



# AgGrow

AGRONOMY + RESEARCH



## 2025 CANOLA VARIETY EVALUATION TRIALS

Beelbangera, NSW

INDEPENDENT AGRONOMY ADVICE + CUTTING EDGE RESEARCH

# Evaluating Conventional/Clearfield, Glyphosate & Triazine Tolerant Canola Varieties

## KEY POINTS

- Despite the dry conditions experienced throughout the 2025 season, canola performed well at the Beelbangera site, due to a timely sowing and timely establishing rain.
- Overall, out of the three canola trials, the Triazine Tolerant (TT) trial had the lowest average yield, yielding 3515 kg/ha, compared to 4101 kg/ha for the Conventional/Clearfield trial and 4233 kg/ha for the Glyphosate trial.
- Several varieties produced high yields in each trial including some experimental lines. Standouts in the Conventional/Clearfield trial were 223907, 874861, Ceres IMI, PY421C and Hyola Solstice CL; Standouts in the Glyphosate trial were PY428R, InVigor LR5040P, InVigor LR4540P and Nuseed Hunter TF; and the standout in the Triazine Tolerant trial was TT224660.
- All varieties in all 3 trials, achieved an oil content above 42%, producing oil premiums.

## BACKGROUND

The canola variety evaluation trials at Beelbangera are designed to complement existing canola National Variety Trials (NVT) in SW NSW. Results from these trials should be considered alongside long-term MET analysis from NVT, as it is important not to rely solely on data from a single trial in one year when making decisions about new varieties.

Varieties included in the trials in 2025 were selected by Ag Grow Agronomy in conjunction with the collaborating seed companies. In 2025 the trials were a collaboration with Advanta Seeds, AGT, BASF, Nufarm Seeds, Nutrien Ag Solutions and Pioneer Seeds. The trials compared currently grown commercially varieties, newly released varieties and potential numbered lines suited to the area.

Three separate trials were conducted covering the various herbicide tolerant technologies and 'stacked' herbicide tolerance in 2025. A Conventional/ Clearfield (CL) trial; a Glyphosate trial featuring Roundup Ready

(RR), TruFlex, TruFlex plus LibertyLink (LL), and Truflex + CL varieties; and a Triazine Tolerant (TT) trial featuring TT, CL+TT and LL+TT varieties.

In 2025, Nufarm's newly released IMI-tolerant variety Vesta IMI, AGT's newly released AGT-Insurgent TT and BASF's new dual LibertyLink® and triazine herbicide-tolerant variety InVigor® LT4030P were included in the trials.

## TRIAL DETAILS

In April 2025 three separate fully replicated small plot trials were designed and established, grouping entries according to their herbicide tolerance: Clearfield/ Conventional, Glyphosate, and Triazine Tolerant (TT). They were established at the Ag Grow Agronomy research farm, "Ridgetop," located in Beelbangera, 16 km northeast of Griffith.

The Clearfield/Conventional trial included 8 entries, the Glyphosate trial 13 entries, and the Triazine Tolerant trial 20 entries (Table 1). Each trial was managed according to its respective herbicide technology, and the characteristics of each variety are detailed in Table 2.

*Table 1: 2025 Canola variety trials - entries per trial.*

CL - Clearfield/ Conventional		
1	Hyola Solstice CL	Pac Seeds
2	223907	Pac Seeds
3	874861	Pac Seeds
4	Outlaw	AGT
5	Ceres IMI	Nufarm
6	Vesta IMI	Nufarm
7	PY421C	Pioneer
8	44Y94CL	Pioneer

Glyphosate & Stacked		
1	Hyola Regiment XC	Pac Seeds
2	437887	Pac Seeds
3	414197	Pac Seeds
4	Nuseed Hunter TF	Nufarm
5	Nuseed Emu TF	Nufarm
6	NCH22Q951	Nufarm
7	InVigor LR4540P	BASF
8	InVigor LR3540P	BASF
9	LR017	BASF
10	InVigor LR5040P	BASF
11	InVigor R4520P	BASF
12	PY424GC	Pioneer
13	PY428R	Pioneer

Triazine Tolerant & Stacked		
1	Hyola Defender CT	Pac Seeds
2	Hyola Blazer TT	Pac Seeds
3	TT224660	Pac Seeds
4	CT222309	Pac Seeds
5	RenegadeTT	AGT
6	Insurgent TT	AGT
7	HyTTec Velocity	Nufarm
8	HyTTec Trophy	Nufarm
9	HyTTec Trident	Nufarm
10	HyTTec Trifecta	Nufarm
11	Nuseed Griffon TTI	Nufarm
12	NMH22T033	Nufarm
13	DG Bidgee TT	Nutrien
14	DG Avon TT	Nutrien
15	Invigor LT4530P	BASF
16	InVigor® LT4030P	BASF
17	PY429T	Pioneer
18	PY520TC	Pioneer
19	ATR Bonito	Nufarm
20	ATR Swordfish	Nufarm

