

Darwin Regional Weeds Strategy 2021-2026





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Cover photo: Siam weed in flower

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Introduction

Weeds have major economic, environmental and social impacts in Australia, causing damage to natural, economic and cultural assets. In the present day, weeds are spreading around the globe at an ever-increasing rate, primarily through human activities and related economic development.

The Darwin Region covers an area of more than 150,000 km2 of the Top End, including the city of Darwin, south to (just north of) Pine Creek, east to Arnhem Land and Nhulunbuy, and west to the Timor Sea. It also incorporates the Tiwi Islands and Groote Eylandt (see Figure 1).

In the Darwin Region, there is a continued risk of introduction of new weeds and spread of existing weeds by the deliberate and accidental actions of people. For example, weeds can escape from gardens, be accidentally transported with livestock, be spread by slashers and be sold in hay or landscaping products. While these risks are ongoing, their impacts can be mitigated and reduced by strategic management.

Purpose

The purpose of the Darwin Regional Weeds Strategy (the Strategy) is to set out a strategic approach for the Northern Territory Government and key stakeholders to reduce the adverse impact of weeds in the Darwin Region over the period 2021-2026. It succeeds the Darwin Regional Weed Management Plan 2015-2020.

Aims

The Strategy aims to protect the Darwin Region's natural, economic and cultural assets from the adverse impacts of weeds by:

- Identifying the principal weed threats to the Darwin Region and describing best practice weed management strategies to mitigate these threats.
- Providing clear regional weed management priorities through an evidence-based consultative decision making process.
- Providing clear, achievable and measurable regional management actions/goals.

Development principles

The Strategy has been developed in line with the Department of Environment, Parks and Water Security (DEPWS) Strategic Plan 2021-24, and the Australian Weeds Strategy 2017-27, as well as the Northern Territory Biosecurity Strategy 2016-2026. These documents highlight the importance of coordination and consultation amongst landholders and other stakeholders for effective weed management at a landscape scale. These concepts underpin the development of this Strategy and can be described as a 'working together' approach.



Figure 1. Weed Management Regions of the Northern Territory (NT Weed Management Branch 2020).

DEPWS Strategic Plan (2021–2024)

The DEPWS Strategic Plan (2021–24) provides a clear vision to use evidence-based advice and regulation to support the sustainable use of the Northern Territory's natural resources, and to protect and present our wildlife, parks and reserves. There are four goals that are directly relevant to the Strategy and a range of strategies that can be used in order to realise these goals. In relation to weed management, the goals and strategies fall into three broad classes:

- supporting sustainable economic development;
- fostering and strengthening partnerships;
- protecting and managing our natural assets.

The Strategy has incorporated the goals and strategies of the DEPWS Strategic Plan into its development.

Australian Weeds Strategy (2017-2027)

The Australian Weeds Strategy (2017-2027) (AWS) identifies seven key principles that underpin effective weed management in Australia. It recommends that these principles be used to guide cost-effective weed management planning, investment and actions:

- Effective weed management is a responsibility shared between landholders, community, industry and government.
- Evidence-based decision-making should underpin the approach to weeds.
- Risk-based prevention and early intervention is generally the most cost-effective approach for managing weeds.
- Prioritisation of weed management must be informed by a risk-based approach, considering feasibility, likelihood of success and impact.
- Coordination amongst landholders, community, industry and government is necessary to manage weeds at a landscape scale.
- Sustaining capability and capacity across landholders, community, industry and government is fundamental to effective weed management.
- Individuals, organisations and industry groups that create risks that may result in a weed entering, emerging, establishing or spreading in Australia have a role in minimising the impacts and contributing to the costs of management.

These seven principles have been used to guide the development of this strategy.

Northern Territory Biosecurity Strategy (2016-2026)

The Northern Territory Biosecurity Strategy 2016-2026 (NTBS) recognises that minimising the threat and impact of pests and diseases to the Northern Territory is a responsibility that all Territorians share. Success in achieving good biosecurity outcomes is only possible with the cooperation and joint commitment from all stakeholders and the community. It identifies three fronts that biosecurity, including weed management, must address to reduce the impacts of pests:

- Prevention minimising the likelihood of entry and establishment of new pests.
- Elimination detecting, containing and eradicating significant pests.
- Management reducing the impact of established pests on the economy, environment and community.

Activities included in this Strategy also contribute and link directly to the goals and purpose of the NTBS.



