

Woody Weed

CONTROL GUIDE



Why control woody and environmental weeds?



Most producers would suggest that woody weed control is something akin to painting the Sydney Harbour Bridge—it's a never-ending job, you can't do it without help and it costs a lot of money. Everyone agrees however, that developing an integrated approach to weed management combining all appropriate weed control options is the best way to combat them.

According to a Cooperative Research Centre for Australian Weed Management (Weeds CRC) report released in 2004, it is stated that the economic loss per annum to Australian agriculture due to weeds ranges from \$3.4 billion to \$4.4 billion. For livestock producers that cost of lost production and on-farm control annually ranges between \$2.1 billion and \$2.2 billion.

This Woody Weed Control guide is a purpose-designed information booklet to assist you in making better decisions for the control of woody weeds. It contains information for weed identification, critical control times, different application methods and herbicide recommendations for many woody weed species.

BENEFITS OF WOODY WEED CONTROL

Controlling woody weeds will provide the following benefits:

- 1. INCREASE THE CARRYING CAPACITY OF YOUR PROPERTY**
Controlling woody weeds means that there is more productive pasture available, which in turn allows you to carry more livestock.
- 2. INCREASE THE VALUE OF YOUR PROPERTY**
Properties that are free of woody weeds are of greater value than those that are infested.
- 3. MAKE MUSTERING EASIER**
Large infestations of woody weeds provide stock with a hiding place when being mustered.
- 4. REDUCE THE RISK OF FIRE**
Large infestations of woody weeds are a fire risk, particularly in periods of prolonged dry weather.
- 5. REDUCE THE INCIDENCE OF VERMIN**
Large infestations of woody weeds provide an ideal habitat for vermin to breed, e.g. rabbits.
- 6. COMPLY WITH GOVERNMENT LEGISLATION**
Controlling declared woody weeds is the legal responsibility of the landholder.
- 7. MINIMISE STOCK LOSSES**
Some woody weeds are poisonous to stock and by controlling woody weeds you can minimise stock losses.
- 8. PROTECT THE ENVIRONMENT**
Woody weeds invade and dominate native vegetation if left unchecked.
- 9. CONTROL EROSION**
Replacing woody weeds with a dense competitive pasture stand (and correct grazing management) protects valuable topsoil.

Integrated options for weed control

While controlling woody weeds is difficult, it is not impossible. Their persistent nature means that total control is not often achievable with a single herbicide application. With the introduction of a three-cycle programme, producers can ensure long-term and cost-effective woody weed control.

Combining the use of herbicide and other weed control options such as slashing, cultivation, burning and improving pasture, the Dow AgroSciences 3 Cycle Plan aims to help producers gain long-term control over their weed problems while obtaining the maximum benefit from the money they invest in herbicide.

MECHANICAL/CULTIVATION

Mechanical treatment on its own is inadequate to control most woody weeds. However, in conjunction with other methods, it can assist in control. Cutterbars, ploughing or discing are best as they damage the root systems of the plants. This process is best carried out in summer, as haphazard cultivation in winter may result in spreading the infestation. Mechanical movement can exacerbate weed burdens.

SLASHING/BURNING

Burning or slashing might be useful in the first year to reduce bush size to a more manageable level. To allow enough grass and debris to facilitate a burn it may be necessary to exclude stock. Time your slashing or burning (usually six months prior to spraying) to allow plants to regrow to at least one metre before starting a herbicide treatment. To ensure maximum efficacy of your herbicide, it is important that woody weeds are not cut or burnt for six months after application.

LIVESTOCK

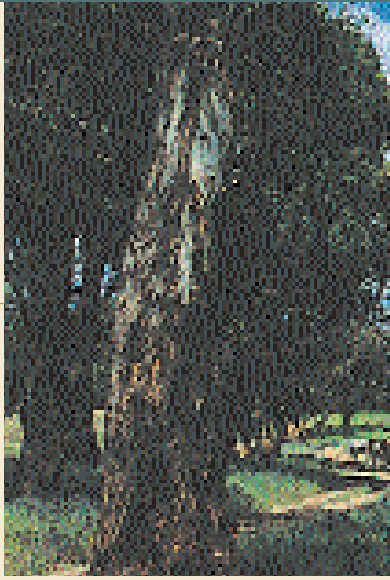
Livestock can aid in reducing woody weed seedling establishment, suppress regrowth and keep pastures competitive. However, their access to seedlings can be limited by logs, rocks and established bushes. Stock can continue to graze in the paddock during treatment with Grazon* DS, Garlon* 600, Access*, Graslan* and Tordon* DSH Herbicides as no withholding periods apply. When treating some noxious weeds, such as green cestrum, stock should be removed from the paddock.

HERBICIDES

Herbicides applied at the right time, using the right rate and technique, are often the most economical, effective and practical method for long-term woody weed control. Before treating, ensure woody weeds are actively growing and not showing signs of stress. As with most pests, prevention is better than cure. Treat the edges of large areas to prevent more weeds spreading. Clean up small scattered areas first and improve your fencing so that your livestock can graze on treated areas.



Strategic treatment programme



Woody weeds are vigorous and hardy. Their persistent nature means it is essential to use a programme-approach over three or more seasons to control them.

The Dow AgroSciences 3 Cycle Plan allows you to attack woody weeds in three cycles: Treat; Follow-up; and Check. Use the plan below to create your strategic programme.

THE 3 CYCLE PLAN

CYCLE 1 TREAT

The aim is to reduce the weed infestation to more manageable levels. It is critical that you allow funds for a follow-up treatment in the next cycle or you may find regrowth will return and if not treated your initial work could be wasted.

Make sure spraying conditions are right for treatment.

| Paddock Name | Treatment Used |
|--------------|----------------|
| | |
| | |
| | |
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| | |

CYCLE 2 FOLLOW-UP

This is vital. The aim is to follow up what was treated in the previous cycle. After your initial knockdown of large infestations, areas that you could not reach need follow-up. Make sure spraying conditions are right for treatment.

| Paddock Name | Treatment Used |
|--------------|----------------|
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CYCLE 3 CHECK

Continue to check over time to ensure no seedlings get away. Ensure pasture forms an effective competitor to regrowth or seedlings.

| Paddock Name | Treatment Used |
|--------------|----------------|
| | |
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| | |
| | |
| | |

Different weed species often require different treatment solutions. Use this Woody Weed Control Guide or consult your Dow AgroSciences woody weed specialist. Call 1800 700 096.



THREE STEPS TO SUCCESS

1. DEFINE THE PROBLEM
 - Draw a layout of your property and paddocks.
 - Locate and shade areas of infestation.

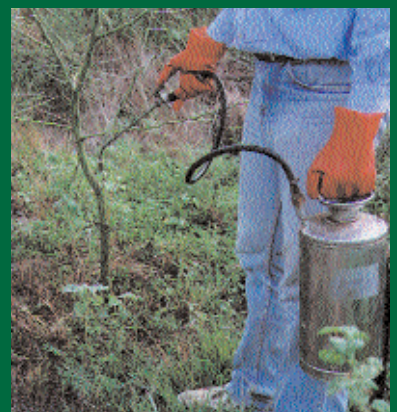
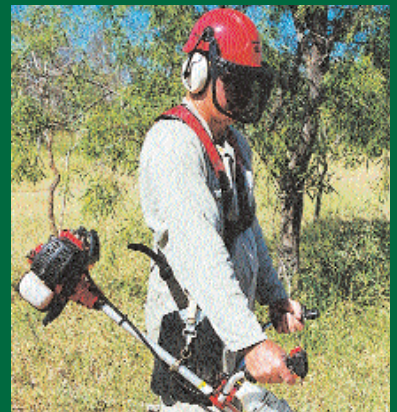
2. DEVELOP A PROGRAMME
 - Begin with the end in mind.
 - Identify the weed species in each paddock.
 - Determine the infestation density (scattered, medium, dense).
 - Detail the size of the infestation (acres/hectares).
 - Develop a financial plan to determine the resources you have to control the problem.
 - Determine the priorities.

3. APPLY THE PROGRAMME
 - Use the 3 Cycle Plan to chart your success.

| DATE TREATED | FOLLOW-UP RECOMMENDATIONS |
|--------------|---------------------------|
| | |
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| | |
| | |

| DATE TREATED | FOLLOW-UP RECOMMENDATIONS |
|--------------|---------------------------|
| | |
| | |
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| | |
| | |

| DATE TREATED | FOLLOW-UP RECOMMENDATIONS |
|--------------|---------------------------|
| | |
| | |
| | |
| | |
| | |



Which method of treatment should I use?

INTRODUCTION TO TREATMENT OPTIONS

There are a number of different methods you can use to treat woody weeds. The option you choose will be determined by the size of the problem, the resources you have available and time constraints you are working within. Refer to the ready reference table control guide and product labels for correct application rates.



AERIAL SPRAYING APPLICATION (A)

Apply herbicide in not less than 200 L/ha water volume. Spray with a calibrated aircraft using the full overlap opposite pass technique. Nozzle combination should not be less than D8/45°.

Spraying in wind exceeding 10 km/h, temperatures above 30 °C or relative humidity below 50% is not recommended.

BASAL BARK APPLICATION (B)

Use this method to treat saplings and regrowth less than 5 cm in basal diameter.

The herbicide is applied mixed with diesel to assist penetration through the bark. Weeds with thick corky bark cannot be treated successfully using this method.

Do not treat if the stems are wet or charred as this prevents the herbicide from penetrating through the bark.

Make sure you thoroughly treat the whole circumference of each stem from ground level to a height of 30 cm.

Some woody weeds can be treated when basal diameter is greater than 5 cm. Refer to the product label for details.

BRUSHCUTTER APPLICATION (C)

The brushcutter takes the back-breaking effort out of the cut stump application method. It uses a high-powered tungsten-tipped cutting blade to remove the top growth as close to ground level as possible. A sprayer attachment delivers a dose of herbicide almost immediately to the cut surface.

CUT STUMP APPLICATION (D)

Cut stump application is the preferred method for saplings that are too small to be stem injected.

Cut stems as close to the ground as practical, no higher than 10–15 cm from ground level. Thoroughly spray the herbicide mixture immediately after the cut is made. This is necessary because the plant can seal the cut quickly, thus barring the chemical from penetrating into the sapstream.

