

Wheat variety response to herbicides in Victoria

This research has been conducted across the Victorian Mallee to determine if new and existing varieties of wheat vary in tolerance to commonly used herbicides

Preliminary Evaluation - herbicides applied at greater than recommended rates to identify cultivar herbicide combinations which may lead to yield loss.

The sensitivity of the variety is summarised, using the following symbols based on the yield responses across all trials:	
-	not tested or insufficient data
✓	(z) no significant yield reductions at recommended rates or higher than recommended rates in (z) trials
N (w/z) narrow margin, significant yield reductions at higher than recommended rate, but not at recommended rate	
significant event occurring w years out of z years tested. Eg. (2/5) = tested for 5 years, 2 returning a significant yield loss	

Always follow label recommendations. All pesticide applications must accord with the currently registered label for that particular pesticide, crop, pest and region. Any research regarding pesticides of their use reported in this website does not constitute a recommendation for that particular use by the authors, the author's organisations of ACAS. It must be emphasised that crop tolerance and yield responses to herbicides are strongly influenced by seasonal conditions.

NOTE: Due to severe drought conditions, 2015 harvest yield data is not available.

Herbicide	Years Tested	2,4-D Amine 500		Achieve®	Affinity® + MCPA	Ally® + MCPA	Axial®	Boxer Gold®	Bromoxynil MCPA	Cadence® + MCPA
		2,4-D Amine		Tralkoxydim	Carfentrazone - Ethyl + MCPA	Metsulfuron-methyl	Pinoxaden + Cloquintocet-Methyl	Prosulfocarb + S-Metolachlor	Bromoxynil + MCPA	Dicamba
		2009-2013	2009-2013	2009-2013	2009-2013	2009-2013	2009-2013	2009-2013	2009-2013	2009-2013
Axe	2011-2013	N(1/2)	✓(2)	N(1/2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	N(2/2)
Barham	2009	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Bolac	2010	✓(1)	N(1/1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Caparoi	2010-2011	N(1/2)	✓(2)	✓(2)	N(1/2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)
Catalina	2013	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	N(1/1)
Chara	2010	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Cobra	2012-2013	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	N(1/2)
Corack	2011-2012	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	N(1/2)
Correll	2011-2012	N(1/2)	N(1/2)	✓(2)	✓(2)	N(1/2)	✓(2)	✓(2)	✓(2)	N(1/2)
Currawong	2009	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Dart	2011-2012	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	N(1/2)
Derrimut	2013	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
EGA Bounty	2009	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	N(1/1)
EGA Burke	2010	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Elmore CL Plus	2012-2013	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	N(1/2)
Emu Rock	2011-2012	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	N(1/2)
Espada	2012-2013	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	N(1/2)
Estoc	2009-2010	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)
Forrest	2011	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	N(1/1)
Frame	2009-2010	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	N(1/2)
Frelon	2009	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Gascoigne	2009-2011	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	N(1/2)	✓(2)	N(2/2)
Gauntlet	2010-2011	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	N(1/2)
Gazelle	2011-2012	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	N(1/2)	✓(2)	N(1/2)
GBA Sapphire	2010	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Gladius	2009-2011	✓(2)	N(1/2)	✓(2)	N(1/2)	✓(2)	✓(2)	✓(2)	✓(2)	N(2/2)
Grenade CL Plus	2012-2013	✓(2)	N(1/2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)
Harper	2011-2013	✓(3)	✓(3)	✓(3)	✓(3)	✓(3)	✓(3)	✓(3)	✓(3)	N(2/3)
Hartog	2010	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Hyperno	2009-2010	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	N(1/2)
Impala	2009-2011	N(1/2)	✓(2)	✓(2)	N(1/2)	✓(2)	✓(2)	✓(2)	✓(2)	N(1/2)
Impose CL Plus	2010	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Justica CL Plus	2011-2012	✓(2)	N(1/2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	N(2/2)
Kord CL Plus	2011-2012	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	N(2/2)
Kunjini	2010	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Lancer	2012-2013	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	N(2/2)
Lincoln	2009-2010	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	N(1/2)
Mace	2010-2013	✓(3)	N(2/3)	✓(3)	✓(3)	✓(3)	✓(3)	✓(3)	N(1/3)	N(1/3)
Mackellar	2009	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Merlin	2010-2012	✓(3)	✓(3)	✓(3)	✓(3)	✓(3)	✓(3)	✓(3)	✓(3)	N(1/3)
Naparoo	2009	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Orion	2010	✓(1)	✓(1)	N(1/1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Peake	2012	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Phantom	2011-2012	✓(2)	N(1/2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	N(1/2)
Preston	2009	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
QAL2000	2011	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	N(1/1)
Rudd	2009	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Sabel CL Plus	2011	N(1/1)	N(1/1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	N(1/1)
Saintly	2009-2010	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)
Scout	2009-2010	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)
Sentinel	2009-2010	N(1/2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	N(1/2)
Shield	2012-2013	✓(2)	✓(2)	✓(2)	N(1/2)	✓(2)	✓(2)	✓(2)	✓(2)	N(1/2)
Sunguard	2011	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	N(1/1)
Suntop	2011-2012	N(1/2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	N(1/2)
Tennant	2009	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Tjikuri	2009-2010	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)
Trojan	2012-2013	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	N(2/2)
Ventura	2009	N(1/1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	N(1/1)
Wakelin	2011	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Wallup	2011-2012	N(1/2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	N(1/2)
WID802	2009-2010	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)
Wyalkatchem	2013	✓(1)	✓(1)	N(1/1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	N(1/1)
Yawa	2009-2010	N(1/2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)
Yenda	2009-2010	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)
Yitpi	2010-2012	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	N(1/2)
Rates (product/ha)		> 1.4 L	> 380 g	> 100 mL + 330 mL	> 7 g + 330 mL	> 250 mL	> 2.5 L	> 1.4 L	> 200 g + 330 mL	
Crop stage at spraying		2 node	3 leaf	3 leaf	3 leaf	3 leaf	IBS	3 leaf	5 leaf	

