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:

- DAFF QId, cost \$7.50 plus postage and handling. Contact DAFF QId 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

 $\begin{array}{lll} AC = Aqueous \ concentrate & SL = Soluble \ concentrate \\ DF = Dry \ flowable \ granule & SP = Soluble \ powder \\ EC = Emulsifiable \ concentrate & WDG = Water \ dispersible \ granule \\ L = Liquid & WP = Wettable \ powder \\ \end{array}$

SC = Suspension concentrate

| TABLE 27: Contro | ol 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. |
| lmazapyr + 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 | 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 co | | | | |
|-------------------------------------|-------------------------|--|---|---|
| Active ingredient | Mode of Action group | Concentration and formulation | Application rate of product | Comments |
| 2,4-D as the iso- | | 225 g/L AC | 0.8–3.6 L/ha | Refer to label for restrictions to prevent drift, adjuvant |
| propylamine salt | II | 300 g/L AC | 0.66-2.7 L/ha | 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 |
| Carfentrazone-ethyl | G | 240 g/L EC | 0.025–0.0.75 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 only. Refer to label. |
| Dicamba | 1 | 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. |
| Diuron | С | 900 g/kg WG | 1 – 2kg/ha | Do not use on light sandy soils. Do not make a second pre-emergent application to the same field during the same crop as injury to the crop may occur. |
| Fluometuron | С | 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 | С | 250 g/L + 250 g/L AC, SC | 2.5-5.0 L/ha | Controls many annual grasses and broadleaf weeds. Incorporate to 5 cm. Will require further band |
| , , | | 440 g/kg + 440 g/kg DF, WG | 1.4–2.9 kg/ha | application on top of hill immediately after planting. |
| Flumioxazin | G | 500 g/kg WG | 30 g/ha + tank mix parner 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. |
| Glyphosate Glufosinate- ammonium | M N | 690 g/kg WG | 0.265–1.5 kg/ha | In fallows and prior to sowing Roundup Ready Flexcotton only |
| Glyphosate Glufosinate- | M | 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. |
| ammonium Metolachlor | N 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 | С | 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 | 1 | 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. |

| | | t or after planting and b | | aryenioe ———————————————————————————————————— |
|----------------------------|----------------------|--|----------------------------------|--|
| 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 | С | 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 | С | 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 | С | 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 | К | 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 + 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 | С | 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 | К | 960 g/L EC | 1.0 L/ha | Controls most annual grasses. Rain or irrigation needed within 10 days of application or incorporate mechanically. |



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| TABLE 31 | 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 orwith 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: We | eed control at | iter crop emergenc | e (includes layby | |
|--------------------------|-------------------------|--|--|--|
| Active ingredient | Mode of Action group | Concentration and formulation | Application rate of product | Comments |
| Butroxydim | 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 | Α | 240 g/L EC | 0.25-0.375 L/ha | Apply at 2-5 leaf stage. Read label for details. |
| Diuron | С | 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 | А | 212 g/L EC | 0.75-1.0 L/ha | High rate for actively growing weeds, 5 leaf – early tillering. |
| Fluometuron | С | 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 | С | 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. |
| | | 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 | В | 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 | С | 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 | Α | 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 | В | 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. |

