

ABSTRACT

The Hybrid CL, TT and RR canola varieties performed extremely well in this trial site in 2012. A combination of hybrid vigour, superior yields and superior oil content made the hybrid varieties the top performers in each of the herbicide systems tested, even in light of the higher seed costs.

BACKGROUND AND AIM

Assess the RR TT IT herbicide systems for weed control and grain production and compare grain values produced.

TRIAL DETAILS

Property	<i>DA and DE Green, Charella Farms, Eradu</i>
Soil type	<i>Eradu sand</i>
Crop & Variety	<i>TT IT RR canola</i>
Treatments:	<i>Site sprayed with 3L trifluralin and 1.0L Lorsban IBS, 2L Atrazine Applied IBS to TT site Post emergent – Early Post – 300ml Targa + 200ml Alpha + 150ml Lorsban Later Post TT – 2L Atrazine + 500ml Select + 1% Uptake + 1% AMS CL – 650ml Intervix + 500ml Select RR 0.9kg RR Plantshield x 1 Mouseoff 20kg/ha x 2</i>
Replicates:	<i>3 reps</i>
Sowing date	<i>3rd May</i>
Seeding rate	<i>Various, according to seed size and germination %</i>
Fertiliser (kg/ha)	<i>100 Kg per Potash 2:1 spread in March, Sown with 65 kg MacroPro Extra & 80 kg urea topdressed in front of seeder 100kg NS41 and 30L Flexi N applied post.</i>
Paddock rotation	<i>2011 wheat, 2010 lupins</i>
Growing Season Rainfall	<i>Apr to Oct 250 mm</i>

RESULTS**Table 1 : Clearfield Varieties**

Variety	Group	Yield (THA)	Standard Error	Oil %	Bonus	Gross	GR \$/ha - Seed
HYOLA® 474CL COJ	CL	2.2907	0.1115	44.4	103.60	\$1,424	\$1,359
HYOLA® 474CL COM	CL	2.1764	0.1130	44.2	103.30	\$1,349	\$1,284
HYOLA® 474CL BARE	CL	2.1213	0.1166	44.3	103.45	\$1,317	\$1,252
45Y86	CL	2.1427	0.1170	42.9	101.35	\$1,303	\$1,238
HYOLA® 474CL PP+J	CL	2.0693	0.1112	44.3	103.45	\$1,284	\$1,219
HYOLA® 575CL	CL	2.0580	0.1123	43.1	101.65	\$1,255	\$1,190
HYOLA® 474CL GJ	CL	2.0183	0.1125	44.3	103.45	\$1,253	\$1,188
HYOLA® 474CL COM+J	CL	1.9975	0.1111	44.0	103.00	\$1,234	\$1,169
44Y84	CL	1.9253	0.1162	42.5	100.75	\$1,164	\$1,099
HYOLA® 474CL PP+EV+J	CL	1.8808	0.1144	42.8	101.20	\$1,142	\$1,077
HYOLA 474CL F2	CL	1.7467	0.1101	41.8	99.70	\$1,045	\$1,035
46Y83	CL	1.8343	0.1109	41.2	98.80	\$1,087	\$1,022
HYOLA 575CL F2	CL	1.6871	0.1117	41.8	99.70	\$1,009	\$999

Table 2 : Roundup Ready Varieties

Variety	Group	Yield (THA)	Standard Error	Oil %	Bonus	Gross	GR \$/ha - Seed
HYOLA® 404RR	RR	2.0196	0.1048	46.8	107.20	\$1,299	\$1,219
HYOLA® 505RR	RR	2.0122	0.1043	46.0	106.00	\$1,280	\$1,200
HYOLA 505RR F2	RR	1.8308	0.1048	45.9	105.85	\$1,163	\$1,153
HYOLA 404RR F2	RR	1.8300	0.1047	44.9	104.35	\$1,146	\$1,136
GT COBRA	RR	1.9007	0.1049	43.9	102.85	\$1,173	\$1,113
45Y22	RR	1.9595	0.1046	42.4	100.60	\$1,183	\$1,103
IH50RR	RR	1.9418	0.1054	41.8	99.70	\$1,162	\$1,082
43Y23	RR	1.9005	0.1057	41.7	99.55	\$1,135	\$1,055
CB FRONTIER RR	RR	1.8727	0.1048	40.7	98.05	\$1,102	\$1,022

Table 3 : Triazine Tolerant Varieties

Variety	Group	Yield (THA)	Standard Error	Oil %	Bonus	Gross	GR \$/ha - Seed
HYOLA® 559TT COJ	TT	1.9204	0.1124	43.9	102.85	\$1,185	\$1,120
HYOLA® 559TT COM	TT	1.8909	0.1127	44.6	103.90	\$1,179	\$1,114
HYOLA® 656TT COJ	TT	1.9209	0.1136	42.8	101.20	\$1,166	\$1,101
HYOLA® 555TT COJ	TT	1.9268	0.1130	42.1	100.15	\$1,158	\$1,093
HYOLA® 555TT GJ	TT	1.8743	0.1122	42.0	100.00	\$1,125	\$1,060
CRUSHER TT	TT	1.8572	0.1118	41.0	98.50	\$1,098	\$1,053
HYOLA 559TT F2	TT	1.6740	0.1121	44.1	103.15	\$1,036	\$1,026
ATR GEM	TT	1.7403	0.1123	43.6	102.40	\$1,069	\$1,024
HYOLA® 555TT COM	TT	1.7581	0.1127	41.4	99.10	\$1,045	\$980
ATR STINGRAY	TT	1.6449	0.1124	43.1	101.65	\$1,003	\$958
CB JUNE HT	TT	1.6960	0.1141	42.0	100.00	\$1,018	\$953
CB JARDEE HT	TT	1.7351	0.1140	40.1	97.15	\$1,011	\$946
ATR SNAPPER	TT	1.5316	0.1148	45.3	104.95	\$964	\$919
JACKPOT TT	TT	1.4367	0.1118	43.9	102.85	\$887	\$842
HYOLA 656TT F2	TT	1.4080	0.1155	40.3	97.45	\$823	\$813
THUMPER TT	TT	1.3267	0.1102	43.1	101.65	\$809	\$764
HYOLA 555TT F2	TT	1.2865	0.1135	38.9	95.35	\$736	\$726

TECHNICAL SUPPORT

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