Herbicide	Variety	Years Tested	Diuron + MCPA	Glean	Hussar OD®	Sakura®	Tigrex®
			Diuron + MCPA Amine	Chlorsulfuron	Iodosulfuron-Methylsodium	Pyroxasulfone	MCPA + Diflufenican
			2009-2013	2009-2011	2009-2013	2012-2013	2009-2013
Axe	2011-2013	✓(2)	N(1/1)	N(1/2)	✓(1)	✓(2)	
Barham	2009	✓(1)	✓(1)	✓(1)	-	✓(1)	
Bolac	2010	✓(1)	✓(1)	✓(1)	-	✓(1)	
Caparoi	2010-2011	✓(2)	N(1/2)	N(1/2)	-	✓(2)	
Catalina	2013	✓(1)	-	✓(1)	✓(1)	✓(1)	
Chara	2010	✓(1)	N(1/1)	N(1/1)	-	✓(1)	
Cobra	2012-2013	✓(2)	-	✓(2)	✓(2)	✓(2)	
Corack	2011-2012	✓(2)	✓(1)	✓(2)	✓(1)	✓(2)	
Correll	2011-2012	✓(2)	N(1/1)	✓(2)	✓(1)	✓(2)	
Currawong	2009	N(1/1)	✓(1)	✓(1)	-	✓(1)	
Dart	2011-2012	✓(2)	✓(1)	✓(2)	✓(1)	✓(2)	
Derrimut	2013	✓(1)	-	✓(1)	✓(1)	✓(1)	
EGA Bounty	2009	N(1/1)	✓(1)	✓(1)	-	✓(1)	
EGA Burke	2010	✓(1)	✓(1)	✓(1)	-	✓(1)	
Elmore CL Plus	2012-2013	N(1/2)	-	✓(2)	✓(2)	✓(2)	
Emu Rock	2011-2012	✓(2)	✓(1)	✓(2)	✓(1)	✓(2)	
Espada	2012-2013	✓(2)	-	✓(2)	✓(2)	✓(2)	
Estoc	2009-2010	✓(2)	✓(2)	N(1/2)	-	✓(2)	
Forrest	2011	✓(1)	✓(1)	✓(1)	-	✓(1)	
Frame	2009-2010	✓(2)	✓(2)	✓(2)	-	✓(2)	
Frelon	2009	✓(1)	✓(1)	✓(1)	-	✓(1)	
Gascoigne	2009-2011	N(1/2)	✓(2)	✓(2)	-	✓(2)	
Gauntlet	2010-2011	✓(2)	N(1/2)	N(1/2)	-	✓(2)	
Gazelle	2011-2012	✓(2)	✓(1)	✓(2)	✓(1)	✓(2)	
GBA Sapphire	2010	✓(1)	✓(1)	N(1/1)	-	✓(1)	
Gladius	2009-2011	N(1/2)	✓(2)	✓(2)	-	✓(2)	
Grenade CL Plus	2012-2013	✓(2)	-	N(1/2)	✓(2)	✓(2)	
Harper	2011-2013	✓(3)	✓(1)	N(1/3)	✓(2)	✓(3)	
Hartog	2010	✓(1)	✓(1)	✓(1)	-	✓(1)	
Hyperno	2009-2010	✓(2)	✓(2)	N(1/2)	-	✓(2)	
Impala	2009-2011	N(2/2)	N(2/2)	✓(2)	-	✓(2)	
Impose CL Plus	2010	✓(1)	✓(1)	N(1/1)	-	✓(1)	
Justica CL Plus	2011-2012	✓(2)	✓(1)	✓(2)	✓(1)	✓(2)	
Kord CL Plus	2011-2012	✓(2)	✓(1)	✓(2)	✓(1)	✓(2)	
Kurjin	2010	✓(1)	✓(1)	✓(1)	-	✓(1)	
Lancer	2012-2013	N(1/2)	-	✓(2)	✓(2)	✓(2)	
Lincoln	2009-2010	✓(2)	✓(2)	✓(2)	-	✓(2)	
Mace	2010-2013	✓(3)	N(1/1)	N(1/3)	✓(2)	✓(3)	
Mackellar	2009	✓(1)	✓(1)	✓(1)	-	✓(1)	
