

## 2.4.5 Oats 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 oat 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 Targa at 3.67t/ha
- The site mean was 2.63t/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 Potential for SE Victoria:** Calculated using WUE values of 15kg/mm/ha Oats, 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 Oats Crop Variety Trial at Bairnsdale the limited yield should be 4.56/ha or 303.8mm x 15kg/mm/ha. The site mean was 2.63 t/ha

**Variety:** Various

**Sowing rate:**

215 seeds/m<sup>2</sup> rate with a desire to establish 160 plants/m<sup>2</sup>

**Sowing date:** 25<sup>th</sup> May 2010

**Fertiliser:** At sowing MAP 100kg/Ha

**Knockdowns:**

- 8<sup>th</sup> May Round Up Powermax 1.2L/ha
- 8<sup>th</sup> May Striker 0.1L/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 oat crop variety trial at Bairnsdale. Note due to large variation within these results the trial should be considered demonstration only.

Variety	Mean Yield (t/ha)	Protein %	Test Weight kg/hl	Screenings %
Targa	3.67	15.58	38.9	7.5
Galileo	2.81	15.95	41.5	6.0
Yiddah	1.41	15.85	41.6	5.0
Site mean	<b>2.63</b>			