

Cotton Weed Control Guide

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Registration of a herbicide is not a recommendation for the use of a specific herbicide in a particular situation. Growers must satisfy themselves that the herbicide they choose is the best one for the crop and weed. Growers and users must also carefully study the container label before using any herbicide, so that specific instructions relating to the rate, timing, application and safety are noted. This publication is presented as a guide to assist growers in planning their herbicide programs.

IMPORTANT— avoid spray drift

Take every precaution to minimise the risk of causing or suffering spray drift damage by:

- Planning your crop layout to avoid sensitive areas, including homes, school bus stops, waterways, grazing land and non-target crops.
- Ensuring that all spray contractors have details of any sensitive areas near spray targets.
- Consulting with neighbours to minimise risks from spraying near property boundaries. Keep neighbours informed of your spraying intentions near property boundaries. Make it clear that you expect the same courtesy from them.
- Carefully following all label directions.

- Paying particular attention to wind speed and direction, air temperature and time of day before applying pesticides using buffer zones as a mechanism to reduce the impact of spray drift or overspray.
- Keeping records of chemical use and weather conditions at the time of spraying.

Spray Log Books

To assist in record keeping for pesticide applications, Spray Log Books can be purchased from:

- **Qld DAFF, cost \$7.50 plus postage and handling. Contact Qld DAFF in Toowoomba – 07 4688 1200 or; in Dalby – 07 4669 0800 to place an order.**
- **NSW DPI, cost \$12.00 plus postage and handling. Contact NSW DPI, Yanco – 1800 138 351.**

ABBREVIATIONS USED IN TABLES 27–34

AC = Aqueous concentrate
DF = Dry flowable granule
EC = Emulsifiable concentrate
L = Liquid
SC = Suspension concentrate

MSolC = Soluble concentrate
SP = Soluble powder
WDG = Water dispersible granule
WP = Wettable powder

TABLE 27: Control of weeds in dry channels

Active ingredient	Mode of Action group	Concentration and formulation	Application rate of product	Comments
Amitrole + ammonium thiocyanate	F	250 g/L + 220 g/L SC	0.28–4.5/100 L water	Controls a wide range of plants from seedling grasses, at low water rates, to perennial grasses, at high rates. Controls some young broadleaf weeds.
Glyphosate	M	Various	Various	Rates vary with formulations and species present. For dry channel - choose product with a specific irrigation channel registration. Do not allow water to return to channels for 4 days. For aquatic areas- select product with a specific aquatic weed control registration. See label for details for application around aquatic areas.
Imazapyr + glyphosate	B + M	150 g/L + 150 g/L LQ SC	5.0 L/ha	Drain channel prior to treatment. Only apply to irrigation delivery and recirculation channel which are lockable or which may be flushed to a recirculation dam or settling pond. For best results apply in early autumn with minimal weed growth. Allow six weeks before channel is re-used. Refer to label for directions on flushing.
Pendimethalin	D	330 g/L EC 440 g/L AC	4.5–9.0 L/ha 3.4–6.75 L/ha	Drain channel prior to treatment. If 25–50 mm rain has not fallen within 14 days flush and stand for 1 day, and use to pre-irrigate for cotton. Do not use water in channel to irrigate or pre-irrigate susceptible crops.

TABLE 28: Control of weeds around aquatic areas

Active ingredient	Mode of Action group	Concentration and formulation	Application rate of product	Comments
Glyphosate	M	Various	Various	Rates vary with formulation and species present. Choose a glyphosate product that has a specific aquatic weed control registration. See label for details for application around aquatic areas.

