
Canola Breeders *Tech Sheet*

South Australia – August 2008

Canola Breeders Background

Canola Breeders was formed with a mandate to breed low-rainfall canola varieties. We have had success in a short period of time in meeting a huge demand for low rainfall canola. We have now begun to develop canola varieties for higher rainfall environments. Look for the CB™ trademark in front of our canola variety names.

Canola Breeders Varieties – seed available for 2009 sowing.

CB™ Boomer^(d) - a large seed early-mid season TTOP[®] (triazine tolerant open-pollinated) canola variety adapted to the 300-450 mm cropping zones of eastern Australia. The very large seed size (43% larger than ATR-Beacon) promotes excellent early vigour. Even and rapid maturity sets up the crop for direct harvesting. Oil and protein content are similar to ATR-Beacon.

CB™ Tanami^(d) - an early season TTOP[®] (triazine tolerant open-pollinated) canola variety adapted to the low rainfall cropping zones of southern Australia. CB™ Tanami^(d) is the leading canola in low rainfall regions - "if wheat will grow, Tanami will grow". CB™ Tanami^(d) has excellent early vigour and drought tolerance giving it outstanding establishment even in tough seasons. Oil and protein content are similar to ATR-Stubby.

CB™ Argyle^(d) - a new mid season TTOP[®] (triazine tolerant open-pollinated) canola variety adapted to the 350+ mm cropping zones of eastern Australia. CB™ Argyle^(d) has a short stature and even maturity making this an excellent mid-season variety for direct harvesting. Oil and protein of Argyle are high and similar to Thunder TT and Barra. CB™ Argyle^(d) will be available for sale at the end of 2008.

Specific Recommendations for CB™ Varieties

Fertilise early - early maturing varieties such as CB™ Tanami^(d) and CB™ Boomer^(d) should receive fertiliser at sowing and a second application at no later than 6 weeks. This allows sufficient biomass to be accumulated for prolific seed set in these new early maturing canola varieties.

Flexible planting time – in medium to high rainfall zones, CB™ Tanami^(d) and CB™ Boomer^(d) can be planted later in the season (as late as mid June in some cases) to allow for a late break or extra weed control through grazing or additional chemical knock before planting. Fungicide seed dressing should be used against blackleg on CB™ varieties in high rainfall environments.

Direct harvesting – CB™ Tanami^(d), CB™ Boomer^(d), and CB™ Argyle^(d) are excellent candidates for direct harvesting. Many growers successfully direct harvest Canola Breeders varieties in Western Australia. All CB breeding trials are direct harvested to provide selection pressure for improved direct harvesting capacity.

Yield Data – South Australia NVT

Early Trials

| Region | Mid North | | SE | Yorke P | |
|-------------------------|-----------|------|-------|----------|-------------|
| Nearest Town | Spalding | | Keith | Minlaton | |
| Trial Year | 2006 | 2007 | 2007 | 2007 | |
| Variety Name | t/ha | t/ha | t/ha | t/ha | Av |
| CB Tanami | 0.72 | 1.69 | 1.13 | 1.14 | 1.17 |
| CB Boomer | 0.61 | 1.48 | 1.54 | 0.98 | 1.15 |
| ATR-Banjo | 0.46 | 1.44 | 1.52 | 0.32 | 0.94 |
| ATR-Beacon | 0.47 | 1.25 | 1.48 | 0.28 | 0.87 |
| ATR-Cobbler | 0.61 | 1.57 | 1.46 | 1.12 | 1.19 |
| ATR-Stubby | 0.55 | 1.50 | 1.53 | 0.51 | 1.02 |
| Bravo TT | 0.56 | 1.66 | 1.68 | 0.75 | 1.16 |
| Rottnest TTC | 0.48 | 1.47 | 1.78 | 0.78 | 1.13 |
| Surpass 501 TT | 0.49 | 1.46 | 1.08 | 0.51 | 0.89 |
| | | | | | |
| Site Mean (t/ha) | 0.52 | 1.53 | 1.47 | 0.68 | |
| CV (%) | 10.3 | 6.38 | 14.71 | 10.71 | |
| LSD (t/ha) | 0.09 | 0.15 | 0.34 | 0.12 | |

