

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

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
- x% (1/z) yield reduction (warning) significant yield reduction at recommended rate in 1 trial only in z years of testing
- x-y% (w/z) yield reductions (warning) significant yield reductions at recommended rate in w years out of z years tested.

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 500	Affinity®	Ally®	Axial®	Banvel M®	Boxer Gold®	Broadstrike	Bromoxynil MCPA
		2,4-D Amine	Carfentrazone - Ethyl	Metsulfuron-methyl	Pinoxaden + Cloquintocet-Methyl	MCPA + Dicamba	Prosulfocarb + S-Metalochlor	Flumetsulam	Bromoxynil + MCPA
Variety	Years Tested	2009-2010	2009-2010	2009-2010	2009-2010	2009-2010	2009-2010	2009-2010	2009-2010
Baudin	2009-2010	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)
Oxford	2009-2010	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)
Sloop Vic	2009-2010	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)
Sloop SA	2009-2010	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)
Vlamingh	2009-2010	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)
Rates (product/ha)		1.4L	60g	7g	250ml	1.4L	2.5L	25g	1.4L
Crop stage at spraying		2 node	4 leaf	4 leaf	4 leaf	6 leaf	IBS	6 leaf	4 leaf

Herbicide	Years Tested	Cadence®	Decision	Diuron(500SC)/MCPA	Tigrex®
		Dicamba	Diclofop-methyl + Sethoxydim	Diuron + MCPA Amine	MCPA + Diflufenican
Variety	Years Tested	2009- 2010	2009-2010	2009-2010	2010-2010
Baudin	2009-2010	✓(3)	✓(2)	N (1/3)	✓(2)
Oxford	2009-2010	✓(2)	✓(2)	✓(2)	✓(2)
Sloop Vic	2009-2010	N (1/3)	✓(2)	✓(3)	✓(2)
Sloop SA	2009-2010	✓(3)	✓(2)	N (1/3)	✓(2)
Vlamingh	2009-2010	N (1/3)	✓(2)	N (1/3)	✓(2)
Rates (product/ha)		200g	1.0L	500ml/ 350ml	1L
Crop stage at spraying		6 leaf	4 leaf	4 leaf	6 leaf

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Birchip/Culgoa, Victoria.

Texture Sandy Mallee Loam.

pH: 7.6 - 8.6 at depth

Site Rainfall **2010** : 518 mm

Average Rainfall: 373.8mm



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