

## Triazine Tolerant (TT) Canola variety response to herbicides in NSW

This research has been conducted across regional NSW to determine if new and existing varieties of canola vary in tolerance to commonly used herbicides.

The sensitivity of the variety is summarised, using the following symbols based on the yield responses across all trials:	
-	not tested or insufficient data
✓	no significant yield reductions at recommended rates or higher than recommended rates in 2+ trials
N	(narrow margin) significant yield reductions at higher than recommended rate in 1+ trials, but not at recommended rate
x%	yield reduction (warning) significant yield reduction at recommended rate in 1 trial only
x-y%	yield reductions (warning) significant yield reductions at recommended rate in 2+ trials

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Herbicide		Triflur X®	Triflur X®	Stomp®	Avadex ®	Dual Gold	Atrazine	Simazine	Verdict 520
		Trifluralin 480	Trifluralin 480	Pendimethalin	Triallate	S-Metolachlor	Atrazine	Simazine	Haloxypop-R
Variety	Years Tested	1998	2002-2005	2002-2005	2002-2003	2002-2004	1998-2004	1998-2004	2000-2001
ATR Beacon	2001-2005	-	✓	✓	-	✓	✓	✓	-
ATR Eyre	2002	-	-	-	-	-	✓	✓	-
ATR Grace	2001-2005	-	✓	N	✓	✓	✓	N	✓
ATR Hyden	2001-2004	-	-	-	-	-	✓	✓	-
ATR Stubby	2004-2005	-	✓	✓	-	✓	✓	✓	-
BravoTT	2004	-	-	-	-	-	✓	N	-
Clancy	1998-2000	✓	-	-	-	-	✓	✓	N
Drum	1998-2000	✓	-	-	-	-	N	✓	✓
Karoo	1998-1999	✓	-	-	-	-	✓	✓	-
Surpass 501TT	2001-2003	-	✓	✓	✓	✓	✓	✓	-
Surpass 600TT	1999-2001	-	-	-	-	-	✓	✓	✓
Tornado 555TT	2004-2005	-	✓	✓	-	✓	✓	✓	-
TI1-Pinnacle	1998-2002	✓	✓	✓	✓	✓	✓	✓	✓
Tranby	2004	-	-	-	-	-	✓	N	-
Rates (product/ha)		1.6 L	1.5 L	1.2 L	1.6 L	250 ml	2 L	2 L	100mls
Crop stage at spraying		Pre-em	IBS	IBS	IBS	PSPE	PSPE	PSPE	5-6 L

Herbicide		Fusion®	Lontrel®	Aramo®			Atrazine® + Verdict® + Lontrel® + Uptake®
Variety	Years Tested	Fluazifop-p + Butoxydim	Clopyalid	Tepraloxydim			
		1999-2004	1998-2000	2004	2004	2004	2001-2004
ATR Beacon	2001-2005	✓	-	✓	N	12 - 23	✓
ATR Eyre	2002	✓	-	-	-	-	✓
ATR Grace	2001-2005	16	-	✓	✓	24	✓
ATR Hyden	2001-2004	✓	-	-	-	-	✓
ATR Stubby	2004-2005	✓	-	✓	N	13 - 36	✓
BravoTT	2004	✓	-	-	-	-	N
Clancy	1998-2000	✓	✓	-	-	-	-
Drum	1998-2000	✓	✓	-	-	-	-
Karoo	1998-1999	✓	✓	-	-	-	-
Surpass 501TT	2001-2003	✓	-	-	-	-	✓
Surpass 600TT	1999-2001	✓	✓	-	-	-	✓
Tornado 555TT	2004-2005	✓	-	✓	✓	11 - 57	✓
TI1-Pinnacle	1998-2002	✓	✓	-	-	-	N
Tranby	2004	N	-	-	-	-	✓
Rates (product/ha)		280 g	300 mls	300mls	300mls	300mls	1L+ 100ml + 300ml + 0.1%L
Crop stage at spraying		4-6 L	4 L	4 L	6-8 L	Start of stem elong.	4-7 L

Research site location: peter.lockley@dpi.nsw.gov.au  
 Wagga Wagga, New South Wales  
 Site soil type : Red Brown Earth  
 Site pH : 4.5  
 Site annual average rainfall: 530 mm



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## Conventional Canola variety response to herbicides in NSW

This research has been conducted across regional NSW to determine if new and existing varieties of canola vary in tolerance to commonly used herbicides.