Soil tests conducted prior to sowing showed a pH (CaCl<sub>2</sub>) of 5.8, total nitrogen (0-60 cm) of 67 kg N/ha, Colwell phosphorus of 39 ppm and S of 5 ppm (MCP). Paddock history was field peas 2024 and wheat 2023.

The trials were sown dry on April 15<sup>th</sup> 2025, with 120 kg/ha Superfect. 160 kg/ha Green Urea was spread at the end of March in front of a rain event. Sowing rates for each variety were calculated to achieve a target plant population of 40 plants/m<sup>2</sup>, with an 80% field establishment rate, using seed size and germination percentage provided by the company for each line.

Trials were sprayed pre-sowing with 2L Treflan plus 2L Paraquat. Appropriate pest, disease, and weed control was undertaken in crop, to ensure a weed, insect and disease free canopy. The trials were desiccated before harvest and were harvested on 10<sup>th</sup> November 2025.

### Seasonal Conditions 2025

Conditions for the first 4 months of the year were dry, with below average rainfall and above average temperatures. Warm and dry conditions persisted into May, with some much-needed rain towards the end of the month, table 3.

The trial was sown dry, with establishing rain late April (12mm on 26<sup>th</sup> April). Timely follow up rain occurred mid-late May (20mm 23<sup>rd</sup> May) as well as mid-late June (15mm 24<sup>th</sup> June), before the crop accessed stored moisture. With warmer, windy days and frosts impacting topsoil moisture, below average rainfall continued throughout June, July and August as drought conditions strengthened. Much needed rain occurred in early September, setting up the crop.

*Table 3: Rainfall for Ridgetop 2025, compared to Griffith Airport and long-term Griffith rainfall data (Griffith Airport - nearest met station). \* to 17.11.2025*

MONTH	Ridgetop Rainfall 2025	Griffith Airport 2025	Griffith Airport Long Term (1958 to 2025)
January	4	4.4	36.3
February	18	23.6	28
March	32	25	35.3
April	13.5	12.4	29.3
May	18	14.8	36.1
June	25	29	35.1
July	24.5	22.4	32.4
August	9.5	17	34.9
September	50.5	32.8	32.7
October	25.5	7.2	39.4
*November	8.5	11.8	
December			
<b>TOTAL</b>	<b>229</b>	<b>200.4</b>	<b>339.5</b>
<b>GSR (April - Oct)</b>	<b>166.5</b>	<b>135.6</b>	<b>239.9</b>

Table 2: 2025 variety characteristics of each of the trial entries.

CL - Clearfield/ Conventional									
VARIETY	Herbicide Tolerance	Type	Maturity	Plant Height	Blackleg Rating Feb 2025	Blackleg Upper canopy infection Rating	Blackleg Group Autumn 2025	Company	Comments as provided by the company
Hyola Solstice CL	CL	Hybrid	early-mid	med-tall	R	R	ADFH	Pac Seeds	High early plant vigour with unique quad group resistance, ADFH for both UCI and canker blackleg resistance , with very high oil%, proven adaptation from 1.0 to 3.5t/ha.
223907								Pac Seeds	early-mid experimental CL hybrid.
874861								Pac Seeds	early-mid experimental CL hybrid.
Outlaw	Conv	OP	early	med-tall	R-MR	MR	A	AGT	Conventional, open pollinated variety. Very quick to flower, similar to Nuseed Diamond and quicker than AV Garnet. Excellent oil content. Similar plant height to AV Garnet.
Ceres IMI	IMI Tolerant	Hybrid	early	med-tall	R-MR	MR	AD	Nufarm	Suited to quick canola growing regions, Good Blackleg resistance and harvestability.
Vesta IMI	IMI Tolerant	Hybrid	early-mid	med	R	MR	ABD	Nufarm	Nufarm's new early-mid maturing IMI-tolerant variety. Combines strong yield potential with standout oil content and a maturity profile perfectly suited for mid-April to early May sowing programs. IMI herbicide tolerance — a new variety option for flexible rotations and effective in-crop weed control .Early-mid maturity (4 series) with mid-fast phenology, Class-leading oil content combined with strong yield performance in low to medium-rainfall zones. Strong blackleg resistance for enhanced paddock protection.
PY421C	CL	Hybrid	early-mid	med	R-MR	MR	A	Pioneer	Great fit for MIA/SW NSW area with planting date from the 15th April onwards. As a compact hybrid, it builds pods low in the canopy to be the highest yielding Clearfield hybrid in the early to mid-maturity class.
44Y94CL	CL	Hybrid	early-mid	med-tall	R-MR	MR	BC	Pioneer	Benchmark hybrid for early to mid-season Clearfield. Very adaptable for low and high Rainfall areas. Suits mid-April planting.
XX/RR/XC - Glyphosate & Stacked									
Hyola Regiment XC	Truflex + CL	Hybrid	early-mid	med-tall	R	R	ADFH	Pac Seeds	Australia's #1 Dual herbicide tolerant hybrid with even flowering, manageable height for direct harvesting along with an exceptional blackleg rating of "R" with unique quad group resistance, ADFH for both UCI and canker blackleg resistance , with very high oil%, proven adaptation from 1.0 to 4.0t/ha.
437887								Pac Seeds	experimental early-mid TruFlex hybrid.
414197								Pac Seeds	experimental mid-early TruFlex hybrid.
Nuseed Hunter TF	Truflex	Hybrid	early-mid	med	R-MR	MR	AB	Nufarm	Adaptability from low to high rainfall regions and good pod shatter tolerance.

