

Barley cultivars response to herbicides in the Northern Region 1999-2015

This research has been conducted across the Northern Region 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
- ✓ no significant yield reductions at recommended rates or higher than recommended rates in 2+ trials

N (narrow margin) significant yield reductions at higher than recommended rate in 1+ trials, but not at recommended rate

x% yield reduction (warning) significant yield reduction at recommended rate in 1 trial only

x-y% yield reductions (warning) significant yield reductions at recommended rate in 2+ trials

Always follow label recommendations. All herbicide applications must accord with the currently registered label for that particular herbicide, crop, weed and region. Any research regarding herbicides 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		Achieve WG	Ally	Ally+MCPA / Ally+LVE	Amicide	Axial 100 EC	Boxer Gold	Bromicide MA
Cultivar		(tralkoxydim)	(metsulfuron)	(metsulfuron + MCPA LVE)	(24D amine)	(pinoxaden)	metolachlor + prosulfocarb	(bromoxynil + MCPA)
	Years tested	1999, 2004- 2012, 2014	1999-2003, 2005-2012, 2014-2015	2000, 2005- 2006, 2013- 2014-2015	1999-2003, 2005-2012	2001, 2005, 2009	2005-2006	2003-2004
	Site	ABCD	ABCD	AC	ABCD	CD	CD	C
Alestar	2015	D	✓(1)	✓(1)	-	-	-	-
Bass	2012-2013	CD	-	N (1/1)	-	-	-	-
Baudin	2008-2009	C	✓(2)	✓(2)	✓(2)	-	-	-
Binalong	2000-2009	ABCD	N (1/3)	✓(6)	✓(3)	✓(5)	✓(3)	✓(2)
Buloke	2008-2012	BCD	✓(6)	N (1/6)	-	✓(4)	-	-
Capstan	2006-2007	BC	✓(2)	✓(2)	-	✓(2)	-	-
Charger	2014	D	✓(1)	✓(1)	✓(1)	-	-	-
Commander	2007-2012	C	✓(3)	✓(3)	-	N (1/6)	-	-
Compass	2014-2015	D	✓(1)	✓(2)	✓(2)	-	-	-
Cowabie	2003-2006	BCD	✓(4)	✓(4)	✓(2)	✓(3)	✓(1)	✓(2)
Fairview	2012-2014	CD	✓(1)	✓(1)	10 (1/2)	-	-	-
Fathom	2012	C	-	-	-	-	-	-
Fitzroy	2004-2012	BCD	N (1/5)	✓(4)	✓(2)	N (1/6)	✓(2)	✓(2)
Flagship	2008-2009	C	✓(2)	✓(2)	-	✓(2)	-	-
Fleet	2006-2009	BCD	✓(2)	✓(2)	-	✓(2)	✓(1)	-
Gairdner	2000-2012	ABCD	N (1/3)	✓(6)	✓(3)	N (1/8)	✓(3)	✓(2)
Gilbert	1999-2002	AC	✓(1)	N (1/4)	✓(1)	✓(4)	✓(1)	-
Granger	2013	D	-	-	✓(1)	-	-	-
Grimmett	1999-2012	ABCD	N (1/4)	N (2/7)	✓(3)	✓(9)	✓(3)	✓(2)
Grout	2003-2012	BCD	✓(7)	✓(7)	✓(2)	✓(9)	✓(2)	✓(2)
Henley	2012	C	-	-	-	-	-	-
Hindmarsh	2008-2012	BCD	✓(6)	N (1/6)	-	N (1/9)	-	-
Kaputar	1999-2003	AC	✓(1)	✓(5)	✓(1)	✓(5)	✓(1)	✓(1)
LaTrobe	2014-2015	D	✓(1)	✓(2)	✓(2)	-	-	-
Lindwall	1999-2003	AC	✓(1)	N (1/5)	✓(1)	✓(5)	✓(1)	✓(1)
Lockyer	2009	C	✓(1)	✓(1)	-	✓(1)	-	-
Mackay	2000-2012	ABCD	N (1/4)	✓(7)	✓(3)	✓(9)	✓(3)	✓(2)
Maltstar	2015	D	-	✓(1)	✓(1)	-	-	-
Navigator	2012-2014	CD	✓(1)	✓(1)	N (1/1)	-	-	-
Oxford	2012-2013	CD	-	-	✓(1)	-	-	-
Roe	2009	C	✓(1)	✓(1)	-	✓(1)	-	-
Schooner	1999	A	✓(1)	✓(1)	-	✓(1)	-	-
Scope	2012-2013	CD	-	-	✓(1)	-	-	-
Shepherd	2007-2015	BCD	✓(2)	✓(3)	✓(1)	✓(5)	✓(1)	-
Skiff	1999-2001	AC	✓(1)	✓(3)	✓(1)	✓(3)	✓(1)	-
SY Rattler	2013	D	-	-	✓(1)	-	-	-
Tallon	1999-2006	ABCD	✓(4)	N (1/7)	✓(3)	✓(6)	✓(2)	✓(2)
Tantangara	1999-2005	ABC	✓(4)	✓(6)	✓(2)	✓(6)	✓(2)	✓(1)
Vlamingh	2007-2008	BC	✓(2)	✓(2)	-	✓(2)	-	-
Westminster	2012	C	-	-	-	-	-	-
Wimmera	2013	D	-	-	✓(1)	-	-	-
Yarra	2009	C	✓(1)	✓(1)	-	✓(1)	-	-