FOLIAR SPRAY APPLICATION (E)

This method normally refers to high volume application using a hand gun to treat the foliage of the plant. It is recommended to use a No. 5–8 tip on your gun and calibrate your pump pressure to 700–1500 kPa.

Ensure you treat the entire leaf area of the plant to the point of run-off, with thorough coverage of the crown, runners and tips. A knapsack can be used to ensure that the full volume is delivered to the target plant.

GRASLAN AERIAL APPLICATION

Graslan is applied to areas greater than 100 ha during winter and spring, prior to the summer storms. A fixed-wing aircraft is used to apply product in Queensland and a helicopter is used in the Northern Territory.

Before Graslan can be applied, a Dow AgroSciences representative will conduct a paddock inspection to ensure suitable application rates are recommended for the weeds and soil type present. This will ensure Dow AgroSciences and government environmental guidelines are followed, as well as recording all details of the job. The area is recorded using GPS equipment. A contract is written and our application co-ordinator will arrange for Graslan to be applied at a time when the plane is next in the area. As this process can take some time to complete, it is essential to plan and organise an inspection early in the year.



GROUND BOOM SPRAY APPLICATION (F)

For pasture weeds, sprayers should be calibrated to deliver a minimum of 100 L/ha of water with a droplet size of 150–350 microns. Use higher volumes of water in dense pastures to achieve better penetration and coverage. It is recommended that you use flat fan nozzles and spray pressures of 200–300 kPa with boom height set to ensure double overlap of nozzle pattern at the top of the weed canopy.

HAND APPLICATION (G)

Apply granules/pellets to the soil prior to spring or summer rains. It is essential that the root area of the woody weed is evenly treated with the pellets or granules. Estimate the surface area (m²) covered by the bush to a distance of 30 cm out from the dripline (see illustration G) then apply granules or pellets evenly over the whole area. With Tordon Granules for example, if the bush covers 5 m² then apply five heaped metric tablespoons of the product over the area. (N.B. one heaped metric tablespoon weighs 45 g).

STEM INJECTION APPLICATION (H)

Make horizontal cuts with a narrow-bladed axe (5–7 cm wide) through the bark of the woody weed into the sapstream at waist height. Space these at 10–13 cm centres. Leave the axe in the cut and immediately (within three seconds) apply the herbicide down the axe blade, to ensure the full dose enters the sapstream. This is necessary because the plant can seal the cut quickly, thus barring the chemical penetrating into the sapstream.

Do not treat trees with poor sap flow, which occurs when plants are stressed. Where low branches are encountered place a cut immediately below the branch.

NOTE: SPRAY DRIFT

Spray only when there is no movement of air towards non-target, susceptible vegetation or waterways. Drift can be greatly reduced by using nozzles and spray pressures that produce a minimum proportion of small, drift-prone droplets – e.g. lower pressure, larger droplets and higher spray volume. Under ideal conditions, spraying can be carried out near susceptible non-target plants and waterways by separating them with a suitable size buffer area.

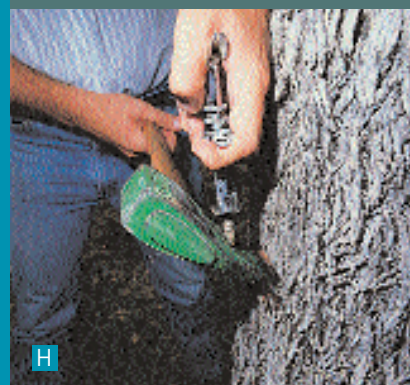
TORDON DSH HOW MANY CUTS PER STEM?

BASAL DIAMETER / CLOSE SPACE TREATMENT

| | |
|-------|---------|
| 10 cm | 3 cuts |
| 20 cm | 5 cuts |
| 30 cm | 7 cuts |
| 40 cm | 10 cuts |
| 50 cm | 12 cuts |
| 60 cm | 14 cuts |

RATE: MIX ONE PART TORDON DSH
WITH FOUR PARTS WATER

STEM INJECTION AT OR NEAR
GROUND LEVEL IS
RECOMMENDED IN THE
FOLLOWING AREAS:



1. Where soil types and substrata structure prevent vigorous root growth – e.g. 'Traprock' country in SE Queensland and Tablelands of New England, NSW.
2. So called 'hard country' (general poor growing conditions).
3. Western poplar box areas.
4. Areas where rainfall is less than 500 mm per year.
5. Difficult to control species of Wattles and Eucalypts – e.g. Stringy Bark and sap bleeding types.

When should I treat?

| ACCESS [®] HERBICIDE | | | | | | | | | | | | |
|-------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Weed | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug |
| Deciduous plants | | | | | | | | | | | | |
| Non-deciduous plants | | | | | | | | | | | | |

| GRASLAN [®] HERBICIDE (REFER TO GRASLAN LABEL FOR WEEDS) | | | | | | | | | | | | |
|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug |
| Aerial Graslan | | | | | | | | | | | | |
| Hand Graslan | | | | | | | | | | | | |

| GRAZON [®] DS HERBICIDE | | | | | | | | | | | | |
|----------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Weed | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug |
| Blackberry | | | | | | | | | | | | |
| St John's wort | | | | | | | | | | | | |
| Sweet briar | | | | | | | | | | | | |
| Gorse | | | | | | | | | | | | |
| Lantana/Associated weeds | | | | | | | | | | | | |
| Rubber vine | | | | | | | | | | | | |
| Eucalypt regrowth/Wattle | | | | | | | | | | | | |

| HOTSHOT [®] HERBICIDE | | | | | | | | | | | | |
|--------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Weed | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug |
| Lantana | | | | | | | | | | | | |

| STARANE [®] 200 HERBICIDE | | | | | | | | | | | | |
|------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Weed | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug |
| Lantana | | | | | | | | | | | | |
| Prickly acacia | | | | | | | | | | | | |
| Wattle regrowth | | | | | | | | | | | | |

| TORDON [®] GRANULES | | | | | | | | | | | | |
|------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Weed | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug |
| Sweet briar | | | | | | | | | | | | |
| Blackberry | | | | | | | | | | | | |
| African boxthorn | | | | | | | | | | | | |
| Limebush | | | | | | | | | | | | |
| Eucalypt regrowth | | | | | | | | | | | | |
| Ragwort | | | | | | | | | | | | |

CRITICAL COMMENTS

Spraying must only be carried out when plants are in full leaf and flowering, which should begin 6–8 weeks after substantial rainfall.

KEY

- Best time to spray/treat
- Can spray/treat if conditions are suitable
- Do not spray/treat

What spray volume should I use?

USING THE RIGHT SPRAY VOLUME IS VITAL

Using the right spray volume is essential to ensure acceptable control. Applying too much is wasteful, and applying too little can mean having to go back to re-treat large amounts of regrowth. Always read the label for the application rate and critical comments.

Use the calibration charts below as a guide to the correct foliar spray volume you should be applying to a woody weed.

CALIBRATION CHART FOR HIGH VOLUME FOLIAR SPRAY TREATMENT OF WOODY WEEDS WITH A HAND GUN

Recommended volume for dome-shaped weeds such as blackberry, gorse and lantana.

| BUSH DIAMETER (metres) | HEIGHT OF BUSH (metres) | | |
|---|--------------------------------|------|------|
| | 1 m | 2 m | 3 m |
| | SPRAY VOLUME PER BUSH (litres) | | |
| 3.0 | 1.8 | 2.8 | 4.2 |
| 4.0 | 3.2 | 5.0 | 7.5 |
| 5.0 | 4.9 | 7.9 | 11.8 |
| 6.0 | 7.1 | 11.3 | 17.0 |
| 7.0 | 9.7 | 15.4 | 23.1 |
| 8.0 | 12.6 | 20.1 | 30.1 |
| EQUIVALENT WATER RATE (litres/infested hectare) | 2500 | 4000 | 6000 |

CALIBRATION CHART FOR CYLINDRICAL/CONE-SHAPED WEEDS

Recommended volume for cylindrical/cone-shaped weeds such as sweet briar.

| BUSH DIAMETER (metres) | HEIGHT OF BUSH (metres) | | |
|---|---------------------------------------|------|------|
| | 1 m | 2 m | 3 m |
| | SPRAY VOLUME PER BUSH (litres or mL*) | | |
| 1.0 | 240 | 470 | 710 |
| 2.0 | 940 | 1.9 | 2.8 |
| 3.0 | 2.1 | 4.2 | 6.4 |
| 4.0 | 3.8 | 7.5 | 11.3 |
| EQUIVALENT WATER RATE (litres/infested hectare) | 3000 | 6000 | 9000 |

* Spray volumes less than one litre are shown in mL.

ADJUVANTS

Grazon DS, Garlon 600, Hotshot* and Starane 200 formulations already contain surfactants. The use of additional surfactants is not recommended except in specific situations as detailed on the label.

RAINFASTNESS

Grazon DS, Garlon 600, Hotshot and Starane 200 are rainfast. Foliar application should be stopped if rain is likely within one hour or if foliage is wet. 2,4-D Amine 625 is relatively rainfast, foliar application should be stopped if rain is likely within six hours.

GUIDELINE TO CALIBRATION

Use the right spray nozzle (see chart)

NOZZLES AND PRESSURES FOR DIFFERENT SPRAY VOLUMES

| Spray volume (L/ha) | Nozzle | Diameter (mm) | Output (L/min) | Pressure (kPa) |
|---------------------|--------|---------------|----------------|----------------|
| 1000–2000 | D4 | 1.6 | 2.5 | 400 |
| 1500–3000 | D5 | 2.0 | 3.8 | 500 |
| 2000–4000 | D6 | 2.4 | 5.5 | 600 |
| 3000–6000 | D7 | 2.8 | 7.8 | 700 |
| 4000–8000 | D8 | 3.2 | 8.6 | 800 |



To check you are spraying at the right application rate, mark out an area of dense weeds five metres by two metres (10 m²). A spray volume of 1 L over 10 m² corresponds to 1000 L/ha. If you applied 2.3 L that would be equivalent to 2300 L/ha.

Then use a flow meter or time how long it takes you to spray the area. Then with the gun on the same setting spray into a 20 L container for the same time and measure the amount of spray liquid. Do this several times until you get a feel for the correct application rate.

