

Trial 2. HYC Wheat Elite Screen – Time of Sowing 2 (FAR VIC W22-02-2)

Key Points:

- The feed winter wheat cultivars RGT Cesario and Big Red sown on 20 May over three weeks later than the earlier sowing trial (FAR VIC W22-02-1 reported above) were significantly higher yielding than the shorter season spring milling wheats Willaura, Rockstar and Scepter.
- The new white wheat Stockade (AWW with APW potential) performed strongly outyielding older feed wheats Anapurna and RGT Accroc which were both significantly lower yielding.
- Despite a two-spray fungicide package and later sowing reducing disease pressure there was considerable disease infection present, particularly Septoria tritici blotch and stripe rust in Scepter and Rockstar.
- Incomplete disease control with these two milling wheats led to poor grain quality characteristics (test weight in particular) and a 3-4t/ha deficit compared to best European origin feed wheats.

Treatments: 10 cultivars tested for yield and quality assessments under a two-spray fungicide management (foliar application– GS31 and GS39) were sown on 20 May. Unlike the work conducted on the first sowing date, there was no fungicide untreated element to the experiment.

Table 1: Yield (t/ha), % of mean yield and grain quality, protein (%), test weight (kg/hL) & screenings (%).

		Yield				Quality				
Variety		Yield (t/ha)		% Of Mean yield	Protein (%)		Test Weight (kg/hL)		Screenings (%)	
1.	Scepter	3.87	f	65.6	14.1	a	69.2	e	4.7	bc
2.	Anapurna	6.30	d	106.7	12.0	d	77.2	b	3.8	cd
3.	RGT Accroc	5.15	e	87.4	12.0	d	72.1	d	4.1	cd
4.	Rockstar	4.04	f	68.5	13.7	b	69.0	e	4.8	bc
5.	LRPB Beaufort	6.73	c	114.1	12.8	c	74.7	c	4.7	bc
6.	RGT Cesario	7.28	ab	123.4	10.3	f	78.1	b	2.8	ef
7.	BigRed	7.65	a	129.7	10.2	f	80.8	a	3.3	de
8.	Stockade	7.00	bc	118.6	11.1	e	78.3	b	5.6	b
9.	Willaura	4.92	e	83.3	12.0	d	73.3	cd	7.9	a
10.	SUN1087I	6.06	d	102.7	12.1	d	77.3	b	2.3	f
Mean		5.899		100.0	12.0		75.0		4.4	
LSD 0.05		0.4282		7.3	0.4		2.3		0.9	
p-value		<0.001		<0.001	<0.001		<0.001		<0.001	
CV		5.00		5.0	2.3		2.1		14.9	

Table 2: Details of the management levels.

Sowing date		20 May
Plant population		180 seeds/m ²
Basal fertiliser		100 kg/ha MAP
Nitrogen	13 July	50kg N/ha
	5 Sept	100kg N/ha
Fungicide	GS31	Prosaro 300ml/ha
	GS39	FAR F1-19 750ml/ha