Rates (product/ha)	380-430g	7g	Ally 7g MCPA 0.75L	500 0.85L 625 0.65L 700 1.5L	150-200mL	2.5L	1.4L
Crop stage at spraying	3-7 leaf + 1-6 tiller	3-7 leaf + 1-6 tiller	3-7 leaf + 1-6 tiller	6-7 leaf + 3-7 tiller	3-5 leaf + 1-3 tiller	1BS	5-7 leaf + 3-4 tiller

Herbicide Cultivar	Years tested	Site	Bromicide 200 (bromoxynil)	Cadence (dicamba)	Conclude (florasulam)	Decision (diclofop + sethoxydim)	Glean chlorsulfuron	Hotshot (aminopyralid + fluroxypyr)	Hussar OD iodosulfuron
			2000-2003, 2006	2000-2003	2009	2003-2005	2011-2012	2003-2006, 2012-2015	2006-2008
			AC	AC	B	BC	BD	CD	CD
Alestar	2015	D	-	-	-	-	-	✓(1)	-
Bass	2012-2013	CD	-	-	-	-	-	✓(2)	-
Baudin	2008-2009	C	-	-	-	-	-	-	-
Binalong	2000-2009	ABCD	11 (1/5)	11 (1/4)	✓(1)	N (1/4)	-	N (2/4)	N (1/5)
Buloke	2008-2012	BCD	-	-	-	-	✓(4)	-	-
Capstan	2006-2007	BC	-	-	-	-	-	-	25 (1/2)
Charger	2014	D	-	-	-	-	-	-	-
Commander	2007-2012	C	-	-	-	-	-	-	-
Compass	2014-2015	D	-	-	-	-	-	✓(1)	-
Cowabie	2003-2006	BCD	✓(2)	N (1/1)	-	N (1/3)	-	N (2/5)	✓(1)
Fairview	2012-2014	CD	-	-	-	-	-	✓(1)	-
Fathom	2012	C	-	-	-	-	-	✓(1)	-
Fitzroy	2004-2012	BCD	✓(1)	-	✓(1)	✓(3)	-	N (1/3)	N (1/4)
Flagship	2008-2009	C	-	-	-	-	-	-	-
Fleet	2006-2009	BCD	-	-	✓(1)	-	-	-	18 (1/4)
Gairdner	2000-2012	ABCD	N (1/5)	✓(4)	N (1/1)	✓(4)	-	✓(4)	N (1/5)
Gilbert	1999-2002	AC	10 (1/3)	✓(3)	-	-	-	-	-
Granger	2013	D	-	-	-	-	-	✓(1)	-
Grimmett	1999-2012	ABCD	13 (1/5)	11-15 (2/4)	✓(1)	✓(4)	-	✓(4)	N (1/5)
Grout	2003-2012	BCD	✓(2)	N (1/1)	✓(1)	✓(4)	-	N (1/4)	N (2/5)
Henley	2012	C	-	-	-	-	-	✓(1)	-
Hindmarsh	2008-2012	BCD	-	-	-	-	✓(4)	-	-
Kaputar	1999-2003	AC	N (2/4)	✓(4)	-	✓(1)	-	✓(1)	-
LaTrobe	2014-2015	D	-	-	-	-	-	✓(1)	-
Lindwall	1999-2003	AC	✓(4)	N (1/4)	-	✓(1)	-	✓(1)	-
Lockyer	2009	C	-	-	-	-	-	-	-
Mackay	2000-2012	ABCD	13 (1/5)	7-13 (2/4)	✓(1)	✓(3)	-	N (1/4)	✓(5)
Maltstar	2015	D	-	-	-	-	-	✓(1)	-
Navigator	2012-2014	CD	-	-	-	-	-	✓(2)	-
Oxford	2012-2013	CD	-	-	-	-	-	✓(2)	-
Roe	2009	C	-	-	-	-	-	-	-
Schooner	1999	A	-	-	-	-	-	-	-
Scope	2012-2013	CD	-	-	-	-	-	✓(2)	-
Shepherd	2007-2015	BCD	-	-	✓(1)	-	-	✓(1)	✓(2)
Skiff	1999-2001	AC	✓(2)	N (1/2)	-	-	-	-	-
SY Rattler	2013	D	-	-	-	-	-	✓(1)	-
Tallon	1999-2006	ABCD	N (1/5)	8 (1/4)	-	✓(2)	-	N (1/4)	✓(1)
Tantangara	1999-2005	ABC	✓(4)	N (1/4)	-	✓(2)	-	✓(3)	-
Vlamingh	2007-2008	BC	-	-	-	-	-	-	-
Westminster	2012	C	-	-	-	-	-	✓(1)	-
Wimmera	2013	D	-	-	-	-	-	✓(1)	-
Yarra	2009	C	-	-	-	-	-	-	-
Rates (product/ha)			1.4L	200g	700mL	1.0L	20 g	0.75L	200 mL
Crop stage at spraying			5-7 leaf + 3-7 tiller	4-7 leaf + 2-5 tiller	4-5 leaf, 2-3 tiller	3-6 leaf + 1-4 tiller	5-6 leaf + 2-4 tiller	4-7 leaf + 2-6 tiller	5-6 leaf + 2-4 tiller