| Active ingredient | Mode of | Concentration and | Trade name | Marketed By |
|--|--------------|----------------------|---|---|
| | Action group | formulation | | |
| | | | 2,4-D 300 IPA | Sabakem, Agro-Alliance, Ezycrop, Agspray Chemical Co, Crop Smart, New Australia Agricultural Development Company, Farmalinx, Ospray, Agrimart, Agcare,, Ravensdown Accensi, Novaguard, Spalding, Easyfarm, Ozcrop, Rainbow International Co, Profeng, Pacific AgriScience, FMC, Forward |
| | | | Amine 300 | Titan, Ruralchem, Hextar, Conquest, Agrismart, Genfarm |
| | | | Aminex 300 | ACP |
| | | 300 g/L AV | Applause 300 | Agri West |
| | | 300 g/L AV | Basilica 300 | Chemtura |
| 2,4-D present as the | | | Cobber | Crop Care |
| sopropylamine salt | I | | Ken-Star | Kenso |
| | | | Smash 300 | Imtrade |
| | | | Surpass 300 | Nufarm |
| | | | Weeds Out 300 | Biotis Life Science |
| | | | Zulu 300 | ADAMA |
| | | 400 a/l | Abound | Dow AgroSciences |
| | | 400 g/L | 2,4-D 400 IPA | FMC |
| | | | 2,4-D 450 IPA | Apparent, Farmalinx, Rainbow, Ozcrop |
| | | 450 g/L | Kenstar 450 | Kenso |
| | | | Pass 450 | Crop Smart |
| 2,4-D present as dimethylamine and monomethylamine salts | I | 700 g/L | Amicide Advance 700 | Nufarm |
| | 1 | 475g/L | Accensi 2,4-D 475 Dual Selective Herbicide | Accensi |
| | | | Amine 475 | Titan |
| 2,4-D present as | | | Amine Plus 475 | Conquest |
| dimethylamine and | | | Aminex 475 | ACP |
| diethanolamine salts | | | Cobber 475 | Crop Care |
| | | | Exceed | Apparent |
| | | | Surpass 475 | Nufarm |
| Amitrole + ammonium hiocyanate | Q | 250 g/L + 220 g/L SL | Amitrole T | Nufarm |
| Amitrole + paraquat | Q + L | 250 g/L + 125 g/L | Alliance | Crop Care |
| Butroxydim | A | 250 g/kg WG | Factor WG | Crop Care |
| | | | Carfentrazone 240 EC | 4Farmers |
| | | | Hammer | FMC |
| | | 240 g/L EC | Nail | Crop Care |
| Carfentrazone-ethyl | G | · · · · g/ · | Punch | Osspray |
| | | | Spike | Conquest |
| | | | Task | FMC |
| | | 400 g/L Ec | Elevate | ADAMA |
| Carfentrazone-ethyl + | G + M | 7.2 g/L + 432 g/L | Hammer 400 Broadway | Crop Care FMC |
| Glyphosate | | , J | Clorthal dimethyl 750WG | Macphersons, Novaguard, FMC, Ezycrop |
| | | 750 a/ka WC | AC Discord 750 WG | Axichem |
| | | 750 g/kg WG | Dynamo 750 WG | Farmalinx |
| Chlorthal dimethyl | D | | Prethal 750 WG | KD Plant Care |
| | | | Dacthal 900 WG | Crop Care |
| | | 900 g/kg WG | Chlor-Dime | Mission |
| | | 900 g/kg WG | Pterodactyl | Imtrade |
| | | 120 g/L EC | Select 120 | Arvesta |
| | | . 20 g/ L LU | Agro-Essence | Agro-Alliance |
| Clethodim | А | 240 g/L EC | Akodim | Aako |
| | | 240 g/L EU | Arysta Select | Arysta |