'Working together' approach

A 'working together' approach is one way of describing the importance of making shared partnerships the central pillar of this Strategy. The DEPWS Strategic Plan, AWS and NTBS emphasise the need for fostering effective coordination between stakeholders, community and government to achieve effective weed management at a landscape scale. This is why consultation with key stakeholders in the Darwin Region has been integral to its development. This Strategy also links to the Northern Territory NRM Plan (Top End Region) which provides an overarching direction, scope and prioritisation for natural resource management activities within the Region (see territorynrm.org.au).

Key stakeholders

There are numerous opportunities in the Darwin Region for a wide range of stakeholders to discuss and collaborate on regional priorities and weed management-related topics. For example, a statutory weed advisory committee was formed in 2020 to draft the new Weed Management Plan for Gamba Grass 2020-2030. Targeted consultation for this Strategy was conducted with key stakeholders and a comprehensive list of those with an interest in weed management is presented in the table below.

Table 1: Key stakeholders consulted in the development of this Strategy

Key stakeholder group	Name
Australian Government	Department of Defence
Northern Territory Government	Department of Environment, Parks and Water Security: Weed Management Branch Bushfires NT
	Flora and Fauna Parks and Wildlife Department of Industry, Tourism and Trade Department of Infrastructure, Planning and Logistics Road Network
	Crown Land Estate NT Police, Fire & Emergency Services, Fire and Rescue Service
Local Government	Local Government Association of the NT City of Darwin City of Palmerston Litchfield Council Coomalie Community Government Council Tiwi Islands Regional Council West Daly Regional Council Victoria Daly Regional Council East Arnhem Regional Council West Arnhem Regional Council West Arnhem Regional Council West Arnhem Regional Council West Arnhem Regional Council Belyuen Community Government Council Wagait Shire Council
Aboriginal Land Trust	Northern Land Council Tiwi Land Council Anindilyakwa Land Council Aboriginal Ranger Groups
Environment and community	Pew Charitable Trust (Gamba Grass Roots) Environment Centre NT North East Arnhem Region – Weeds Group
Landcare / Natural Resource Management	Landcare NT Territory Natural Resource Management (TNRM)
Industry	NT Cattlemen's Association (NTCA) – Top End Branch NT Farmers NT Nursery and Garden Industry
Education and research	Charles Darwin University
Private landholders	Town and rural block holders

Weed legislation

There are legal requirements for land managers and land occupiers in the Northern Territory in relation to declared weeds. These requirements are described in the *Weeds Management Act 2001*. Some weeds have statutory weed management plans, which describe additional legal requirements for these species.

Weeds Management Act 2001

The Weeds Management Act 2001 describes the legal requirements and responsibilities that apply to land owners and land occupiers regarding declared weeds.

The general duties are described in section 9 and include the requirement to take all reasonable measures to prevent land being infested with a declared weed and to prevent a declared weed from spreading.

There are additional duties including a prohibition on buying, selling, cultivating, moving or propagating any declared weed, and the requirement to notify the Weed Management Branch of a declared weed not previously present on the land within 14 days of detection.

Statutory weed management plans

All landholders must also meet the management requirements described in statutory weed management plans. A statutory weed management plan establishes and clearly articulates the objectives, management requirements and management actions to be achieved by landholders for a specific declared weed. The Minister responsible for the *Weeds Management Act 2001* approves statutory weed management plans.

There are eight statutory weed management plans relevant to the Darwin Region:

- 1. Bellyache bush
- 2. Cabomba
- 3. Chinee apple
- 4. Gamba grass
- 5. Grader grass
- 6. Mimosa
- 7. Neem
- 8. Prickly acacia

This Strategy should be considered in conjunction with these statutory weed management plans. They can be viewed on the Northern Territory
Government website: visit the relevant species page for
further information:

Bellyache bush	nt.gov.au/bellyachebush
Cabomba	nt.gov.au/cabomba
Chinee apple	nt.gov.au/chineeapple
Gamba grass	nt.gov.au/gamba
Grader grass	nt.gov.au/gradergrass
Mimosa	nt.gov.au/mimosa
Neem	nt.gov.au/neem
Prickly acacia	nt.gov.au/pricklyacacia

Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act)

In 2009 the Australian Government Department of Agriculture, Water and the Environment listed 'Ecosystem degradation, habitat loss and species decline due to invasion of northern Australia by introduced Gamba Grass (Andropogon gayanus), Para Grass (Urochloa mutica), Olive Hymenachne (Hymenachne amplexicaulis), Mission Grass (Cenchrus polystachios) and Annual Mission Grass (Cenchrus pedicellatus)' as a 'key threatening process' under the EPBC Act. Subsequently, in 2012, a national threat abatement plan was developed to reduce the impacts on northern Australia's biodiversity by the five listed grasses.