TABLE 29: Weed control before planting

Active ingredient	Mode of Action group	Concentration and formulation	Application rate of product	Comments
2,4-D as the isopropylamine salt	II	225 g/L AC 300 g/L AC	0.8–3.6 L/ha 0.66–2.7 L/ha	Refer to label for restrictions to prevent drift, adjuvant recommendation and plantback to cotton.
Amitrole + paraquat	L + Q	250 g/L + 125 g/L	2–4 L/ha	Can be part of double knockdown. Sowing can occur immediately after application
Bromoxynil	C	200 g/L EC	1.4–2.1 L/ha	Controls peachvine, climbing buckwheat and cotton volunteers. Spray volumes above 50 L/ha are recommended. Complete coverage is essential.
Carfentrazone-ethyl	G	240 g/L EC	0.025–0.075 L/ha Up to 0.1 L/ha for control of volunteers.	Apply as a tankmix with glyphosate or products containing paraquat. Do not sow for 1 hr.
Carfentrazone-ethyl + Glyphosate	G + M	7.2 g/L + 432 g/L	Up to 2.5 L/ha Varies with target and tillage	NSW ONL Refer to label.
	M	Various	Various	Controls most annual grasses and broadleaf weeds. Refer to label for rates on specified weeds and recommendations.
Dicamba	I	500 g/L AC 700 g/kg WG	0.16–0.56 L/ha 0.115–0.4 kg/ha	NSW-Up to 14 days plant back period; QLD Higher rates have 21 days plant back.
Fluometuron	C	500 g/kg WG, AC, SC 900 g/kg GR, WG	2.8 – 5.6L/ha 1.5–3.1 kg/ha	Controls many broadleaf weeds. Apply just prior to incorporation. High rate for heavier soils. Will require further band application on top of hill immediately after planting. See label.
Fluometuron + prometryn	C	250 g/L + 250 g/L AC, SC 440 g/kg + 440 g/kg DF, WG	2.5–5.0 L/ha 1.4–2.9 kg/ha	Controls many annual grasses and broadleaf weeds. Incorporate to 5 cm. Will require further band application on top of hill immediately after planting.
Flumioxazin	G	500 g/kg WG	30 g/ha + tank mix partner 45 g/ha	Addition to knockdown herbicides will increase the speed of activity and may improve final control. For control of volunteer cotton (incl. RR varieties). Always apply with a recommended adjuvant.
Fluroxypyr	I	200 g/L EC 400 g/L EC	0.75–1.5 L/ha 0.375– 0.75 L/ha	certain broadleaf weeds. See label for details of mixtures with glyphosate and plant back restrictions.
Glyphosate	M	Various	Various	Controls most annual grasses and broadleaf weeds. Refer to label for rates on specified weeds and recommendations.
		690 g/kg WG	0.265–1.5 kg/ha	In fallows and prior to sowing Roundup Ready Flexcotton only
Glufosinate-ammonium	N	200 g/L SL in 100L water	3.75 L/ha	Maintenance of summer fallow prior to planting. Do not sow crops until 14 days or more have elapsed after the final application.
Metolachlor	K	720 g/L EC 960 g/L EC	2.0 L/ha 1.5 L/ha	Controls certain annual grasses and Wandering Jew. Rain or irrigation needed within 10 days of application or incorporate mechanically.
Norflurazon	F	800 g/kg GR	2.3–4.2 kg/ha	Controls many annual grasses and broadleaf weeds including nutgrass. Refer to label for plant back period.
Oxyfluorfen	G	240 g/L EC	0.075 L/ha	Use with glyphosate at recommended rates.
Paraquat	L	250 g/L SL	1.2–2.4 L/ha	Refer label for rate for annual grass and broadleaf seedlings stage.
Paraquat + diquat	L	135 g/L + 115 g/L SL	0.8–2.4 L/ha	Refer label for rate for annual grass and broadleaf seedlings stage
Pendimethalin	D	330 g/L EC 435 g/L EC 440 g/L EC 455 g/L AC 475 g/L EC	3.0 L/ha 2.28 L/ha 2.25 L/ha 2.2 L/ha 3.11 L/ha	Controls annual grasses and some broadleaf weed seedlings. Incorporate within 24 hours. Check label for details.
Prometryn	C	500 g/L AC, SC 900 g/kg DF, WG	2.2–4.5 L/ha 1.2–2.5 kg/ha	Apply as pre-emergent treatment onto bare, moist soil or as an early post-emergent treatment to weeds after cultivation. Use low rate for short-term weed control.
s-Metolachlor	K	960 g/L EC	1.0 L/ha	Rain/irrigation needed within 10 days of application or incorporate mechanically. Controls most annual grasses.
Triclopyr	I	600 g/L EC	0.08–0.16 L/ha	Melon weed control. 14 days plant back for cotton.
Trifluralin	D	480 g/L EC 500 g/L EC 600 g/L EC	1.2–2.3 L/ha 1.1–2.25 L/ha 0.96–1.35 L/ha	Rate is soil type dependent. Incorporate within 4 hours. Controls seedling and annual grasses and some broadleaf weeds. See label for additional options for winter fallow control.