Woody weed identification and growth habit

CORRECT IDENTIFICATION

Correct identification of the woody weeds needs to be made **before** consulting recommendations for control. Contact your local Dow AgroSciences representative or government authority for assistance.

GROWTH HABIT

In addition to identification of the weed species, the growth habit of the weed is paramount to the application technique and product chosen for its control. The growth habit will limit the choices of product and the application techniques applicable.

For example...

A eucalypt stem one metre tall could be:

- A seedling in its first year of growth. Such a plant when actively growing has few reserves and can be readily controlled by foliage spraying.
- A tree 10 years old – grazed-off, dozed-off, slashed, fired, sprayed-off or in some way defoliated two or three times in that decade, since germination.

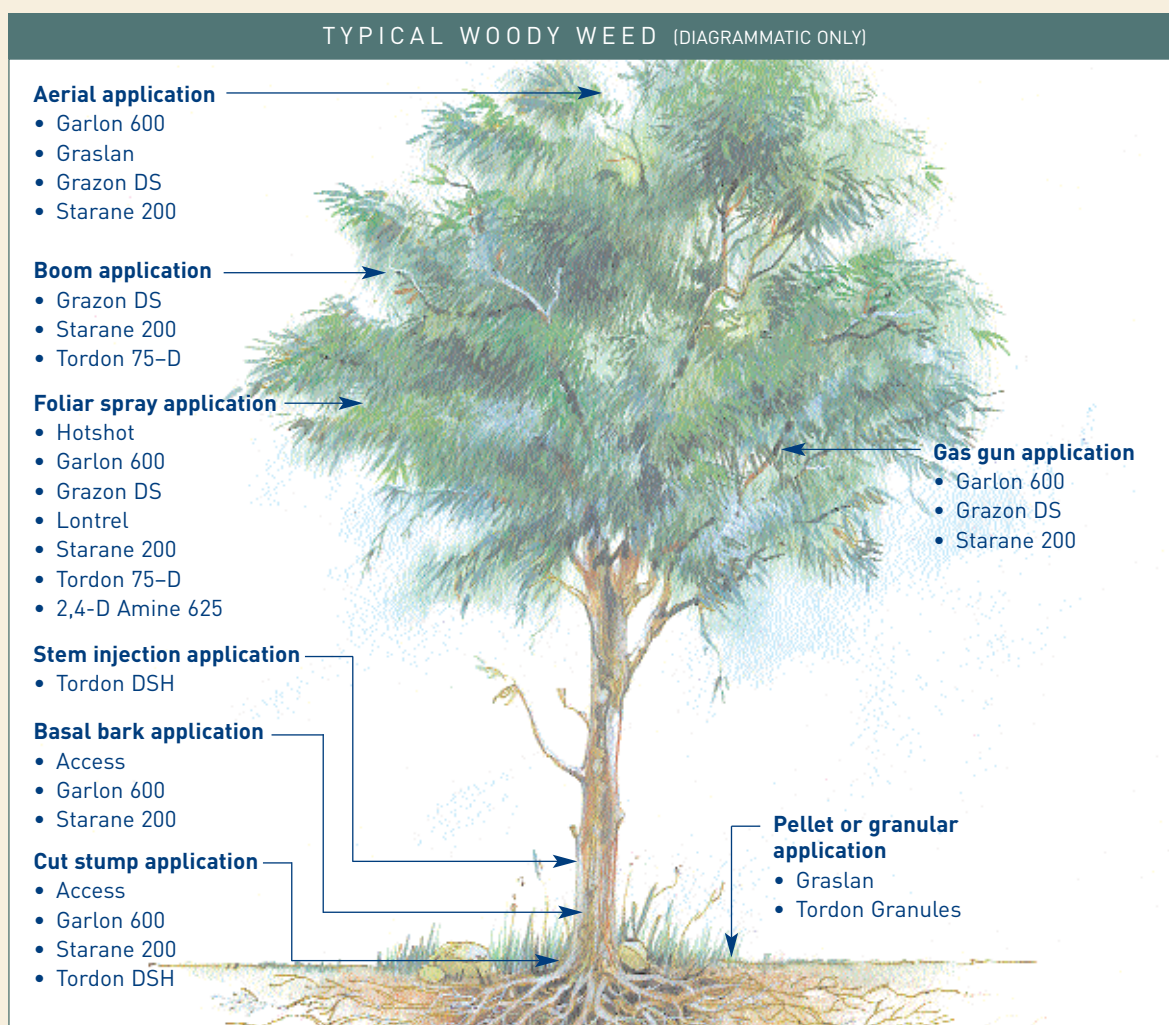
Though it may only have sparse foliage, it could well have a large lignotuber below the ground, full of food reserves and buds capable of regrowth when the top is again removed. If this is the growth form you confront, then foliage spraying will usually be unsatisfactory. In essence, you need to treat to prevent the secondary buds in the lignotuber from regrowing. Cut stump treatment or stem injection around the base of the original tree are the preferred application techniques.

This example should illustrate that woody weed control is not a straightforward matter.

Sometimes it is desirable to allow the woody weed to grow larger to enable better and more cost-effective control.

The following diagrams illustrate some of the most common situations that will be encountered and explain the problems and solutions for each.

Refer to product label to ensure the species identified is registered and the correct rate, timing and critical comments are followed.



SEEDLING WOODY OR PERENNIAL WEED WITH SMALL ROOT SYSTEMS AND SIMPLE STEMS

USE

Foliar spray:

- Garlon 600
- Grazon DS
- Hotshot
- Lontrel
- Starane 200
- Tordon 75-D

AVOID

- **Stem injection**
Stem too small to inject
- **Cut stump**
Too laborious
- **Basal bark spray**
Too laborious
- **Granular application**
Too expensive



WOODY WEED WITH EXTENSIVE FINE STEMS

USE

Basal bark spray:

- Access
- Garlon 600
- Starane 200

Pellet/granular application:

- Graslan
- Tordon granules

AVOID

- **Foliar spray**
Insufficient leaf area to spray
- **Cut stump**
Stems too thin and too many
- **Stem injection**
Stems too small to inject



ADVANCED GROWTH (>2 M TALL) FROM SEED

USE

Stem injection:

- Tordon DSH

Cut stump application:

- Access
- Garlon 600
- Starane 200
- Tordon DSH

Granular application:

- Graslan

AVOID

- **Basal bark spray**
Bark and stem too thick to allow penetration of chemical
- **Foliar spray**
Plant too big



NOXIOUS WOODY WEEDS



BLACKBERRY



RAGWORT



MESQUITE



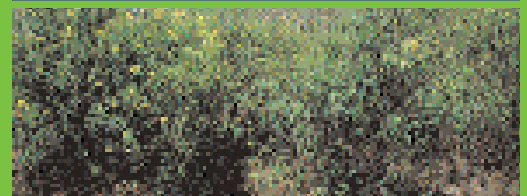
MOTHER-OF-MILLIONS



ST. JOHN'S WORT



GORSE



GREEN CESTRUM

Ready reference table control guide

| Woody weed | State | Method of application | Product – Note: Preferred option in bold letters. | Rate – Consult label for details of growth stage and use, especially where range of rates are given. |
|--|----------------------------|--------------------------------|---|--|
| AFRICAN BOXTHORN <i>Lycium ferocissimum</i> | All | Basal bark and Cut stump | GARLON 600 | 1:30 with diesel distillate |
| | | Basal bark and Cut stump | ACCESS | 1:60 with diesel distillate |
| | Tas | Foliar spray | GARLON 600 | 170 mL/100 L of water |
| | All | Foliar spray | GRAZON DS | 500 mL/100 L of water |
| | Qld, NSW, Vic, WA | Foliar spray | TORDON 75-D | 1300 mL/100 L of water |
| | Qld, NSW, NT | Granule application – Hand | GRASLAN | 2.0 g/m ² (20 kg/ha) |
| Vic, Qld, SA, WA | Granule application – Hand | TORDON GRANULES | 35 to 45 g/m ² | |
| ANGOPHORA REGROWTH <i>Angophora</i> spp. | All | Basal bark and Cut stump | ACCESS | 1:60 with diesel distillate |
| | | Cut stump | TORDON DSH | 1:20 with water + surfactant |
| | | Foliar spray | GARLON 600 | 400 or 560 mL/100 L of water |
| | | Foliar spray | GRAZON DS | 350 mL/100 L of water |
| | | Stem injection | TORDON DSH | 1:4 with water |
| AUSTRALIAN BLACKTHORN <i>Bursaria spinosa</i> | All | Basal bark and Cut stump | GARLON 600 | 1:60 with diesel distillate |
| | | Basal bark and Cut stump | ACCESS | 1:60 with diesel distillate |
| | | Foliar spray | GRAZON DS | 500 mL/100 L of water |
| BALLOON COTTON BUSH <i>Gomphocarpus physocarpus</i> | Qld | Foliar spray | 2,4-D AMINE 625 | 320 mL/100 L of water |
| BANKSIA <i>Banksia</i> spp. | All | Foliar spray | GARLON 600 | 400 or 560 mL/100 L of water |
| | | Foliar spray | GRAZON DS | 350 mL/100 L of water |
| BATHURST BURR <i>Xanthium spinosum</i> | Qld, NT, NSW, WA | Foliar spray | STARANE 200 | 75 mL/100 L of water |
| | Qld | Foliar spray | 2,4-D AMINE 625 | 320 mL/100 L of water |
| | Qld, NSW | Boom application | TORDON 75-D | 1 L/ha |
| BELAH <i>Casuarina pauper</i> | Qld | Granule application – Hand | GRASLAN | 1.5 g/m ² (15 kg/ha) |
| BELLYACHE BUSH <i>Jatropha gossypifolia</i> | Qld, NSW, WA | Foliar spray | STARANE 200 | 500 mL/100 L of water |
| BIDDY BUSH <i>Cassinia arcuata</i> | ACT, NSW | Foliar spray | GRAZON DS | 500 mL/100 L of water + surfactant |
| | Vic | Foliar spray | TORDON 75-D | 650 mL/100 L of water |
| BITTER BARK <i>Alstonia constricta</i> | Qld, NSW | Basal bark and Cut stump | GARLON 600 | 1:60 with diesel distillate |
| | All | Basal bark and Cut stump | ACCESS | 1:60 with diesel distillate |
| | Qld | Blanket wiper | GRAZON DS | 1:4 with water |
| BLACKBERRY <i>Rubus fruticosus</i> | All except NT | Foliar spray | GRAZON DS | 350 or 500 mL/100 L of water |
| | All | Foliar spray | GARLON 600 | 170 mL/100 L of water |
| | Vic | Foliar spray | TORDON 75-D | 1300 mL/100 L of water |
| | All except NT | Foliar spray | TORDON DSH | 500 mL/100 L of water + adjuvant |
| | NSW, Qld, SA, Vic, WA | Aerial spray | GRAZON DS | 10 L/ha (apply in 200 L water/ha) |
| | NSW, SA, Tas, Vic, WA | Aerial (helicopter only) | GARLON 600 | 4.8 L/ha (apply in 200 L water/ha) |
| | Qld | Aerial (helicopter or fixed) | GARLON 600 | 4.8 L/ha (apply in 200 L water/ha) |
| | All | Controlled droplet application | GARLON 600 | 170 mL/1 L of water |
| | All except NT | Controlled droplet application | GRAZON DS | Apply undiluted |
| | Vic, Qld, NSW, SA, WA | Granule application – Hand | TORDON GRANULES | 35 to 45 g/m ² |
| | All | Gas gun application | GARLON 600 | 280 mL/10 L of water |
| ACT, NSW, Qld, SA, Tas, WA | Gas gun application | GRAZON DS | 335 mL/10 L of water | |
| BLUE BILLYGOAT WEED (Blue top) <i>Ageratum houstonianum</i> | Qld, WA | Boom application | STARANE 200 | 1.5 L/ha + 1 L/ha Uptake |
| | Qld | Foliar spray | 2,4-D AMINE 625 | 320 mL/100 L of water |



