

Sensitivity of barley and wheat cultivars to herbicides

Fact sheet

Summary of research in southern Queensland 1999-2008

Research in southern Queensland has shown that herbicide tolerance differed among the barley and wheat cultivars grown in the Northern Region. Field experiments were at weed-free sites, where yields were compared between those sprayed with registered herbicides at the recommended and double rates with untreated controls for each cultivar. Herbicide rates and crop stages at spraying are presented in the tables below. Not all cultivars were included in each field trial.

The research is funded by the Grains Research and Development Corporation and various chemical companies.

Rating system

The sensitivity of the cultivars is summarised, using the following symbols based on the yield responses across all trials. These ratings are a guide only.

- ✓ = no significant yield reductions at recommended and double rates in # trials tested, as noted in brackets
- **N (narrow safety margin)** = significant yield reductions at double rate, but not at recommended rate, in # of # trials tested, as noted in brackets
- **x% yield reduction** (warning) = significant yield reduction at recommended rate in 1 trial only of # trials tested, as noted in brackets
- **x-y% yield reductions** (warning) = the range of significant yield reductions at recommended rate in 2+ trials of # trials tested, as noted in brackets.

Barley cultivars

The response of 21 currently grown barley cultivars to herbicides is summarised in Table 1. Significant yield reductions at the recommended rate have been recorded in several cultivars for Bromicide 200, Cadence, MCPA LVE, Starane, Tordon 242, Tordon 75D +24D, and Tristar Advance.

Wheat cultivars

The response of 46 currently grown wheat cultivars to herbicides is summarised in Table 2. Significant yield reductions at the recommended rate were recorded in several cultivars for Ally, Amicide, Atlantis, Broadside, Bromicide 200, Cadence, Crusader, Glean, Hussar, Mataven 90, MCPA LVE, Starane, Topik, Tordon 242 and Triflur X, plus several mixes.



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Table 1.1 Barley cultivars response to herbicides

Cultivar	Achieve (tralkoxydim)	Ally (metsulfuron)	Ally + MCPA (metsulfuron + MCPA LVE)	Amicide 500 / 625 (24D amine)	Axial 100 EC (pinoxaden)
Baudin	✓ (1)	✓ (1)		✓ (1)	
Binalong	N (1/3)	✓ (6)	✓ (3)	✓ (5)	✓ (2)
Buloke	✓ (1)	✓ (1)		✓ (1)	
Capstan	✓ (2)	✓ (2)		✓ (2)	
Commander	✓ (2)	✓ (2)		✓ (2)	
Cowabbbie	✓ (4)	✓ (4)	✓ (2)	✓ (3)	✓ (1)
Fitzroy	N (1/5)	✓ (4)	✓ (2)	✓ (3)	✓ (1)
Flagship	✓ (1)	✓ (1)		✓ (1)	
Fleet	✓ (2)	✓ (2)		✓ (2)	
Gairdner	N (1/3)	✓ (6)	✓ (3)	✓ (5)	✓ (2)
Grimmett	N (1/4)	N (2/7)	✓ (3)	✓ (6)	✓ (2)
Grout	✓ (6)	✓ (6)	✓ (2)	✓ (5)	✓ (1)
Hindmarsh	✓ (1)	✓ (1)		✓ (1)	
Kaputar	✓ (1)	✓ (5)	✓ (1)	✓ (5)	✓ (1)
Lindwall	✓ (1)	N (1/5)	✓ (1)	✓ (5)	✓ (1)
Mackay	N (1/4)	✓ (7)	✓ (3)	✓ (6)	✓ (2)
Shepherd	✓ (2)	✓ (2)		✓ (2)	
Skiff	✓ (1)	✓ (3)	✓ (1)	✓ (3)	✓ (1)
Tallon	✓ (4)	N (1/7)	✓ (3)	✓ (6)	✓ (2)
Tantangara	✓ (4)	✓ (6)	✓ (2)	✓ (6)	✓ (2)
Vlamingh	✓ (2)	✓ (2)		✓ (2)	
Rate (product/ha)	380 - 430g	7g	7g + 0.75L	500: 0.85L 625: 0.65L	0.15 – 0.20L
Crop stage at spraying	3-7 leaf + 1-6 tiller	3-7 leaf + 1-6 tiller	3-7 leaf + 1-6 tiller	5-7 leaf + 3-7 tiller	3-5 leaf + 1-3 tiller

Table 1.2 Barley cultivars response to herbicides (continued)

