

## 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

### 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.

**N** (w/z) narrow safety margin observed in preliminary trial w of z years tested. Not tested at the recommended rate in this year. Where tested in 3 or more years testing has also occurred in advanced trials and showed no yield loss at the recommended or higher rate.

*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		2,4-D Amine 500	Achieve®	Affinity®	Ally®	Axial®	Boxer Gold®	Bromoxynil MCPA	Cadence®
		2,4-D Amine	Tralkoxydim	Carfentrazone - Ethyl	Metsulfuron- methyl	Pinoxaden + Cloquintocet- Methyl	Prosulfocarb + S-Metalochlor	Bromoxynil + MCPA	Dicamba
Variety	Years Tested	2009-2010	2009-2010	2009-2010	2009-2010	2009-2010	2009-2010	2009-2010	2009-2010
Estoc	2009-2010	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)
Frame	2009-2010	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	<b>N (1/3)</b>
Hyperno	2009-2010	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	<b>N (1/3)</b>
Lincoln	2009-2010	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	<b>N (1/3)</b>
Orion	2009-2010	✓(2)	✓(2)	<b>N (1/2)</b>	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)
Saintly	2009-2010	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)
Scout	2009-2010	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)
Sentinel	2009-2010	<b>N (1/2)</b>	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	<b>16 (1/1)</b>
Spitfire	2009-2010	✓(2)	<b>N (1/2)</b>	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)
Tjilkuri	2009-2010	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)
Yenda	2009-2010	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)
Rates (product/ha)		1.4L	380g	60g	7g	250ml	2.5L	1.4L	200g
Crop stage at spraying		2 node	3 leaf	3 leaf	3 leaf	3 leaf	IBS	3 leaf	5 leaf

Cultivars tested in preliminary trials for 2 years.

Herbicide	Variety	Years Tested	Diuron(500SC )/MCPA	Glean	Hussar®	Tigrex®
			Diuron + MCPA Amine	Chlorsulfuron	Iodosulfuron-Merthylsodium	MCPA + Diflufenican
			2009-2010	2009-2010	2009-2010	2009-2010
Estoc	2009-2010	✓(2)	✓(2)	N (1/2)	✓(2)	✓(2)
Frame	2009-2010	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)
Hyperno	2009-2010	✓(2)	✓(2)	N (1/2)	✓(2)	✓(2)
Lincoln	2009-2010	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)
Orion	2009-2010	✓(2)	✓(2)	✓(2)	N (1/2)	✓(2)
Saintly	2009-2010	✓(2)	✓(2)	N (1/2)	✓(2)	✓(2)
Scout	2009-2010	✓(2)	N (1/2)	✓(2)	✓(2)	✓(2)
Sentinel	2009-2010	✓(2)	✓(2)	N (1/2)	✓(2)	✓(2)
Spitfire	2009-2010	✓(2)	✓(2)	N (1/2)	✓(2)	✓(2)
Tjilkuri	2009-2010	✓(2)	✓(2)	N (1/2)	✓(2)	✓(2)
Yenda	2009-2010	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)
Rates (product/ha)		500ml/ 350ml	20g	200g	1L	
Crop stage at spraying		3 leaf	3 leaf	3 leaf	5 leaf	

Cultivars tested in preliminary trials for 2 years.

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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



**DISCLAIMER:** While every care has been taken in preparing this publication, the organisations involved accept no responsibility for decisions or actions taken as a result of any data or interpretation contained in this report.

ACAS seeks to avoid putting information regarding unregistered pesticides or unregistered use of pesticides on this website.

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