Merlin	2010-2012	✓(3)	✓(2)	N(1/3)	✓(1)	✓(3)	
Naparoo	2009	✓(1)	✓(1)	✓(1)	-	✓(1)	
Orion	2010	✓(1)	✓(1)	✓(1)	-	N(1/1)	
Peake	2012	✓(1)	-	✓(1)	✓(1)	✓(1)	
Phantom	2011-2012	✓(2)	✓(1)	✓(2)	✓(1)	N(1/2)	
Preston	2009	✓(1)	✓(1)	✓(1)	-	✓(1)	
QAL2000	2011	✓(1)	✓(1)	✓(1)	-	✓(1)	
Rudd	2009	✓(1)	✓(1)	✓(1)	-	✓(1)	
Sabel CL Plus	2011	N(1/1)	✓(1)	✓(1)	-	✓(1)	
Saintly	2009-2010	✓(2)	✓(2)	N(1/2)	-	✓(2)	
Scout	2009-2010	✓(2)	N(1/2)	✓(2)	-	✓(2)	
Sentinel	2009-2010	✓(2)	✓(2)	N(1/2)	-	✓(2)	
Shield	2012-2013	✓(2)	-	✓(2)	✓(2)	✓(2)	
Sunguard	2011	✓(1)	✓(1)	✓(1)	-	✓(1)	
Suntop	2011-2012	N(1/2)	N(1/1)	✓(2)	✓(1)	✓(2)	
Tennant	2009	✓(1)	✓(1)	✓(1)	-	✓(1)	
Tjilkuri	2009-2010	✓(2)	✓(2)	N(1/2)	-	✓(2)	
Trojan	2012-2013	✓(2)	-	✓(2)	✓(2)	✓(2)	
Ventura	2009	✓(1)	✓(1)	✓(1)	-	✓(1)	
Wakelin	2011	✓(1)	✓(1)	✓(1)	-	✓(1)	
Wallup	2011-2012	✓(2)	✓(1)	✓(2)	✓(1)	✓(2)	
WID802	2009-2010	✓(2)	✓(2)	✓(2)	-	✓(2)	
Wyalkatchem	2013	✓(1)	-	✓(1)	✓(1)	✓(1)	
Yawa	2009-2010	✓(2)	✓(2)	✓(2)	-	✓(2)	
Yenda	2009-2010	✓(2)	✓(2)	✓(2)	-	✓(2)	
Yitpi	2010-2012	✓(2)	✓(1)	N(1/2)	✓(1)	✓(2)	
Rates (product/ha)		> 500 mL + 330 mL	> 20 g	> 200 g	> 118 g	> 1 L	
Crop stage at spraying		3 leaf	3 leaf	3 leaf	1BS	5 leaf	

Site Manager: **Cameron Taylor**, Birchip Cropping Group , 0427 116 582
Trial coordinator: **David Brunton**, SARDI Research Officer (Herbicide Tolerance) (08) 8303 9479
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Trial location: Birchip/Culgoa, Victoria.
Texture: Sandy Mallee Loam.
pH: 7.6 - 8.6 at depth
Average Rainfall: 374mm



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ACAS seeks to avoid putting information regarding unregistered pesticides or unregistered use of pesticides on this website. However it is possible that occasionally ACAS may unintentionally include such information.

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