

Wheat variety response to herbicides in South Australia 2010

This research has been conducted across the mid north of South Australia 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, % 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. 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 500/625	Achieve	Affinity	Ally	Axial	Boxer Gold
		2,4-D Amine	Tralkoxydim	Carfentrazone - Ethyl	Metsulfuron-methyl	Pinoxaden + Cloquintocet-Methyl	Prosulfocarb + S-Metolachlor
Variety	Years Tested	2009-2010	2009-2010	2009-2010	2009-2010	2009-2010	2009-2010
AGT Katana	2009-2010	✓(2)	✓(2)	✓(2)	N (1/2)	N (1/2)	✓(2)
Annuello	2010	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Barham	2009	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Beaufort	2009	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Bolac	2009	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Bullet	2009	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Caparoi	2009-2010	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)
Clearfield Janz	2009	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Estoc	2009-2010	✓(2)	✓(2)	✓(2)	✓(2)	N (1/2)	✓(2)
EGA Gregory	2009-2010	✓(2)	✓(2)	N (1/2)	N (1/2)	✓(2)	✓(2)
EGA Kidman	2009	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Frame	2009-2010	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)
Gascoigne	2009	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
GBA Sapphire	2010	✓(1)	✓(1)	✓(1)	✓(1)	N (1/1)	✓(1)
Gladius	2009	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Guardian	2010	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Hyperno	2009-2010	✓(2)	✓(2)	N (1/2)	✓(2)	✓(2)	✓(2)
Kunjcin	2009-2010	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	N (1/2)
Lincoln	2009	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Mace	2009-2010	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	N (1/2)
Magenta	2010	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Orion	2009-2010	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)
Preston	2009	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Saintly	2009-2010	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)
Sentinel	2009	N (1/1)	✓(1)	✓(1)	N (1/1)	N (1/1)	✓(1)
Scout	2009-2010	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)
Tjilkuri	2009-2010	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)
SQP Revenue	2009	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Yenda	2009	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Rates (product/ha)		>1.4L	>380g	>60g	>7g	>250ml	>2.5L
Crop stage at spraying		2 node	3 leaf	3 leaf	3 leaf	3 leaf	IBS

Herbicide	Years Tested	Bromoxynil MCPA	Cadence	Diuron/MCPA (500SC)	Glean	Hussar®	Tigrex®
		Bromoxynil + MCPA	Dicamba	Diuron + MCPA Amine	Chlorsulfuron	Iodosulfuron-Merthylsodium	MCPA + Diflufenican
Variety		2009-2010	2009-2010	2009-2010	2009-2010	2009-2010	2009-2010
AGT Katana	2009-2010	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)
Annuello	2010	✓(1)	✓(1)	✓(1)	N (1/1)	✓(1)	✓(1)
Barham	2009	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Beaufort	2009	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Bolac	2009	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Bullet	2009	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Caparoi	2009-2010	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)
Clearfield Janz	2009	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Estoc	2009-2010	✓(2)	✓(2)	✓(2)	N (1/2)	✓(2)	✓(2)
EGA Gregory	2009-2010	✓(2)	N (1/2)	✓(2)	✓(2)	✓(2)	✓(2)
EGA Kidman	2009	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Frame	2009-2010	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)
Gascoigne	2009	✓(1)	N (1/1)	✓(1)	✓(1)	✓(1)	✓(1)
GBA Sapphire	2010	✓(1)	✓(1)	✓(1)	N (1/1)	✓(1)	✓(1)
Gladius	2009	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Guardian	2010	✓(1)	✓(1)	✓(1)	N (1/1)	✓(1)	✓(1)
Hyperno	2009-2010	N (1/2)	N (1/2)	✓(2)	N (1/2)	N (1/2)	✓(2)
Kunjin	2009-2010	N (1/2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)
Lincoln	2009	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Mace	2009-2010	N (1/2)	N (1/2)	✓(2)	N (1/2)	✓(2)	✓(2)
Magenta	2010	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Orion	2009-2010	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)
Preston	2009	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Saintly	2009-2010	✓(2)	✓(2)	N (1/2)	N (1/2)	N (1/2)	✓(2)
Sentinel	2009	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Scout	2009-2010	✓(2)	✓(2)	✓(2)	N (1/2)	✓(2)	✓(2)
Tjilkuri	2009-2010	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)	✓(2)
SQP Revenue	2009	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Yenda	2009	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)	✓(1)
Rates (product/ha)		>1.4L	>200g	>500ml/350ml	>20g	>200g	>200g
Crop stage at spraying		3 leaf	5 leaf	3 leaf	3 leaf	3 leaf	3 leaf

Research site manager:

Courtney Ramsey, SARDI Research Officer (Herbicide Tolerance) (08) 8303 9479

ramsey.courtney@sa.gov.au

Research site location:

Mallala Lower Mid-North 2010/ Bocconoc Park, Mid North 2009

Site soil type :

Grey mallee loam / Friable light clay loam overlying carbonate at varying depths

Site annual average rainfall:

400 mm



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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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