

Barley variety response to herbicides in Victoria

This research has been conducted across the Victorian Mallee to determine if new and existing varieties of barley 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

✓ (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.

Herbicide	Years Tested	2,4-D Amine 625	Achieve*	Affinity® + MCPA	Ally® + MCPA	Axial®	Banvel M®	Boxer Gold®	Broadstrike
		2,4-D Amine	Tralkoxydim	Carfentrazone - Ethyl + MCPA	Metsulfuron-methyl + MCPA	Pinoxaden + Cloquintocet-Methyl	MCPA + Dicamba	Prosulfocarb + S-Metolochlor	Flumetsulam
Variety	Years Tested	2009-2015	2014-2015	2009-2015	2009-2015	2009-2015	2009-2012	2009-2015	2009-2015
Bass	2009-2010	✓(2)	-	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)
Baudin	2009-2010	✓(2)	-	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)
Buloke	2011-2012	✓(2)	-	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)
Brewstar	2015	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	-	✓(1)	✓(1)
Charger	2011-2013	✓(3)	✓(1)	N(1/3)	✓(3)	✓(3)	✓(2)	✓(3)	✓(3)
Commander	2011-2015	✓(4)	✓(1)	N(2/4)	N(2/4)	N(1/4)	✓(2)	✓(4)	✓(4)
Compass	2013-2015	N(1/2)	✓(1)	N(2/2)	N(2/2)	✓(2)	-	✓(2)	✓(2)
Fairview	2012-2013	✓(2)	✓(1)	N(1/2)	✓(2)	✓(2)	✓(1)	✓(2)	✓(2)
Fathom	2011-2012	✓(2)	-	✓(2)	✓(2)	N(1/2)	N(1/2)	✓(2)	N(1/2)
Fleet	2011-2012	✓(2)	-	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)
Flinders	2011-2012	✓(2)	-	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)
Gairdner	2012-2013	✓(2)	✓(1)	N(1/2)	N(1/2)	✓(2)	✓(1)	✓(2)	✓(2)
GrangeR	2012-2013	✓(2)	✓(1)	N(1/2)	N(1/2)	✓(2)	✓(1)	✓(2)	✓(2)
Hannan	2009	✓(1)	-	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Henley	2011-2012	✓(2)	-	✓(2)	✓(2)	✓(2)	N(1/2)	✓(2)	✓(2)
Hindmarsh	2011-2015	✓(4)	-	N(1/4)	N(1/4)	✓(4)	✓(2)	✓(4)	✓(4)
La Trobe	2012-2015	✓(3)	✓(1)	N(2/3)	N(1/3)	✓(3)	✓(1)	✓(3)	✓(3)
Lockyer	2009	✓(1)	-	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Macquarie	2011-2012	✓(2)	-	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)
Maltstar	2015	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	-	✓(1)	✓(1)
Maritime	2012-2013	✓(2)	✓(1)	N(1/2)	✓(2)	✓(2)	✓(1)	✓(2)	✓(2)
Navigator	2010-2011	✓(2)	-	✓(2)	✓(2)	✓(2)	N(1/2)	✓(2)	✓(2)
Oxford	2009-2012	✓(3)	-	✓(3)	✓(3)	N(1/3)	✓(3)	✓(3)	✓(3)
Roe	2009	✓(1)	-	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Scope	2010-2012	✓(3)	-	✓(3)	✓(3)	✓(3)	N(1/3)	✓(3)	✓(3)
Skipper	2010-2011	✓(2)	-	N(1/2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)
Sloop SA	2009-2010	✓(2)	-	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)
Sloop Vic	2009-2010	✓(2)	-	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)
Spartacus CL Plus	2015	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	-	✓(1)	✓(1)
SY Rattler	2012-2013	✓(2)	✓(1)	N(1/2)	✓(2)	✓(2)	N(1/1)	✓(2)	✓(2)
Vlamingh	2009-2010	✓(2)	-	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)
Westminster	2011-2013	✓(3)	✓(1)	N(1/3)	✓(3)	✓(3)	N(1/2)	✓(3)	✓(3)
Wimmera	2010-2011	✓(2)	-	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)
Rates (product/ha)		> 1.4 L	> 380 g	> 100 mL + 330 mL	> 7g + 330 mL	> 250 mL	> 1.4 L	> 2.5 L	25 g
Crop stage at spraying		2 node	3 leaf	3 leaf	3 leaf	3 leaf	6 leaf	IBS	6 leaf

