

Preliminary and Advanced Evaluation Barley variety response to herbicides in NSW 2008-2010

This research has been conducted at the Wagga Wagga Agricultural Institute to determine if new varieties of wheat vary in tolerance to commonly used herbicides.

The sensitivity of the variety compared to unsprayed controls of the same 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 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 or their use reported in this website does not constitute a recommendation for that particular use by the authors, the author's organisations or ACAS. It must be emphasised that crop tolerance and yield responses to herbicides are strongly influenced by seasonal conditions.

Herbicide	Years Tested	TriflurX® 480	AchieveWG®	Tristar Advance®	Bromoxynil	Ally®	Hotshot®	Glean®
		Trifluralin	Tralkoxydim	Diclofop-methyl + fenoxaprop-p-ethyl	bromoxynil	metsulfuron	Floroxypyr + aminopyralid	chlorsulfuron
Variety		2008-2010	2008-2010	2008-2010	2008-2010	2008-2010	2009-2010	2008-2010
Baudin	2009-2010	✓(2)	✓(2)	N (1/3)	✓(2)	✓(3)	✓(2)	N (1/2)
Buloke	2008-2010	N (1/4)	N (1/4)	N (3/4)	N (1/4)	N (1/4)	✓(2)	N (1/3)
Capstan	2008-2010	✓(3)	✓(3)	✓(3)	N (1/4)	N (2/4)	✓(2)	N (1/3)
Commander	2008-2010	N (1/4)	N (1/3)	✓(3)	N (1/5)	11 (1/5)	✓(2)	19-21 (2/5)
Cowabbie	2009	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Dash	2008-2009	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(1)	✓(2)
Fairview	2009-2010	✓(2)	N (1/2)	N (1/2)	✓(2)	✓(2)	✓(2)	N (1/2)
Finness	2010	✓(1)	N (1/1)	✓(1)	✓(1)	N (1/1)	✓(1)	N (1/1)
Flagship	2008-2010	✓(3)	N (1/3)	✓(3)	✓(3)	N (1/3)	✓(2)	N (1/3)
Fleet	2008-2010	✓(3)	✓(3)	N (1/3)	N (1/4)	N (2/4)	N (1/3)	36 (1/4)
Gairdner	2008-2010	N (1/4)	N (1/3)	N (1/3)	✓(3)	N (1/3)	N (1/3)	N (1/3)
Hannan	2009-2010	N (1/2)	✓(1)	✓(1)	✓(1)	N (1/2)	✓(1)	✓(1)
Hindmarsh	2008-2010	N (1/4)	N (1/4)	✓(3)	N (1/4)	N (1/3)	✓(3)	N (1/3)
Macquarie	2010	✓(1)	N (1/1)	✓(1)	✓(1)	N (1/1)	✓(1)	N (1/1)
Oxford	2009-2010	✓(2)	N (1/2)	✓(2)	✓(2)	N (1/2)	✓(2)	N (1/2)
Schooner	2008-2010	✓(3)	N (1/4)	N (1/4)	✓(4)	N (3/4)	✓(3)	38 (1/4)
Scope	2010	✓(1)	N (1/1)	N (1/1)	✓(1)	N (1/1)	✓(1)	N (1/1)
Shepherd	2010	✓(1)	N (1/1)	✓(1)	✓(1)	N (1/1)	✓(1)	N (1/1)
Tantangarra	2009-2010	✓(1)	✓(1)	✓(1)	✓(1)	N (1/2)	✓(1)	✓(1)
Tulla	2010	✓(1)	N (1/1)	✓(1)	✓(1)	N (1/1)	✓(1)	N (1/1)
Urambie	2008-2010	✓(3)	N (2/4)	✓(3)	N (1/4)	N (1/3)	✓(2)	N (1/3)
Vlamingh	2008-2010	✓(3)	N (2/4)	N (3/4)	N (1/4)	N (2/4)	N (1/3)	24 (1/4)
Yarra	2008-2010	✓(3)	N (1/3)	N (1/3)	✓(3)	N (1/3)	✓(2)	N (1/3)
Rates (product/ha)		1.5 L	0.38 kg	1.5 L	2.0 L	5 g	750 ml	20–25 g
Crop stage at spraying		IBS non worked soil	2-leaf	3-leaf	3–4leaf	3-leaf	3-leaf	3-leaf

