

Barley varieties response to herbicides in Western Australia 2009

This research has been conducted in WA wheatbelt 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
- x% (w/z) narrow margin, % yield reductions at higher than recommended rate, but not tested 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. The organisation involved in this research do not endorse the use of herbicides above the registered rate or off label use of herbicides or tank mixes. It must be emphasised that crop tolerance and yield responses to herbicides are strongly influenced by seasonal conditions.

Herbicides >>>	Years Tested	Boxer® Gold	Triflur® X	Achieve®	Affinity® + MCPA (Amine)	Ally®	Diuron + MCPA (Amine)	Hoegrass® 375	Tigrex®
		s-Metolachlor + prosulfocarb	Trifluralin	Tralkoxydim	Carfentrazone-ethyl + MCPA	Metsulfuron	Diuron + MCPA	Diclofop-methyl	Difflufenican + MCPA
Variety	Tested	2009	2009	2009	2009	2009	2009	2009	2009
Baudin	2009	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Dash	2009	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Finniss	2009	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Flagship	2009	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Fleet	2009	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Hamelin	2009	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Macquarie	2009	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Scope	2009	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Westminister	2009	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Rates (product/ha)		>2.5 L	>3 L	>380 g	>50 g + 0.5 L	>7 g	>0.4 L + 0.5 L	>1.5 L	>1L
Crop stage at spraying		Incorporated by seeding	Incorporated by seeding	Z14-Z15	Z14-Z15	Z14-Z15	Z14-Z15	Z14-Z15	Z14-Z15

*Research site manager: Dr Harmohinder Dhammu, Research Officer, DAFWA, Northam.
Phone: (08) 9690 2217, e-mail: Harmohinder.dhammu@agric.wa.gov.au*

Research site location	Katanning
Site soil type	Loamy Sand
Site pH (CaCl ₂)	5.2
Rainfall (June-Nov 09)	348.2 mm
Site annual average rainfall (mm)	420



Department of Agriculture and Food



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.