VARIETY	Herbicide Tolerance	Type	Maturity	Plant Height	Blackleg Rating Feb 2025	Blackleg Upper canopy infection Rating	Blackleg Group Autumn 2025	Company	Comment <i>as provided by the company</i>
Nuseed Emu TF	Truflex	Hybrid	early	med	MR	MR	AB	Nufarm	TruFlex® canola with Roundup Ready® Technology. MR blackleg rating (AB Blackleg group). Medium plant height with good harvestability.
NCH22Q951	Truflex	Hybrid	early-mid					Nufarm	Experimental – Early-Mid Truflex Hybrid.
InVigor LR4540P	TruFlex + LL	Hybrid	early-mid	med	R-MR	MR	B	BASF	Combines PodGuard, Truflex and Liberty Link traits to give growers more options for controlling problem weeds in-crop with the harvest benefits of PodGuard. A high yielding variety with broad adaptation across low- med and medium rainfall zones.
InVigor LR3540P	TruFlex + LL	Hybrid	early	short-med	MR	MR	AB	BASF	PodGuard, Truflex and Liberty Link traits to give growers flexibility. Early maturing variety that will have a good fit in low-medium rainfall zones.
LR017								BASF	2nd year NVT in 2025, ear-marked for 2027 market entry high-yielding GM with LibertyLink & Truflex tolerance with Podguard. Similar maturity to NuSeed Hunter in SNSW.
InVigor LR5040P	TruFlex + LL	Hybrid	mid	med	R-MR	MR	AB	BASF	Combines PodGuard, Truflex and Liberty Link traits to give growers more options for controlling problem weeds in-crop with the harvest benefits of PodGuard. A high yielding variety ideally suited to medium to med-high rainfall zones.
InVigor R4520P	Truflex	Hybrid	early-mid	med	MR-MS	MR-MS	B	BASF	3.14 t/ha PodGuard with Truflex® Technology. Industry leading yield in the glyphosate tolerant segment for across Australia with a very broad adaptation.
PY424GC	Crucial GLY (2 lf-flower window) + CL	Hybrid	early-mid	med	MR	MR	BC	Pioneer	Stacked Optimum GLY + Clearfield combination. Excellent resilience and yield potential in low-medium rainfall areas. Well suited to Riverina dryland west of Newell Hwy, where tolerance of the lmi-herb group is an advantage based on previous herbicide usage in margin moisture conditions. Optimum GLY allows 3x passes of 1.8L Crucial herb. with a min. 2 weeks between passes.
PY428R	1st Gen RR	Hybrid	early-mid	med	R	MR	B	Pioneer	Early flowering & Maturity. Exceptional top end yield. Early plant in low/medium rainfall environment. High yield in range of environments. Compact plant with high oil and good shatter tolerance.
<b>CT &amp; TT - Triazine Tolerant &amp; Stacked</b>									
Hyola Defender CT	CL + TT	Hybrid	mid-early	med	R	MR	ADF	Pac Seeds	Clearfield + TT Stacked hybrid with similar yields to Hyola Blazer TT & PY520TC; R Rated for Blackleg, Groups ADF, High Oil, excellent standability, adapted from 1.50 to 5.0t/ha.

