

Comparison of durum varieties

Key findings

- WID802 was the highest yielding durum variety.

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	1.5m x 10m	Fertiliser	DAP @ 75kg/ha + 2% Zn
Seeding date	29 th May 2008		

The trial was a randomised complete block design with 3 replicates and 9 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

WID802 (1.41t/ha) was the highest yielding durum variety with Saintly (WID22279), Jandaroi, Kalka, Tamaroi and WID803 not being significantly different (Table 1).

There was little difference in protein across the durum variety trial, it ranged from 15.8% (WID802) to 16.7% (Hyperno).

Screenings for all varieties were less than 5.6%.

The highest yielding variety WID802 had a significantly lower test weight (74.6kg/hL) compared to the other varieties in the trial.

Table 1: Grain yield (t/ha), protein (%), test weight (kg/hL) and screenings (< 2.0mm) for durum varieties at Hart in 2008.

Variety	Grain yield (t/ha)	% of		Protein (%)	% of		Test weight (kg/hL)	% of		Screenings (%)	% of
		Tamaroi	Tamaroi		Tamaroi	Tamaroi		Tamaroi	Tamaroi		
Jandaroi	1.23	100	102	16.1	102	76.8	101	4	107		
Kalka	1.23	100	103	16.3	103	75.8	100	3	71		
Tamaroi	1.23	100	100	15.8	100	76.0	100	4	100		
TD20F	1.11	90	104	16.4	104	77.6	102	2	51		
Hyperno (WID22209)	1.14	93	106	16.7	106	76.8	101	5	137		
Saintly (WID22279)	1.25	102	101	15.9	101	75.8	100	6	148		
WID801	1.17	95	104	16.5	104	75.1	99	3	88		
WID802	1.41	115	100	15.8	100	74.6	98	5	142		
WID803	1.23	100	104	16.4	104	76.3	100	6	148		
Site Mean	1.22	99	102	16.2	102	76.1	100	4	110		
LSD(0.05)	0.20	16	4	0.7	4	2.6	3	2	46		