

Canola Variety Trial, Badgingarra

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Purpose:	To assess the performance of newly released canola varieties in the West Midlands.
Location:	Badgingarra Research Station
Soil Type:	Gravelly sand
Rotation:	2009 Wheat; 2008 Lupins; 2007 Oats
GSR:	304mm

BACKGROUND

Canola has become an increasingly important 'break crop' option for growers in the West Midlands region, especially as the profitability of lupins has diminished. Canola also allows different weed control options to wheat and lupins, which is appealing to some growers. The recent release of conventionally bred 'hybrid' canola varieties, as well genetically modified (glyphosate tolerant) canola varieties has further increased interest in this crop. This trial seeks to compare the performance of recently released TT (triazine tolerant) varieties (ATR Cobbler, CBTM Tanami, CBTM Scaddan) against new 'hybrid' canola varieties (CBTM HT JardeeTM, CBTM Tumby HTTM, CBTM Mallee HTTM).

Variety Information (From Australian Oilseeds Blackleg Resistance Guide and DAFWA Canola Variety Guide 2010 and breeder information sheets)

- **CBTM Scaddan** – Argyle is a mid- maturity TT open pollinated variety suited to the medium to high (350mm +) rainfall zone. Scaddan has a Blackleg resistance rating of MR-MS.
- **ATR Cobbler** – ATR Cobbler is an early to early-mid maturity TT variety. Oil levels are generally 1.5-2% higher than ATR-Stubby. Cobbler has a Blackleg rating of MS, medium-short plant height and is suited to 250-500mm rainfall zones. Cobbler was bred by Nugrain and released in 2007
- **CBTM Tanami** – Tanami is an early season TT variety adapted to 250-500m rainfall zones. Tanami has excellent early vigour and drought tolerance. Blackleg resistance rating for Tanami has been reduced to MS-S. Tanami was bred by Canola Breeders WA and released in 2006.
- **CBTM Telfer**- This is an early season TT open pollinated variety suited to the low rainfall zone. Telfer is the earliest flowering variety on the market and is suited to direct harvesting. Black leg rating is MS.
- **CBTM HT JardeeTM** – Jardee is a mid maturity hybrid canola that also has Triazine Tolerance. Jardee is suited to high rainfall regions (450mm+) with high yield potential. Jardee has excellent vigour and a Blackleg resistance rating of MR (provisional). In the right environment Jardee should provide 15-20% yield advantage over non-hybrid TT varieties. Seed costs will be significantly higher than for traditional TT varieties, and seed must be purchased for each crop, as retained seed will lose the 'hybrid' benefits. CBTM HT JardeeTM was bred by Canola Breeders WA and released in 2009

- **CB™Tumby HT™**- Tumby is a mid season Triazine Tolerant Hybrid canola for medium rainfall areas. Tumby grows to a moderate height and is characterised by a compact canopy and dense pod set. Provisional Black leg rating of MR.
- **CB™Mallee HT™**- Mallee is a early season Triazine Tolerant Hybrid variety suited to all rainfall zones. Provisional Black leg rating of MR.

TRIAL DESIGN

Crop details: 4kg/ha on 11 May 2010

Fertiliser: **At seeding:** Agstar Extra @ 100kg/ha; Urea @ 80kg/ha (11 May)

Post: FlexiN @ 60Lt (7 June); FlexiN @ 40Lt (28 July)

Herbicide: **Post:** Talstar @ 200ml/ ha; Atrazine @ 2lt (11 May); Lontrel @ 250ml (17 June); Atrazine @ 2Lt (17 June)

Insecticide: **Post:** Dominex 100 mL/ha (11 May)

RESULTS

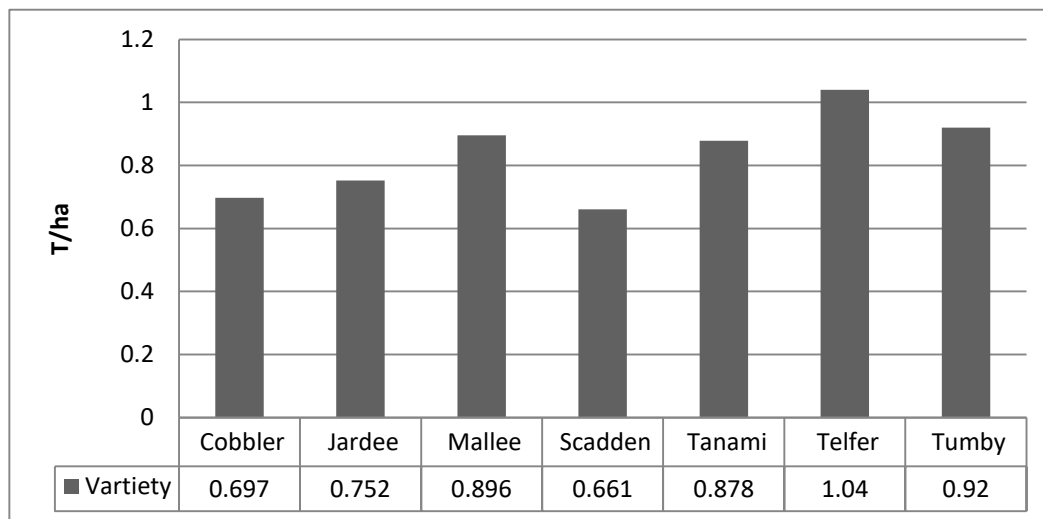


Figure 1: Average yield of varieties trialled- statistical analysis shows no significant difference between any varieties.

DISCUSSION

- Shorter season varieties Telfer and Tanami showed a higher trend in yield which may be due to a dry and early finish to the season.
- This may show there is less advantage in using hybrid varieties in a drier season.

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