BANKSIA



BATHURST BURR



BITTER BARK



BILLY GOAT WEED

Ready reference table control guide

| Woody weed | State | Method of application | Product – Note: Preferred option in bold letters. | Rate – Consult label for details of growth stage and use, especially where range of rates are given. |
|---|-----------------------|----------------------------|---|--|
| BLUE HELIOTROPE <i>Heliotropium amplexicaule</i> | Qld, NSW | Foliar spray | TORDON 75-D | 1000 mL/100 L of water |
| | | Foliar spray | GRAZON DS | 500 mL/100 L of water |
| | | Foliar spray | STARANE 200 | 1000 mL/100 L of water |
| | NSW | Granule application – Hand | GRASLAN | 0.5 g/m ² [5 kg/ha] |
| BONESEED (Bitou Bush) <i>Chrysanthemoides monilifera</i> ssp. <i>monilifera</i> | Qld, NSW, Vic, SA, WA | Foliar spray | TORDON 75-D | 650 mL/100 L of water |
| | Vic, SA | Foliar spray | 2,4-D AMINE 625 | 320 mL/100 L of water |
| BOXTHORN <i>Lycium australe</i> | Vic, SA | Foliar spray | 2,4-D AMINE 625 | 320 mL/100 L of water |
| BRIGALOW REGROWTH <i>Acacia harpophylla</i> (over 100 ha) | Qld | Aerial application | GRASLAN AERIAL | Determined by Dow AgroSciences representative on inspection |
| BRIGALOW REGROWTH <i>Acacia harpophylla</i> (under 100 ha) | All | Basal bark and Cut stump | ACCESS | 1:60 with diesel distillate |
| | Qld, NSW | Granule application – Hand | GRASLAN | 1.5 g/m ² [15 kg/ha] |
| | | Foliar spray | GARLON 600 | 170 mL/100 L of water |
| | | Foliar spray | GRAZON DS | 350 or 500 mL/100 L of water |
| | | Foliar spray | STARANE 200 | 500 or 1000 mL/100 L of water |
| BROADLEAF HOPBUSH <i>Dodonaea viscosa</i> ssp. <i>angustifolia</i> | NSW | Basal bark and Cut stump | GARLON 600 | 1:60 with diesel distillate |
| BROADLEAF PEPPER TREE <i>Schinus terebinthifolius</i> | Qld | Foliar spray | STARANE 200 | 500 mL/100 L of water |
| BROOMS <i>Genista</i> spp. Cape, English, Flax leaf, Montpellier | Tas, | Basal bark and Cut stump | GARLON 600 | 1:48 with diesel distillate |
| | All | Foliar spray | GARLON 600 | 170 mL/100 L of water |
| | SA, Vic | Foliar spray | TORDON 75-D | 300 mL/100 L of water |
| | All except NT | Foliar spray | GRAZON DS | 250 or 350 mL/100 L of water |
| BROWN SALWOOD (Hickory Wattle) <i>Acacia aulacocarpa</i> | All | Basal bark and Cut stump | GARLON 600 | 1:120 with diesel distillate |
| | | Basal bark and Cut stump | ACCESS | 1:60 with diesel distillate |
| | | Foliar Spray | HOTSHOT | 700 mL/100 L of water |
| BRUSH and SWAMP BOX <i>Lophostemon confertus</i> & <i>L. suaveolens</i> | All | Basal bark and Cut stump | ACCESS | 1:30 with diesel distillate |
| | | Cut stump | TORDON DSH | 1:20 with water + surfactant |
| | Qld, NT, WA | Granule application – Hand | GRASLAN | 2.0 g/m ² [20 kg/ha] |
| CAMPHOR LAUREL <i>Cinnamomum camphora</i> | All | Foliar spray | GRAZON DS | 350 or 500 mL/100 L of water |
| | Qld, NSW | Basal bark and Cut stump | GARLON 600 | 1:60 with diesel distillate |
| | All | Basal bark and Cut stump | ACCESS | 1:60 with diesel distillate |
| | Qld, NSW | Stem injection | TORDON DSH | 1:4 with water |
| | All (seedlings only) | Foliar spray | GARLON 600 | 170 mL/100 L of water |
| | Qld, NSW, ACT | Gas gun application | GRAZON DS | 500 mL/10 L of water |
| CAPE HONEYFLOWER <i>Melianthus major</i> | Qld, NSW, Vic, SA, WA | Foliar spray | TORDON 75-D | 650 mL/100 L of water |
| CAPE IVY <i>Senecio angulatus</i> | Vic, Tas | Foliar spray | LONTREL | 3.3 L/ha |
| CASTOR OIL PLANT <i>Ricinus communis</i> | All | Basal bark and Cut stump | GARLON 600 | 1:60 with diesel distillate |
| | Qld, NSW, ACT | Foliar spray | 2,4-D AMINE 625 | 230 mL/100 L of water |
| CASUARINA REGROWTH <i>Casuarina</i> spp. | All | Foliar spray | GRAZON DS | 350 mL/100 L of water |
| | | Cut stump | TORDON DSH | 1:20 with water + surfactant |
| | | Stem injection | TORDON DSH | 1:4 with water |