TABLE 30: Weed control at or after planting and before crop emergence

Active ingredient	Mode of action group	Concentration and formulation	Application rate of product	Comments
Chlorthal dimethyl	D	750 g/kg WG 900 g/kg WG	6.0–15.0 kg/ha 5.0–12.0 kg/ha	Apply at time of planting. Use higher rate for areas under irrigation.
Diuron	C	500 g/L SL 900 g/kg GR, WG	1.8–3.5 L/ha 1.0–2.0 kg/ha	DO NOT apply more than 1.8 kg of active ha per year. See page 156 for further restrictions. Avoid light soils. Spray immediately after planting.
Fluometuron	C	500 g/L AC, SL 900 g/kg DF, WG	4.5–7.2 L/ha 2.4–4.0 kg/ha	Controls many broadleaf weeds and annual grasses. Minimum band width 40 cm. Apply to moist soil or significant rain or irrigation required within 3–5 days of application. Severe plant injury may result if heavy rain occurs between sowing and emergence. High rates apply to heavier soils.
Fluometuron + prometryn	C	250 g/L + 250 g/L AC, SL 440 g/kg + 440 g/kg DF, WG	3.0–5.0 L/ha 1.7–2.9 kg/ha	Controls many broadleaf weeds and annual grasses. Apply to moist soil, significant rain or irrigation required within 3–5 days of application. Severe plant injury may result if heavy rain occurs between sowing and emergence. Do not use on light sandy soils or soils with low organic content. Check label for details.
Metolachlor	K	720 g/L EC 960g/L EC	2.0 L/ha 1.5L/ha	Controls certain annual grasses and Wandering Jew. Rain or irrigation needed within 10 days of application or incorporate mechanically
Paraquat	L	250 g/L SL	1.2–2.4 L/ha	Refer label for rate for annual grass and broadleaf seedlings stage
Paraquat + diquat	L	135 g/L + 115 g/L SL	0.8–2.4 L/ha	Refer label for rate for annual grass and broadleaf seedlings stage
Pendimethalin	D	330 g/L EC 440 g/L EC 455 g/L AC	4.5 L/ha 3.4 L/ha 3.3 L/ha	Controls annual grasses and certain broadleaf weeds. Use when incorporation prior to sowing is impractical and where the seedbed tilth is fine and free of large stones and trash. Apply within 48 hours after sowing.
Prometryn	C	500 g/L AC, SL 900 g/kg DF, WG	3.3–4.5 L/ha 1.8–2.5 kg/ha	Controls many broadleaf weeds and thins annual grasses. Apply onto bare moist soil or irrigate within three days after application.
s-Metolachlor	K	960 g/L EC	1.0 L/ha	Controls most annual grasses. Rain or irrigation needed within 10 days of application or incorporate mechanically.

TABLE 31: Weed control pre harvest

Active ingredient	Mode of Action group	Concentration and formulation	Application rate of product	Comments
Glyphosate	M	Various	Various	Controls Bathurst burr, Noogoora burr, winter annual weeds. Use higher rates for Nutgrass control. May be applied alone or with harvest aid. Apply when 60% bolls are open.
		690 g/kg WG	0.710–1.5kg/ha	Registered for use in Roundup Ready Flex cotton. Apply when 60% bolls are open. Check label for details.

TABLE 32: Weed control after crop emergence (includes layby)

Active ingredient	Mode of Action group	Concentration and formulation	Application rate of product	Comments
Butoxydim	A	250 g/kg WG	0.12 kg/ha or 0.18 kg/ha	Low rate for grass seedlings pre-tillering and high rate for 2–3 tillers. Always add the recommended spray adjuvant.
Chlorthal dimethyl	D	750 g/kg WG 900 g/kg WG	(6.0–11.0 kg/ha)	Layby only. Do not apply after bolls open.
Clethodim	A	240 g/L EC	0.25–0.375 L/ha	Apply at 2–5 leaf stage. Read label for details.
Diuron	C	500 g/L SL 900 g/kg DF, WG	2.0–3.5 L/ha 1.0–2.0 kg/ha	DO NOT apply more than 1.8 kg of active ha per year. See page 156 for further restrictions. Cotton should be at least 30cm high. Use directed spray. Avoid spray drift. Do not apply more than once per season.
Fluazifop-p	A	212 g/L EC	0.75–1.0 L/ha	High rate for actively growing weeds, 5 leaf – early tillering.
Fluometuron	C	500 g/L AC, SL 900 g/kg DF, WG	2.8–5.6 L/ha 1.5–3.0 kg/ha	Controls many broadleaf weeds and annual grasses. Crop should be more than 15 cm high. Weeds should be less than 5 cm high for early directed spraying and less than 8 cm high for lay-by treatments. Use with recommended surfactant.
Fluometuron + prometryn	C	250 g/L + 250 g/L AC, SL 440 g/kg + 440 g/kg DF, WG	1.5–2.5 L/ha (2.0–3.5 L/ha) 0.855–1.4 kg/ha (1.1–1.9 kg/ha)	QLD registration only for low rate, early spray. Rates in brackets for lay-by spraying. Controls many broadleaf weeds and annual grasses. Crop should be 30–50 cm high, weeds not more than 8 cm. Use as a directed spray with recommended surfactant.
Flumioxazin	G	500 g/kg WG	60 or 90 g/ha	Apply as a shielded spray. Do not contact cotton foliage.
Glufosinate-ammonium	N	200 g/L SL	3.75 L/ha in 100 L water	Only apply to Liberty Link cotton varieties. Maximum 2.25kg a.i./ha/season (3 applications). As a contact herbicide coverage is critical to effectiveness.
Glyphosate	M	Various	Various	Apply with shielded sprayer. Do not apply in cotton less than 20 cm high. Rates vary with formulations and species present.
Glyphosate	M	690 g/kg WG	0.52–1.5 kg/ha	Only apply over-the-top to Roundup Ready Flex cotton varieties up to 22 node stage of growth. No more than 4 applications in total are permitted. DO NOT TANK MIX FOR OVER-THE-TOP APPLICATION
Halosulfuron-methyl	B	750 g/kg GR 750 g/kg WG	65–130 g/ha	Shielded sprayer application in irrigated cotton only. Apply in-crops at least 20 cm high but before first flower. Contact with cotton may cause severe injury. See label for details.
Haloxyfop-r	A	130 g/L EC 520 g/L EC	0.4–0.6 L/ha 0.1–0.15 L/ha	Actively growing seedling grasses from 2 leaf to tillering up to 15 cm. Always use the recommended spray oil. Apply from 2 leaf to before onset of flowering.
MSMA	Z	720 g/L LQ, SL 800 g/L LQ, SL	3.1 L/ha 2.8 L/ha	Controls Nutgrass, Xanthium burrs and Johnson grass. Apply as a band or as a directed spray after cotton is 7 cm high but before first flower opens.
Paraquat	L	250 g/L AC, SL	1.2–2.4 L/ha	Inter-row weed control, shielded spray. Use low rates for seedling weeds. Use high rates for mature stages.
Prometryn	C	500 g/L AC, SL 900 g/kg GR, WG	1.1–2.2 L/ha (2.2–4.4 L/ha) 0.61–1.2 kg/ha (1.2–2.5 kg/ha)	Controls many broadleaf weeds and thins annual grasses. Rates in brackets are for lay-by spraying. Weeds should be less than 8 cm high. Use as a directed spray with recommended surfactant.
Propaquizafop	A	100 g/L EC	0.2–0.9 L/ha	Apply when weeds are actively growing. Always apply with an adjuvant. Refer to label for further details.
Trifloxysulfuron sodium	B	750 g/kg WG	0.015 kg/ha or 0.03 kg/ha	Controls certain broadleaf weeds and suppresses Nutgrass. Use the low rate for over-the-top application from 2–8 leaf stage or as a directed spray until row closure. Apply the high rate as a directed application only.

