

Canola variety demonstration - Buntine

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Aim

To compare Canola Breeders' new TT canola variety CB Sturt TT to its existing low rainfall variety CB Telfer TT in a paddock scale demonstration.

Background

2012 saw the Liebe Group's Long Term Research Site planted to canola. Seeding was delayed until June due to a nearby trials requirement for electrical cabling. This late seeding provided an opportunity to test out short season canola varieties.

CB Sturt TT is a new early to mid-season open pollinated variety that was trialled as CBWA 106 TT. It is expected to have a similar fit to Telfer. The majority of the paddock was sown to Telfer with two alternate seeding runs of Sturt.

Trial Details

Property	Long Term Research Site, west of Buntine
Plot size & replication	15m x 600m x 2 replicates
Soil type	Deep yellow sand
Soil pH	Topsoil: 6 Subsoil 4.6
EC	0.1 dS/m
Sowing date	7/6/12
Seeding rate	3 kg/ha
Fertiliser	7/6/12: 40 kg/ha TSP (a compound granular fertiliser with no nitrogen) 19/7/12: 40 L/ha Flexi-N
Paddock rotation	2009 lupins, 2010 wheat, 2011 wheat
Herbicides	17/5/12: 1 L/ha Spray Seed 7/6/12: 1.2 L/ha Roundup Attack, 1 kg/ha Atrazine, 2.5 L/ha Trifluralin 29/6/12: 1.1 L/ha Atrazine 18/7/12: 500 mL/ha Clethodim 15/10/12: 1.7 L/ha Roundup Attack
Insecticide	29/6/12: 100 mL/ha Dimethoate, 100 mL/ha Cypermethrin
Growing Season Rainfall	162.5mm

Results

Table 1: Yield and oil content of the canola varieties Telfer and Sturt grown west of Buntine, 2012.

Varieties	Yield	Standard deviation	Oil	Standard deviation
Telfer	0.55	0.06	45.4	0.42
Sturt	0.62	0.08	44.3	0.35

Comments

- Sturt was the higher yielding of the two varieties.
- Differences in flowering could be seen throughout the year, with Sturt flowering later in the season.
- Ryegrass was a problem in the trial area and very patchy, which has potentially affected results.

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