| Active ingredient | Mode of Action group | Concentration and formulation | Trade name | Marketed By |
|-------------------|-------------------------|-------------------------------|--|--|
| | | | Blade 240EC | Ravensdown |
| | | | Carbine 240 | Axichem |
| | | | Cleodim 240 | Grow Choice |
| | | | Clethim 240 EC | Farmalinx |
| | | | Cletho 240 EC | Kenso |
| | | | Clethodim 240 EC | 4Farmers, Agcare, Agrimart, Agrismart Agvantage, Apparent, Australian Progressive Supplies, ACP, Biotis Life Science, Chemforce, Crop Pro, Easyfarm, Echem, Ezycrop, FMC, Forward, Generex, Imtrade, Landmark Operations, Mission Bell, Nisso, BASF Agro Co, Novaguard, Ospray, Ozcrop, Pacific AgriScience, Sabakem, Sanonda, Rainbow, Shanghai |
| | | | 01 -1- 040 50 | Agrochina, Spalding, Titan, Wellfarm |
| | | | Cluster 240 EC | Hextar |
| | | | Coerce 240EC | Agri West |
| | | | Eco Cletho 240 EC | Sanplus |
| | | | Genie | Chemtura |
| | | | Grasidim | Sipcam |
| | | | Havoc | Crop Care |
| | | | Macro Protect | Louis Dreyfus Commodities |
| | | | Nissodim 240 EC | BASF |
| | | | Nitro 240 | Conquest |
| | | | Platinum | ADAMA |
| | | | Rygel | Profeng |
| | | | Scalpel 240 EC | Sinochem Agro |
| | | | Select | Sumitomo Chemical |
| | | | Sequence | Nufarm Australia |
| | | | Smart | Crop Smart |
| | | | Status | Sumitomo Chemical |
| | | | Sumistatus 240 EC | Sumitomo Chemical |
| | | | Uproot 240 EC | UPL. |
| | | | Whitestar | Agricultural Product Services |
| | | 200 ~/ 50 | Arysta Select Xtra 360 | Ospray Kanaa Agricultura |
| | | 360 g/L EC | Cletho 360 | Kenso Agriculture |
| | | | Rainbow | Rainbow |
| | | | Camquesta 500 AC | Conquest ADAMA |
| | | 500 g/L AC | Cutlass 500 | |
| | | | Dicam 500 | Farmalinx Accensi, ACP, Cheminova, Chemtura, Dicer, FMC, Grow Choice |
| | | | Dicamba 500 AC | Kenso, Ozcrop, Rainbow, Titan |
| | | | Dicer 500 | Hextar |
| | | | Kamba 500 | Nufarm |
| | | | Dicam 500 | Faramlinx |
| | • | 500 g/L SC | Dicamba 500 SC | 4Farmers, Apparent, Imtrade, Sabakem, Ravensdown |
| icamba | С | - | Diffuse | Axichem |
| | | | Ditch | Agri West |
| | | | Cadence | Syngenta |
| | | | Cambagran | Agritech Bioscience |
| | | | Camquesta 700 | Conquest Titor |
| | | 700 g/kg WDG | Dicamba 700 | Ospray, Rallis, Titan |
| | | | Kamba Dry | Nufarm |
| | | | Volley | Sipcam |
| | | | Dicam 700 | Farmalinx |
| | | 500 g/L SL | Dicamba 700 WDG Various for multiple products | Apparent, FMC, Rallis Various for multiple products |
| | | | PROGUETO | 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 |