Herbicide	MCPA amine 500		MCPA LVE	Starane 200/ Advanced	Tordon 242	Tordon 75D + 24D	Torpedo	
Cultivar	(MCPA)		(MCPA)	(fluroxypyr)	(picloram + MCPA)	(picloram + 24D)	florasulam + clopyralid	
Years tested	2002	1999-2009	2000-2009, 2012, 2014	1999-2003, 2005-2009	1999-2002	2004		
Site	C	ABC	ACD	ABC	AC	C		
Alestar	2015	D	-	-	-	-	-	
Bass	2012-2013	CD	-	✓(1)	-	-	-	
Baudin	2008-2009	C	-	✓(2)	N (1/2)	-	-	
Binalong	2000-2009	ABCD	✓(1)	N (2/6)	12 (1/6)	✓(5)	N (1/3)	N (1/1)
Buloke	2008-2012	BCD	-	✓(2)	✓(2)	✓(2)	-	-
Capstan	2006-2007	BC	-	✓(2)	✓(2)	N (1/2)	-	-
Charger	2014	D	-	-	✓(1)	-	-	-
Commander	2007-2012	C	-	✓(3)	✓(3)	N (1/3)	-	-
Compass	2014-2015	D	-	-	✓(1)	-	-	-
Cowabbie	2003-2006	BCD	-	12 (1/4)	N (1/4)	✓(3)	-	✓(1)
Fairview	2012-2014	CD	-	-	✓(2)	-	-	-
Fathom	2012	C	-	-	✓(1)	-	-	-
Fitzroy	2004-2012	BCD	-	N (1/4)	✓(4)	N (1/3)	-	N (1/1)
Flagship	2008-2009	C	-	✓(2)	✓(2)	N (1/2)	-	-
Fleet	2006-2009	BCD	-	N (1/2)	✓(2)	N (1/2)	-	-
Gairdner	2000-2012	ABCD	✓(1)	N (1/6)	N (1/6)	✓(5)	N (1/3)	N (1/1)
Gilbert	1999-2002	AC	✓(1)	N (1/4)	✓(3)	✓(4)	N (1/4)	-
Granger	2013	D	-	-	-	-	-	-
Grimmett	1999-2012	ABCD	✓(1)	16 (1/7)	✓(6)	15 (1/6)	N (1/4)	✓(1)
Grout	2003-2012	BCD	-	N (2/7)	N (1/7)	N (2/6)	-	✓(1)
Henley	2012	C	-	-	✓(1)	-	-	-
Hindmarsh	2008-2012	BCD	-	✓(2)	✓(2)	✓(2)	-	-
Kaputar	1999-2003	AC	✓(1)	N (1/5)	✓(4)	✓(5)	✓(4)	-
LaTrobe	2014-2015	D	-	-	✓(1)	-	-	-
Lindwall	1999-2003	AC	✓(1)	N (1/5)	✓(4)	✓(5)	10 (1/4)	-
Lockyer	2009	C	-	✓(1)	✓(1)	✓(1)	-	-
Mackay	2000-2012	ABCD	✓(1)	5-16 (2/7)	N (1/7)	N (1/6)	N (1/3)	N (1/1)
Maltstar	2015	D	-	-	-	-	-	-
Navigator	2012-2014	CD	-	-	✓(2)	-	-	-
Oxford	2012-2013	CD	-	-	✓(1)	-	-	-
Roe	2009	C	-	✓(1)	✓(1)	✓(1)	-	-
Schooner	1999	A	-	✓(1)	-	✓(1)	✓(1)	-
Scope	2012-2013	CD	-	-	✓(1)	-	-	-
Shepherd	2007-2015	BCD	-	✓(2)	✓(2)	✓(2)	-	-
Skiff	1999-2001	AC	-	✓(3)	✓(2)	✓(3)	✓(3)	-
SY Rattler	2013	D	-	-	-	-	-	-
Tallon	1999-2006	ABCD	✓(1)	13 (1/7)	N (2/6)	✓(6)	✓(4)	✓(1)
Tantangara	1999-2005	ABC	✓(1)	N (2/7)	✓(6)	✓(6)	✓(4)	✓(1)
Vlamingh	2007-2008	BC	-	✓(2)	✓(2)	✓(2)	-	-
Westminster	2012	C	-	-	✓(1)	-	-	-
Wimmera	2013	D	-	-	-	-	-	-
Yarra	2009	C	-	✓(1)	✓(1)	✓(1)	-	-
Rates (product/ha)			0.75L	0.75L	1.0L/0.6L	1.0L	75D 300mL 24D 470mL	100mL
Crop stage at spraying			3-5 leaf + 1-3 tiller	3-7 leaf + 1-6 tiller	5-7 leaf + 3-6 tiller	4-5 leaf + 1-3 tiller	5-7 leaf + 3-6 tiller	3 leaf + 1 tiller