Cultivar	Boxer Gold (metolachlor + prosulfocarb)	Bromicide MA (bromoxynil + MCPA)	Bromicide 200 (bromoxynil)	Cadence (dicamba)	Decision (diclofop + sethoxydim)
Baudin					
Binalong	✓ (2)	✓ (2)	11 (1/5)	11 (1/4)	N (1/4)
Buloke					
Capstan					
Commander					
Cowabbbie	✓ (2)	✓ (2)	✓ (2)	N (1/1)	N (1/3)
Fitzroy	✓ (2)	N (1/1)	✓ (1)		✓ (3)
Flagship					
Fleet					
Gairdner	✓ (2)	N (1/2)	N (1/5)	✓ (1/4)	✓ (4)
Grimmett	✓ (2)	N (1/2)	13 (1/5)	11-15 (2/4)	✓ (4)
Grout	✓ (2)	N (1/2)	✓ (2)	N (1/1)	✓ (4)
Hindmarsh					
Kaputar		✓ (1)	N (2/4)	✓ (4)	✓ (1)
Lindwall		✓ (1)	✓ (4)	N (1/4)	✓ (1)
Mackay	✓ (2)	✓ (2)	13 (1/5)	7-13 (2/4)	✓ (3)
Shepherd					
Skiff			✓ (2)	N (1/2)	
Tallon	✓ (2)	N (1/2)	N (1/5)	8 (1/4)	✓ (4)
Tantangara	✓ (1)	✓ (2)	✓ (4)	N (1/4)	✓ (4)
Vlamingh					
Rate (product/ha)	2.5L	1.4L	1.4L	200g	1L
Crop stage at spraying	Pre-plant	5-7 leaf + 3-4 tiller	5-7 leaf + 3-7 tiller	4-7 leaf + 2-5 tiller	3-6 leaf + 1-4 tiller

Table 1.3 Barley cultivars response to herbicides (continued)

Cultivar	Hotshot (aminopyralid + fluroxypyr)	MCPA 500 (MCPA)	MCPA LVE (MCPA)	Starane 200/Advanced (fluroxypyr)	Tordon 242 (picloram + MCPA)
Baudin			✓ (1)	✓ (1)	N (1/1)
Binalong	N (2/4)	✓ (1)	N (2/6)	12 (1/6)	✓ (5)
Buloke			✓ (1)	✓ (1)	✓ (1)
Capstan			✓ (2)	✓ (2)	N (1/2)
Commander			✓ (2)	✓ (2)	N (1/2)
Cowabbbie	N (1/4)		12 (1/4)	N (1/4)	✓ (3)
Fitzroy	N (1/3)		N (1/4)	✓ (4)	N (1/3)
Flagship			✓ (1)	✓ (1)	N (1/1)
Fleet			N (1/2)	✓ (2)	N (1/2)
Gairdner	✓ (4)	✓ (1)	N (1/6)	N (1/6)	✓ (5)
Grimmett	✓ (4)	✓ (1)	16 (1/7)	✓ (6)	15 (1/6)
Grout	N (1/4)		N (2/6)	N (1/6)	N (2/5)
Hindmarsh			✓ (1)	✓ (1)	✓ (1)
Kaputar	✓ (1)	✓ (1)	N (1/5)	✓ (4)	✓ (5)
Lindwall	✓ (1)	✓ (1)	N (1/5)	✓ (4)	✓ (5)
Mackay	N (1/4)	✓ (1)	5-16 (2/7)	N (1/7)	N (1/6)
Shepherd			✓ (2)	✓ (2)	✓ (2)
Skiff			✓ (3)	✓ (2)	✓ (3)
Tallon	N (1/4)	✓ (1)	13 (1/7)	N (2/6)	✓ (6)
Tantangara	✓ (3)	✓ (1)	N (2/7)	✓ (6)	✓ (6)
Vlamingh			✓ (2)	✓ (2)	✓ (2)
Rate (product/ha)	0.75L	0.75L	0.75L	200: 1.0L Advanced: 0.6L	1.0L
Crop stage at spraying	4-7 leaf + 2-6 tiller	3-5 leaf + + 1-3 tiller	3-7 leaf + + 1-6 tiller	5-7 leaf + 3-6 tiller	4-5 leaf + 1-3 tiller

Table 1.4 Barley cultivars response to herbicides (continued)