Herbicide	Years Tested	Bromoxynil MCPA	Cadence® + MCPA	Decision	Diuron + MCPA	Tigrex®
		Bromoxynil + MCPA	Dicamba + MCPA	Diclofop-methyl + Sethoxydim	Diuron + MCPA Amine	MCPA + Diflufenican
		2009-2015	2009-2015	2009-2012	2009-2015	2009-2015
Variety						
Bass	2009-2010	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)
Baudin	2009-2010	✓(2)	✓(2)	✓(2)	N(1/2)	✓(2)
Buloke	2011-2012	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)
Brewstar	2015	✓(1)	✓(1)	-	✓(1)	✓(1)
Charger	2011-2013	✓(3)	✓(3)	✓(2)	✓(3)	✓(3)
Commander	2011-2015	N(1/4)	✓(4)	✓(2)	N(2/4)	✓(4)
Compass	2013-2015	✓(2)	✓(2)	-	N(2/2)	✓(2)
Fairview	2012-2013	✓(2)	✓(2)	✓(1)	✓(2)	✓(2)
Fathom	2011-2012	✓(2)	N(1/2)	✓(2)	✓(2)	✓(2)
Fleet	2011-2012	✓(2)	✓(2)	✓(2)	✓(2)	N(1/2)
Flinders	2011-2012	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)
Gairdner	2012-2013	✓(2)	N(1/2)	✓(1)	N(1/2)	✓(2)
GrangeR	2012-2013	✓(2)	✓(2)	✓(1)	✓(2)	✓(2)
Hannan	2009	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Henley	2011-2012	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)
Hindmarsh	2011-2015	✓(4)	✓(4)	✓(2)	N(1/4)	✓(4)
La Trobe	2012-2015	✓(3)	✓(3)	✓(1)	✓(3)	N(1/3)
Lockyer	2009	✓(1)	✓(1)	✓(1)	N(1/1)	✓(1)
Macquarie	2011-2012	✓(2)	N(1/2)	✓(2)	✓(2)	✓(2)
Malistar	2015	✓(1)	✓(1)	-	✓(1)	✓(1)
Maritime	2012-2013	✓(2)	N(2/2)	✓(1)	✓(2)	✓(2)
Navigator	2010-2011	✓(2)	✓(2)	✓(2)	✓(2)	N(1/2)
Oxford	2009-2012	N(1/3)	N(1/3)	✓(3)	✓(3)	✓(3)
Roe	2009	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Scope	2010-2012	N(1/3)	✓(3)	✓(3)	✓(3)	✓(3)
Skipper	2010-2011	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)
Sloop SA	2009-2010	✓(2)	✓(2)	✓(2)	N(1/2)	✓(2)
Sloop Vic	2009-2010	✓(2)	✓(2)	N(1/2)	✓(2)	✓(2)
Spartacus	2015	✓(1)	✓(1)	-	✓(1)	✓(1)
SY Rattler	2012-2013	✓(2)	✓(2)	✓(1)	N(1/2)	✓(2)
Vlamingh	2009-2010	✓(2)	✓(2)	N(1/2)	N(1/2)	✓(2)
Westminster	2011-2013	✓(3)	✓(3)	✓(3)	N(1/3)	✓(3)
Wimmera	2010-2011	✓(2)	N(1/2)	✓(2)	✓(2)	✓(2)
Rates (product/ha)		> 1.4 L	> 200 g + 330 mL	> 1.0 L	> 500 mL + 330 mL	> 1 L
Crop stage at spraying		3 leaf	5 leaf	4 leaf	3 leaf	6 leaf

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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. All pesticide applications must accord with the currently registered label for that particular pesticide, crop, pest and region.