TABLE 33: Herbicide trade names and marketers – Registered chemicals as at June 30, 2013

Active ingredient	Mode of Action group	Concentration and formulation	Trade name	Marketed by
2,4-D present as the isopropylamine salt	I	300 g/L AV	2,4-D 300 IPA	Sabakem, Agro-Alliance, Ezycrop, Agspray Chemical Co, Crop Smart, New Australia Agricultural Development Company, Farmalinx, Ospray, Agrimart Industries, Agcare, Landmark Operations, Ravensdown, Accensi, Novaguard, Spalding Holdings, Easyfarm, Ozcrop, Shandong Rainbow International Co, Profeng Australia, Pacific Agriscience, Halley International Enterprise, FMC
			Amine 300	Titan Ag, Ruralchem, Goobang, Hextar Chemicals, Conquest
			Aminex 300	Australis Crop Protection
			Aminoz Ct 300	Sanonda
			Applause 300	Agri West
			Basilica 300	Chemtura
			Cobber	Crop Care
			Glymate 300	Macsprod
			Inca 300 Herbicide	Proterra
			Ken-Star	Kenso
			Smash 300	Imtrade
			Surpass 300	Nufarm
			Weeds Out 300	Biotis Life Science
			Zulu 300	Farmoz
			2,4-D present as dimethylamine and monomethylamine salts	I
2,4-D 400 IPA	FMC			
2,4-D 450 IPA	Apparent, Farmalinx, Shandong Rainbow, Ozcrop			
2,4-D present as dimethylamine and monomethylamine salts	I	450 g/L	Kenstar 450	Kenso
			Pass 450	Crop Smart
			Amicide Advance 700	Nufarm
Amitrole + ammonium thiocyanate	Q	250 g/L + 220 g/L SL	Amitrole 250	Imtrade
			Amitrole T	Nufarm
			Amitat	Farmalinx
			Aggrav8	Agri West
			Weedeath	Cyndan
Amitrole + paraquat	Q + L	250 g/L + 125 g/L	Alliance	Crop Care
Bromoxynil	C	200 g/L EC	Bromicide 200	Nufarm
			Bromo 200	Agri West, Conquest
			Bromox 200	Imtrade
			Bromoxy 200	Farmalinx
			Bromoxynil 200	Imtrade
				FMC, Ozcrop, Ezycrop, Novaguard, Shandong Rainbow, Apparent., Kenso, Sanonda, Accensi, Landmark Operations, Titan Ag Pty Ltd, 4 Farmers Pty Ltd
			Bronco	Farmoz
			Bronx 200	Hextar
Butroxydim	A	250 g/kg WG	Factor WG	Crop Care
Carfentrazone-ethyl	G	240 g/L EC	Hammer	FMC
			Punch	Osspray
			Nail	Crop Care
		400 g/L Ec	Hammer 400	Crop Care
Carfentrazone-ethyl + Glyphosate	G + M	7.2 g/L + 432 g/L	Broadway	FMC
Chlorthal dimethyl	D	750 g/kg WG	Clorthal dimethyl 750WG	Macphersons, Novaguard, FMC, Ezycrop
			Prethal 750 WG	KD Plant Care
			Dacthal 900 WG	Crop Care
			Chlor-Dime	Mission
			900 g/kg WG	Pterodactyl

