

SC21529PH (Newton)	2 row, winter	47.5	15.0
Etencil	6 row, winter	247.5	12.5
Pixel	6 row, winter	80.0	57.5
Memento	2 row, winter	55.0	1.5
SC56325QH	2 row, winter	45.0	7.5
SC15643QH	2 row, winter	127.5	67.5
IDILIC	2 row, winter	60.0	35.0
943PH (Pulco)	6 row, winter	30.0	17.5
COCCINEL	6 row, winter	52.5	45.0
Visual	6 row, winter	35.0	17.5

Trial 2. HYC Elite Screen

Objective: To examine the yield potential of new winter and spring germplasm grown under HYC Management packages against spring and winter controls in the traditional late April/early May sowing window.

Key messages:

- The highest yielding spring cultivar at 9.76t/ha yielded similar to the control RGT Planet at 8.72t/ha while Rosalind was lower yield at 8.35t/ha
- The highest yielding 2 row and 6 row winter barley was Newton at 7.13t/ha and Pixel 7.43t/ha respectively (shaded green in table below).
- Proteins were in the range for malting however test weights were low suggesting some weather damage these ranged from 63.3 – 68.3 in spring cultivars, and 60.4 – 67.7 in winter cultivars.
- The phenology responses range from the earliest flowering in the spring cultivars Rosalind on the 11th September and Planet on the 19th September.
- Winter cultivars developed slower with the fastest winter being Urambie flowering on the 30 September through to the 17th October in Newton
- Despite flowering at a more optimum time for Millicent yields were lower from later flowering. This was due to a combination of reduced light limiting potential yield and head loss and lodging were the major causes of yield loss in the winter cultivars.

Treatments: (24 elite lines tested under HYC High input management (full foliar fungicide program (Systiva & 3 foliar fungicides – GS31, GS39 & GS61) and PGR management applied as Moddus 200ml @ GS30 - GS32

Table 1. Grain yield and quality (protein (%) and test weight (kg/hL) and screenings (%))

Variety		Grain yield and quality									
		Yield		Protein		Test weight		Screenings		Retention	
		t/ha		%		Kg/hL		% <2.2mm		% >2.2mm	
1.	RGT Planet	8.72	abc	11.0	efg	64.5	cde	2.3	bcd	89.1	c-g
2.	Rosalind	8.35	bcd	11.6	cde	66.0	b	2.4	bcd	87.8	fg
3.	Cassiopee	6.35	h-k	13.2	a	68.0	a	1.3	def	94.4	ab
4.	AGTB0213	6.81	e-i	11.6	c-f	67.6	a	1.0	def	94.0	ab
5.	AGTB0245	9.76	a	11.0	efg	63.5	efg	2.3	bcd	88.4	d-g
6.	HV8 Nitro	7.65	b-h	11.3	d-g	67.6	a	1.4	def	92.8	a-d

7.	WI4592	7.34	c-h	11.8	bcd	68.3	a	1.2	def	93.1	abc
8.	Laureate	7.82	b-g	10.9	fg	64.1	ef	1.1	def	92.8	a-e
9.	Sanette	7.52	c-h	11.6	c-f	63.3	fg	2.4	bcd	86.9	fg
10.	Traveler	7.87	b-f	11.6	cde	66.0	b	0.5	ef	96.4	a
11.	GSP-17-27-B	8.17	b-e	11.6	c-f	65.7	b	1.9	b-e	90.3	b-f
12.	GSP-18-44-B	9.04	ab	11.6	c-f	64.2	def	2.2	bcd	88.2	efg
13.	Operette	7.59	c-h	11.4	d-g	65.9	b	1.4	def	93.3	abc
14.	Madness	6.76	f-i	11.4	c-g	67.4	a	0.6	ef	93.8	ab
15.	Newton	7.13	d-h	12.4	b	66.0	b	0.6	ef	95.2	a
16.	Etencil	3.96	m	10.9	efg	65.2	bcd	1.5	c-f	90.3	b-f
17.	Pixel	7.43	c-h	10.8	g	63.4	fg	0.4	f	93.8	ab
18.	Memento	6.33	h-k	11.9	bcd	67.7	a	0.5	ef	95.5	a
19.	SC56325QH	4.99	klm	12.1	bc	67.5	a	0.7	ef	95.7	a
20.	SC15643QH	4.28	lm	11.8	bcd	62.6	g	5.1	a	76.7	i
21.	IDILIC	5.33	j-m	10.8	g	65.6	b	1.8	b-e	88.1	fg
22.	943PH (Pulco)	4.72	lm	10.9	fg	65.1	bcd	0.3	f	97.0	a
23.	COCCINEL	5.59	i-l	11.3	d-g	60.4	h	2.8	bc	85.6	gh
24.	Urambie	6.47	g-j	11.9	bcd	65.3	bc	2.8	b	81.9	h
Mean		6.92		11.51		65.45		1.60		90.89	
LSD		1.39		0.73		1.04		1.38		4.58	
P Val		<0.001		<0.001		<0.001		<0.001		<0.001	

Table *. Trial input and management details (kg, g, ml/ha).

Plant pop'n:		160 seeds/m ²
Seed treatment:		Vibrance/Gaucho
Basal Fertiliser:	18 April	100kg MAP
Nitrogen:	29 July	87 kg Urea (40 N)
	11 August	87 kg Urea (40 N)
	2 September	87 kg Urea (40 N)
PGR:	28 July	Moddus Evo 200mL/ha
Fungicide:	28 July	Prosaro 300mL/ha
	26 August	Radial 840mL/ha
	28 September	Tilt 500mL/ha

All inputs of insecticides and herbicides were standard across the trial.