VARIETY	Herbicide Tolerance	Type	Maturity	Plant Height	Blackleg Rating Feb 2025	Blackleg Upper canopy infection Rating	Blackleg Group Autumn 2025	Company	Comment <i>as provided by the company</i>
Hyola Blazer TT	TT	Hybrid	early-mid	med	R-MR	MR	ADF	Pac Seeds	Equal Highest #1 TT hybrid with top yields across NSW/VIC/SA NVT Trials, ADF R-MR Rated for Blackleg, excellent standability and now approx 5% of Australia's canola crop, proven adaptation from 1.0 to 5.0t/ha.
TT224660	TT							Pac Seeds	Experimental early TT hybrid.
CT222309	CL + TT							Pac Seeds	Experimental mid-early CT hybrid.
RenegadeTT	TT	OP	early-mid	short-med	MR	MR	A	AGT	Triazine tolerant, open pollinated variety. Slightly quicker to flower than ATR Bonito. Best performance under medium yield potential conditions. Short-medium plant height with good standability.
AGT-Insurgent TT	TT	OP	mid	tall	MRMS	MR-MS	-	AGT	The highest yielding triazine tolerant, open pollinated canola in AGT and NVT trials; Mid season maturity; Excellent oil content; MRMS blackleg rating (bare seed)
HyTTec Velocity	TT	Hybrid	early	med	MR	MR	AB	Nufarm	MR-MS Blackleg (AB group); compact plant height and improved pod shatter genetics.
HyTTec Trophy	TT	Hybrid	early to early-mid	med-tall	R	MR	AD	Nufarm	2.86t/ha R blackleg rating (AD Blackleg group)
HyTTec Trident	TT	Hybrid	early	med-tall	R	MR	AD	Nufarm	2.52 t/ha R blackleg rating (AD Blackleg group)
HyTTec Trifecta	TT	Hybrid	mid	med-tall	R	MR	ABD	Nufarm	R blackleg rating (ABD group)
Nuseed Griffon TTI	IMI + TT	Hybrid	early-mid	med-tall	R-MR	MR	AC	Nufarm	Dual herbicide tolerance of IMI tolerance and TT. It is a hybrid variety that has a maturity of early/mid (4), R-MR blackleg rating and AC blackleg group. Good standability and medium plant height.
NMH22T033	TT	HOLL Hybrid	early-mid	med-tall				Nufarm	Experimental – Early-Mid Monola TT Hybrid.
DG Bidgee TT	TT	OP	early-mid	med	R	R	H	Nutrien	Mid maturing open pollinated TT that yields significantly better than older TT OPs in this maturity class. It is rated R for blackleg and group H resistance with good oil content.
DG Avon TT	TT	OP	early	short	MR	MR	AC	Nutrien	Early, short, very determinate open pollinated TT that is a significant yield improvement over ATR-Stingray. Rated MR for blackleg, Groups AC with good oil.
Invigor LT4530P	LL + TT	Hybrid	early-mid	med	R-MR	MR	BF	BASF	PodGuard; GM; LibertyLink canola variety; Improved control of resistant annual ryegrass.
InVigor® LT4030P	LL + TT	Hybrid	early-mid	med	R		B	BASF	Podguard; GM; LibertyLink canola variety; Improved post-emergent control of resistant annual ryegrass.

VARIETY	Herbicide Tolerance	Type	Maturity	Plant Height	Blackleg Rating Feb 2025	Blackleg Upper canopy infection Rating	Blackleg Group Autumn 2025	Company	Comment as provided by the company
PY429T	TT	Hybrid	early-mid	med	R	R	ABH	Pioneer	Perfect fit for all early planting canola hybrid TT growers sowing from 10th April onwards. The most vigorous hybrid TT on the market to date and shows characteristics like a Clearfield hybrid which is super impressive. Rotating the blackleg grouping as an ABH, we see very clean leaves through vegetation in the 2025 season.
PY520TC	TT/CL	Hybrid	mid	med	R-MR	MR	BC	Pioneer	Mid-fast phenology, the stacked TT / CL offers high yield potential suited for irrigation and the combination stacked herbicide tolerance offers handy herbicide residue management if not OTT application for superior weed control. Moderate early vigour with short-mid height the BC blackleg major genes offer an MR rating.
ATR Bonito	TT	OP	early to early-mid	short-med	MS	MS	A	Nufarm	MS blackleg rating (A Blackleg group) EPR=\$5/t +GST
ATR Swordfish	TT	OP	early-mid	med	MR-MS	MR-MS	AB	Nufarm	EPR=\$5/t +GST

## RESULTS

All plots were assessed for crop establishment, NDVI (Normalised Difference Vegetation Index), lodging at harvest, crop yield (t/ha) and oil content (%). Statistical analysis was carried out using the most appropriate methods: ASReml or ANOVA (Analysis of Variance) in Genstat.