The sensitivity of the variety is summarised, using the following symbols based on the yield responses across all trials:

-	not tested or insufficient data
✓	no significant yield reductions at recommended rates or higher than recommended rates in 2+ trials
N	(narrow margin) significant yield reductions at higher than recommended rate in 1+ trials, but not at recommended rate
x%	yield reduction (warning) significant yield reduction at recommended rate in 1 trial only
x-y%	yield reductions (warning) significant yield reductions at recommended rate in 2+ trials

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Herbicide	Variety	Years Tested	Triflur X®	Triflur X®	Stomp®	Avadex®	Dual Gold	Targa®	Verdict 520
			Trifluralin 480	Trifluralin 480	Pendimethalin	Triallate	S-Metolachlor	Quizalofop-P-ethyl	Haloxyfop-R
			1998-2000	2001-2005	2002-2005	2000-2003	2000-2004	2002	1998-2002
	45C05*	2003-2004	-	✓	-	-	-	-	-
	45C75	2004	-	✓	-	-	-	-	-
	46C03	200-2002	✓	✓	-	✓	✓	-	✓
	46C04*	2003-2004	-	N	-	-	-	-	-
	47C02	1999-2001	-	✓	-	-	-	-	-
	Ag Castle*	2002-2003	-	✓	-	-	-	-	-
	Ag - Comet	2004	-	N	-	-	-	-	-
	Ag- Drover	2004	-	✓	-	-	-	-	-
	Ag Emblem	2000-2003	✓	✓	-	✓	✓	-	✓
	Ag Outback	2001-2004	✓	✓	✓	✓	✓	✓	✓
	Ag Spectrum	2004	-	✓	-	-	-	-	-
	AV Sapphire	2002-2005	-	✓	✓	-	✓	-	-
	Charlton	1998	✓	-	-	-	-	-	✓
	Dunkeld	1998	✓	-	-	-	-	-	N
	Georgie	200-2001	✓	14	-	✓	✓	-	✓
	Grouse	1998	N	-	-	-	-	-	✓
	Hyola 60*	2001-2003	-	9	-	-	-	-	-
	Insignia	2000	✓	-	-	✓	✓	-	✓
	Kimberley	2004	-	✓	-	-	-	-	-
	Lantern	2002-2004	-	✓	-	-	-	-	-
	Monty	1998-2001	✓	✓	-	-	-	-	25
	Mystic	1999-2003	15	✓	-	✓	✓	-	✓
	Oscar	1998-2003	✓	N	✓	✓	✓	✓	✓
	Purler	2000-2001	✓	14	-	✓	✓	-	✓
	Rainbow	1998-2004	✓	N	✓	✓	✓	✓	✓
	Ripper	2000-2001	✓	✓	-	✓	✓	-	✓
	Rivette	2002-2005	✓	✓	✓	✓	✓	✓	✓
	Scoop	1998	✓	-	-	-	-	-	✓
	Skipton	2004	-	N	-	-	-	-	-
	Surpass 400	2001-2004	-	✓	-	-	-	-	-
	Surpass 600	1999-2001	-	✓	-	-	-	-	-
	Rates (product/ha)		1.6 L	1.5 L	1.2 L	1.6 L	250 mL	375 mL	100 mL
	Crop stage at spraying		Pre-Em	IBS	IBS	IBS	PSPE	2-6 L	5-6 L

Herbicide		Lontrel ®	Lontrel ® + Verdict ®	Fusilade WG ®	Select ®	Sertin ®	Fusion ®
		Clopyralid	Clopyralid + Haloxyfop-R	Fluazifop-p	Clethodim	Sethoxydim	Fluazifop-p + Butroxydim
Variety	Years Tested	1998-2002	1999-2004	1999	1999-2004	2000	1998-2004
45C05*	2003-2004	-	✓	-	✓	-	✓
45C75	2004	-	✓	-	✓	-	✓
46C03	200-2002	✓	✓	-	✓	✓	✓
46C04*	2003-2004	-	✓	-	✓	-	✓
47C02	1999-2001	✓	✓	✓	✓	-	✓
Ag Castle*	2002-2003	-	✓	-	✓	-	✓
Ag - Comet	2004	-	✓	-	✓	-	✓
Ag - Drover	2004	-	N	-	N	-	✓
Ag Emblem	2000-2003	✓	✓	-	✓	✓	N
Ag Outback	2001-2004	✓	✓	-	✓	-	✓
Ag Spectrum	2004	-	✓	-	✓	-	✓
AV Sapphire	2002-2005	-	N	-	N	-	✓
Charlton	1998	✓	-	-	-	-	✓
Dunkeld	1998	✓	-	-	-	-	✓
Georgie	200-2001	✓	10	-	10	✓	✓
Grouse	1998	✓	-	-	-	-	✓
Hyola 60*	2001-2003	-	✓	-	✓	-	✓
Insignia	2000	✓	✓	-	-	✓	✓
Kimberley	2004	-	✓	-	✓	-	✓
Lantern	2002-2004	-	✓	-	✓	-	✓
Monty	1998-2001	✓	✓	✓	✓	-	✓
Mystic	1999-2003	✓	25	✓	8	✓	✓
Oscar	1998-2003	N	✓	✓	✓	✓	14
Purler	2000-2001	✓	✓	-	✓	✓	✓
Rainbow	1998-2004	✓	20	✓	✓	-	✓
Ripper	2000-2001	✓	✓	-	✓	✓	✓
Rivette	2002-2005	✓	✓	-	✓	-	✓
Scoop	1998	✓	-	-	-	-	✓
Skipton	2004	-	✓	-	✓	-	✓
Surpass 400	2001-2004	-	✓	-	✓	-	✓
Surpass 600	1999-2001	✓	✓	✓	✓	-	✓
Rates (product/ha)		300 mL	100 mL + 120 mL	500 g	250 g	500 mL	280 g
Crop stage at spraying		4 L	4-6 L	4 L	4-6 L	8 L	4-6 L