| Active ingredient | Mode of Action group | Concentration and formulation | Trade name | Marketed By |
|------------------------|-------------------------|-------------------------------|--------------------------|--|
| | | 128 g/L EC | Fusilade Forte | Syngenta |
| | | | AC Flare | Axichem |
| | | | Flazz | Agriwest |
| | | | Fluazifop-p 212 | 4Farmers, Apparent, Ezycrop, Novaguard, |
| " | ٨ | | Fulisade | Sygenta |
| Fluazifop-p | A | 212 g/L EC | Fuziler | Chemnova Australia |
| | | | Fuziler | Ospray |
| | | | Genfarm Fluazifop | Landmark Operations |
| | | | Resilience | ADAMA |
| | | | Rootout 212 | Sinon |
| | | | Cotoran Wg, Sc | ADAMA |
| | C | 500 " 140 40 00 | Reliance Liquid | Crop Care |
| | | 500 g/kg WG, AC, SC | Fluocam 500 | Sipcam |
| luometuron | С | | Fluometuron 500 Sc | Ozcrop |
| | | 900 g/kg DF | Nu-Tron 900df | Nufarm |
| | | 900 g/kg WG | Fluometuron 900 Wg | ADAMA, 4Farmers, Ozcrop, Rainbow, Sabakem, Titan |
| | | 250 g/L + 250 g/L AV | Bandit Liquid | Crop Care |
| | | 250 g/L + 250 g/L SL | Flupromix 500 | Sipcam |
| - Fluometuron + | | 250 g/L + 250 g/L SL | Cotogard SC | ADAMA |
| rometryn | С | 440 g/L + 440 g/L DF | Convoy DF | Nufarm |
| | | 440 g/L + 440 G/L WG | Cotogard WG | ADAMA |
| | | 450 g/L + 450 g/L WG | Flupromix | Sipcam |
| | | 400 g/L + 400 g/L Wu | Pledge | Sumitomo Chemical |
| Flumioxazin | G | 500 g/kg WG | Terrain | Sumitomo Chemical |
| ΙΠΙΙΟΧάΖΙΙΙ | | | Valor | Sumitomo Chemical |
| | | 140 g/L EC | Hotshot | Dow AgroSciences |
| | | 140 g/L L0 | Acclaim | |
| | | | | Sipcam |
| | | | Comet 200 | Nufarm |
| | | | Dozer 5000 | Axichem |
| | | | Flagship 200 | ADAMA |
| | | | Flotilla | Ospray |
| | | | Floxor 200 EC | Farmalinx |
| | | | Fluroken 200 | Kenso |
| | | 200 g/L EC | Fluroxypyr 200EC | 4Farmers, Accensi, Agrimart, Apparent, ACP, Chemtura, Crop Smart, Ezycrop, FMC, Landmark Operations, Novaguard, Ospray, Ozcrop, Pacific AgriScience, Profeng, Sabakem, Rainbow, Titan, Value Chem |
| | | | Hebroxy 200 | Hextar |
| | | | Neon 200 | Conquest |
| ·luroxypyr | 1 | | Prostar | Proterra |
| | | | Restrain 200 | Grow Choice |
| | | | Rockstar 200 | Imtrade |
| | | | Rox.Star 200 | KD Plant Care |
| | | | Starane 200 | Dow AgroSciences |
| | | | Staroxy 200 | Echem |
| | | | Trample 200 | Agri West |
| | | | Uni-Rane | UPL |
| | | | Fluroken 333 | Kenso |
| | | 333 g/L EC | Starane Advanced | Dow AgroSciences |
| | | | Comet 400 | Nufarm |
| | | | Decoy 400 | Crop Care |
| | | 400 g/L EC | Floxor 400 | Farmalinx |
| | | 100 g/L L0 | Fluroxypyr 400 | Accensi, ACP, Titan |
| | | | | |
| | | 150 a/L 00 | Neon 400 | Conquest Payor CranScience |
| | | 150 g/L SC | Liberty 150 | Bayer CropScience |
| Glufosinate-ammonium | N | 200 g/L CS | Liberty 200 Basta 200 | Bayer CropScience Bayer CropScience |
| aiuiosiiiale–ainmonium | I IV | | | House L'rent'ciones |

| Active ingredient | Mode of Action group | Concentration and formulation | Trade name | Marketed By |
|---------------------------------------|-------------------------|--|-------------------------------|--|
| Glyphosate | М | 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 |
| | | 750 a/ka DE | Sedgehammer | Amgrow |
| | | 750 g/kg DF | Sempra | Nufarm |
| | | | Halo | Imtrade |
| | | | Halosulfuron 750 | Enviromax Technologies, Ozcrop, Apparent, Rainbow |
| Halosulfuron–methyl | В | | Kenpra | Kenso |
| | | 750 g/kg WDG | Nut-Buster | Ospray |
| | | | Nutless | Axichem |
| | | | Tuffnut | Freezone |
| | | | Yowler | Agriwest |
| | | 130 g/L | Judgement 130 | Imtrade |
| | | 520 g/L EC | Halfback 520 | Axichem |
| | A | | Haloxyfop 520EC | Apparent, Crop Smart, Easyfarm, Grow Choice, Imtrade, Landmark, Mission Bell, Opal, Ruralchem, Sabakem, Sanonda Shanghai Agrochina |
| Haloxyfop-p | | | Harpoon 520 | Agri West |
| | | | Hermes 520 | Titan |
| | | | Inquest | Sipcam |
| | | | Generex | Macspred |
| | | | Whitestar | Agricultural Product Services |
| | | | Gallant West | Dow AgroSciences |
| | | | Asset | Nufarm |
| | | | Convict | Cheminova |
| | | | Decree 520 EC | Sinochem |
| | | | Exert 520 | Crop Care |
| | | | Firepower | ADAMA |
| | | | Halomac 520 | Macspred |
| łaloxyfop-r | Α | 130 g/L | Halox 520 | Echem |
| , , , , , , , , , , , , , , , , , , , | | 3 | TIGOX OZO | 4Farmers, Accensi, Agro-Alliance, ACP, Chemforce, Chemtura |
| | | | Haloxyfop 520 EC | Ezycrop, Farmalinx, Kenso, Novaguard, Ozcrop, Profeng, Rainbow |
| | | | Recon 520 | Conquest |
| | | | Trekker 520 EC | Spalding |
| | | | Verdict 520 | Dow AgroSciences |
| | | | Weloxy 520 EC | Hextar |
| mazapyr + glyphosate | B + M | 150 g/L + 150 g/L AV | Arsenal Xpress | BASF, Nufarm |
| | | | Bouncer | Australia Limited |
| | | | Clincher | ADAMA |
| | | | Metal 720 | Imtrade |
| | | | Metoken 720 | Kenso |
| Metolachlor | К | 720 g/L EC | Metolachlor 720 Ec | 4Farmers, Accensi, Agro-Alliance, Chemforce, Chemtura, Conquest, Crop Smart, Ezycrop, FMC, Grow Choice, Halley, Landmark Operations, Novaguard, Ozcrop, Profeng, Ravensdown, Sabakem, Rainbow, Spalding |
| | | | Scrimmage 720 | Agri West |
| | | | Strada | Sipcam |
| | | | Chaser | Ospray |