BLUE HELIOTROPE



BROADLEAF PEPPER TREE

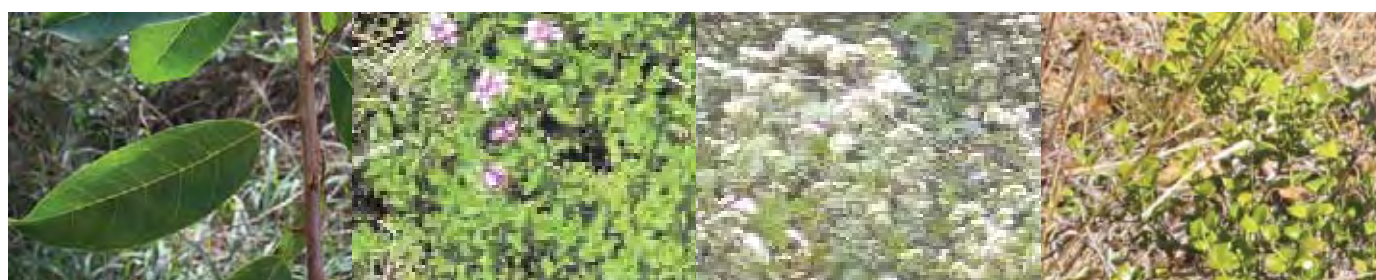


CAMPHOR LAUREL



CASTOR OIL PLANT

| Woody weed | State | Method of application | Product – Note: Preferred option in bold letters. | Rate – Consult label for details of growth stage and use, especially where range of rates are given. |
|---|-----------------------|--------------------------------|---|--|
| CHINEE APPLE <i>Ziziphus mauritiana</i> | All | Basal bark and Cut stump | ACCESS | 1:60 with diesel distillate |
| | | Basal bark and Cut stump | GARLON 600 | 1:60 with diesel distillate |
| | Qld | Basal bark and Cut stump | STARANE 200 | 1:33 with diesel distillate |
| | Qld, WA | Foliar spray | GRAZON DS | 350 mL/100 L of water + surfactant |
| | Qld | Granule application – Hand | TORDON GRANULES | 35 to 45 g/m ² |
| CHINESE CELTIS <i>Celtis sinensis</i> | Qld | Basal bark | STARANE 200 | 3.5 L/100 L of diesel distillate |
| COCKSPUR THORN <i>Maclura cochinchinensis</i> | Qld, NSW, ACT | Aerial (helicopter only) | GRAZON DS | 1.5 L plus 6 L 2,4-D amine (625 g/L) |
| | All | Basal bark and Cut stump | ACCESS | 1:60 with diesel distillate |
| | Qld | Basal bark | STARANE 200 | 1:50 with diesel distillate |
| | All | Foliar spray | HOTSHOT | 700 mL/100 L of water |
| | Qld, NSW, ACT | Foliar spray | GRAZON DS | 350 mL/100 L of water |
| | Qld, NSW | Foliar spray | STARANE 200 | 500 mL/100 L of water |
| | Qld, NSW, ACT | Gas gun application | GRAZON DS | 500 mL/10 L of water |
| COCKY APPLE <i>Planchonia careya</i> | Qld, WA, NT | Granule application – Hand | GRASLAN | 2.0 g/m ² (20 kg/ha) – suppression |
| COMMON SENSITIVE PLANT <i>Mimosa pudica</i> | Qld, WA | Boom application | STARANE 200 | 1.5 L/ha + 1 L/ha Uptake |
| | Qld, WA, NT | Foliar spray | GRAZON DS | 200 mL/100 L of water + surfactant |
| | Qld, WA | Foliar spray | STARANE 200 | 500 mL/100 L of water + Uptake |
| CORKWOOD WATTLE <i>Acacia bidwillii</i> | All | Basal bark | ACCESS | 1:60 with diesel distillate |
| CORYMBIA <i>Corymbia</i> spp. | All | Basal bark and Cut stump | ACCESS | 1:60 with diesel distillate |
| | | Cut stump | TORDON DSH | 1:20 with water + surfactant |
| | | Stem injection | TORDON DSH | 1:4 with water |
| CREEPING LANTANA <i>Lantana montevidensis</i> | All | Foliar spray | GRAZON DS | 350 or 500 mL/100 L of water |
| | All | Foliar spray | HOTSHOT | 700mL/100 L of water |
| | Qld, NSW | Foliar spray | STARANE 200 | 500 mL/100 L of water |
| CROFTON WEED <i>Ageratina adenophora</i> | Qld, NSW, NT | Aerial (helicopter only) | GRAZON DS | 1.5 L + 6 L 2,4-D amine (625 g/L) |
| | All | Foliar spray | HOTSHOT | 700mL/100 L of water |
| | Qld, NSW, ACT | Foliar spray | GRAZON DS | 350 mL/100 L of water |
| | Qld, NSW | Foliar spray | STARANE 200 | 500 mL/100 L of water |
| | Qld, NSW, Vic. SA, WA | Foliar spray | TORDON 75-D | 650 mL/100 L of water |
| | Qld, NSW, ACT | Gas gun application | GRAZON DS | 500 mL/10 L of water |
| CURRANT BUSH <i>Carissa ovata</i> | Qld, NSW | Granule application – Hand | GRASLAN | 1.5 g/m ² (15 kg/ha) |
| DAWSON GUM (Blackbutt) <i>Eucalyptus cambageana</i> | Qld | Basal bark and Cut stump | GARLON 600 | 1:30 with diesel distillate |
| | | Granule application – Hand | GRASLAN | 1 g/m ² (10 kg/ha) |
| DEVIL'S FIG <i>Solanum torvum</i> | Qld, NSW, Vic, SA, WA | Foliar spray | TORDON 75-D | 650 mL/100 L of water |
| DOCKS <i>Rumex</i> spp. | All except NT | Controlled droplet application | GRAZON DS | Apply undiluted |
| | | Foliar spray | GRAZON DS | 350 or 500 mL/100 L of water |
| | All | Foliar spray | HOTSHOT | 700 mL/100 L of water |
| | Qld, NSW | Foliar spray | STARANE 200 | 500 mL/100 L of water |
| | Qld, NSW, Vic, SA, WA | Foliar spray | TORDON 75-D | 75 or 150 mL/100 L of water |



COCKSPUR THORN

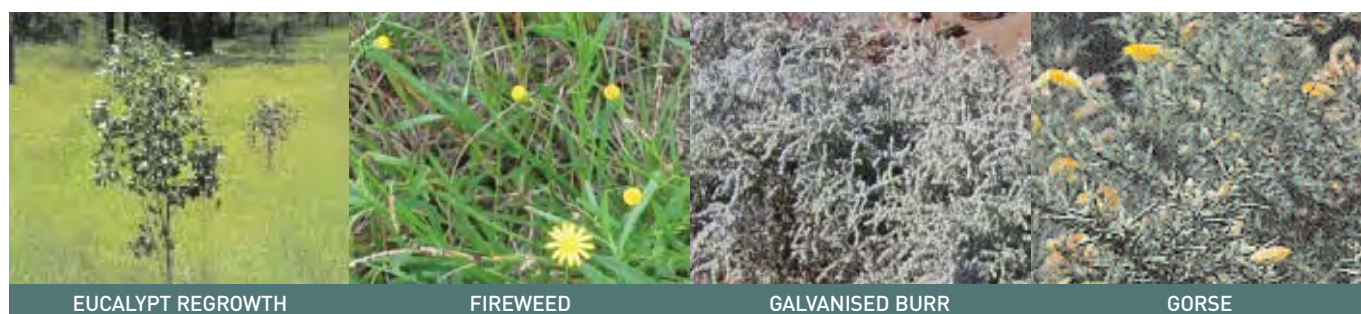
CREEPING LANTANA

CROFTON WEED

CURRANT BUSH

Ready reference table control guide

| Woody weed | State | Method of application | Product – Note: Preferred option in bold letters. | Rate – Consult label for details of growth stage and use, especially where range of rates are given. |
|--|----------------------------|----------------------------|---|--|
| EASTERN COTTON BUSH <i>Maireana microphylla</i> | NSW, Qld | Foliar spray | GRAZON DS | 500 mL/100 L of water + Uptake |
| ELLANGOWAN POISON BUSH <i>Eremophila deserti</i> | All | Basal bark and Cut stump | ACCESS | 1:60 with diesel distillate |
| ENGLISH IVY <i>Hedera helix</i> | Vic | Foliar spray | GARLON 600 | 1 L+1 L glyphosate (360 g/L) /100 L of water |
| EUCALYPT REGROWTH <i>Eucalyptus</i> spp. | SNSW, Vic, Tas | Foliar spray | GRAZON DS | 500 mL/100 L of water + surfactant |
| | NNSW, Qld, NT | Foliar spray | GRAZON DS | 350 mL/100 L of water + surfactant |
| | Qld, SA, WA, NT | Foliar spray | GARLON 600 | 400 mL/100 L of water |
| | NSW, Tas, Vic | Foliar spray | GARLON 600 | 560 mL/100 L of water |
| | Qld, NSW, Vic, SA, WA | Foliar spray | TORDON 75-D | 650 mL/100 L of water |
| | All | Basal bark and Cut stump | GARLON 600 | 1:60 or 1:30 with diesel distillate |
| | | Basal bark and Cut stump | ACCESS | 1:60 with diesel distillate |
| | | Cut stump | TORDON DSH | 1:20 in water + surfactant |
| | Qld, NSW, Vic, SA, WA | Cut stump | TORDON 75-D | 500 mL/10 L of water |
| | All | Gas gun application | GARLON 600 | 400 mL/10 L of water |
| | | Gas gun application | GRAZON DS | 335 mL/10 L of water |
| | Qld, NT | Granule application – Hand | GRASLAN | Check label for species controlled |
| Qld, NSW, Vic, SA, WA | Granule application – Hand | TORDON GRANULES | 35 to 45 g/m ² | |
| All | Stem injection | TORDON DSH | 1:4 in water | |
| FALSE SANDALWOOD <i>Eremophila mitchellii</i> | Qld, NSW | Granule application – Hand | GRASLAN | 2.0 g/m ² (20 kg/ha) – suppression |
| | All | Basal bark and Cut stump | ACCESS | 1:60 with diesel distillate |
| | | Basal bark and Cut stump | GARLON 600 | 1:60 with diesel distillate |
| FENNEL <i>Foeniculum vulgare</i> | Tas | Foliar spray | GARLON 600 | 170 mL/100 L of water |
| FIREWEED <i>Senecio madagascariensis</i> | All | Foliar spray | HOTSHOT | 500 mL/100 L of water |
| FLANNEL WEED <i>Sida cordifolia</i> | Qld | Foliar spray | STARANE 200 | 500 mL/100 L of water |
| GALENIA <i>Galenia pubescens</i> | NSW | Foliar spray | GRAZON DS | 500 mL/100 L of water |
| | | Boom application | GRAZON DS | 5 L/ha (apply in 200 L water/ha) |
| GALVANISED BURR <i>Sclerolavena bichii</i> | NSW, ACT, Qld | Foliar spray | 2,4-D AMINE 625 | 320 mL/100 L of water |
| GIANT BRAMBLE <i>Rubus alceifolius</i> | Qld, NT, WA | Foliar spray | GRAZON DS | 500 mL/100 L of water + surfactant |
| GIANT SENSITIVE PLANT <i>Mimosa invisa</i> | Qld, WA | Boom application | STARANE 200 | 1.5 L/ha + Uptake 1 L/ha |
| GIDGEE (over 100 ha) <i>Acacia cambagei</i> | Qld | Aerial application | GRASLAN AERIAL | Determined by Dow AgroSciences representative on inspection |
| GIDGEE | Qld | Granule application – Hand | GRASLAN | 1.0 g/m ² (10 kg/ha) |
| GORSE (Furze) <i>Ulex europaeus</i> | All except NT | Foliar spray | GRAZON DS | 250, 350 or 500 mL/100 L of water |
| | All | Foliar spray | GARLON 600 | 170 or 340 mL/100 L of water |
| | Vic | Foliar spray | TORDON 75-D | 500 mL/100 L of water |
| | NSW, Vic, Tas, SA | Foliar spray | TORDON DSH | 375 mL/100 L of water |
| | Tas | Aerial (helicopter only) | GRAZON DS | 10 L/ha |



