Comparison of durum varieties

Key findings

- Hyperno (WID22209) was the highest yielding currently released variety, 3.0 t/ha and of the breeding lines WID803 yielded 3.44 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**	DAP @ 60 kg/ha + 2% Zn Urea @ 50 kg/ha 10th August
Seeding date	8th May 2009		

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

WID801, WID802 and WID803 were the highest yielding durum varieties at Hart in 2009, averaging 3.29 t/ha. Of the named varieties Hyperno and Kalka were the highest yielding, averaging 2.93 t/ha (Table 1).

Protein ranged from 12.2% (WID802) a high yielding variety, to 14.5% (Jandaroi) a low yielding variety

Test weights ranged from 77.0 kg/hL (WID801) to 79.2 kg/hL (Caparoi) and screenings for all varieties were less than 2.0%. The variety producing the lowest screenings was Kalka (0.9%).

Table 1: Grain yield (t/ha), protein (%), test weight (kg/hL) and screenings (%) for durum varieties at Hart in 2009.

Variety	**Grain yield (t/ha)**	% of Tamaroi	**Protein (%)**	% of Tamaroi	**Test weight (kg/hL)**	% of Tamaroi	**Screenings (%)**	% of Tamaroi
Caparoi (TD60F)	2.64	104	13.5	97	79.2	101	1.2	78
Hyperno (WID22209)	3.00	118	13.3	96	78.0	100	1.2	82
Jandaroi	2.03	80	14.5	104	78.5	100	1.0	66
Kalka	2.85	112	12.6	90	78.0	100	0.9	58
Saintly (WID22279)	2.21	87	13.1	94	77.5	99	1.9	126
Tamaroi	2.54	100	13.9	100	78.4	100	1.5	100
WID801	3.16	125	12.5	90	77.0	98	1.2	82
WID802	3.26	129	12.2	88	76.4	97	1.1	72
WID803	3.44	136	12.6	90	78.1	100	1.9	128
Site mean	2.79	110	13.1	94	77.9	99	1.3	88
LSD (0.05)	0.34	13	0.4	3	1.3	2	0.3	20