Herbicide	Years Tested	Axia®	Tigrex®	Amicide 625®	Banvel M®	Tordon 242®	Hoegrass®	Igran®
		Pinoxaden	MCPA + Diflufenican	2,4-D Amine	Dicamba + MCPA	Picloram + MCPA	Diclofop-methyl	Terbutryn
Variety		2009-2010	2008-2010	2008-2010	2008-2010	2008-2010	2008	2008
Baudin	2009-2010	✓ (2)	✓ (2)	N (1/3)	✓ (2)	✓ (2)	-	-
Buloke	2008-2010	✓ (3)	N (1/3)	N (1/4)	✓ (4)	N (1/4)	N (1/1)	N (1/1)
Capstan	2008-2010	✓ (2)	10 (1/4)	✓ (4)	N (1/4)	N (1/3)	✓ (1)	N (1/1)
Commander	2008-2010	✓ (2)	N (1/4)	✓ (5)	✓ (5)	N (1/5)	N (1/1)	N (1/1)
Cowabbbie	2009	✓ (1)	✓ (1)	✓ (1)	✓ (1)	✓ (1)	-	-
Dash	2008-2009	✓ (1)	✓ (2)	✓ (2)	✓ (2)	✓ (2)	✓ (1)	✓ (1)
Fairview	2009-2010	✓ (2)	✓ (2)	✓ (2)	✓ (2)	✓ (2)	-	-
Finness	2010	N (1/1)	✓ (1)	✓ (1)	✓ (1)	✓ (1)	-	-
Flagship	2008-2010	N (1/2)	✓ (3)	✓ (3)	✓ (4)	N (1/3)	✓ (1)	N (1/1)
Fleet	2008-2010	N (1/2)	N (1/4)	N (2/4)	N (2/4)	N (1/3)	✓ (1)	✓ (1)
Gairdner	2008-2010	15 (1/3)	✓ (3)	N (1/3)	N (1/4)	N (1/4)	✓ (1)	✓ (1)
Hannan	2009-2010	✓ (1)	✓ (1)	✓ (1)	✓ (1)	✓ (1)	-	-
Hindmarsh	2008-2010	✓ (3)	N (2/4)	✓ (4)	N (2/4)	N (1/3)	N (1/1)	N (1/1)
Macquarie	2010	N (1/1)	✓ (1)	✓ (1)	✓ (1)	✓ (1)	-	-
Oxford	2009-2010	✓ (2)	✓ (2)	N (1/2)	✓ (2)	✓ (2)	-	-
Schooner	2008-2010	✓ (3)	✓ (3)	✓ (4)	✓ (4)	N (1/4)	✓ (1)	N (1/1)
Scope	2010	✓ (1)	✓ (1)	✓ (1)	N (1/1)	✓ (1)	-	-
Shepherd	2010	✓ (1)	✓ (1)	N (1/1)	N (1/1)	✓ (1)	-	-
Tantangarra	2009-2010	✓ (1)	✓ (1)	✓ (1)	N (1/2)	✓ (1)	-	-
Tulla	2010	✓ (1)	✓ (1)	✓ (1)	✓ (1)	✓ (1)	-	-
Urambie	2008-2010	N (1/2)	✓ (3)	✓ (3)	✓ (4)	N (1/3)	N (1/1)	N (1/1)
Vlamingh	2008-2010	N (1/3)	N (1/4)	N (1/4)	N (2/4)	N (1/3)	N (1/1)	✓ (1)
Yarra	2008-2010	✓ (2)	✓ (3)	N (1/3)	✓ (4)	N (1/3)	N (1/1)	✓ (1)
Rates (product/ha)		300 ml	0.75 L	1.3L	1.4–1.7 L	1.0L	1.5L (375g/L) 1.1L (500g/L)	1.0 L
Crop stage at spraying		3-leaf	5 L	5-leaf	5-leaf	5-leaf	5-leaf	3–4-leaf

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Research site location: Wagga Wagga, New South Wales

Site soil type : Red Brown earth

Site pH : 4.3 - 4.5

Site annual average rainfall: 523 mm

Updated: March 2011



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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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