

## Comparison of durum varieties

### Key findings

- The yield results in this trial did not reveal statistically significant differences, although Saintly was the highest yielding variety at 3.16 t/ha.
- WID803 produces significantly higher screenings, 3.8%.

### Why do the trial?

To compare the performance of new durum varieties and lines against the current industry standards.

### How was it done?

**Plot size** 1.4m x 10m      **Fertiliser** 28:13 @ 90 kg/ha  
UAN @ 70 L/ha 29<sup>th</sup> July

**Seeding date** 28<sup>th</sup> May 2011

The trial was a randomised complete block design with 3 replicates and 7 varieties.

Plot edge rows were removed prior to harvest.

All plots were assessed for grain yield, protein, test weight and screenings with a 2.0 mm screen.

### Results

Saintly was the highest yielding durum variety at Hart in 2011 (3.16 t/ha) although all varieties in the trial produced statistically similar yields with an average of 2.93 t/ha (Table 1).

Across all durum varieties protein ranged from 11.4% (Saintly) to 12.2% (Tamaroi), and the average across all varieties was 11.9%.

Test weights for all durum varieties in 2010 were above 74.0 kg/hl. It is not apparent why the test weight results for this year's trial have averaged only 64.8 kg/hl.

Screenings ranged from 0.8% (Caparoi) to 3.8% (WID803) with a trial average of 2.1%. WID803 and Hyperno had significantly higher screenings levels compared to all other varieties. The spread of results in this trial is similar to the 2010 results in which WID803 and Hyperno respectively were also the two highest ranked for screenings.

Table 1. Grain yield (t/ha), protein (%), test weight (kg/hL), and screenings (%) for durum varieties at Hart in 2011.

Variety	Grain yield (t/ha)	% of Tamaroi	Protein (%)	% of Tamaroi	Test weight (kg/hL)	% of Tamaroi	Screenings (%)	% of Tamaroi
Caparoi	2.85	104	11.8	97	67.1	103	0.8	52
Hyperno	2.83	103	12.1	99	64.1	99	3.0	185
Saintly	3.16	115	11.4	94	65.3	101	2.0	127
<b>Tamaroi</b>	<b>2.74</b>	<b>100</b>	<b>12.2</b>	<b>100</b>	<b>65.0</b>	<b>100</b>	<b>1.6</b>	<b>100</b>
Tjilkuri (WID801)	2.92	107	11.7	96	64.4	99	1.2	74
WID802	2.99	109	12.1	99	63.4	98	2.4	149
WID803	3.02	110	11.8	97	64.5	99	3.8	234
Site mean	2.93	107	11.9	97	64.8	100	2.1	132
LSD (0.05)	ns	ns	ns	ns	0.8	1.2	0.7	44