TABLE 33: Herbicide trade names and marketers – Registered chemicals as at June 30, 2013 (continued)

Active ingredient	Mode of Action group	Concentration and formulation	Trade name	Marketed by
Clethodim	A	240 g/L EC	Akodim	Aako
			Blade 240EC	Ravensdown
			Carbine 240	Axichem
			Cleodim 240	Grow Choice
			Clethim 240 EC	Farmalinx
			Cletho 240	Ozcrop
			Cletho 240 EC	Kenso
			Clethodim 240 EC	4 Farmers, Agcare, Agricultural Product Services, Agrimart Industries, Agro-Alliance, Apparent, Australian Progressive Supplies, Australis Crop Protection, Biotis Life Science, Chemforce 2010, Crop Smart, Easyfarm, Echem, Ezycrop, Fmc, Goobang, Imtrade, Landmark Operations , Macspred , Mission Bell Holdings, Nisso Basf Agro Co , Novaguard, Ospray, Pacific Agriscience, Profeng Australia, Sabakem, Sanonda, Shandong Rainbow , Spalding, Titan Ag, Wellfarm
			Cluster 240 EC	Hextar Chemicals
			Coerce 240EC	Agri West
			Eco Cletho 240 EC	Sanplus
			Genie	Chemtura
			Grasidim	Sipcam
			Havoc	Crop Care
			Nissodim 240 EC	Nisso Basf Agro Co
			Nitro 240	Conquest Crop Protection
			Platinum	Farmoz
			Scalpel 240 EC	Sinochem Agro
			Select	Arysta
			Sequence	Nufarm Australia
Status	Sumitomo Chemical Australia			
Uproot 240 EC	United Phosphorus .			
Dicamba	C	500 g/L AV	Camquesta 500	Conquest
			Cutlass 500	Farmoz
			Dicam 500	Farmalinx
			Dicamba 500	Ozcrop, Apparent, Chemtura, Grow Choic, Accensi, FMC, Landmark Operations, Imtrade, Kenso, Ospray, Ozcrop, Shandong Rainbow, Ravensdown, Australis Crop Protection
			Dicer 500	Hextar
			Ditch 500 Herbicide	Agri West
			Kamba 500	Nufarm
			Titan Dicamba 500 Herbicide	Titan Ag
		700 g/kg SG	Cadence	Syngenta
			Cambagran	Agritech Bioscience
			Dicamba 700	Ospray, Rallis, Titan Ag
			Kamba Dry	Nufarm
		700 g/kg WG	Volley	Sipcam
			Dicam 700	Farmalinx
			Dicamba 700wg	Kenso, Shandong Rainbow, Titan Ag
Diuron	C	500 g/L SL	various for multiple products	various for multiple products
		900 g/kg WG DF	various for multiple products	various for multiple products
Fluazifop-p	A	128 g/L EC	Fusilade Forte	Syngenta
		212 g/L EC	AC Flare	Axichem
		212 g/L EC	Flazz	Agriwest
		212 g/L EC	Fluazifop-p 212	4Farmers, Apparent, Ezycrop, Novaguard,
		212 g/L EC	Fuzilier	Ospray
		212 g/L EC	Resilience	Farmoz
		212 g/L EC	Rootout 212	Sinon
		212 g/L EC	Rootout 212	Sinon

TABLE 33: Herbicide trade names and marketers – Registered chemicals as at June 30, 2013 (continued)

