

TOPIC: ROUNDUP READY CANOLA VARIETIES AND NITROGEN RATES

Group:
Mullewa 2011

ABSTRACT

Of the varieties planted, the hybrid variety CB Eclipse provided the highest grain yield per hectare of 2.59 t/ha, and achieved the highest grain value/Ha.

The nitrogen treatments showed that providing more than 82N/ha increased grain yield. 108kg/ha N increased yield by approx. 0.3t/ha. The 122kg/ha N rate did not increase grain yield however, suggesting that perhaps this rate was over the top of the Nitrogen response curve. Both the higher N treatments reduced oil content.

Hybrid vigour was evident early in both the Eclipse and 502 plots, but was less noticeable at the end of the season.

Hyola 502RR had a slightly poorer establishment compared to Eclipse and GT61.

Seed Costs are a consideration, with RR hybrids around \$28-\$30/kg and RR Ops around \$16-18/kg.

TRIAL DETAILS

RESULTS

Property	Paul and Nino Messina, Peter Rd Sandplain Block – Olive Tree
Soil type	Strong Eradu Yellow sand
Crop & Varieties	RR Canola
Treatments:	CB Eclipse (HYB), Hyola 502RR (HYB), GT61 (OP)
Replicates:	3 reps + 2 additional N rates
Sowing date	Sown Dry – break of season 15 th May
Seeding rate	3.5 kg/ha
Fertiliser (kg/ha)	90 kg/ha MacroPro Extra and 40L Flexi N banded at sowing, 100kg NS1 topdressed 10 th June, 70L Liqui NS at 12 th July, 45L Flexi N at mid Flowering 6 th August. 108N strip – as above + 60kg NS61 at 30 th June 122N strip - as above + 60kg NS61 at 30 th June + 70L LiquiNS 12 th August
Paddock rotation	2010 wheat, 2009 wheat, 2008 lupins
Growing Season Rainfall	Total yearly rain 552.20. Total rain May-Oct (inclusive) 400.8

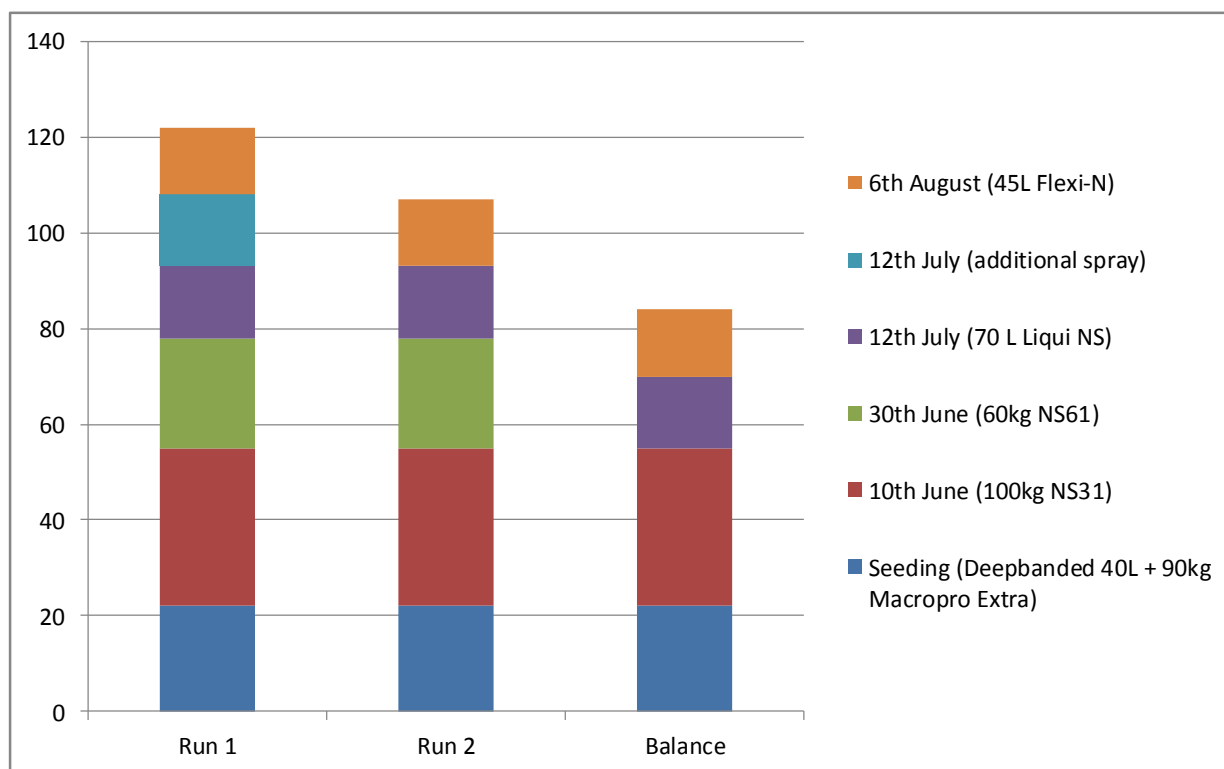
	j	f	m	a	m	j	j	a	s	o	n	d
rain	35.4	93.8	8.6	4.4	65	56	77	89	40	73	9	0.2
rain days	10	9	1	6	8	15	19	24	15	15	7	1

TREATMENT		Yield (t/ha)	oil	Grain Value \$/Ha*	Rank Profitability@
HYOLA RR502	82N	2.2	44.8	1186.9	4
ECLIPSE HYB	82N	2.59	44.2	1391.24	1
GT61 OP	82N	2.29	46.1	1235.46	3
HYOLA RR502	108N	2.5	42.1	1301.95	2
HYOLA RR502	122N	2.2	43.1	1162.88	5

*CBH Generic Cash price \$520/t at 16th Nov + oil adjustment (exc GST), N =\$1.55/kg

@ Profitability Ranking = Grain value /ha– (seed costs + N fertilizer + application costs)

Nitrogen Applications – RR canola Trial Messina 2011 *(courtesy Paul Messina)*



ILLUSTRATIONS



L Hyola 502RR canola establishment



R CB Eclipse establishment and hybrid vigour

MDFI group visiting trial site in August – Justin Kudnig (Pacific seeds oilseeds specialist) presenting.



TECHNICAL SUPPORT

Grant Thompson- Crop Circle Consulting.
Pacific Seeds - Justin Kudnig – Oilseeds Specialist – technical support and presentations on Field Day.
Hamish Maclean - CBH.

FUNDING SOURCE OR IN-KIND SUPPORT

Oilseeds of WA- seed supply.
Paul and Nino Messina, David Parradella (Bindu Farms) – technical support, seeding, harvesting etc.
CBH – grains analysis and canola value calculations.