Threat abatement plans describe the research, management, and any other actions necessary to reduce the impact of a listed key threatening process on native species and ecological communities.

Local government by-laws

Some NT local government authorities (e.g. City of Darwin) have by-laws addressing weeds (and other plants) that tend to be enforced to address overgrown, unsightly and hazardous vegetation. Councils may also have site-specific management plans for important areas.



Weed Data

Spatial data

The Weed Management Branch routinely provides maps including the current and historic distribution records of priority weeds to assist stakeholders with strategic weed management planning. Maps of some priority species in the Darwin Region have been included in this Strategy; data and maps for other species are available on request. A subset of the weed data can also be viewed online with the NTG's web mapping tool NR Maps (see nrmaps.nt.gov.au).

Special care must be taken when interpreting distribution maps and data. For example, data for some species (particularly non-declared weeds) is not routinely collected and so maps for these species may under represent their true range. Other species may have been the target of local or regional control programs and so the map may include locations where adult plants have been managed in the past. In some cases, there may be some uncertainty as to whether there are seeds in the soil or whether regeneration has occurred at that location. The conservative approach is to include historic data as presence (which may overestimate the true extent) until there is sufficient evidence to conclude that local eradication has been achieved.

Weed risk assessment

Historically, decisions on weed management have frequently been based on perceptions or emotions, which is not necessarily a sound basis for determining long-term strategic priorities. Three of the seven principles of the Australian Weeds Strategy (2017-2027) refer to the importance of evidence-based decision making, risk-based prevention and risk-based prioritisation for effective weed management.

In order to provide an evidence basis to decisions regarding strategic weed management, in line with other Australian jurisdictions and the AWS, the Northern Territory Government (in collaboration with other stakeholders including industry, community and research organisations) developed a NT Weed Risk Management System (WRMS).

The WRMS is a process that uses evidence to assess and rank the relative weed risk and feasibility of control for different weed species in the Northern Territory. Weed risk assessments involve an assessment of evidence and are made by a panel of experts from several government departments.

The WRMS user guide describes the development of the WRMS, its purpose and application and how assessments are undertaken. It lists the questions used for assessments and includes a section on using the results to assist with determining strategic priorities. The user guide is available on request. Contact the NT Weed Management Branch at weedinfo@nt.gov.au if you would like a copy.

Outputs from the WRMS, including results for individual species assessments and management matrices (see Appendix A), were used to inform species prioritisation for this Strategy.

The Strategy

The development of this Darwin Regional Weeds Strategy started with asking questions about weed management including:

- 1. What priorities and actions were in previous weed plans for the Region?
- 2. What are our priority weeds and where are they located?
- 3. What are our objectives for regional weed management and do we have the time and money to succeed?
- 4. What actions are most appropriate to achieve our objectives?

In order to effectively utilise the limited resources available to the Region to manage weeds, this Strategy identifies regional priorities in the following three areas:

- 1. Priority weeds
- 2. Priority landscape areas
- 3. Priority pathways of spread

Priority Weeds

Developing the priority lists

Weed species that are listed as requiring priority management attention within the Region were determined using one or more of the following criteria:

- a. subject to a statutory weed management plan
- b. listed as a Weed of National Significance
- c. weed risk assessment concluded the species to be a high or very high risk to the Northern Territory
- d. weed risk at the regional level confirmed by local expert knowledge
- e. strategic management of isolated or core infestations regarded as feasible by local expert knowledge.

The priority weeds to be the focus for the Darwin Regional Weeds Strategy are listed in Tables 2 and 3, and maps for these species are provided in Appendix B.

Note that some weeds identified as priorities in this Strategy are not listed as declared weeds under the *Weeds Management Act 2001*. This reflects community/scientific expectations and concerns about a range of current and emerging weed threats to the Region not restricted to the declared weed list.

Category 1 – Priority weeds for eradication

These species are (or were) present in the Darwin Region and have been assessed as feasible to eradicate. They are typically evaluated as very high risk and have isolated and restricted distributions.