Active ingredient	Mode of Action group	Concentration and formulation	Trade name	Marketed by			
Fluometuron	C	500 g/kg WG, AC, SC	Cotoran Wg, Sc	Farmoz			
			Reliance Liquid	Crop Care			
			Fluocam 500	Sipcam			
Fluometuron + prometryn	C	250 g/L + 250 g/L AV	Fluometuron 500 Sc	Ozcrop			
			900 g/kg DF	Nu-Tron 900df	Nufarm		
			900 g/kg WG	Fluometuron 900 Wg	Farmoz, 4Farmers, Ozcrop, Shandong Rainbow, Sabakem, Titan Ag		
Fluometuron + prometryn	C	250 g/L + 250 g/L SL	Bandit Liquid	Crop Care			
			Flupromix 500	Sipcam			
			Cotogard SC	Farmoz			
			440 g/L + 440 g/L DF	Convoy DF	Nufarm		
			440 g/L + 440 g/L WG	Cotogard WG	Farmoz		
Flumioxazin	G	500 g/kg WG	Flupromix	Sipcam			
			Pledge	Sumitomo Chemical Australia			
Fluroxypyr	I	200 g/L EC	Acclaim	Sipcam			
			Comet 200	Nufarm			
			Dozer	Axichem			
			Flagship 200	Farmoz			
			Flotilla	Ospray			
			Floxor 200 EC	Farmalinx			
			Fluroken 200	Kenso			
			Fluroxypyr 200EC	4Farmers, Accensi, Agrimart Industries, Apparent, Australis Crop Protection, Chemtura, Crop Smart, Ezycrop, FMC, Landmark Operations, Novaguard, Ospray, Ozcrop, Pacific Agriscience, Profeng Australia, Sabakem, Shandong Rainbow, Titan Ag, Value Chem			
			Neon 200	Conquest			
			Prostar	Proterra			
			Restrain 200	Grow Choice			
			Rockstar 200	Imtrade			
			Rox.Star 200	Kd Plant Care			
			Starane 200	Dow Agrosiences			
			Staroxy 200	Echem			
			Trample 200	Agri West			
			Uni-Rane	United Phosphorus			
Glufosinate–ammonium	N	200 g/L SL	Fluroken 333	Kenso			
			Starane Advanced	Dow Agrosiences			
			Staroxy 200	Echem			
Glufosinate–ammonium	N	200 g/L SL	Comet 400	Nufarm			
			Decoy 400	Crop Care			
			Fluroxypyr 400	Accensi, Australis Crop Protection, Titan Ag			
			Neon 400	Conquest			
			Liberty 200	Bayer CropScience			
			Basta 200	Bayer CropScience			
			Glyphosate	M	360 g/L AC, EC, LQ, SL, 450 g/L AC, L, 470 g/L AV, SL, 480 g/L AV, 490 g/L AV, 500 g/L AV, EC, SL, 510 g/L AV, 540 g/kg AV, 570 g/ka AV, SL, 680 g/L WG, 690 g/kg WG, 700 g/L WG, 875g/L WG, 840g/L WG, 900g/L WG	various for multiple products	various for multiple products
Halosulfuron–methyl	B	750 g/kg DF, WG				Halo 750 Wg	Imtrade
						Halosulfuron 750 Wg	Enviromax Technologies, Ozcrop, Apparent, Shandong Rainbow
						Kenpra 750 Wg	Kenso
						Nut-Buster	Ospray
						Nutless	Axichem
						Sedgehammer	Amgrow

TABLE 33: Herbicide trade names and marketers – Registered chemicals as at June 30, 2013 (continued)

Active ingredient	Mode of Action group	Concentration and formulation	Trade name	Marketed by			
Halosulfuron-methyl	B	750 g/kg DF, WG	Sempra	Nufarm			
			Tuffnut	Freezone			
			Sedgehammer	Amgrow			
			Yowler	Agriwest			
Haloxypop-p	A	130 g/L	Judgement 130	Imtrade			
			520 g/L EC	Halfback 520	Axichem		
		520 g/L EC	Haloxypop 520EC	Agricultural Product Services, Apparent, Crop Smart, Easyfarm, Grow Choice, Landmark, Macspred, Mission Bell, Opal, Ruralchem, Sabakem			
			Harpoon 520	Agri West			
			Hermes 520	Titan Ag			
			Inquest	Sipcam			
Haloxypop-r	A	130 g/L	Gallant West	Dow Agrosiences			
			520 g/L E	Convict	Ospray		
		520 g/L E	Asset	Nufarm			
			Convict	Ospray			
			Decree 520 EC	Sinochem			
			Exert 520	Crop Care			
			Firepower	Farmoz			
			Halomac 520	Macspred			
			Halox 520	Echem			
			Haloxypop 520 EC	4 Farmers, Accensi, Agro-Alliance, Australis Crop Protection, Chemforce 2010, Chemtura, Ezcrop, Farmalinx, FMC, Novaguard, Ozcrop, Profeng, Shandong Rainbow			
			Haloxyken 520	Kenso			
			Recon 520	Conquest Crop Protection			
			Trekker 520 EC	Spalding			
			Verdict 520	Dow Agrosiences			
Weloxy 520 EC	Hextar						
Imazapyr + glyphosate	B + M	150 g/L + 150 g/L AV	Arsenal Xpress	Nufarm			
Metolachlor	K	720 g/L EC	Bouncer	Australia Limited			
			Clincher	Farmoz			
			Metal 720	Imtrade			
			Metoken 720	Kenso			
			Metolachlor 720 Ec	4Farmers, Accensi, Agro-Alliance, Chemforce, Chemtura, Conquest, Crop Smart, Ezcrop, FMC, Grow Choice, Halley, Landmark Operations, Novaguard, Ozcrop, Profeng, Ravensdown, Sabakem, Shandong Rainbow			
			Scrimmage 720	Agri West			
			Strada	Sipcam			
Metolachlor	K	960 g/L EC	Chaser	Ospray			
			Clincher Plus	Farmoz			
			Metal Plus 960	Imtrade			
			Metolachlor 960	Accensi, Apparent, Australis Crop Protection, FMC, Landmark Operations, Mission Bell Holdings, Proterra, Titan Ag			
			Metolamax 960	Conquest			
			Metor 960	Farmalinx			
			Smasha 960	Agri trading			
			Strada Xtreme	Sipcam			
			MSMA	Z	720 g/L LQ	Arena	Agricorp
						720 g/L SL	Monopoly
720 g/L SL	MSMA 720	Agspray, Ancom					
	Armada 720 SL	Hextar					
	Vesta	Campbell					
	800 g/L LQ	Daconate			CropCare		
	MSMA	Megalith			Agriwest		
MSMA	Imtrade						