Cultivar	Tordon 75D + 24D (picloram + 24D)	Torpedo (florasulam + pyridine)	Triflur X (trifluralin)	Tristar Advance (diclofop + fenoxaprop)
Baudin				
Binalong	N (1/3)	N (1/1)	✓ (1)	30 (1/2)
Buloke				
Capstan				
Commander				
Cowabbie		✓ (1)	✓ (1)	✓ (1)
Fitzroy		N (1/1)	✓ (1)	
Flagship				
Fleet				
Gairdner	N (1/3)	N (1/1)	✓ (1)	✓ (2)
Grimmett	N (1/4)	✓ (1)	✓ (1)	N (1/2)
Grout		✓ (1)	✓ (1)	✓ (1)
Hindmarsh				
Kaputar	✓ (4)			✓ (2)
Lindwall	10 (1/4)			✓ (2)
Mackay	N (1/3)	N (1/1)	✓ (1)	11-21 (2/3)
Skiff	✓ (3)			
Tallon	✓ (4)	✓ (1)	✓ (1)	✓ (2)
Tantangara	✓ (4)	✓ (1)		✓ (2)
Vlamingh				
Rate (product/ha)	0.30 + 0.47L	0.1L	1.5L	1.5L
Crop stage at spraying	5-7 leaf + 3-6 tiller	3 leaf + 1 tiller	Pre-plant	2-6 leaf + 1-4 tiller

Table 2.1 Wheat cultivars response to herbicides

Cultivar	Achieve (tralkoxydim)	Ally (metsulfuron)	Ally + MCPA (metsulfuron + MCPA)	Amicide 500/625 (24D amine)	Atlantis (mesosulfuron)	Atlantis OD (mesosulfuron)
Baxter	✓ (1)	N (1/4)	✓ (1)	N (1/4)	✓ (4)	N (1/2)
Braewood		✓ (2)		N (1/2)		
Caparoi		N (2/2)		✓ (2)		
Carinya		✓ (3)	✓ (1)	✓ (1)	✓ (1)	✓ (1)
Cunningham	✓ (1)	16-21 (2/5)	✓ (1)	✓ (4)	✓ (2)	
EGA Bellaroi	✓ (3)	N (1/5)	9 (1/2)	✓ (3)	N (1/3)	9 (1/2)
EGA Bounty		✓ (1)		✓ (1)		
EGA Burke		N (1/4)	✓ (1)	24 (1/2)	✓ (1)	✓ (1)
EGA Gregory	✓ (3)	N (2/5)	N (1/2)	✓ (2)	✓ (1)	✓ (1)
EGA Hume	✓ (3)	✓ (4)	✓ (1)	N (1/3)	✓ (4)	✓ (2)
EGA Kidman		✓ (1)		✓ (1)		
EGA Stampede		✓ (4)		N (1/3)		
EGA Wentworth	✓ (2)	N (1/4)	✓ (2)	✓ (2)	✓ (1)	✓ (1)
EGA Wills		✓ (3)		✓ (3)		
EGA Wylie	✓ (3)	N (3/4)	✓ (2)	N (1/2)	✓ (1)	✓ (1)
Ellison	✓ (3)	8 (1/6)	✓ (2)	N (2/4)	✓ (2)	✓ (1)
GBA Hunter	✓ (2)	✓ (3)		✓ (1)		N (1/1)
GBA Ruby		✓ (1)		9 (1/1)		
GBA Sapphire	✓ (3)	✓ (3)	✓ (1)		✓ (1)	N (1/1)
Giles	✓ (1)	18-21 (2/5)	✓ (1)	N (1/4)	✓ (4)	
Hartog	✓ (1)	N (1/6)	✓ (1)	9 (1/5)	✓ (4)	
Jandaroi		8-9 (2/4)	✓ (1)	✓ (2)	✓ (1)	N (1/1)
Kamilaroi	✓ (1)	N (2/4)	✓ (1)	✓ (4)	15 (1/2)	
Kennedy	✓ (1)	N (1/10)	✓ (2)	✓ (8)	✓ (5)	N (1/3)
Lang	✓ (2)	8 (1/5)	N (1/2)	✓ (5)	✓ (4)	✓ (2)
Leichhardt	✓ (1)	✓ (4)	✓ (1)	N (1/4)	✓ (2)	
Livingston		9 (1/3)		✓ (2)		
LR Crusader		✓ (1)		17 (1/1)		
LR Dakota		✓ (1)		✓ (1)		
LR Hornet		✓ (1)		✓ (1)		
Merinda		✓ (4)		✓ (3)		
Petrie	✓ (2)	7-11 (2/5)	✓ (2)	✓ (5)	✓ (4)	N (1/2)
QALBis	✓ (1)	12-14 (2/3)		N (1/2)		
Rees	✓ (3)	11 (1/3)	N (1/1)	N (2/2)	✓ (2)	
Strzelecki	✓ (2)	N (1/5)	✓ (2)	✓ (5)	✓ (4)	
Sunbri	✓ (1)	N (1/4)		✓ (4)	✓ (1)	
Sunbrook	✓ (1)	N (1/4)		✓ (4)	✓ (1)	
Sunco	✓ (1)	17 (1/5)	✓ (1)	✓ (4)	✓ (4)	N (1/2)
Sunlin	✓ (1)	✓ (4)	✓ (1)	✓ (3)	✓ (4)	14 (1/2)
Sunstate	✓ (1)	✓ (4)	✓ (1)	N (1/4)	✓ (4)	
Sunvale	✓ (1)	N (2/4)	✓ (1)	✓ (4)	✓ (4)	8 (1/2)
Sunvex		✓ (2)		✓ (2)		
Sunzell		N (1/4)	N (1/1)	✓ (2)	✓ (1)	N (1/1)
Ventura	✓ (3)	6-10 (2/5)	N (1/1)	N (1/3)	✓ (1)	N (1/1)
Wollaroi	✓ (1)	N (1/3)	✓ (1)	✓ (4)	✓ (3)	N (1/2)
Yallaroi	✓ (1)	18 (1/4)	✓ (1)	✓ (4)	✓ (4)	
Rate (product/ha)	380 - 430g	7g	7g + 0.75L	500: 0.85L 625: 0.65L	0.33L	0.33L
Crop stage at spraying	3-5 leaf + 1-2 tiller	3-7 leaf + 1-6 tiller	4-7 leaf + 2-6 tiller	4-7 leaf + 3-9 tiller	2-5 leaf + 1-4 tiller	3-5 leaf + 1-3 tiller