| Active ingredient | Mode of Action group | Concentration and formulation | Trade name | Marketed By |
|-------------------|-------------------------|-------------------------------|--------------------|--|
| | | | Clincher Plus | ADAMA |
| | | | Metal Plus 960 | Imtrade |
| | | | Metolachlor 960 | 4Farmers, Accensi, Apparent, ACP, FMC, Landmark Operations Mission Bell, Proterra, Rainbow, Titan |
| Metolachlor | K | 960 g/L EC | Metolamax 960 | Conquest |
| | | · · | Metor 960 | Farmalinx |
| | | | Smasha 960 | Agritrading |
| | | | Strada Xtreme | Sipcam |
| | | | Arena | Agricorp |
| | | | MSMA 500 | Agkare |
| | | | Arena | Agricorp |
| | | 500 g/L SC | MSMA 720 | Agspray |
| | | | Monopoly | Barmac |
| MSMA | Z | | Vesta | Campbell |
| | | 720 g/L SC | MSMA 720 | Ancom |
| | | 700 a/L CI | Armada 720 SL | Hextar |
| | | 720 g/L SL | Daconate 720 | Cropcare |
| | | 800 g/L LQ | Megalith | Agriwest |
| Vorflurazon | F | 800 g/kg DF | Zoliar 800 | Agnova Technologies, Sygenta |
| | | <u> </u> | Cavalier | ADAMA |
| | | | Conversion 240 | Australias Crop Protection |
| | | | Convert 240 Ec | Ospra |
| | | | Encore | Conquest |
| | G | 240 g/L EC | Goal | Dow AgroSciences |
| | | | Gowel 240 EC | Sinon |
| | | | Offend 240 | Grow Choice |
| | | | Olright 240 EC | Agri West |
| | | | | |
| | | | 0x 240 | Kenso, Spalding |
| Oxyfluorfen | | | Oxen | Imtrade |
| | | | Oxxel 240 Ec | Axichem |
| | | | Oxydox 240 Ec | Hextar |
| | | | Oxyfluorfen 240 Ec | Farmalinx 4Farmers, Accensi, Agrismart, Agro-Alliance, Apparent, Landmark Operations, Opal Australasia, Ozcrop, Profeng, Ravensdown, Ruralchem, Titan |
| | | | Point | Kendon |
| | | | Puncher | UPL |
| | | | Striker | Nufarm |
| | | 480 g/L EC | Goaltender | Dow AgroSciences |
| | | 400 g/L EU | Alliance | Crop Care |
| | | | | |
| | | | Agroquat 250 | Agrogill |
| | | | Explode 250 | Conquest |
| | | | Gramoxone 250 | Sygenta |
| | | | Inferno | Sipcam |
| | | | Nuquat 250 | Nufarm |
| | | | Para-Ken 250 | Kenso |
| | | | Paraquat 250 SL | Multiple |
| Paraquat | L | 250 g/L SL | Piston 250 | Axichem |
| a. aquut | _ | | Premier 250 | Halley |
| | | | Putout 250 | Agri West |
| | | | Quash 250 | Hextar |
| | | | Shirquat 250 | Crop Care |
| | | | Sinmosa 250 | Sinon |
| | | | Sprayquat 250 | Kendon |
| | | | Spraytop 250 SI | ADAMA |
| | | | Uniquat 250 | UPL |
| | | 334 g/L SL | Para-ken 334 | Kenso |