TABLE 33: Herbicide trade names and marketers – Registered chemicals as at June 30, 2013 (continued)

Active ingredient	Mode of Action group	Concentration and formulation	Trade name	Marketed by
Norflurazon	F	800 g/kg DF	Zoliar 800DF	Agnova Technologies
Oxyfluorfen	G	240 g/L EC	Cavalier	Farmoz
			Conversion 240	Australis Crop Protection
			Convert 240 Ec	Ospra
			Encore	Conquest
			Goaltender	Dow Agrosiences
			Gowel 240 Ec	Sinon
			Offend 240	Grow Choice
			Olright 240ec	Agri West
			Ox 240	Kenso Corporation (M) Sdn. Bhd.
			Oxen	Imtrade
			Oxxel 240 Ec	Axichem
			Oxydox 240 Ec	Hextar Chemicals
			Oxyfan 240 Ec	Farmalinx
			Oxyfluorfen 240 Ec	4Farmers, Accensi, Agrismart, Agro-Alliance, Apparent, Landmark Operations , Opal Australasia, Ozcrop, Profeng , Ravensdown, Ruralchem, Titan Ag
			Point	Kendon
			Striker	Nufarm
Paraquat	L	480 g/L EC	Goaltender	Dow Agrosiences
		250 g/L SL	Agroquat 250	Agrogill
			Explode 250	Conquest
			Gramoxone 250	Syngenta
			Inferno	Sipcam
			Nuquat 250	Nufarm
			Para-Ken 250	Kenso
			Paraquat 250 SI	Multiple
			Piston 250	Axichem
			Putout 250	Agri West
			Quash 250	Hextar
			Shirquat 250	Crop Care
			Sinmosa 250	Sinon
			Sprayquat 250	Kendon
			Spraytop 250 SI	Farmoz
			Uniquat 250	United Phosphorus
Paraquat + diquat	L	334 g/L SL	Para-ken 334	Kenso
		135 g/L + 115 g/L AV	Alarm	Sipcam
			Blowout	Ozcrop
			Brown Out	4 Farmers
			Burner	Agrogill
			Combik 250	Sinon
			Dibromquat 250	Hextar
			Di-Par 250	Landmark Operations
			Dismantle	Agri West
			Kwicknock 250	Grow Choice
			Paradat	Farmalinx
			Paradym 250	Ronic International
			Paraquat & Diquat 250 SI	Accensi , Agcare , Agro-Alliance , Apparent , Australia Generic Crop Protection , Easyfarm , Ezycrop , FMC , Forward , Fosterra , Mission Bell Holdings , NAADC , Novaguard , Pacific Agriscience , Sanonda , Shandong Rainbow Halley
			Premier 250	Halley
			Ravensdown Wildfire 250	Ravensdown
			Revolver	Nufarm
Scorcher 250	Conquest Crop Protection			
Smart Combination 250	Crop Smart			
Spalding Exocet 250	Spalding Holdings.			