EUCALYPT REGROWTH

FIREWEED

GALVANISED BURR

GORSE

| Woody weed | State | Method of application | Product – Note: Preferred option in bold letters. | Rate – Consult label for details of growth stage and use, especially where range of rates are given. |
|--|-----------------------|----------------------------|---|--|
| GREEN CESTRUM <i>Cestrum parqui</i> | All | Basal bark and Cut stump | ACCESS | 1:60 with diesel distillate |
| | Qld, NSW, Vic, SA, WA | Foliar spray | TORDON 75-D | 650 mL/100 L of water |
| | Qld, NSW, Vic | Foliar spray | GARLON 600 | 170 mL/100 L of water |
| | ACT, NSW, Qld | Foliar spray | GRAZON DS | 500 mL/100 L of water |
| GREEN WATTLE <i>Acacia decurrens</i> | All | Basal bark and Cut stump | GARLON 600 | 1:60 with diesel distillate |
| GREVILLEA <i>Grevillea</i> spp. | All | Basal bark and Cut stump | ACCESS | 1:60 with diesel distillate |
| GROUNDSEL <i>Senecio</i> sp. | NSW, Qld, ACT, SA | Foliar spray | 2,4-D AMINE 625 | 320 mL/100 L of water |
| | NSW, Qld, ACT, SA Tas | Boom application | 2,4-D AMINE 625 | 2.9 – 4.4 L/ha |
| GROUNDSEL BUSH <i>Baccharis halimifolia</i> | All | Basal bark and Cut stump | ACCESS | 1:60 with diesel distillate |
| | | Basal bark and Cut stump | GARLON 600 | 1:120 with diesel distillate |
| | Qld, NSW | Granule application – Hand | GRASLAN | 1.0 g/m ² (10 kg/ha) |
| | All except NT | Foliar spray | GRAZON DS | 250 or 350 mL/100 L of water |
| | All | Foliar spray | GARLON 600 | 160 or 320 mL/100 L of water |
| | Qld, NSW | Foliar spray | LONTREL | 330 or 500 mL/100 L of water |
| | | Foliar spray | TORDON 75-D | 650 mL/100 L of water |
| GUAVA <i>Psidium guajava</i> | All | Basal bark and Cut stump | ACCESS | 1:30 with diesel distillate |
| HARD MILKWOOD <i>Alstonia muelleriana</i> | All | Basal bark and Cut stump | ACCESS | 1:60 with diesel distillate |
| HARRISIA CACTUS <i>Harrisia martinii</i> | All | Foliar spray | ACCESS | 1:60 with diesel distillate |
| | Qld | Foliar spray | TORDON DSH | 1:40 with water |
| HAWTHORN <i>Crataegus monogyna</i> | All | Basal bark and Cut stump | ACCESS | 1:60 with diesel distillate |
| | Vic | Cut stump | TORDON 75-D | Apply undiluted |
| | All | Foliar spray | GRAZON DS | 500 mL/100 L of water |
| | Vic, SA | Foliar spray | 2,4-D AMINE 625 | 320 mL/100 L of water |
| HEARTLEAF POISON BUSH <i>Gastrolobium grandiflorum</i> | All | Basal bark and Cut stump | ACCESS | 1:60 with diesel distillate |
| HEXHAM SCENT <i>Melilotus indicus</i> | Qld, NSW | Foliar spray | STARANE 200 | 500 mL/100 L of water |
| HOLLY BUSH <i>Alectryon diversifolius</i> | Qld, NSW | Granule application – Hand | GRASLAN | 1.5 g/m ² (15 kg/ha) |
| HONEY LOCUST <i>Gleditsia triacanthos</i> | Qld, NSW | Basal bark and Cut stump | STARANE 200 | 1:20 with diesel distillate |
| | All | Basal bark and Cut stump | ACCESS | 1:60 with diesel distillate |
| | Qld, NSW | Foliar spray | STARANE 200 | 500 mL/100 L of water |
| HOREHOUND <i>Marrubium vulgare</i> | Tas | Foliar spray | GARLON 600 | 170 mL/100 L of water |
| | All | Foliar spray | GRAZON DS | 350 mL/100 L of water |
| INKWEED <i>Phytolacca octandra</i> | Qld, NSW, Vic, SA, WA | Foliar spray | TORDON 75-D | 500 mL/100 L of water |
| JAPANESE SUNFLOWER <i>Tithonia diversifolia</i> | Qld, NSW | Foliar spray | GRAZON DS | 350 mL/100 L of water |
| KHAKI WEED <i>Alternanthera pungens</i> | Qld, NSW, Vic, SA, WA | Foliar spray | TORDON 75-D | 650 mL/100 L of water |
| KITELEAF POISON <i>Gastrolobium laytonii</i> | All | Basal bark and Cut stump | ACCESS | 1:60 with diesel distillate |



GREEN CESTRUM

HARRISIA CACTUS

HEXAM SCENT

JAPANESE SUNFLOWER

Ready reference table control guide

| Woody weed | State | Method of application | Product – Note: Preferred option in bold letters. | Rate – Consult label for details of growth stage and use, especially where range of rates is given. |
|--|----------------------------|----------------------------|---|---|
| LANTANA <i>Lantana camara</i> | All | Foliar spray | GRAZON DS | 350 mL/100 L of water + adjuvant |
| | | Foliar spray | GRAZON DS | 500 to 750 mL/100 L of water |
| | All | Foliar spray | HOTSHOT | 500 to 700 mL/100 L of water |
| | | Qld, NSW | Foliar spray | STARANE 200 |
| | Qld, NSW, Vic, SA, WA | Foliar spray | TORDON 75-D | 650 mL/100 L of water |
| | NSW, Qld, ACT, SA | Foliar spray | 2,4-D AMINE 625 | 320 mL/100 L of water |
| | All | Basal bark and Cut stump | ACCESS | 1:60 with diesel distillate |
| | | Basal bark and Cut stump | GARLON 600 | 1:60 with diesel distillate |
| | Qld, NSW | Granule application – Hand | GRASLAN | 2.0 g/m ² (20 kg/ha) – suppression only |
| NSW, NT, Qld | Aerial (helicopter only) | GRAZON DS | 1.5 L + 6 L 2,4-D amine (625 g/L) | |
| | Aerial (helicopter only) | GRAZON DS | 10 L/ha | |
| LEUCAENA <i>Leucaena leucocephala</i> | All | Basal bark and Cut stump | ACCESS | 1:60 with diesel distillate |
| LIMEBUSH <i>Eremocitrus glauca</i> | All | Basal bark and Cut stump | ACCESS | 1:60 with diesel distillate |
| | Qld, NSW | Foliar spray | STARANE 200 | 1000 mL/100 L of water |
| | Qld, NT | Foliar spray | GRAZON DS | 350 mL/100 L of water + surfactant |
| | Qld | Foliar spray | TORDON 75-D | 1300 mL/100 L of water |
| | Qld, NSW | Gas gun application | STARANE 200 | 1000 mL/10 L of water |
| | | Granule application – Hand | GRASLAN | 1.0 g/m ² (10 kg/ha) |
| Qld | Granule application – Hand | TORDON GRANULES | 35 to 45 g/m ² | |
| LION'S TAIL <i>Leonotis nepetifolia</i> | Qld | Foliar spray | GRAZON DS | 200 mL/100 L of water + surfactant |
| MADEIRA VINE <i>Anredera cordifolia</i> | Qld, NSW | Foliar spray | STARANE 200 | 500 mL/100 L of water |
| MANUKA <i>Leptospermum scoparium</i> | Vic | Foliar spray | GRAZON DS | 500 mL/100 L of water + Pulse® |
| MARSHMALLOW <i>Malva parviflora</i> | All | Foliar spray | HOTSHOT | 700 mL/100 L of water |
| | Qld, NSW | Foliar spray | STARANE 200 | 500 mL/100 L of water |
| MAYNE'S PEST <i>Verbena aristigera</i> | Qld | Foliar spray | TORDON 75-D | 600 mL/100 L of water |
| MESQUITE (Algaroba) <i>Prosopis</i> spp. | All | Basal bark and Cut stump | ACCESS | 1:60 with diesel distillate |
| | Qld, NSW, NT, WA | Foliar spray | GRAZON DS | 350 mL/100 L of water + surfactant |
| MILKWEED <i>Euphorbia heterophylla</i> | Qld | Foliar spray | STARANE 200 | 1000 mL/100 L of water |
| MIMOSA BUSH <i>Acacia farnesiana</i> | Qld, WA | Basal bark and Cut stump | STARANE 200 | 1:33 with diesel distillate |
| | All | Basal bark and Cut stump | ACCESS | 1:60 with diesel distillate |
| MIMOSA PIGRA <i>Mimosa pigra</i> | NT | Aerial (dry season) | GRASLAN | 10.0 kg/ha |
| | NT, WA | Aerial (wet season) | STARANE 200 | 3 L/ha + Uptake 1 L/100 L |
| | | Foliar spray | STARANE 200 | 300 mL/100 L of water + Uptake |
| | NT | Granule application – Hand | GRASLAN | 1.0 g/m ² (10 kg/ha) |
| MISTFLOWER <i>Ageratina riparia</i> | NSW, NT, Qld | Aerial (helicopter only) | GRAZON DS | 1.5 L + 6 L 2,4-D amine (625 g/L) |
| | All | Foliar spray | HOTSHOT | 700 mL/100 L of water |
| | Qld, NSW | Foliar spray | STARANE 200 | 500 mL/100 L (seedlings/young plants) |
| | Qld, NSW, ACT | Foliar spray | GRAZON DS | 350 mL/100 L of water |
| | Qld, NSW, Vic, SA, WA | Foliar spray | TORDON 75-D | 650 mL/100 L of water |
| Qld, NSW, ACT | Gas gun application | GRAZON DS | 500 mL/10 L of water | |



