
Tilt 500	Fungicide	\$3.17/L
Folicur	Fungicide	\$14.90/L
Moddus Evo	PGR	\$84.95/L
Urea	Fertiliser	\$0.60/Kg

Grain price (BAR1: \$317.00) as of 16 February 2024 based off Geelong GrainCorp. Contractor rates factored in for application costs. Other costs such as seed sourcing and sowing, insurance, herbicides, insecticides, harvesting, insurance and MAP were not taken into consideration in this analysis as they were constant regardless of the management strategy used.



Figure 3. Influence of management strategy and cultivar on system profitability. Value outside the bar denotes margin (\$/ha) after N, F & PGR costs.

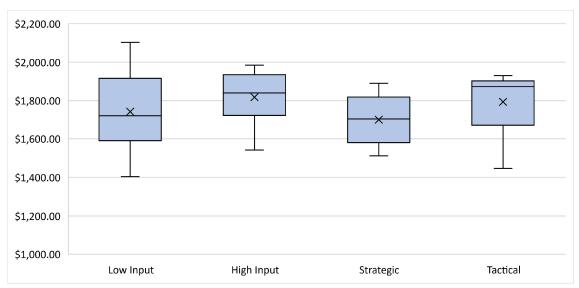


Figure 4. Graph representing the distribution of margin after N, F & PGR costs across the six varieties (\$/ha) under low, high, strategic and tactical management strategies.

Table 9. Active ingredients and chemical loading (g/L) for products used.

Name Active 1			Active 2		
Prothioconazole	150 g/L	Bixafen	75 g/L	EC	
Epoxiconazole	125 g/L			SC	
Prothioconazole	210 g/L	Tebuconazole	210 g/L	SC	
Fluxapyroxad	333 g/L			FS	
Propiconazole	500 g/L			EC	
Tebuconazole	430 g/L			SC	
Trinexapac-ethyl	250 g/L			DC	
	Prothioconazole Epoxiconazole Prothioconazole Fluxapyroxad Propiconazole Tebuconazole	Prothioconazole 150 g/L Epoxiconazole 125 g/L Prothioconazole 210 g/L Fluxapyroxad 333 g/L Propiconazole 500 g/L Tebuconazole 430 g/L	Prothioconazole 150 g/L Bixafen Epoxiconazole 125 g/L Prothioconazole 210 g/L Tebuconazole Fluxapyroxad 333 g/L Propiconazole 500 g/L Tebuconazole 430 g/L	Prothioconazole 150 g/L Bixafen 75 g/L Epoxiconazole 125 g/L Prothioconazole 210 g/L Tebuconazole 210 g/L Fluxapyroxad 333 g/L Propiconazole 500 g/L Tebuconazole 430 g/L	