| ctive ingredient | Mode of | Concentration and | Trade name | Marketed By |
|------------------|--------------|----------------------|-----------------------------|---|
| | Action group | formulation | | |
| | | | Alarm Blowout | Sipcam Ozcrop |
| | | | Brown Out | - |
| | | | | 4Farmers |
| | | | 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, Fosterr Mission Bell, Naadco, Novaguard, Pacific AgriScience, Sanonda, Rainbow |
| araquat + diquat | L | 135 g/L + 115 g/L AV | Premier 250 | Halley |
| | | | Revolver | Nufarm |
| | | | Scorcher 250 | Conquest |
| | | | Smart Combination 250 | Crop Smart |
| | | | Spalding Exocet 250 | Spalding. |
| | | | Speedy 250 | Kenso |
| | | | Spray & Sow | ADAMA |
| | | | _ | |
| | | | Spray.Seed 250 | Syngenta Australia |
| | | | Spraykill 250 | Imtrade |
| | | | Spray-Out 250 | Ospray |
| | | | Spray-Plant 250 | Sipcam Pacific Australia |
| | | | Titan Eos | Titan |
| | | | Tombstone | Goobang |
| | | | Uni-Spray 250 | UPL |
| | | | Wildfire 250 | Ravensdown |
| | | | Charger 330 EC | Conquest |
| | | | Cyclone 330 EC | Imtrade |
| | | | Fist 330 | UPL |
| | | | Ipimethalin 330 | Finchimica |
| | | 000 -/ 50 | Pendant | Amgrow |
| | | 330 g/L EC | Pendi 330 | Kenso |
| | | | Pendimethalin 330EC | 4Farmers, Halley, Rallis, Ravensdown, Sabakem, Rainbow Titan |
| | | | Rifle 330 | Nufarm |
| | | | Stomp 330e | BASF |
| | | | Panda 435 | Farmalinx |
| ndimethalin | D | 435 g/L EC | Panida Grande | Sipcam |
| | | 400 g/L EU | Pendimethalin 440 EC | FMC |
| | | | Pendimethex | ADAMA |
| | | | Argo 440EC | Colin Campbell |
| | | | Cyclone 440EC | Imtrade |
| | | | Cronos 440 EC | Colin Campbell |
| | | 440 g/L EC | Rifle 440 | Nufarm |
| | | | Romper 440EC | Crop Care |
| | | | Stomp 440 | BASF |
| | | | | BASF |
| | | 455 g/L AV | Stomp Aqua | BASF |
| | | 475 g/L | Stomp*Xtra Panida Max | Rallis |