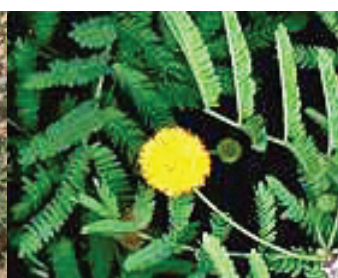
LANTANA



LIMEBUSH



MAYNE'S PEST



MIMOSA BUSH

| Woody weed | State | Method of application | Product – Note: Preferred option in bold letters. | Rate – Consult label for details of growth stage and use, especially where range of rates are given. |
|---|-------------------|----------------------------|---|--|
| MOTHER-OF-MILLIONS <i>Bryophyllum</i> spp. | Qld, NSW | Foliar spray | GRAZON DS | 500 mL/100 L of water + surfactant |
| | Qld, NSW | Foliar spray | STARANE 200 | 600 mL/100 L of water + surfactant |
| | NSW | Foliar spray | 2, 4-D AMINE 625 | 400 mL/100 L of water + surfactant |
| NARROWLEAF HOPBUSH <i>Dodonaea viscosa</i> ssp. <i>angustissima</i> | All | Basal bark and Cut stump | ACCESS | 1:60 with diesel distillate |
| | NSW | Basal bark and Cut stump | GARLON 600 | 1:60 with diesel distillate |
| NEEDLEWOOD <i>Hakea leucoptera</i> | All | Basal bark and Cut stump | ACCESS | 1:60 with diesel distillate |
| | | Basal bark and Cut stump | GARLON 600 | 1:60 with diesel distillate |
| NOOGOORA BURR <i>Xanthium pungens</i> | Qld, NSW | Boom application | TORDON 75-D | 1 L/ha |
| | Qld, NT, NSW, WA | Foliar spray | STARANE 200 | 75 mL/100 L of water |
| | Qld | Foliar spray | 2, 4-D AMINE 625 | 160 mL/100 L of water |
| OLEANDER <i>Nerium oleander</i> | All | Basal bark and Cut stump | ACCESS | 1:60 with diesel distillate |
| OLIVE <i>Olea europaea</i> | SA | Cut stump | GARLON 600 | 1:30 with diesel distillate |
| | NSW | Cut stump | GARLON 600 | 1:15 with diesel distillate |
| PADDY'S LUCERNE <i>Sida rhombifolia</i> | NSW | Foliar spray | GRAZON DS | 500 mL/100 L of water |
| PARKINSONIA (over 100 ha) <i>Parkinsonia aculeata</i> | Qld, NT | Aerial application | GRASLAN | Determined by Dow AgroSciences representative on inspection |
| PARKINSONIA <i>Parkinsonia aculeata</i> | All | Basal bark and Cut stump | ACCESS | 1:60 with diesel distillate |
| | Qld, NT | Aerial spray | GRAZON DS | 3 L/ha + 1 L/ha Uptake |
| | Qld, NT, WA | Foliar spray | GRAZON DS | 350 mL/100 L of water + Uptake |
| | Qld, NT | Granule application – Hand | GRASLAN | 1.5 g/m ² (15 kg/ha) |
| PARTHENIUM WEED <i>Parthenium hysterophorus</i> | Qld, NSW | Foliar spray | TORDON 75-D | 125 mL/100 L of water |
| | Qld | Foliar spray | 2, 4-D AMINE 625 | 320 mL/100 L of water |
| PATERSON'S CURSE <i>Echium plantagineum</i> | Qld, NSW, Vic, WA | Foliar spray | TORDON 75-D | 150 mL/100 L of water |
| | Qld, NSW, ACT, WA | Foliar spray | 2, 4-D AMINE 625 | 320 mL/100 L of water |
| PEPPERCORN TREE <i>Schinus molle</i> | All | Basal bark | ACCESS | 1:60 with diesel distillate |
| POPLAR BOX (PMP Principles) <i>Eucalyptus populnea</i> | Qld | Aerial application | GRASLAN AERIAL | Determined by Dow AgroSciences representative on inspection |
| POPLAR BOX <i>Eucalyptus populnea</i> | Qld | Granule application – Hand | GRASLAN | 1.0 g/m ² (10 kg/ha) |
| | All | Stem injection | TORDON DSH | 1:4 with water |
| | | Cut stump | TORDON DSH | 1:20 with water + surfactant |
| POPLAR GUM <i>Eucalyptus platyphylla</i> | Qld, WA, NT | Granule application – Hand | GRASLAN | 1.5 g/m ² (15 kg/ha) |
| PRICKLY ACACIA <i>Acacia nilotica</i> | All | Basal bark and Cut stump | ACCESS | 1:60 with diesel distillate |
| | Qld | Basal bark and Cut stump | STARANE 200 | 1:67 with diesel distillate |
| | All | Basal bark and Cut stump | GARLON 600 | 1:120 with diesel distillate |
| | Qld | Foliar spray | STARANE 200 | 750 mL/100 L of water + Uptake |
| | Qld, NT | Granule application – Hand | GRASLAN | 1.5 g/m ² (15 kg/ha) |
| PRICKLY PEAR (Common) <i>Opuntia stricta</i> | All | Foliar spray | GARLON 600 | 1:75 with diesel distillate |
| | | Foliar spray | ACCESS | 1:60 with diesel distillate |
| | | Foliar spray | GARLON 600 | 3 L/100 L of water |
| | | Foliar spray | GRAZON DS | 500 mL/100 L of water |
| PRIVET (Broadleaf) <i>Ligustrum lucidum</i> | All | Basal bark and Cut stump | GARLON 600 | 1:12 with diesel distillate |
| | | Basal bark and Cut stump | ACCESS | 1:30 with diesel distillate |
| PUNTY BUSH <i>Senna artemisioides</i> ssp. <i>filifolia</i> | All | Basal bark and Cut stump | ACCESS | 1:60 with diesel distillate |



MOTHER OF MILLIONS



PARKINSONIA



PRICKLY ACACIA



PRICKLY PEAR

Ready reference table control guide

| Woody weed | State | Method of application | Product – Note: Preferred option in bold letters. | Rate – Consult label for details of growth stage and use, especially where range of rates are given. |
|---|----------------------------|--------------------------------|---|--|
| QUENA <i>Solanum esuriale</i> | Qld, NSW, Vic, SA, WA | Foliar spray | TORDON 75-D | 650 mL/100 L of water |
| RAGWORT <i>Senecio jacobaea</i> | Qld, NSW, WA | Boom application | TORDON 75-D | 3.5 L/ha |
| | Vic, SA | Boom application | TORDON 75-D | 4 L/ha |
| | All except NT | Controlled droplet application | GRAZON DS | Apply undiluted |
| | | Foliar spray | GRAZON DS | 350 or 500 mL/100 L of water |
| | Qld, NSW, WA, Vic | Foliar spray | TORDON 75-D | 300 mL/100 L of water |
| | SA | Foliar spray | TORDON 75-D | 150 mL/100 L of water |
| Vic, Tas | Granule application – Hand | TORDON GRANULES | 2 g per plant – WEEDSTICK | |
| RED ASH (White Myrtle) <i>Alphitonia excelsa</i> | All | Basal bark and Cut stump | ACCESS | 1:60 with diesel distillate |
| RUBBERVINE (Open flats) <i>Cryptostegia grandiflora</i> (Not infected with rust) | Qld, NT | Aerial application | GRASLAN AERIAL | Determined by Dow AgroSciences representative on inspection |
| | | Granule application – Hand | GRASLAN | 1.5 g/m ² (15 kg/ha) |
| | Qld, NT, WA | Foliar spray | GRAZON DS | 350 or 500 mL/100 L of water |
| | Qld | Foliar spray | TORDON 75-D | 1300 mL/100 L of water |
| | Qld, NT | Aerial (helicopter only) | GRAZON DS | 3 to 5 L/ha (for further information contact Tropical Weeds Research Centre, Charters Towers) |
| RUBBERVINE (Isolated plants) <i>Cryptostegia grandiflora</i> | All | Basal bark and Cut stump | ACCESS | 1:60 with diesel distillate |
| | All | Basal bark and Cut stump | GARLON 600 | 1:60 with diesel distillate |
| | Qld, NT | Granule application – Hand | GRASLAN | 1.5 g/m ² (15 kg/ha) |
| RUSSIAN KNAPWEED (creeping Knapweed) <i>Acroptilon repens</i> | Qld, Vic | Foliar spray | LONTREL | 500 mL/100 L of water |
| | Qld, NT, WA | Foliar spray | TORDON 75-D | 1.3 to 2 L/100 L of water |
| | Qld | Boom application | LONTREL | 4 L/ha |
| SENSITIVE PLANT (Giant) <i>Mimosa invisa</i> | Qld, NT | Foliar spray | GRAZON DS | 200 mL/100 L of water |
| | Qld, WA | Boom application | STARANE 200 | 1.5 L/ha + 1L/ha Uptake |
| SESBANIA PEA <i>Sesbania cannabina</i> | Qld, NSW | Boom application | TORDON 75-D | 1 L/ha |
| SIAM WEED <i>Chromolaena odorata</i> | Qld, WA | Foliar spray | GRAZON DS | 350 mL/100 L of water + surfactant |
| SICKLEPOD <i>Senna obtusifolia</i> | Qld | Boom application | TORDON 75-D | 700 mL to 1.5 L/ha + 800 mL/ha 2,4-D amine [625 g/L] |
| | Qld, NT | Boom application | GRAZON DS | 3 L/ha + surfactant |
| | Qld | Foliar spray | TORDON 75-D | 300 mL/100 L of water |
| | Qld, NT, WA | Foliar spray | GRAZON DS | 200 mL/100 L of water + surfactant |
| SIDA <i>Sida</i> spp. | Qld, NT, NSW, WA | Foliar spray | STARANE 200 | 1000 mL/100 L of water |
| SIFTON BUSH (Chinese Shrub) <i>Cassinia arcuata</i> | NSW, ACT | Foliar spray | GRAZON DS | 500 mL/100 L of water + surfactant |
| | Vic | Foliar spray | TORDON 75-D | 650 mL/100 L of water |
| SILVERLEAF NIGHTSHADE <i>Solanum elaeagnifolium</i> | NSW, Vic, SA | Foliar spray | TORDON 75-D | 650 mL/100 L of water |
| | | Boom application | TORDON 75-D | 15 L/ha |
| | NSW | Boom application | STARANE 200 | 750 mL/ha + 1 L/ha Uptake |
| SILVER WATTLE <i>Acacia dealbata</i> | All | Basal bark and Cut stump | ACCESS | 1:60 with diesel distillate |
| | | Basal bark and Cut stump | GARLON 600 | 1:60 with diesel distillate |
| | NSW, Vic, Tas | Boom application | LONTREL | 5 to 8.5 L/ha+Ulvapron® (200 L water/ha) |
| | All | Foliar spray | GARLON 600 | 160 or 320 mL/100 L of water |
| | NSW, Vic, Tas | Foliar spray | LONTREL | 500 mL/100 L of water |