Table 10. Trial inpu	t and manager	nent details.
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Sowing date: 29 April 2023 Harvest date: 220 seeds/m² Basal fertiliser: 29 Apr 100 kg/ha MAP Nitrogen: Low Input Strategic 150kg N/ha 150kg N/ha 150kg N/ha High Input Tactical PGR: Low Input Strategic GS30 Moddus Evo 0.20 L/ha GS33 Moddus Evo 0.20 L/ha High Input Tactical (except Minotaur GS30 Moddus Evo 0.20 L/ha Moddus Evo 0.20 L/ha GS33 Moddus Evo 0.20 L/ha Moddus Evo 0.20 L/ha Fungicide: Low Input High Input GS00 Systiva GS31 Tilt (0.5L/ha) Prosaro (0.3L/ha) GS39 Folicur (0.29L/ha) Aviator Xpro (0.5 L/ha) GS00	Table 10.	Trial input and	management d	letails.				
Seed rate: 200 seeds/m² Basal fertiliser: 29 Apr 100 kg/ha MAP Nitrogen: Low Input Strategic 150kg N/ha 150kg N/ha 150kg N/ha High Input Tactical 225kg N/ha 175kg N/ha PGR: Low Input Strategic GS30 Moddus Evo 0.20 L/ha GS33 Moddus Evo 0.20 L/ha GS30 Moddus Evo 0.20 L/ha Moddus Evo 0.20 L/ha GS31 Moddus Evo 0.20 L/ha Moddus Evo 0.20 L/ha Fungicide: Low Input High Input GS31 Tilt (0.5L/ha) Prosaro (0.3L/ha) GS39 Folicur (0.29L/ha) Aviator Xpro (0.5 L/ha) GS59-61 Opus (0.5L/ha) GS31 Prosaro (0.3L/ha) See below GS31 Prosaro (0.3L/ha) See below GS39 Aviator Xpro (0.5 L/ha) See below GS39 Aviator Xpro (0.5 L/ha) See below GS39 Aviator Xpro (0.5 L/ha) See below	Sowing	date:			29 Apri	l 2023		
Nitrogen: Low Input Strategic 150kg N/ha 150kg N/ha 150kg N/ha High Input Tactical 225kg N/ha 175kg N/ha PGR: Low Input Strategic GS30 Moddus Evo 0.20 L/ha GS33 Moddus Evo 0.20 L/ha GS30 Moddus Evo 0.20 L/ha Moddus Evo 0.20 L/ha Moddus Evo 0.20 L/ha Moddus Evo 0.20 L/ha Moddus Evo 0.20 L/ha Fungicide: Low Input High Input GS31 Tilt (0.5L/ha) Prosaro (0.3L/ha) GS39 Folicur (0.29L/ha) Aviator Xpro (0.5 L/ha) GS59-61 Opus (0.5L/ha) GS31 Prosaro (0.3L/ha) See below GS39 Aviator Xpro (0.5 L/ha) See below	Harvest	date:			22 Decem	ber 2023		
Nitrogen: Low Input Strategic 150kg N/ha 150kg N/ha 150kg N/ha High Input Tactical 225kg N/ha 175kg N/ha PGR: Low Input Strategic GS30 Moddus Evo 0.20 L/ha GS33 Moddus Evo 0.20 L/ha Moddus Evo 0.20 L/ha Moddus Evo 0.20 L/ha GS30 Moddus Evo 0.20 L/ha Moddus Evo 0.20 L/ha Fungicide: Low Input High Input GS33 Tilt (0.5L/ha) Prosaro (0.3L/ha) GS31 Tilt (0.5L/ha) Prosaro (0.3L/ha) GS59-61 Opus (0.5L/ha) Strategic Tactical GS31 Prosaro (0.3L/ha) See below GS33 Aviator Xpro (0.5 L/ha) See below GS39 Aviator Xpro (0.5 L/ha) See below GS39 Aviator Xpro (0.5L/ha) See below	Seed rat	te:			200 see	ds/m²		
150kg N/ha	Basal fe	rtiliser:	29 Apr		100 kg/h	па МАР		
150kg N/ha								
High Input 175kg N/ha 175	Nitroge	n:		Low	Input	Stra	itegic	
PGR: Low Input Strategic				150kg	g N/ha	150k	g N/ha	
PGR: Low Input Strategic GS30 Moddus Evo 0.20 L/ha GS33 Moddus Evo 0.20 L/ha High Input Tactical (except Minotaur GS30 Moddus Evo 0.20 L/ha Moddus Evo 0.20 L/ha GS33 Moddus Evo 0.20 L/ha Moddus Evo 0.20 L/ha Fungicide: Low Input High Input GS00 Systiva GS31 Tilt (0.5L/ha) Prosaro (0.3L/ha) GS39 Folicur (0.29L/ha) Aviator Xpro (0.5 L/ha) GS59-61 Opus (0.5L/ha) GS31 Prosaro (0.3L/ha) See below GS31 Prosaro (0.3L/ha) See below GS39 Aviator Xpro (0.5 L/ha) See below GS59-61 Opus (0.5L/ha)				High	Input	Tac	tical	
GS30				225kį	g N/ha	175k	g N/ha	
GS30								