Mid Trials

| Region | Low EP | Low EP | Mid N | Mid N | SE | SE | SE | Yorke P | Yorke P | Mid N | |
|----------------------|---------|--------|--------|----------|--------|---------|---------|---------|----------|----------|------|
| Nearest Town | Mt Hope | Yeel. | Spald. | Turretf. | B.town | Frances | Moyhall | Arth. | Minlaton | Riverton | |
| Trial Year | 2007 | 2007 | 2007 | 2007 | 2007 | 2007 | 2007 | 2007 | 2007 | 2007 | |
| Variety Name | t/ha | t/ha | t/ha | t/ha | t/ha | t/ha | t/ha | t/ha | t/ha | t/ha | Av |
| CB Argyle | 1.46 | 1.54 | 1.57 | 2.39 | 1.98 | 1.58 | 2.68 | 3.44 | 0.73 | 2.87 | 2.02 |
| ATR-Barra | 1.19 | 1.74 | 1.36 | 2.28 | 1.62 | 1.34 | 2.35 | 3.33 | 0.48 | 2.73 | 1.84 |
| ATR-Beacon | 1.31 | 1.36 | 1.39 | 2.48 | 1.50 | 1.18 | 2.22 | 3.03 | 0.32 | 2.51 | 1.73 |
| ATR-Marlin | 1.51 | 1.48 | 1.65 | 2.52 | 1.80 | 1.43 | 2.44 | 3.38 | 0.37 | 2.66 | 1.92 |
| ATR-Summitt | 1.27 | 1.36 | 1.55 | 2.56 | 2.05 | 1.38 | 2.68 | 3.14 | 0.34 | 2.57 | 1.89 |
| Bravo TT | 1.40 | 1.52 | 1.67 | 2.88 | 1.90 | 1.29 | 2.46 | 3.41 | 0.79 | 3.07 | 2.04 |
| Flinders TTC | 1.34 | 1.54 | 1.58 | 2.43 | 1.57 | 1.38 | 2.27 | 3.04 | 0.26 | 2.75 | 1.82 |
| Rottnest TTC | 1.43 | 1.58 | 1.43 | 2.34 | 1.65 | 1.43 | 2.18 | 3.12 | 0.81 | 2.61 | 1.86 |
| Storm TT | 1.42 | 1.61 | 1.85 | 2.79 | 1.41 | 1.25 | 2.68 | 3.22 | 0.71 | 3.09 | 2.00 |
| Tawriffic TT | 1.67 | 1.55 | 1.67 | 2.71 | 1.89 | 1.62 | 2.47 | 3.51 | 0.70 | 2.67 | 2.05 |
| Thunder TT | 1.29 | 1.44 | 1.61 | 2.53 | 1.71 | 1.38 | 2.38 | 3.20 | 0.46 | 2.66 | 1.87 |
| Tornado TT | 1.35 | 1.69 | 1.48 | 2.48 | 1.60 | 1.28 | 2.28 | 3.29 | 0.61 | 2.61 | 1.87 |
| | | | | | | | | | | | |
| Site M (t/ha) | 1.32 | 1.44 | 1.49 | 2.48 | 1.63 | 1.36 | 2.33 | 3.12 | 0.51 | 2.62 | |
| CV (%) | 7.79 | 6.92 | 8.13 | 10.77 | 12.73 | 7.9 | 5.15 | 5.4 | 14.57 | 4.04 | |
| LSD (t/ha) | 0.17 | 0.17 | 0.19 | 0.42 | 0.35 | 0.17 | 0.2 | 0.27 | 0.12 | 0.17 | |

Oil Data – SA NVT 2007

| NVT Mid SA (10 Sites) | 2007 Oil% |
|-----------------------|-----------|
| CB Argyle | 42.5 |
| ATR-Beacon | 40.3 |
| Thunder TT | 41.8 |

| NVT Early SA (4 Sites) | 2007 Oil% |
|------------------------|-----------|
| CB Boomer | 38.2 |
| CB Tanami | 37.7 |
| ATR-Beacon | 40.3 |
| ATR-Cobbler | 38.6 |

For Wholesale Distribution: ABB Seeds
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www.cbwa.net.au