

Comparison of durum varieties

Key findings

- The grain yield results were very low, averaging 0.88t/ha for the trial
- Test weight values were low and screenings values high for all varieties

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** DAP + Zn 2% @ 70kg/ha
Seeding date 1st June 2012 UAN @ 80L/ha, 24th July

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

WID802 was the highest yielding durum variety at Hart in 2012 (1.22t/ha) although all varieties in the trial produced statistically similar yields with an average of 0.88t/ha (Table 1).

Compared to wheat and barley trials the durum grain yields were significantly lower, due to crown rot and greater sensitivity to a dry finish. This is also highlighted by the low test weight values, averaging only 51.6kg/hL, and high screening values, averaging 35%.

As a result proteins were all above 13.0%.

Table 1. Grain yield (t/ha), protein (%), test weight (kg/hL), and screenings (%) for durum varieties at Hart in 2012.

Variety	Grain yield (t/ha)	% of Tamaroi	Protein (%)	% of Tamaroi	Test weight (kg/hL)	% of Tamaroi	Screenings (%)	% of Tamaroi
Caparoi	0.77	122	13.9	101	50.8	96	33.2	98
Hyperno	1.06	168	14.0	102	51.6	98	32.3	96
Saintly	0.99	157	14.1	102	50.7	96	41.7	124
Tamaroi	0.63	100	13.8	100	52.9	100	33.7	100
Tjilkuri (WID801)	0.65	103	14.2	103	53.3	101	31.8	94
WID802	1.22	194	13.4	97	49.3	93	37.2	110
Yawa (WID803)	0.85	135	13.9	100	52.5	99	35.3	105
Site mean	0.88	140	13.9	101	51.6	98	35.0	104
LSD (0.05)	ns	ns	ns	ns	ns	ns	10	30