

## Comparison of durum varieties

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### Key findings

- WID803 was the highest yielding durum line producing 4.51 t/ha.
- Caparoi, Hyperno, Tjilkuri and Saintly produced statistically similar yields with an average of 3.83 t/ha.

### 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** 32:10 (DAP/Urea) @ 70 kg/ha  
UAN @ 100 L/ha 10<sup>th</sup> August

**Seeding date** 14<sup>th</sup> May 2010

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

WID803 was the highest yielding durum variety at Hart in 2010, 4.51 t/ha. Of the named varieties Caparoi, Hyperno, Tjilkuri and Saintly produced statistically similar yields with an average of 3.83 t/ha (Table 1).

Across all durum varieties protein ranged from 9.4% (Tjilkuri) to 10.9% (Caparoi), and the average across all varieties was 10.0%.

Test weights for all durum varieties were above 74.0 kg/hL and screenings were all below 3.0 % at Hart in 2010.

Table 1: Grain yield (t/ha), protein (%), test weight (kg/hL) and screenings (%) of durum varieties at Hart in 2010.

Variety	Grain yield	% of	Protein (%)	% of	Test weight	% of	Screenings	% of
	(t/ha)	Tamaroi		Tamaroi	(kg/hL)	Tamaroi	(%)	Tamaroi
Caparoi	3.88	123	10.9	101	78.9	104	1.0	66
Hyperno	3.91	124	9.7	90	73.3	96	2.6	166
Saintly	3.71	118	10.4	97	76.3	100	1.4	92
Tamaroi	<b>3.15</b>	<b>100</b>	<b>10.8</b>	<b>100</b>	<b>76.2</b>	<b>100</b>	<b>1.6</b>	<b>100</b>
Tjilkuri (WID801)	3.81	121	9.4	87	74.1	97	1.4	91
WID802	3.61	115	9.6	90	73.5	97	2.0	126
WID803	4.51	143	9.4	88	75.0	99	2.9	186
Site mean	3.80	121	10.0	93	75.3	99	1.9	118
LSD (0.05)	0.33	10	0.5	5	1.5	2	0.7	44