Table 2.2 Wheat cultivars response to herbicide (continued)

Cultivar	Axial 100EC (pinoxaden)	Boxer Gold pre-plant (metolachlor + prosulfocarb)	Broadside (bromoxynil + MCPA + dicamba)	Bromicide MA (bromoxynil + MCPA)	Bromicide 200 (bromoxynil)
Baxter	✓ (4)	✓ (2)	✓ (1)	N (1/2)	28 (1/4)
Braewood					
Carinya		✓ (1)			
Caparoi					
Cunningham	✓ (3)		✓ (1)	N (1/2)	✓ (4)
EGA Bellaroi	✓ (1)	✓ (2)	✓ (1)	✓ (1)	
EGA Bounty					
EGA Burke					
EGA Gregory		✓ (1)			
EGA Hume	✓ (2)	✓ (1)	✓ (1)	✓ (2)	✓ (1)
EGA Kidman					
EGA Stampede					
EGA Wentworth		✓ (1)			
EGA Wills					
EGA Wylie		✓ (1)			
Ellison	✓ (1)	✓ (2)			
GBA Hunter		✓ (1)			
GBA Ruby					
GBA Sapphire					
Giles	N (1/4)	N (1/2)	12 (1/1)	✓ (2)	✓ (4)
Hartog	✓ (4)	✓ (1)	N (1/1)	N (1/2)	✓ (4)
Jandaroi					
Kamilaroi	✓ (3)		✓ (1)	✓ (2)	✓ (4)
Kennedy	✓ (4)	✓ (3)	✓ (1)	N (1/2)	N (1/4)
Lang	✓ (4)	✓ (2)	✓ (1)	✓ (2)	✓ (4)
Leichhardt	N (1/3)		✓ (1)	✓ (2)	N (1/4)
Livingston					
LR Crusader					
LR Dakota					
LR Hornet					
Merinda					
Petrie	✓ (4)	✓ (2)	✓ (1)	✓ (2)	✓ (4)
QALBis					
Rees	✓ (1)	✓ (2)			
Strzelecki	✓ (4)	✓ (1)	✓ (1)	N (1/2)	N (1/4)
Sunbri	✓ (3)			✓ (1)	✓ (4)
Sunbrook	✓ (3)			✓ (1)	✓ (4)
Sunco	✓ (4)	✓ (2)	12 (1/1)	✓ (2)	✓ (4)
Sunlin	✓ (4)	✓ (2)	✓ (1)	✓ (2)	✓ (4)
Sunstate	✓ (4)	✓ (1)	10 (1/1)	✓ (2)	✓ (4)
Sunvale	N (1/4)	✓ (2)	✓ (1)	✓ (2)	✓ (4)
Sunvex					
Sunzell					
Ventura		✓ (1)			
Wollaroi	✓ (3)	✓ (2)	8 (1/1)	N (1/1)	✓ (3)
Yallaroi	✓ (4)	✓ (2)	✓ (1)	✓ (2)	29 (1/4)
Rate (product/ha)	0.15 – 0.20L	2.5L	1.0L	1.4L	1.4L
Crop stage at spraying	3-5 leaf + 1-2 tiller	Pre-plant	6-7 leaf + 3-4 tiller	6-7 leaf + 3-5 tiller	4-7 leaf + 3-7 tiller