### Establishment:

Crop establishment was assessed at the end of May at the 3-4 leaf stage.

Establishment was evaluated using a scoring system, with each plot rated from 0 to 9, where 0 indicated poor establishment and 9 indicated very even establishment.

All the canola trials established well, despite the conditions. The establishment scores were 7.5, 7.5 and 7.6 for the Conventional/Clearfield trial, Glyphosate trial and Triazine Tolerant trial respectively figure 1.

Figure 1: Establishment of the canola trials, May 2025- Conventional/Clearfield (left), Glyphosate (middle) and Triazine Tolerant (right).



## NDVI at Flowering:

An NDVI reading on each trial was obtained using a handheld GreenSeeker crop sensor just before flowering, to determine crop vigour and crop health, figure 2.

Figure 2: NDVI taken end July 2025 - Conventional/Clearfield (top), Glyphosate (middle) and Triazine Tolerant (bottom).



The average NDVI of the Conventional/Clearfield trial was 0.76, with the numbered line 874861 having the highest value, table 4.

Table 4: Conventional/Clearfield Trial NDVI data, 24<sup>th</sup> July 2025.

VARIETY	NDVI Value	Sig Diff
223907	0.77	a
44Y94CL	0.76	ab
874861	0.78	a
Hyola Solstice CL	0.74	bc
Vesta IMI	0.77	a
Ceres IMI	0.77	a
Outlaw	0.71	c
PY421C	0.76	a
<b>mean</b>	<b>0.76</b>	
<b><i>l.s.d (p=0.05)</i></b>	<b>0.026</b>	

Means followed by same letter do not significantly differ

The average NDVI of the Glyphosate trial was 0.76, with Nuseed Emu TF having the lowest value in the trial, table 5.

Table 5: Glyphosate Trial NDVI data, 24<sup>th</sup> July 2025.

VARIETY	NDVI Value	Sig Diff
414197	0.78	a
437887	0.77	a
Hyola Regiment XC	0.76	ab
InVigor LR3540P	0.75	b
InVigor LR4540P	0.78	a
InVigor LR5040P	0.76	ab
InVigor R4520P	0.77	ab
LR017	0.78	a
NCH22Q951	0.78	a
Nuseed Emu TF	0.71	c
Nuseed Hunter TF	0.77	ab
PY424GC	0.78	a
PY428R	0.77	ab
<b>mean</b>	<b>0.76</b>	
<b><i>l.s.d (p=0.05)</i></b>	<b>0.026</b>	

Means followed by same letter do not significantly differ

The average NDVI of the TT trial was 0.74. The lined variety NMH22T033 had the highest value in the trial, table 6.

Table 6: Triazine Tolerant NDVI data, 24<sup>th</sup> July 2025.

VARIETY	NDVI Value	Sig Diff
Insurgent TT	0.75	bcdef
InVigor® LT4030P	0.74	fgh
ATR_Bonito	0.72	hi
ATR_Swordfish	0.71	i
CT222309	0.73	fgh
DG Avon TT	0.66	j
DG Bidgee TT	0.72	ghi
Hyola Blazer TT	0.77	abcd
Hyola Defender CT	0.74	efgh
HyTTec Trident	0.76	abcde
HyTTec Trifecta	0.77	ab
HyTTec Trophy	0.75	defg
HyTTec Velocity	0.73	fgh
Invigor LT4530P	0.72	hi
NMH22T033	0.78	a
Nuseed Griffon TTI	0.74	efg
PY429T	0.77	abcd
PY520TC	0.77	abc
RenegadeTT	0.72	hi
TT224660	0.75	cdef
<b>mean</b>	<b>0.74</b>	
<b><i>l.s.d (p=0.05)</i></b>	<b>0.024</b>	

Means followed by same letter do not significantly differ

### Grain Yield & Oil Content:

The trials were harvested 10<sup>th</sup> November 2025. Lodging was minimal at harvest, as such lodging scores are not shown.

#### Grain Yield:

**Conventional/Clearfield Trial:** Conventional and Clearfield varieties performed well, recording an average yield of 4,101 kg/ha. Yields ranged from 3,409 kg/ha for Outlaw to 4,474 kg/ha for the lined variety 223907. The lined variety 223907 yielded similarly to five other varieties included in the trial (Figure 3).