Herbicide	Triflur X		Tristar Advance
Cultivar	(Triflurin)		(diclofop + fenoxaprop)
Years tested	2005-2006	2002-2003, 2005	
Site	CD	C	
Alestar	2015	D	-
Bass	2012-2013	CD	-
Baudin	2008-2009	C	-
Binalong	2000-2009	ABCD	✓(1)
Buloke	2008-2012	BCD	-
Capstan	2006-2007	BC	-
Charger	2014	D	-
Commander	2007-2012	C	-

Compass	2014-2015	D	-	-
Cowabbbie	2003-2006	BCD	✓ (1)	✓ (1)
Fairview	2012-2014	CD	-	-
Fathom	2012	C	-	-
Fitzroy	2004-2012	BCD	✓ (1)	-
Flagship	2008-2009	C	-	-
Fleet	2006-2009	BCD	-	-
Gairdner	2000-2012	ABCD	✓ (1)	✓ (2)
Gilbert	1999-2002	AC	-	N (1/1)
Granger	2013	D	-	-
Grimmett	1999-2012	ABCD	✓ (1)	N (1/2)
Grout	2003-2012	BCD	✓ (1)	✓ (1)
Henley	2012	C	-	-
Hindmarsh	2008-2012	BCD	-	-
Kaputar	1999-2003	AC	-	✓ (2)
LaTrobe	2014-2015	D	-	-
Lindwall	1999-2003	AC	-	✓ (2)
Lockyer	2009	C	-	-
Mackay	2000-2012	ABCD	✓ (1)	11-21 (2/3)
Maltstar	2015	D	-	-
Navigator	2012-2014	CD	-	-
Oxford	2012-2013	CD	-	-
Roe	2009	C	-	-
Schooner	1999	A	-	-
Scope	2012-2013	CD	-	-
Shepherd	2007-2015	BCD	-	-
Skiff	1999-2001	AC	-	-
SY Rattler	2013	D	-	-
Tallon	1999-2006	ABCD	✓ (1)	✓ (2)
Tantangara	1999-2005	ABC	-	✓ (2)
Vlamingh	2007-2008	BC	-	-
Westminster	2012	C	-	-
Wimmera	2013	D	-	-
Yarra	2009	C	-	-
Rates			1.5L	1.5L
Crop stage at spraying			pre-plant	2-6 leaf + 1-4 tiller

Research site manager: **Greg Harvey**, DAF, Toowoomba ph 0746398889 email greg.harvey@daf.qld.gov.au

Research site location:	
Site soil type :	
Site pH :	
Site annual average rainfall mm:	

