Comparison of triticale varieties

Key findings

- Chopper (1.38t/ha) was the highest yielding triticale variety at Hart for the second year in a row

Why do the trial?

To compare the performance of new triticale 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 11 varieties.

Plot edge rows were removed prior to harvest.

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

Results

Chopper (1.38t/ha) was the highest yielding triticale variety at Hart for the second year in a row (Table 1). The average grain yield of the remaining varieties was 0.88t/ha.

Triticale protein ranged from 12.2% (Chopper) to 14.1% (Canobolas) and the average across all varieties was 13.0%. Protein tended to decrease with increasing grain yield.

Berkshire (63.4kg/hL), Canobolas (62.3kg/hL) and Goanna (61.3kg/hL) produced the highest test weights with the average being only 58.0kg/hL. This was the second year in a row that Berkshire had one of the highest test weights.

Screenings ranged from 16.0% (Chopper) to 34.3% (Berkshire) and averaged a high level of 27.3%.

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

Variety	Grain yield (t/ha)	% of Tahara	Protein (%)	% of Tahara	Test weight (kg/hL)	% of Tahara	Screenings (%)	% of Tahara
Berkshire	0.99	111	13.1	102	63.4	113	34.3	131
Bogong	0.85	96	13.5	105	57.1	102	32.1	123
Canobolas	0.84	94	14.1	109	62.3	111	28.5	109
Chopper	1.38	155	12.2	95	57.3	102	16.0	61
Goanna	0.89	100	13.0	101	61.3	109	27.5	105
Hawkeye	1.03	116	12.7	98	59.7	107	25.5	97
Jaywick	0.85	96	13.1	102	55.2	99	23.8	91
Rufus	0.76	85	13.1	102	52.8	94	31.6	121
Tahara	**0.89**	**100**	**12.9**	**100**	**56.0**	**100**	**26.2**	**100**
Tuckerbox	0.86	97	12.5	97	55.8	100	28.6	109
Yowie	0.84	94	12.9	100	56.8	101	25.7	98
Site mean	0.93	104	13.0	101	58.0	104	27.3	104
LSD (0.05)	0.2	5	0.7	6	2.9	4	6.9	26