**Glyphosate Trial:** The Glyphosate trial achieved an average grain yield of 4,233 kg/ha. Yields ranged from 3,299 kg/ha for Nuseed Emu TF to 4,950 kg/ha for PY428R. Other high performing varieties included InVigor LR5040P, InVigor LR4540P and Nuseed Hunter TF (Figure 4).

**Triazine Tolerant Trial:** Triazine-tolerant varieties also yielded well, ranging from 2,855 kg/ha for ATR Swordfish to 4,369 kg/ha for the lined variety TT224660. The trial recorded an average yield of 3,515 kg/ha. Strong performers included InVigor® LT4030P, CT222309, Hyola Blazer TT, HyTTec Trident, HyTTec Trifecta and NMH22T033 (Figure 5).

Figure 3: Grain yield of the Conventional/Clearfield trial - harvested 10<sup>th</sup> November 2025

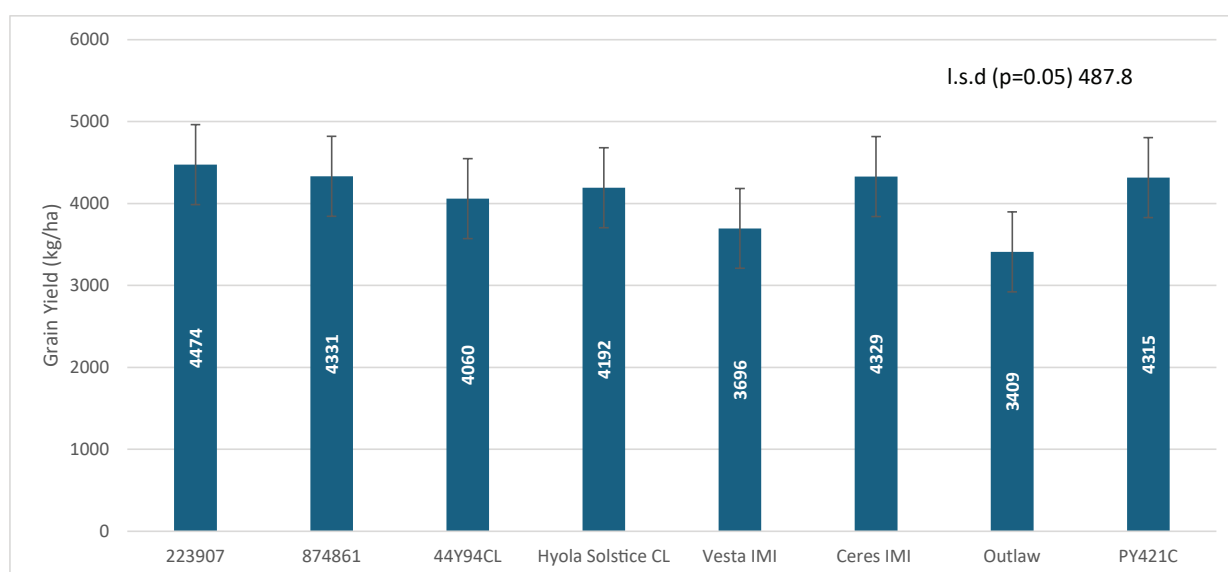


Figure 4: Grain yield of the Glyphosate trial - harvested 10<sup>th</sup> November 2025.