A Dalby	B Gatton	C Warwick	D Oakey
black earth	black earth	black earth	black earth
7.35	7.8	5.5-8.0	6.5-8.5
676	790	670	645



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Herbicide		Hotshot	MCPA LVE 570 / LVE Agritone	Starane Advanced	Tordon 242	
Cultivar		(aminopyralid + fluroxypyr)	(MCPA)	(fluroxypyr)	(picloram + MCPA)	
	Years tested	2010-2015	2010-2015	2010-2015	2010-2015	
	Sites	E	E	E	E	
Alestar	2014	D	✓ (1)	✓ (1)	✓ (1)	✓ (1)
Bass	2011-2013	D	N (1/3)	✓ (3)	✓ (3)	✓ (3)
Buloke	2010-2011	CD	✓ (2)	✓ (2)	✓ (2)	✓ (2)
Capstan	2010	C	✓ (1)	✓ (1)	✓ (1)	✓ (1)
Charger	2014	D	✓ (3)	✓ (3)	✓ (3)	✓ (3)
Commander	2010-2011	CD	✓ (2)	✓ (2)	✓ (2)	✓ (2)
Compass	2013-2014	D	N (1/2)	✓ (2)	✓ (2)	✓ (2)
Fairview	2012-2013	D	N (1/2)	✓ (2)	✓ (2)	✓ (2)
Fathom	2011-2013	D	✓ (3)	✓ (3)	✓ (3)	✓ (3)
Finniss	2010-2011	CD	✓ (2)	✓ (2)	N (1/2)	✓ (2)
Fitzroy	2011	D	✓ (1)	✓ (1)	✓ (1)	✓ (1)
Flagship	2010	C	✓ (1)	✓ (1)	✓ (1)	✓ (1)
Flinders	2012-2014	D	✓ (3)	✓ (3)	✓ (3)	✓ (3)
Granger	2012-2014	D	N (1/3)	✓ (3)	✓ (3)	✓ (3)
Grimmett	2010	C	✓ (1)	✓ (1)	✓ (1)	✓ (1)
Grout	2010-2011	CD	✓ (2)	✓ (2)	✓ (2)	✓ (2)
Henley	2010-2013	CD	✓ (4)	✓ (4)	✓ (4)	✓ (4)
Hindmarsh	2010-2011	CD	✓ (2)	✓ (2)	✓ (2)	✓ (2)
La Trobe	2013-2014	D	N (1/3)	N (1/3)	✓ (3)	✓ (3)
Mackay	2011	D	✓ (1)	✓ (1)	✓ (1)	✓ (1)
Macquarie	2011-2013	D	✓ (4)	✓ (4)	✓ (4)	✓ (4)
Maltstar	2014	D	✓ (1)	✓ (1)	✓ (1)	✓ (1)
Navigator	2010, 2012- 2014	CD	✓ (4)	✓ (4)	✓ (4)	✓ (4)
Oxford	2010-2013	CD	N (1/4)	✓ (4)	N (1/4)	✓ (4)
Rosalind	2015	D	✓ (1)	✓ (1)	✓ (1)	✓ (1)
Scope	2010-2013	CD	N (1/4)	✓ (4)	✓ (4)	✓ (4)
Shepherd	2010-2014	CD	✓ (5)	✓ (5)	✓ (5)	✓ (5)
Skipper	2010-2014	CD	✓ (5)	✓ (5)	✓ (5)	✓ (5)
Spartacus CL	2015	D	✓ (1)	✓ (1)	✓ (1)	✓ (1)
SY Rattler	2010, 2012- 2014	CD	N (1/4)	✓ (4)	✓ (4)	✓ (4)
Vlamingh	2010	C	✓ (1)	✓ (1)	✓ (1)	✓ (1)
Westminster	2011-2013	D	✓ (3)	✓ (3)	✓ (3)	✓ (3)
Wimmera	2010-2014	CD	✓ (5)	✓ (5)	✓ (5)	✓ (5)
Rates (product/ha)			1.5 L	1.3 L	1.2 L	2.0 L
Crop stage at spraying			5-6 leaf + 3-4 tiller	5-6 leaf + 3-4 tiller	5-6 leaf + 3-4 tiller	5-6 leaf + 3-4 tiller

Research site manager: Greg Harvey, DAF, Toowoomba ph 0746398889 email greg.harvey@daf.qld.gov.au

Research site location:		A Dalby	B Gatton	C Warwick	D Oakey
Site soil type :		black earth	black earth	black earth	black earth
Site pH :		7.35	7.8	5.5-8.0	6.5-8.5
Site annual average rainfall mm:		676	790	670	645



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