| Active ingredient | Mode of Action group | Concentration and formulation | Trade name | Marketed By |
|-------------------|-------------------------|-------------------------------|------------------------|--|
| Prometryn | С | 500 g/L SC | Gesagard 500 SC | Syngenta |
| | | | Promesip 500 | Sipcam |
| | | | Prometrex 500 | ADAMA |
| | | | 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 | ADAMA |
| | | | Prometryn 900 | Ozcrop |
| Propaquizafop | A | 100 g/L EC | Shogun | ADAMA |
| Saflufenacil | G | 700 g/kg WG | Sharpen | Nufarm |
| s-Metolachlor | К | 960 g/L EC | Bouncer | Nufarm |
| | | | Dual Gold | Sygenta |
| | | | Heist 960 | UPL |
| | | | Metoken Gold | Kenso |
| | | | Metor-S 960 | Farmalinx |
| | | | s-Metolachlor | Landmark Operations |
| | | | Axeman 600 | |
| | | | | Apparent |
| Triclopyr | l | 600 g/L EC | Biosorb 600 | Biotis Life Science |
| | | | Garlon 600 | Dow AgroSciences |
| | | | Gerlan 600 | Sinon |
| | | | Grando 600 | Crop Care |
| | | | Hurricane 600 | Imtrade |
| | | | Invader 600 | Nufarm |
| | | | Maca 600 | Conquest |
| | | | Ranger 600 | Hextar |
| | | | Redeem 600 | Sipcam |
| | | | Safari 600 | ADAMA |
| | | | Tricky 600 | Axichem |
| | | | Triclon 600 | Grow Choice |
| | | | Triclops | Crop Culture |
| | | | Triclopyr 600 EC | 4Farmers, Accensi, Agrimart, Agro-Alliance, Aimco, Apparent, Ausagri, Australian Progressive Supplies, ACP, Chemforce, Crop Smart, David Gray & Co, Echem, Ezycrop, FMC, Goobang, Halley, Kenso, Landmark Operations, Macspred, Mission Bell, Novaguard, Opal, Ospray, Ozcrop, Oztec, Pacific AgriScience, Profeng, Ravensdown, Superway, Western Stock Distributors, Sabakem, Sabero, Rainbow, Spalding |
| | | | Tripyr | Farmalinx |
| | | | Uni-Lon 600 | UPL |
| | | | Weedpro Tryclops | Pct |
| | | 750 g/L EC | Hurricane Ultimate 750 | Imtrade |
| | | 755 g/L EC | Garlon Fallow master | Dow AgroSciences |

| Active ingredient | Mode of Action group | Concentration and formulation | Trade name | Marketed By |
|------------------------|-------------------------|-------------------------------|--------------------------------|--|
| | | | ACP Regrowth | ACP |
| | | | Apparent Woody Herbicide | Apparent |
| | | | Brush 'N' Wood | Apparent |
| | | | Conqueror | Nufarm |
| | | | Fightback | ADAMA |
| | | | Gnarly | Agri-West |
| | | | Grass-Up | Grow Choice |
| | | | Grazon Extra | Dow AgroSciences |
| | | | Hatchet | Conquest |
| | | | Ken-Zon | Kenso Agcare |
| Trclopyr + picloram | I | 400 g/kg EC | Pickout | Cheminova |
| | | | Picker | Imtrade |
| | | | Prazon | Sabakem |
| | | | Scrubba | Axichem |
| | | | Token | Sipcam |
| | | | Triclopyr + Picloram 400 EC | Accensi, FMC, Landmark Operations, Halley, Mission Bell, Ozcrop, Rainbow |
| | | | Tripclo | Hextar |
| | | | Tri-Pic | Superway |
| | | | Tripicloram 400 | Farmalinx, Macspred |
| | | | Tuffwood | Freezone |
| | | | Woodpecker | Goobang |
| rifloxysulfuron sodium | В | 750 g/kg WG | Envoke | Syngen |
| Trifluralin | | | 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 |
| | | 480 g/L EC | Triflen 480 | Sinon |
| | D | | Triflur X 480 | Nufarm |
| | | | Triflur Boost | Extol |
| | | | Trifluralin 480 EC | Multiple |
| | | | Trifluralinx 480 | Farmalinx |
| | | | Triflurasip | Sipcam Pacific Australia |
| | | | Triflurex | ADAMA, Nufarm |
| | | | Trigen 480 | Landmark Operations |
| | | | Trilogy | ADAMA |
| | | 500 g/L EC | Trilogy Xtra | ADAMA |
| | | 530 g/L EC | Trifluralin 530 Ec | Accensi |
| | | | Tricon Maxi 600 | Conquest |
| | | 600 g/L EC | Trifluralin 600 Ec | 4Farmers, Landmark Operations |
| | | | Trilogy 600 | ADAMA |

This document is part of a larger publication The Cotton Pest Management Guide for Cotton 2014 - 15

The complete document can be found on the CRDC or myBMP web sites during the 2014-15 Australian cotton season

www.crdc.com.au

or

www.mybmp.com.au

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