Table 2.3 Wheat cultivars response to herbicide (continued)

Cultivar	Cadence (dicamba)	Crusader (pyroxsulam)	Crusader + Hotshot (pyroxsulam + [aminopyralid + fluroxypyr])	Crusader + MCPA LVE (pyroxsulam + MCPA)	Crusader + Hotshot + MCPA LVE (pyroxsulam + [aminopyralid + fluroxypyr] + MCPA)
Baxter	N (1/3)	7 (1/3)	✓ (2)	✓ (2)	N (1/2)
Braewood	18 (1/2)				
Caparoi					
Carinya	✓ (1)				
Cunningham	N (1/3)				
EGA Bellaroi	✓ (4)	✓ (1)			
EGA Bounty					
EGA Burke					
EGA Gregory	✓ (2)	✓ (1)	✓ (1)	N (1/1)	N (1/1)
EGA Hume	N (1/3)	N (1/2)	✓ (1)	✓ (1)	N (1/1)
EGA Kidman					
EGA Stampede					
EGA Wentworth	N (1/2)				
EGA Wills					
EGA Wylie	✓ (2)				
Ellison	23 (1/4)	N (1/2)	✓ (1)	✓ (1)	3 (1/1)
GBA Hunter	N (1/2)				
GBA Ruby					
GBA Sapphire	✓ (1)				
Giles	✓ (3)	N (1/2)	N (1/1)	✓ (1)	N (1/1)
Hartog	37 (1/4)	✓ (1)			
Jandaroi					
Kamilaroi	✓ (3)				
Kennedy	N (2/4)	✓ (3)	5 (1/2)	✓ (2)	3 (1/2)
Lang	✓ (5)	N (1/3)	8 (1/2)	N (1/2)	✓ (2)
Leichhardt	36 (1/3)				
Livingston					
LR Crusader					
LR Dakota					
LR Hornet					
Merinda					
Petrie	N (1/5)	✓ (3)	N (1/2)	✓ (2)	N (1/2)
QALBis	N (1/2)				
Rees	N (1/2)	✓ (1)			
Strzelecki	38 (1/5)	✓ (1)			
Sunbri	✓ (3)				
Sunbrook	✓ (3)				
Sunco	✓ (3)	N (2/3)	✓ (2)	✓ (2)	5 (1/2)
Sunlin	✓ (3)	N (2/3)	N (1/2)	N (1/2)	3 (1/2)
Sunstate	38 (1/3)	✓ (1)			
Sunvale	✓ (3)	N (1/3)	N (1/2)	N (1/2)	5 (1/2)
Sunvex					
Sunzell					
Ventura	13 (1/4)				
Wollaroi	✓ (3)	10 (1/2)	6 (1/1)	✓ (1)	N (1/1)
Yallaroi	23 (1/3)	8 (1/2)	N (1/1)	✓ (1)	N (1/1)
Rate (product/ha)	200g	0.5L	0.5 + 0.5L	0.5 + 0.5L	0.5 + 0.5 + 0.5L
Crop stage at spraying	3-6 leaf + 1-5 tiller	3-5 leaf + 1-4 tiller	5 leaf + 2-4 tiller	5 leaf + 2-4 tiller	5 leaf + 2-4 tiller

Table 2.4 Wheat cultivars response to herbicides (continued)

