

# Canola Variety Trial, Badgingarra

West Midlands Group and Canola Breeders WA Pty Ltd

<b>Purpose:</b>	To assess the performance of newly released canola varieties in the West Midlands.
<b>Location:</b>	WMG trial site, Badgingarra Research Station
<b>Soil Type:</b>	Gravelly sand
<b>Rotation:</b>	2008 Oats; 2007 Lupins; 2006 Wheat
<b>GSR:</b>	430mm

## BACKGROUND SUMMARY

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 sought to compare the performance of recently released TT (triazine tolerant) varieties against a new 'hybrid' canola, CB™ HT Jardee™.

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

- **CB™ Argyle** – Argyle is a mid-late maturity TT variety suited to the medium to high (350mm +) rainfall zone. Argyle has a Blackleg resistance rating of MR. Argyle was bred by Canola Breeders WA and released in 2008.
- **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
- **CB™ 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.
- **TawrifficTT** – Tawriffic TT is an early-mid maturity variety, adapted to medium-high (350+) rainfall zones. Tawriffic is the replacement for Bravo TT, with improved yield and oil over Bravo TT albeit with slightly later maturity. Tawriffic TT has a Blackleg resistance rating of MR. Tawriffic was bred by Canola Alliance (NSW DPI/Nugrain) and released in 2008.
- **CB™ HT Jardee™** – 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. CB™ HT Jardee™ was bred by Canola Breeders WA and released in 2009

## TRIAL DESIGN

**Seeding rate:** 4kg/ha

**Seeding date:** 26 May 2009

**Fertiliser:** **At seeding:** Agstar Extra @ 100kg/ha

**Post:** Flexi N @ 60kg/ha (3 August); Urea @ 150kg/ha (7 August)

**Herbicide:** **Post:** Select 500ml/ha + Hasten 0.25L/ha (17 June); Select 500ml/ha + Hasten 0.25L/ha (29 June)

**Insecticide:** **Post:** Dominex 100 mL/ha

## RESULTS

Variety	Maturity	Yield (t/ha)
CB™ Tanami	Early	1.60
ATR Cobbler	Early-Early Mid	1.42
CB™ HT Jardee™	Mid	1.37
CB™ Argyle	Mid-Late	1.30
Tawriffic	Early-Mid	1.29
	Trial Mean	1.39
	LDS 5%	0.42 (NS)

## DISCUSSION

- There were no significant differences in yields between the varieties
- Quality information (admix and oil %) was not available at the time of printing.
- Due to the risk of spray drift onto sensitive crops, broadleaf control of the trial was not ideal. This may have had an impact on trial yields.
- Jardee didn't produce the expected yield advantage over the TT varieties that was expected. This may have been due to consecutive hot days in mid-October reducing the potential for later maturing varieties. This is supported by the highest yield in the trial being the earliest maturity variety (Tanami), although this was not a significant difference.

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