Herbicide	Years Tested	Fusion Super® Fluazifop-p212g/kg + butoxydim 250g/kg		Aramo Tepaloxymidim	
		2004	2004	2004	2004
45C05*	2003-2004	-	-	-	-
45C75	2004	-	-	-	-
46C03	200-2002	-	-	-	-
46C04*	2003-2004	-	-	-	-
47C02	1999-2001	-	-	-	-
Ag Castle*	2002-2003	-	-	-	-
Ag - Comet	2004	-	-	-	-
Ag- Drover	2004	-	-	-	-
Ag Emblem	2000-2003	-	-	-	-
Ag Outback	2001-2004	-	-	-	-
Ag Spectrum	2004	-	-	-	-
AV Sapphire	2002-2005	✓	✓	✓	N
Charlton	1998	-	-	-	-
Dunkeld	1998	-	-	-	-
Georgie	200-2001	-	-	-	-
Grouse	1998	-	-	-	-
Hyola 60*	2001-2003	-	-	-	-
Insignia	2000	-	-	-	-
Kimberley	2004	-	-	-	-
Lantern	2002-2004	-	-	-	-
Monty	1998-2001	-	-	-	-
Mystic	1999-2003	-	-	-	-
Oscar	1998-2003	-	-	-	-
Purler	2000-2001	-	-	-	-
Rainbow	1998-2004	-	-	-	-
Ripper	2000-2001	-	-	-	-
Rivette	2002-2005	✓	✓	N	12
Scoop	1998	-	-	-	-
Skipton	2004	-	-	-	-
Surpass 400	2001-2004	-	-	-	-
Surpass 600	1999-2001	-	-	-	-
Rates (product/ha)		320 g	300 ml	300 ml	300 ml
Crop stage at spraying		4-5 L	4 - L	6-8 - L	Start of stem elong

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peter.lockley@dpi.nsw.gov.au

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Site pH : *4.5*

Site annual average rainfall: *530 mm*



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## Clearfield Canola variety response to herbicides in NSW

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Herbicide	Years Tested	Triflur X®	Stomp®	Avadex®	Dual Gold	Verdict 520	Select®
		Trifluralin 480	Pendimethalin	Triallate	S-Metolachlor	Haloxypop-R	Clethodim
Variety		2002-2005	2002-2005	2002-2003	2002-2004	2001-2004	2001-2004
44C71	2001	-	-	-	-	✓	✓
44C73	2001-2005	N	N	✓	N	N	✓
45C75	2001-2002	-	-	-	-	✓	✓
46C74	2001-2002	-	-	-	-	✓	✓
46C76	2004-2005	✓	✓	-	✓	✓	✓
Surpass 402CL	2001-2002	-	-	-	-	✓	✓
Surpass 603CL	2001-2003	✓	N	✓	✓	✓	✓
Rates (product/ha)		1.5 L	1.2 L	1.6 L	250 mL	100 mL	250 mL
Crop stage at spraying		IBS	IBS	IBS	PSPE	5-6 L	4-6 L

Herbicide	Years Tested	Fusion ®	Fusion ®	Aramo ®		On Duty ®	
		Fluazifop-p + Butroxydim	Fluazifop-p + Butroxydim	Tepaloxymid		Imazopic + Imazapyr	
Variety		2001-2004	2004	2004	2004	2004	2001-2004
44C71	2001	✓	✓	✓	24	N	✓
44C73	2001-2005	N	-	-	-	-	✓
45C75	2001-2002	✓	-	-	-	-	✓
46C74	2001-2002	✓	-	-	-	-	✓
46C76	2004-2005	✓	✓	✓	✓	✓	✓
Surpass 402CL	2001-2002	✓	-	-	-	-	✓
Surpass 603CL	2001-2003	✓	-	-	-	-	✓
Rates (product/ha)		280 g	210 g	300 ml	300 ml	300 ml	40 g
Crop stage at spraying		4-6 L	4-6 L	4 L	6-8 L	Start of stem elong	4-7 L

Research site manager: **Peter Lockley**, NSW DPI Technical Manager - 61 (02) 6938 1938  
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Site soil type : *Red Brown Earth*

Site pH : *4.5*

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