Cultivar	Glean pre-plant (chlorsulfuron)	Glean post-emergent (chlorsulfuron)	Hotshot (aminopyralid + fluroxypyr)	Hussar (iodosulfuron)	Hussar OD (iodosulfuron)	Logran (triasulfuron)	Logran B Power (triasulfuron + butafenacil)
Baxter	✓ (3)	✓ (1)	✓ (4)	11 (1/7)	N (1/4)	✓ (3)	✓ (1)
Braewood		✓ (2)					
Caparoi		N (1/2)					
Carinya		✓ (2)	✓ (2)	✓ (1)	✓ (2)		
Cunningham	✓ (3)		✓ (2)	N (2/3)		N (1/3)	N (1/1)
EGA Bellaroi		✓ (5)	✓ (3)	N (1/4)	11 (1/4)		
EGA Bounty		✓ (1)					
EGA Burke		✓ (3)	✓ (1)	✓ (1)	N (1/1)		
EGA Gregory		✓ (5)	✓ (2)	✓ (3)	N (1/4)		
EGA Hume		✓ (4)	✓ (3)	✓ (4)	14 (1/3)		
EGA Kidman		✓ (1)					
EGA Stampede		✓ (4)					
EGA Wentworth		✓ (3)	✓ (2)	✓ (2)	✓ (2)		
EGA Wills		✓ (3)					
EGA Wylie		✓ (3)	✓ (2)	✓ (2)	✓ (2)		
Ellison		✓ (6)	✓ (3)	N (1/4)	12 (1/3)		
GBA Hunter		✓ (3)	✓ (2)		12 (1/2)		
GBA Ruby		✓ (1)					
GBA Sapphire		✓ (2)	✓ (1)	✓ (1)	N (1/1)		
Giles	✓ (3)		✓ (4)	N (1/6)	✓ (2)	✓ (3)	N (1/1)
Hartog	N (1/3)	✓ (1)	✓ (3)	6 (1/5)	✓ (1)	✓ (3)	✓ (1)
Jandaroi		N (1/3)	✓ (1)	✓ (1)	14 (1/1)		
Kamilaroi	✓ (3)		✓ (2)	N (1/3)		N (1/3)	✓ (1)
Kennedy	N (1/3)	N (1/6)	✓ (6)	N (2/8)	14 (1/6)	N (1/3)	N (1/1)
Lang	N (1/2)	✓ (3)	✓ (4)	14 (1/8)	✓ (4)	✓ (2)	N (1/1)
Leichhardt	✓ (3)		N (1/2)	6 (1/3)		✓ (3)	✓ (1)
Livingston		N (1/3)					
LR Crusader		✓ (1)					
LR Dakota		✓ (1)					
LR Hornet		✓ (1)					
Merinda		✓ (4)					
Petrie	✓ (2)	19 (1/3)	✓ (4)	✓ (8)	N (1/4)	✓ (2)	✓ (1)
QALBis		✓ (3)					
Rees		16 (1/3)	✓ (3)	✓ (3)	✓ (2)		
Strzelecki	✓ (2)	✓ (2)	✓ (3)	6 (1/6)	✓ (1)	✓ (2)	N (1/1)
Sunbri	✓ (3)		✓ (1)	N (1/2)		✓ (3)	N (1/1)
Sunbrook	✓ (3)		✓ (1)	9 (1/2)		✓ (3)	N (1/1)
Sunco	N (1/3)	✓ (1)	N (4)	6 (1/7)	N (1/4)	N (1/3)	N (1/1)
Sunlin	✓ (3)	✓ (1)	✓ (4)	8 (1/7)	12 (1/4)	✓ (3)	✓ (1)
Sunstate	✓ (3)		✓ (3)	7 (1/5)	✓ (1)	N (1/3)	✓ (1)
Sunvale	✓ (3)	✓ (1)	N (4)	N (1/7)	✓ (4)	✓ (3)	✓ (1)
Sunvex		✓ (1)					
Sunzell		✓ (3)	✓ (1)	✓ (1)	13 (1/1)		
Ventura		15-19 (2/5)	✓ (1)	✓ (2)			
Wollaroi	✓ (3)		✓ (3)	15 (1/6)	14-24 (2/4)	✓ (3)	✓ (1)
Yallaroi	✓ (3)		✓ (4)	N (1/6)	N (1/2)	N (1/3)	✓ (1)
Rate (product/ha)	20g	20g	0.75L	200g	0.1L	35g	50g
Crop stage at spraying	Pre-plant	3-7 leaf + 1-6 tiller	5-7 leaf 2-5 tiller	2-5 leaf + 1-4 tiller	3-7 leaf + 1-7 tiller	Pre-plant	Pre-plant

Table 2.5 Wheat cultivars response to herbicide (continued)

