

TOPIC: TT CANOLA VARIETIES - HYBRID VS OPEN POLLINATED

Group:
Mullewa 2011

ABSTRACT

The trial was a grower size plot trial to compare several current and new TT OP and Hybrid varieties.

ATR Stringray was the highest yielding variety, even though it showed the least crop canopy and vigour of all varieties tested. This trait suggests it puts more resources into grain production than into crop biomass and leaf area.

The TT hybrid varieties exhibited the greatest leaf biomass and canopy closure by 21st July. However, due to a higher than ideal plant density, this heavier crop canopy did not translate into higher grain production.

The 2 new varieties from Nuseed – Stingray and Snapper, were the most profitable varieties in this trial and may replace areas of Cobbler plantings in the future.

TRIAL DETAILS

Property	Peter and Miriam Barnetson – Rosewick - Eradu											
Soil type	Strong Yellow Eradu sandplain											
Crop & Variety / ies	Cobbler, Snapper, Stingray, Mallee, Jardee, Junee											
Treatments:	6 varieties, replicated 3 times. Pesticides – 2L trifler 480 + 2L Atrazine + 350ml Lorsban at sowing, 2L Atrazine + Oil at 4 leaf.											
Replicates:	2 reps – 100m plot length x 17m width – nearest neighbor method- Cobbler every 3 rd plot											
Sowing date	Sown Dry – break approx. 15 th May											
Seeding rate	Approx 5 kg/ha											
Fertiliser (kg/ha)	90kg MacroPro Extra and 40L Flexi N at sowing, 100kg NSK 4 leaf, 50L Flexi N early flowering											
Paddock rotation	2010 wheat											
Growing Season Rainfall	Summer rain Dec – April mm, GSR May to Oct - mm											
Growing Season Rainfall	Total yearly rain 552.20. Total rain May-Oct (inclusive) 400.8											
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rain	35.4	93.8	8.6	4.4	65	56	77	89	40	73	9	0.2
rain days	10	9	1	6	8	15	19	24	15	15	7	1

RESULTS

TREATMENT	Yield (t/ha)	Oil %	Grain value \$/ha	Canopy 21 st July (1-10)	Flowers (%) 21 st July	Profitability Ranking *
Stingray	1.83	47.3	1063.23	3,4	20,20	1
Snapper	1.71	49.2	993.51	3,4	20,30	2
Cobbler	1.67	47.4	970.27	5,5,6,6	5,5,10,10,	3
June HYB	1.54	45	894.74	8,7	40,70	4
Jardee HYB	1.54	43.1	876.63	6,9	6,5	5
Mallee HYB	1.50	43.1	853.86	6,6	20,25	6

*Profitability Ranking = Grain value – seed costs

ILLUSTRATIONS



L Peter Elliot Lockhart (Planfarm) discussing Sclerotinia infection and management strategies at field day



R Dan Gill (Ravensdown) discussing canola nutrition on open pollinated vs hybrid plant types at field day



L Cobbler showing taller and mixed plant height



R Stingray showing short compact and uniform plant height

TECHNICAL SUPPORT

Grant Thompson – Crop Circle Consulting

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Peter and Miriam Barnetson – Seeding, Harvesting, Spraying, Grain analysis and hosting trials.

CBH – Hamish Maclean - Grain Canola Calculator 2012