GS33	PGR:			Low	Input	Stra	itegic	
High Input Tactical (except Minotaur			GS30	- -		Moddus E	vo 0.20 L/ha	
GS30 Moddus Evo 0.20 L/ha Moddus Evo 0.20 L/ha			GS33			Moddus E	vo 0.20 L/ha	
Fungicide: Low Input High Input GS00 Systiva GS31 Tilt (0.5L/ha) Prosaro (0.3L/ha) GS39 Folicur (0.29L/ha) Aviator Xpro (0.5 L/ha) GS59-61 Opus (0.5L/ha) Strategic Tactical GS00 GS31 Prosaro (0.3L/ha) See below GS39 Aviator Xpro (0.5 L/ha) See below GS59-61 Opus (0.5L/ha) Tactical fungicide Tactical fungicide				High	Input	Tactical (exc	ept Minotaur)	
Fungicide: Low Input High Input GS00 Systiva GS31 Tilt (0.5L/ha) Prosaro (0.3L/ha) GS39 Folicur (0.29L/ha) Aviator Xpro (0.5 L/ha) GS59-61 Opus (0.5L/ha) Strategic Tactical GS00 GS31 Prosaro (0.3L/ha) See below GS39 Aviator Xpro (0.5 L/ha) See below GS59-61 Opus (0.5L/ha) Tactical fungicide			GS30				vo 0.20 L/ha	
GS00 Systiva GS31 Tilt (0.5L/ha) Prosaro (0.3L/ha) GS39 Folicur (0.29L/ha) Aviator Xpro (0.5 L/ha) GS59-61 Opus (0.5L/ha) Strategic Tactical GS00 GS31 Prosaro (0.3L/ha) See below GS39 Aviator Xpro (0.5 L/ha) See below GS59-61 Opus (0.5L/ha) Tactical fungicide			GS33	Moddus Evo 0.20 L/ha Mod		Moddus E	vo 0.20 L/ha	
GS00 Systiva GS31 Tilt (0.5L/ha) Prosaro (0.3L/ha) GS39 Folicur (0.29L/ha) Aviator Xpro (0.5 L/ha) GS59-61 Opus (0.5L/ha) Strategic Tactical GS00 GS31 Prosaro (0.3L/ha) See below GS39 Aviator Xpro (0.5 L/ha) See below GS59-61 Opus (0.5L/ha) Tactical fungicide								
GS31 Tilt (0.5L/ha) Prosaro (0.3L/ha) GS39 Folicur (0.29L/ha) Aviator Xpro (0.5 L/ha) GS59-61 Opus (0.5L/ha) Strategic Tactical GS00 GS31 Prosaro (0.3L/ha) See below GS39 Aviator Xpro (0.5 L/ha) See below GS59-61 Opus (0.5L/ha)	Fungicio	Ingicide: Low Input High Input				Input		
GS39 Folicur (0.29L/ha) Aviator Xpro (0.5 L/ha)						Sys	stiva	
GS59-61 Opus (0.5L/ha) Strategic Tactical GS00 GS31 Prosaro (0.3L/ha) See below GS39 Aviator Xpro (0.5 L/ha) See below GS59-61 Opus (0.5L/ha) Tactical fungicide			GS31	Tilt (0	Tilt (0.5L/ha) Prosaro (0.3L/			
Strategic Tactical GS00 GS31 Prosaro (0.3L/ha) See below GS39 Aviator Xpro (0.5 L/ha) See below GS59-61 Opus (0.5L/ha) Tactical fungicide			GS39	Folicur (0.29L/ha)	Aviator Xp	ro (0.5 L/ha)	
GS00 GS31 Prosaro (0.3L/ha) See below GS39 Aviator Xpro (0.5 L/ha) See below GS59-61 Opus (0.5L/ha) Tactical fungicide			GS59-61			Opus (0.5L/ha)	
GS00 GS31 Prosaro (0.3L/ha) See below GS39 Aviator Xpro (0.5 L/ha) See below GS59-61 Opus (0.5L/ha) Tactical fungicide								
GS31 Prosaro (0.3L/ha) See below GS39 Aviator Xpro (0.5 L/ha) See below GS59-61 Opus (0.5L/ha) Tactical fungicide				Stra	tegic	Tac	tical	
GS39 Aviator Xpro (0.5 L/ha) See below GS59-61 Opus (0.5L/ha) Tactical fungicide			GS00					
GS59-61 Opus (0.5L/ha) Tactical fungicide			GS31	Prosaro	(0.3L/ha)	See	below	
Tactical fungicide			GS39	Aviator Xpr	o (0.5 L/ha)	See	below	
<u> </u>			GS59-61	Opus ((0.5L/ha)	_		
<u> </u>								
power and the second se				Tactical fungi	icide			
KGI Planet Rosalind Laureate Minotaur Neo Pixel		RGT Planet	Rosalind	Laureate	Minotaur	Neo	Pixel	
	GS31				Tilt (0.5L/ha)		Tilt (0.5L/ha)	
(0.3L/ha) (0.3L/ha) (0.5L/ha)								
	GS39	•			•		Aviator Xpro	
(0.5 L/ha) (0.5 L/ha) (0.5 L/ha) (0.5 L/ha) (0.29L/ha) (0.5 L/ha)		(0.5 L/ha)	(0.5 L/ha)	(0.5 L/ha)	(0.5 L/ha)	(0.29L/ha)	(0.5 L/ha)	
GS59								
61	61							