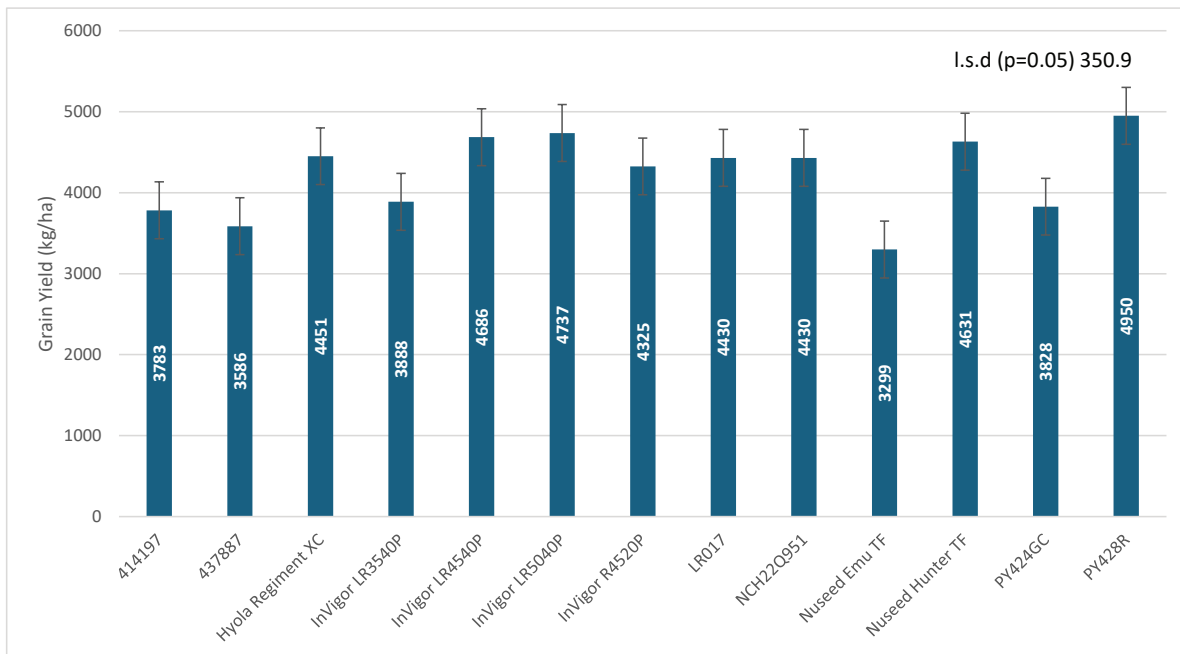
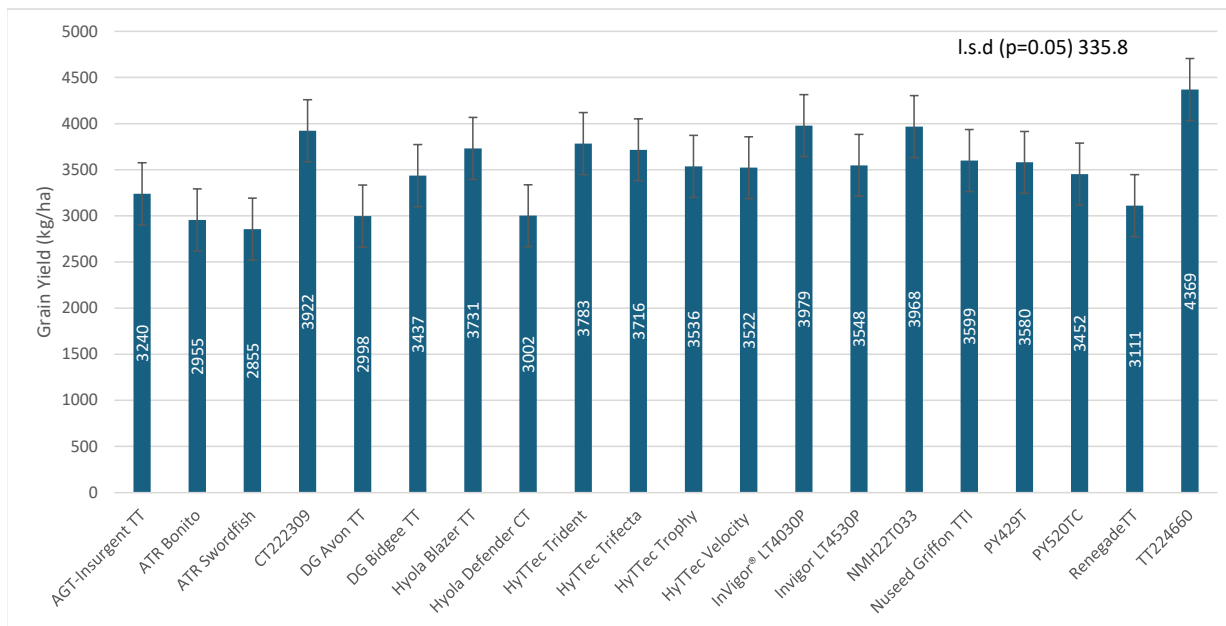


Figure 5: Grain yield of the Triazine Tolerant trial - harvested 10<sup>th</sup> November 2025.



### Oil Content:

**Conventional/Clearfield Trial:** The average oil content for the Conventional/Clearfield trial was 45.91%, with values ranging from 44.76% for PY421C to 47.18% for Hyola Solstice CL (Table 5).