RAGWORT



RUBBERVINE

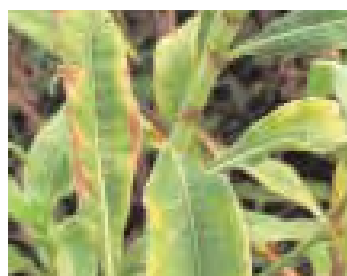


SIDA



SILVERLEAF NIGHTSHADE

| Woody weed | State | Method of application | Product – Note: Preferred option in bold letters. | Rate – Consult label for details of growth stage and use, especially where range of rates are given. |
|---|----------------------------|--------------------------------|---|--|
| SISAL HEMP <i>Agave</i> spp. | All | Basal bark | ACCESS | 1:60 with diesel distillate |
| | Qld | Foliar spray | STARANE 200 | 1:33 with diesel distillate |
| | | Stem injection | STARANE 200 | 10 mL undiluted / plant |
| SMARTWEED <i>Persicaria lapathifolia</i> | All except NT | Foliar spray | GRAZON DS | 350 or 500 mL/100 L of water |
| | Qld, NSW, Vic, SA, WA | Foliar spray | TORDON 75-D | 150 mL/100 L of water |
| SMOOTH TREE PEAR <i>Opuntia monacantha</i> | All | Foliar spray | GARLON 600 | 1:75 with diesel distillate |
| | | Foliar spray | GRAZON DS | 500 mL/100 L of water |
| SNAKE CACTUS <i>Peniocereus serpentinus</i> | All | Foliar spray | ACCESS | 1:60 with diesel distillate |
| SNAKEWEED <i>Stachytarpheta</i> spp. | Qld | Foliar spray | STARANE 200 | 750 mL/100 L water + Uptake |
| | Qld | Foliar spray | 2, 4-D AMINE 625 | 320 mL/100 L of water |
| SPINY EMEX <i>Emex australis</i> | Qld, NSW | Foliar spray | TORDON 75-D | 300 mL/100 L of water |
| SPINYHEAD SIDA <i>Sida acuta</i> | Qld, WA | Boom application | STARANE 200 | 1.5 L/ha + Uptake 1 L/ha |
| STINKING PASSION FLOWER <i>Passiflora foetida</i> | Qld, NT, WA | Foliar spray | STARANE 200 | 450 mL/100 L of water |
| STINKING ROGER <i>Tagetes minuta</i> | Qld, NSW | Boom application | TORDON 75-D | 1 L/ha |
| ST. JOHN'S WORT <i>Hypericum perforatum</i> | All | Foliar spray | GRAZON DS | 500 mL/100 L of water |
| | All | Foliar spray | HOTSHOT | 700 mL/100 L of water |
| | Qld, ACT, NSW, SA, Vic, WA | Foliar spray | TORDON 75-D | 500 mL/100 L of water |
| | NSW | Boom application | GRAZON DS | 2 to 4 L/ha |
| | ACT, NSW, Vic | Boom application | STARANE 200 | 3 L/ha (200 L of water/ha) |
| | NSW, Qld, ACT, WA, Vic | Boom application | ESTERON LV | 3.26 – 4.68 L/ha |
| | All except NT | Controlled droplet application | GRAZON DS | Apply undiluted |
| | NSW, Tas, Vic | Gas gun application | GRAZON DS | 500 mL/10 L of water |
| | NSW | Aerial (helicopter only) | GRAZON DS | 4 L/ha |
| SWEET BRIAR <i>Rosa rubiginosa</i> | All except NT | Foliar spray | GRAZON DS | 350 mL + 10 g metsulfuron/100 L of water |
| | | Foliar spray | GRAZON DS | 500 mL/100 L of water |
| | Qld, NSW, Vic, SA, WA | Foliar spray | TORDON 75-D | 650 mL/100 L of water |
| | | Basal bark and Cut stump | ACCESS | 1:60 with diesel distillate |
| | All | Basal bark and Cut stump | GARLON 600 | 1:30 with diesel distillate |
| | | NSW | Gas gun application | GRAZON DS |
| Vic, Qld, SA, WA | Granule application – Hand | TORDON GRANULES | 35 to 45 g/m ² | |
| TEA-TREE <i>Melaleuca</i> spp. | Qld, NT | Aerial application | GRASLAN AERIAL | Determined by Dow AgroSciences representative on inspection |
| | All | Basal bark and Cut stump | GARLON 600 | 1:60 with diesel distillate |
| | | Basal bark and Cut stump | ACCESS | 1:60 with diesel distillate |
| | | Stem injection | TORDON DSH | 1 to 4 with water |
| | Qld, NT, WA | Granule application – Hand | GRASLAN | 1.5 g/m ² along fence lines |



SMARTWEED



ST. JOHN'S WORT



SWEET BRIAR



TEA-TREE

Ready reference table control guide

| Woody weed | State | Method of application | Product – Note: Preferred option in bold letters. | Rate – Consult label for details of growth stage and use, especially where range of rates are given. |
|--|------------------------|--------------------------------|---|--|
| THISTLES <i>Cirsium</i> spp., <i>Carthamus</i> spp. | NSW, Vic, Tas, SA, Qld | Boom application | LONTREL | 50 or 70 mL/ha + 1 or 1.5 L/ha MCPA amine (500 g/L) |
| | All except NT | Controlled droplet application | GRAZON DS | Apply undiluted |
| | All | Foliar spray | HOTSHOT | 500 mL/100 L of water |
| | NSW, Vic, Tas, SA, Qld | Foliar spray | LONTREL | 250 mL/100 L of water |
| | All except NT | Foliar spray | GRAZON DS | 350 or 500 mL/100 L of water |
| THORNAPPLE <i>Datura</i> spp. | Qld, NSW | Foliar spray | TORDON 75-D | 150 to 300 mL/100 L of water |
| | Qld | Foliar spray | 2,4-D AMINE 625 | 320 mL/100 L of water |
| | Qld, NSW | Boom application | TORDON 75-D | 1 L/ha |
| TIGER PEAR <i>Opuntia aurantiaca</i> | All | Foliar spray | GARLON 600 | 3 L/100 L of water |
| | | Foliar spray | ACCESS | 1:60 with diesel distillate |
| | | Foliar spray | GARLON 600 | 1:75 with diesel distillate |
| TOBACCO WEED <i>Elephantopus scaber</i> | Qld, NT, WA | Foliar spray | GRAZON DS | 300 mL/100 L of water + surfactant |
| TREE-OF-HEAVEN <i>Ailanthus altissima</i> | All | Basal bark and Cut stump | ACCESS | 1:60 with diesel distillate |
| | | Basal bark and Cut stump | GARLON 600 | 1:60 with diesel distillate |
| | Qld, NSW, Vic, SA, WA | Foliar spray | TORDON 75-D | 650 mL/100 L of water |
| TREE PEAR <i>Opuntia tomentosa</i> | All | Foliar spray | ACCESS | 1:60 with diesel distillate |
| TREE VIOLET <i>Hymenanthera dentata</i> | NSW | Gas gun application | STARANE 200 | 1000 mL/10 L of water |
| TURPENTINE <i>Syncarpia glomulifera</i> | All | Basal bark and Cut stump | ACCESS | 1:60 with diesel distillate |
| TURPENTINE BUSH <i>Eremophila sturtii</i> | NSW | Basal bark and Cut stump | GARLON 600 | 1:60 with diesel distillate |
| | All | Basal bark and Cut stump | ACCESS | 1:60 with diesel distillate |
| VELVET MESQUITE <i>Prosopis velutina</i> | Qld | Foliar spray | GRAZON DS | 670 mL/100 L of water |
| VINES & LEGUMES | Qld | Foliar spray | STARANE 200 | 500 mL/100 L of water |
| WANDERING JEW <i>Tradescantia fluminensis</i> | All | Foliar spray | STARANE 200 | 1500 mL/100 L of water |
| WATTLES <i>Acacia</i> spp. (Consult label for species and growth stage) | All | Basal bark and Cut stump | GARLON 600 | 1:60 with diesel distillate |
| | | Basal bark and Cut stump | ACCESS | 1:60 with diesel distillate |
| | | Cut stump | TORDON DSH | 1:20 with water + surfactant |
| | | Foliar spray | GRAZON DS | 350 mL/100 L of water |
| | | Foliar spray | GARLON 600 | 160 or 320 mL/100 L of water |
| | Qld, NSW | Foliar spray | HOTSHOT | 700 mL/100 L of water |
| | All except Qld | Foliar spray | STARANE 200 | 500 or 1000 mL/100 L of water |
| WHITEWOOD <i>Atalaya hemiglauca</i> | All | Basal bark and Cut stump | ACCESS | 1:60 with diesel distillate |
| | Qld, NSW, NT | Granule application – Hand | GRASLAN | 1.0 g/m ² (10 kg/ha) |
| WILD ORANGE <i>Capparis canescens</i> | All | Basal bark only | ACCESS | 1:60 with diesel distillate |



THISTLE

TIGER PEAR

TREE OF HEAVEN

WANDERING JEW

| Woody weed | State | Method of application | Product – Note: Preferred option in bold letters. | Rate – Consult label for details of growth stage and use, especially where range of rates are given. |
|--|---------------|----------------------------|---|--|
| WILD PEACH <i>Prunus persica</i> | All | Basal bark and Cut stump | ACCESS | 1:60 with diesel distillate |
| WILD ROSEMARY <i>Cassinia laevis</i> | All | Basal bark and Cut stump | ACCESS | 1:60 with diesel distillate |
| | Qld, NSW | Granule application – Hand | GRASLAN | 1.5 g/m ² (15 kg/ha) |
| | Qld | Foliar spray | GRAZON DS | 350 to 500 mL/100 L of water |
| WILD TOBACCO TREE <i>Solanum mauritianum</i> | All | Cut stump only | ACCESS | 1:60 with diesel distillate |
| | Qld, NSW, ACT | Foliar spray | GRAZON DS | 350 mL/100 L of water |
| | Qld | Foliar spray | TORDON 75-D | 650 mL/100 L of water |
| | Qld, NSW, ACT | Gas gun application | GRAZON DS | 500 mL/10 L of water |
| WILGA <i>Geijera parviflora</i> | All | Basal bark and Cut stump | ACCESS | 1:60 with diesel distillate |
| WILLOW <i>Salix</i> spp. | All | Cut stump only | ACCESS | 1:15 with diesel distillate |
| YELLOW BELLS <i>Tecoma stans</i> | All | Basal bark and Cut stump | ACCESS | 1:60 with diesel distillate |
| YELLOW WOOD <i>Terminalia oblongata</i> | Qld | Basal bark and Cut stump | GARLON 600 | 1:30 with diesel distillate |
| | | Granule application – Hand | GRASLAN | 1.0 g/m ² (10 kg/ha) |
| ZAMIA PALM <i>Cycas</i> spp. | Qld | Stem injection | TORDON 75-D | 1:3 with water; 1 mL/2.5 cm diameter |



WHITEWOOD



WILD TOBACCO TREE



WILGA



WILLOWS

WEED IDENTIFICATION

Following is a list of other weed identification resources that can help you to correctly identify the correct species of weed you are trying to treat.

Weed Identification References

- Noxious Weeds of Australia (Second Edition) – Parsons & Cuthbertson
- Plants of Western NSW – Cunningham, Mulham, Milthorpe, Leigh
- Weeds of Southern Queensland (2nd Edition) – Dight, Huggins, Lucy, Zerner
- Plants of Central Queensland – Anderson QDPI
- Poisonous Plants of Australia – Everist



The Woody Weed Specialists.



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