TABLE 33: Herbicide trade names and marketers – Registered chemicals as at June 30, 2013 (continued)

Active ingredient	Mode of Action group	Concentration and formulation	Trade name	Marketed by
Paraquat + diquat	L	135 g/L + 115 g/L AV	Speedy 250	Kenso
			Spray & Sow	Farmoz
			Spray,Seed 250	Syngenta Australia
			Spraykill 250	Imtrade
			Spray-Out 250	Ospray
			Spray-Plant 250	Sipcam Pacific Australia
			Titan Eos	Titan Ag
			Tombstone	Goobang
Pendimethalin	D	330 g/L EC	Uni-Spray 250	United Phosphorus
			Charger 330 EC	Conquest
			Charger 330 EC	Conquest
			Cyclone 330 EC	Imtrade
			Fist 330	United Phosphorus
			Ipimethalin 330	Finchimica
			Pendant	Amgrow
			Pendi 330	Kenso
		435 g/L EC	Pendimethalin 330EC	4Farmers, Halley, Rallis, Ravensdown, Sabakem, Shandong Rainbow, Titan Ag
			Rifle 330	Nufarm
			Stomp 330e	Basf
			Panda 435	Farmalinx
		440 g/L EC	Panida Grande	Sipcam
			Pendimethalin 330EC	FMC
			Pendimethex	Farmoz
			Argo 440EC	Colin Campbell
			Cyclone 440EC	Imtrade
			Rifle 440	Nufarm
455 g/L AV	Romper 440EC	Crop Care		
	Stomp 440	BASF		
475 g/L	Stomp*Xtra	BASF		
	Panida Max	Rallis		
Prometryn	C	500 g/L SC	Gesagard 500 SC	Syngenta
			Gesagard 500 SC	Syngenta
			Promesip 500	Sipcam
			Prometrex 500	Farmoz
			Prometryn 500	Accensi, Ospray, Ozcrop
			Proton	Crop Care
		900 g/kg DF	Prometryn 900 DF	Nufarm
		900 g/kg WG	Gesagard 900 WG	Syngenta
			Prometrex 900 WG	Farmoz
			Prometryn 900	Ozcrop
Shogun	Farmoz			
Saflufenacil	G	700 g/kg WG	Sharpen	Nufarm
s-Metolachlor	K	960 g/L EC	Dual Gold	Syngenta
			Dualis 960	United Phosphorus
			Metoken Gold	Kenso
			s-Metolachlor	Genfarm
Triclopyr	I	600 g/L EC	Axeman 600	Apparent
			Biosorb 600	Biotis Life Science
			Garlon 600 Herbicide	Dow Agrosciences
			Gerlan 600 Ec	Sinon
			Grando 600	Crop Care
			Hurricane 600	Imtrade
			Invader 600	Nufarm
			Maca 600	Conquest
			Ranger 600	Hextar
			Redeem 600	Sipcam
			Safari 600ec	Farmoz
			Tricky 600	Axichem

TABLE 33: Herbicide trade names and marketers – Registered chemicals as at June 30, 2013 (continued)

Active ingredient	Mode of Action group	Concentration and formulation	Trade name	Marketed by	
Triclopyr	I	600 g/L EC	Triclon 600	Grow Choice	
			Triclops	Crop Culture	
			Triclopyr 600 EC	4 Farmers, Accensi, Agri West, Agrimart, Agro-Alliance, Aimco, Apparent, Ausagri, Australian Progressive Supplies, Australis Crop Protection, Chemforce, Crop Smart, Ezycrop Pty Ltd, Farmalinx, FMC, Halley, Kenso, Landmark Operations, Macspred, Mission Bell Holdings, Novaguard, Opal, Ospray, Ozcrop, Pacific Agriscience, Profeng, Ravensdown, Western Stock Distributors, Ruralchem, Sabakem, Sabero, Shandong Rainbow, Spalding, Titan Ag	
			Tripyr	Farmalinx	
			Uni-Lon 600	United Phosphorus	
			Weedpro Tryclops	PCT Holdings	
			755 g/L EC	Garlon Fallow master	Dow AgroSciences
Trifloxysulfuron sodiumta	B	750 g/kg WG	Envoke	Syngen	
Trifluralin	D	480 g/L EC	Agriralin 480	Agri Environmental	
			Clearoff	Axichem	
			Contender 480	Hextar	
			Mr T 480	Agritrading	
			Snare	Corporate Cropping	
			Tango 480	Landmark Operations	
			Treflan	Dow Agrosciences	
			Tricon Flexi	Conquest	
			Triflen 480	Sinon	
			Triflur X 480	Nufarm	
Trifluralin	D	480 g/L EC	Triflur Boost	Extol	
			Trifluralin 480 EC		
			Multiple		
			Trifluralinx 480	Farmalinx	
			Triflurasip	Sipcam Pacific Australia	
			Triflurex	Farmoz, Nufarm	
			Trigen 480	Landmark Operations	
			Trilogy	Farmoz	
			Unitry	United Phosphorus .	
			500 g/L EC	Trilogy Xtra	Farmoz
			530	Trifluralin 530 Ec	Accensi
			600 g/L EC	Tricon Maxi 600	Conquest Crop Protection
				Trifluralin 600 Ec	4Farmers , Landmark Op
Trilogy 600	Farmoz				