Table 5: Grain Oil contents for the Conventional/Clearfield trial

VARIETY	Grain Oil (%)	Sig diff
223907	45.77	bcd
44Y94CL	45.01	d
874861	46.84	ab
Hyola Solstice CL	47.18	a
Vesta IMI	46.66	abc
Ceres IMI	45.53	cd
Outlaw	45.51	cd
PY421C	44.76	d
<b>mean</b>	<b>45.91</b>	
<b>I.s.d (p=0.05)</b>	<b>1.226</b>	

Means followed by same letter do not significantly differ

**Glyphosate Trial:** Oil content in the Glyphosate trial averaged 44.98%, ranging from 42.48% for Nuseed Emu TF to 46.91% for Hyola Regiment XC (Table 6).

Table 6: Grain Oil contents for the Glyphosate trial

VARIETY	Grain Oil (%)	Sig diff
414197	45.31	bc
437887	44.6	cd
Hyola Regiment XC	46.91	a
InVigor LR3540P	45.71	b
InVigor LR4540P	45.86	b
InVigor LR5040P	44.39	d
InVigor R4520P	43.16	e
LR017	45.48	bc
NCH22Q951	45.03	bcd
Nuseed Emu TF	42.48	e
Nuseed Hunter TF	45.5	bc
PY424GC	45.47	bc
PY428R	44.8	cd
<b>mean</b>	<b>44.98</b>	
<b>I.s.d (p=0.05)</b>	<b>0.8967</b>	

Means followed by same letter do not significantly differ

**Triazine Tolerant Trial:** The Triazine tolerant trial recorded an average oil content of 44.3%, with results ranging from 42.15% for PY520TC to 48.16% for NMH22T033 (Table 7).

Table 7: Grain Oil contents for the Triazine Tolerant trial

VARIETY	Grain Oil (%)	Sig diff
Insurgent TT	44.19	ef
InVigor® LT4030P	44.27	ef
ATR Bonito	45.8	b
ATR Swordfish	44.86	de
CT222309	44.59	de
DG Avon TT	45.02	d
DG Bidgee TT	43.77	fg
Hyola Blazer TT	44.27	ef
Hyola Defender CT	42.62	hi
HyTTec Trident	44.7	de
HyTTec Trifecta	43.79	fg
HyTTec Trophy	43.2	gh
HyTTec Velocity	43.96	f
Invigor LT4530P	45.7	bc
NMH22T033	48.16	a
Nuseed Griffon TTI	43.26	gh
PY429T	42.44	i
PY520TC	42.15	i
RenegadeTT	44.25	e
TT224660	45.05	cd
<b>mean</b>	<b>44.3</b>	
<b>I.s.d (p=0.05)</b>	<b>0.6729</b>	

Means followed by same letter do not significantly differ



## DISCUSSION

It is important to recognise that these trials are only one set of trials in one season. When deciding which variety to grow, it is essential not to rely solely on data from a single trial in a single year. Therefore, data from these trials should be used in conjunction with long-term MET analysis through NVT, which incorporates five years of data across multiple sites.

While yield is an important factor to consider when choosing canola varieties, other variety characteristics and agronomic traits such as disease, maturity and herbicide tolerance should also be considered.

The trial site received 67mm of rain in November and 23mm in December late 2024, which started the fallow for the paddock. In 2025 there was 54mm from January to March and 166.5mm growing season rainfall from April to October, although October rain (25.5mm) was too late for these trials. Given these conditions, yields achieved in this trial can also be attributed to our timely April sowing. The trial was sown dry on 15th April with establishing rains occurring around Anzac Day with 13.5mm. This was ideal for early crop establishment and biomass production, getting the crop off to a good start and allowing it to access subsoil moisture.

Varieties to perform particularly well in 2025 were some of the experimental lines in the Conventional/Clearfield trial and Triazine Tolerant trial, with Nuseed Hunter TF, InVigor LR4540P, InVigor LR5040P and PY428R top performers for grain yield in the Glyphosate trial.

Of the 41 varieties trialled in these 3 trials, all varieties achieved an oil content above 42%. Varieties with exceptional oil content above 46% included 874861, Hyola Solstice CL and Vesta IMI in the Conventional/Clearfield trial; Hyola Regiment XC in the Glyphosate trial and the lined variety NMH22T033 in the Triazine Tolerant trial.

## ACKNOWLEDGEMENTS

In 2025 these trials were a collaboration with AGT, BASF, Nufarm Seeds, Nutrien Ag Solutions, Pacific Seeds and Pioneer Seeds.



### Further contacts

Barry Haskins

Ag Grow Agronomist

[barry@aggrowagronomy.com.au](mailto:barry@aggrowagronomy.com.au)

Rachael Whitworth

Ag Grow Research Manager

[rachael@aggrowagronomy.com.au](mailto:rachael@aggrowagronomy.com.au)