Cultivar	Mataven 90 (flamprop)	Mataven 90 (SST) (flamprop)	MCPA 500 (MCPA)	MCPA LVE (MCPA)	Precept (pyrasulfotole + MCPA LVE)	Starane 200/Advanced (fluroxypyr)
Baxter	✓ (3)	N (3/4)		N (1/3)	✓ (1)	N (1/6)
Braewood			✓ (2)	✓ (2)		✓ (2)
Caparoi				✓ (2)		✓ (2)
Carinya	✓ (1)	N (1/1)		✓ (1)	N (1/1)	✓ (1)
Cunningham	✓ (2)	14 (1/3)		✓ (3)		✓ (5)
EGA Bellaroi	✓ (3)	✓ (3)	✓ (3)	✓ (4)	✓ (1)	✓ (5)
EGA Bounty				✓ (1)		✓ (1)
EGA Burke		N (1/1)		✓ (3)	✓ (1)	✓ (2)
EGA Gregory	✓ (1)	N (1/2)	✓ (1)	N (1/3)	✓ (1)	✓ (2)
EGA Hume	N (1/3)	N (1/4)	✓ (3)	✓ (3)	✓ (1)	✓ (6)
EGA Kidman				✓ (1)		✓ (1)
EGA Stampede				✓ (4)		✓ (3)
EGA Wentworth	✓ (1)	✓ (1)	✓ (1)	N (1/3)	✓ (1)	✓ (2)
EGA Wills				✓ (3)		✓ (3)
EGA Wylie	✓ (1)	9-13 (2/2)	N (1/1)	22 (1/2)	✓ (1)	✓ (2)
Ellison	N (1/2)	14-21 (4/5)	✓ (3)	N (2/4)	✓ (1)	✓ (5)
GBA Hunter	✓ (1)	13 (1/1)	✓ (1)	17 (1/4)	✓ (1)	12 (1/1)
GBA Ruby				N (1/1)		✓ (1)
GBA Sapphire		N (1/2)	✓ (1)	✓ (2)	✓ (1)	
Giles	✓ (3)	N (1/5)		✓ (3)		✓ (6)
Hartog	7 (1/3)	N (3/5)	✓ (1)	✓ (4)		N (1/7)
Jandaroi		15 (1/1)		✓ (3)	✓ (1)	✓ (2)
Kamilaroi	N (1/2)	28 (1/3)		✓ (3)		N (1/5)
Kennedy	✓ (4)	N (2/5)		N (1/8)	✓ (2)	✓ (10)
Lang	✓ (3)	N (1/4)	✓ (2)	✓ (4)	✓ (1)	N (1/8)
Leichhardt	✓ (2)	11 (1/3)		✓ (3)		N (1/5)
Livingston				✓ (3)		✓ (2)
LR Crusader				N (1/1)		✓ (1)
LR Dakota				✓ (1)		✓ (1)
LR Hornet				✓ (1)		✓ (1)
Merinda				✓ (4)		✓ (3)
Petrie	✓ (3)	N (1/4)	✓ (2)	✓ (4)	✓ (1)	✓ (8)
QALBis		N (1/1)	✓ (2)	✓ (2)		✓ (2)
Rees	N (1/2)	7-9 (2/3)	N (1/1)	✓ (2)		✓ (3)
Strzelecki	✓ (3)	✓ (4)	✓ (2)	N (1/4)		N (1/8)
Sunbri	✓ (1)	35 (1/2)		✓ (3)		✓ (4)
Sunbrook	✓ (1)	✓ (2)		✓ (3)		✓ (4)
Sunco	✓ (3)	N (1/4)		✓ (3)	✓ (1)	✓ (6)
Sunlin	9 (1/3)	14-65 (6/7)		✓ (2)	✓ (1)	✓ (5)
Sunstate	N (1/3)	10 (1/6)		✓ (3)		✓ (6)
Sunvale	✓ (3)	N (1/4)		✓ (3)	✓ (1)	✓ (6)
Sunvex				✓ (2)		✓ (2)
Sunzell		N (1/1)		✓ (2)	✓ (1)	✓ (2)
Ventura	✓ (1)	N (1/1)	✓ (3)	✓ (4)	✓ (1)	N (1/3)
Wollaroi	N (2/2)	13-18 (4/5)		✓ (3)	✓ (1)	✓ (5)
Yallaroi	✓ (3)	8-12 (2/6)		✓ (3)		✓ (6)
Rate (product/ha)	2.5L	1.85L	0.75L	0.75L	1.5L	200: 1.0L Advanced: 0.6L
Crop stage at spraying	5-7 leaf + 3-6 tiller	1-9 node	3-4 leaf + 1-2 tiller	3-6 leaf + 1-5 tiller	3 leaf + 1 tiller	5-6 leaf + 3-6 tiller

Table 2.6 Wheat cultivars response to herbicide (continued)

