2.4.3 Triticale variety trial - Bairnsdale, Vic

Location: Bairnsdale Research Site.

Funding:
This was a SFS funded trial.

Researchers:
Ben O'Connor, Trevor Caithness & Nicole Hellyer.

Author: Southern Farming Systems

Acknowledgements:
Thanks to the Bairnsdale Branch Committee.

Background/Aim:
New triticale varieties need to be tested across a number of years before they will be considered in the domestic market. This trial evaluates a number of varieties that are either commercially available or close to commercial release that may be suitable for growing conditions in the south east of Victoria.

Summary of findings:
- The variety with the highest yield was Crackerjack at 7.35t/ha
- The site mean was 7.13t/ha

Rainfall:

Avg. Annual:	641.9 mm
Avg. G.S.R.:	442.4 mm
2010 Total:	652.2 mm
2010 G.S.R.:	364.2 mm

Yield Potentials for SE Victoria: Calculated using WUE values of 15kg/mm/ha Triticale, 110mm evaporation and GSR of 30% Dec (15.06) Jan (9.96) & Feb (27.3) + 50% Mar (22.3) (only if >20mm) + April-November (364.2) – 110mm) X 15kg/mm/ha.
Therefore, for the Triticale Crop Variety Trial at Bairnsdale the limited yield should be 4.56/ha or 303.8mm x 15kg/mm/ha. The site mean was 7.13 t/ha

Variety: Various

Sowing rate:
215 seeds/m^2 rate with a desire to establish 160 plants/m^2

Sowing date: 25th May 2010

Fertiliser: At sowing MAP 100kg/Ha

Knockdowns:
- 8th May Round Up Powermax 1.2L/ha
- 8th May Striker0.1L/ha

Plot size: 18.0m x 1.10m x 4 reps.

Measurements:
Yield and grain quality components, including protein, test weight, and screenings.

Soil Type: Grey Brown

Soil test:
pH=5.1
EC (dS/m)=0.18
Cation Exchange (meq/100g)=8.94
P (Colwell) mg/kg=38.0
K (Colwell) mg/kg=118.0
Ammonium N mg/kg=9.0
OC%=1.89

Results:

Table 1: Yield and quality parameter data for Triticale crop variety trial at Bairnsdale

Variety	Mean Yield (t/ha)	Protein %	Test Weight kg/hl	Screenings %
Crackerjack	7.35	13.68	56.43	1.00
Tobruk	7.30	12.58	57.70	1.00
Endeavour	7.11	13.78	65.23	1.50
Bogong	6.77	12.28	58.48	1.30
LSD (P=.05)	**0.79**			
CV	**6.92**			
Site Mean	**7.13**			