Cultivar	Topik 240EC (clodinafop)	Tordon 242 (picloram + MCPA)	Tordon 75D+24D (picloram + 24D)	Torpedo (florasulam + pyridine)	Triflur X (trifluralin)	Tristar Advance (diclofop + fenoxaprop)
Baxter	✓ (4)	N (1/6)	✓ (3)	✓ (1)	N (1/1)	N (1/1)
Braewood	✓ (2)	✓ (2)				
Caparoi		✓ (2)				
Carinya					✓ (1)	
Cunningham	✓ (4)	✓ (6)	✓ (3)	✓ (1)		✓ (1)
EGA Bellaroi	✓ (3)	✓ (4)		✓ (1)	✓ (1)	
EGA Bounty		✓ (1)				
EGA Burke		✓ (3)				
EGA Gregory	✓ (1)	✓ (2)			✓ (1)	
EGA Hume	✓ (4)	✓ (5)		✓ (1)		
EGA Kidman		✓ (1)				
EGA Stampede		N (1/4)				
EGA Wentworth		✓ (2)			N (1/1)	
EGA Wills		✓ (3)				
EGA Wylie	✓ (1)	✓ (1)			✓ (1)	
Ellison	✓ (3)	✓ (3)			N (1/1)	
GBA Hunter		✓ (3)			✓ (1)	
GBA Ruby		N (1/1)				
GBA Sapphire	✓ (1)	✓ (2)				
Giles	N (1/4)	N (1/6)	✓ (3)	✓ (1)	14 (1/1)	N (1/1)
Hartog	✓ (5)	N (1/7)	✓ (3)	✓ (1)		✓ (1)
Jandaroi		✓ (3)				
Kamilaroi	✓ (4)	✓ (6)	✓ (3)	✓ (1)		✓ (1)
Kennedy	N (1/4)	N (2/10)	✓ (3)	✓ (1)	N (2/2)	✓ (1)
Lang	✓ (4)	N (1/7)	✓ (2)	✓ (1)	N (1/1)	✓ (1)
Leichhardt	✓ (4)	N (2/6)	✓ (3)	✓ (1)		✓ (1)
Livingston		✓ (3)				
LR Crusader		N (1/1)				
LR Dakota		✓ (1)				
LR Hornet		✓ (1)				
Merinda		✓ (4)				
Petrie	✓ (4)	16 (1/7)	✓ (2)	✓ (1)	N (1/1)	✓ (1)
QALBis	✓ (3)	✓ (2)				
Rees	✓ (1)	✓ (1)			23 (1/1)	
Strzelecki	✓ (4)	✓ (7)	✓ (2)	✓ (1)		✓ (1)
Sunbri	✓ (4)	✓ (5)	✓ (3)			✓ (1)
Sunbrook	✓ (4)	N (1/5)	✓ (3)			✓ (1)
Sunco	✓ (4)	✓ (6)	✓ (3)	✓ (1)	✓ (1)	✓ (1)
Sunlin	✓ (4)	N (1/5)	✓ (2)	✓ (1)	✓ (1)	N (1/1)
Sunstate	✓ (4)	N (2/6)	✓ (3)	✓ (1)		✓ (1)
Sunvale	13 (1/4)	✓ (6)	✓ (3)	✓ (1)	N (1/1)	✓ (1)
Sunvex		✓ (2)				
Sunzell		✓ (2)				
Ventura	N (1/3)	✓ (3)			✓ (1)	
Wollaroi	✓ (3)	✓ (5)	N (1/3)	✓ (1)	✓ (1)	✓ (1)
Yallaroi	N (1/3)	N (1/6)	✓ (3)	✓ (1)	✓ (1)	N (1/1)
Rate (product/ha)	0.085L	1.0L	0.30 + 0.47L	0.1L	1.5L	1.5L
Crop stage at spraying	3-5 leaf + 1-2 tiller	4-6 leaf + 1-6 tiller	4-7 leaf + 3-9 tiller	4-5 leaf + 2 tiller	Pre-plant	3 leaf + 1-2 tiller

Table 2.7 Wheat cultivars response to herbicides (continued)

Cultivar	Wildcat (fenoxaprop)
Baxter	N (1/4)
Braewood	✓ (2)
Caparoi	
Carinya	
Cunningham	✓ (4)
EGA Bellaroi	✓ (3)
EGA Bounty	
EGA Burke	
EGA Gregory	✓ (1)
EGA Hume	✓ (3)
EGA Kidman	
EGA Stampede	
EGA Wentworth	
EGA Wills	
EGA Wylie	✓ (1)
Ellison	✓ (3)
GBA Hunter	
GBA Ruby	
GBA Sapphire	✓ (1)
Giles	✓ (4)
Hartog	N (1/5)
Jandaroi	
Kamilaroi	✓ (4)
Kennedy	✓ (4)
Lang	✓ (4)
Leichhardt	✓ (4)
Livingston	
LR Crusader	
LR Dakota	
LR Hornet	
Merinda	
Petrie	✓ (4)
QALBis	✓ (3)
Rees	✓ (1)
Strzelecki	✓ (4)
Sunbri	✓ (4)
Sunbrook	✓ (4)
Sunco	✓ (4)
Sunlin	✓ (4)
Sunstate	✓ (4)
Sunvale	✓ (4)
Sunvex	
Sunzell	
Ventura	✓ (3)
Wollaroi	✓ (4)
Yallaroi	✓ (4)
Rate (product/ha)	0.5L
Crop stage at spraying	3-5 leaf + 1-2 tiller

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 or their use reported in this brochure does not constitute a recommendation for that particular use by the authors, the DPI&F or GRDC. It must be emphasised that crop tolerance and yield responses to herbicides are strongly influenced by seasonal conditions.