Table 2: Priority weeds for eradication in the Darwin Region

Common name	Botanical name	NT Declared class	Weed Risk (NT)
Cabomba	Cabomba caroliniana	A	High
Pond Apple	Annona glabra	A	Very high
Water hyacinth	Eichhornia crassipes	A	Very high
Sagittaria	Sagittaria platyphylla	A	High
Rubber vine	Cryptostegia grandiflora	A	Very high
Water mimosa	Neptunia plena	A	High

Category 2 - Priority weeds for strategic control (including eradication of outliers)

These species warrant strategic control across the landscape due to their high impact on land managers, other economic and environmental values. Typically assessed as very high weed risk. The key for these species is that outlier populations are practical to eradicate, but there are core infestations that are subject to control and containment. They are typically covered by

Table 3. Priority weeds for strategic control (including eradication of outliers)

Common name	Botanical name	NT Declared class	Weed Risk (NT)		
Siam Weed	Chromolaena odorata	С	Very high		
Mimosa	Mimosa pigra	*A/B	Very high		
Gamba grass	Andropogon gayanus	*A/B	Very high		
Ornamental rubber vine	Cryptostegia madagascariensis	A	Very high		
Bellyache bush	Jatropha gossypiifolia	*A/B	Very high		
Grader grass	Themeda quadrivalis	В	Very high		
Salvinia	Salvinia molesta	В	Very high		
Olive hymenachne	Hymenachne amplexicaulis	В	Very high		
Parkinsonia	Parkinsonia aculeata	В	Very high		
Perennial mission grass	Cenchrus polystachios	В	Very High		

^{*}Species with zoned declarations (A/B) have zones that reflect the distribution and abundance of the weed and inform strategic management. Local eradication is a higher priority in Zone A, while containment and eradication of outliers is the objective in Zone B.

Category 3 – Weeds of concern

These species have been assessed by the weed risk management system as a medium to very high risk (or have not been assessed) and have been identified by stakeholders as posing a threat to the values of the Darwin Region. The list is not comprehensive. There are no plans or strategies to manage any one of them as a species across the landscape. They are typically managed on a site basis and to prevent further spread. In some cases there may be local strategies to manage these weeds.

Table 4. Weeds of Concern

Common name	Botanical name	NT Declared class	Weed Risk (NT)
Cats claw creeper	Dolichandra unguis-cati	А	Not assessed
Lantana	Lantana camara	В	Very high
Thatch grass	Hyparrhenia rufa	А	High
Chinee apple	Ziziphus mauritiana	А	Very high
Mesquite	Prosopis spp.	A	Very high
Prickly acacia	Vachellia nilotica	А	Very high
Annual mission grass	Cenchrus pedicellatus	Not declared	Very high
Giant rats tail grass	Sporobolus pyramidalis	Not declared	High
American rats tail grass	Sporobolus jacquemontii	Not declared	High
Coffee bush ¹	Leucaena leucocephala	Not declared	Very high
Para grass²	Urochloa mutica	Not declared	Very high
Tully grass	Urochloa humidicola	Not declared	Very high
Guinea grass	Megathyrus maximus	Not declared	Very high
Neem	Azadirachta indica	В	Very high
Curry bush	Murraya koenigii	Not declared	Not assessed
Ochna	Ochna integerrima, O. serrulata	Not declared	Not assessed
lvy gourd ³	Coccinea grandis	Not declared	Not assessed
African mahogany	Khaya senegalensis	Not declared	Medium

¹ Coffee bush, or leucaena, is increasing in popularity as a fodder species. If left ungrazed or unmanaged, leucaena has the potential to form dense thickets which can be difficult and time-consuming to eradicate. A producer group, the Leucaena Network, is currently revising its Best Management Code of Practice for the establishment and management of leucaena pastures.

² Although not a declared weed in the Northern Territory, para grass is one of five invasive pasture grasses listed as a key threatening process by the Australian Government and is subject to a national threat abatement plan (see p7).

³ Ivy gourd is considered to be native to East Arnhem Land by the NT Herbarium and introduced elsewhere in the NT. It is cultivated as a vegetable from SE Asia in local gardens and has escaped around urban and periurban areas in the Darwin region. It has the potential to invade other areas (e.g. Kakadu National Park).

Category 4 - Hygiene and biosecurity weeds

These species are typically evaluated as low risk; however, they do still have local impacts. There are no strategies in place for managing these species at a landscape scale. However, it is important for landholders to implement weed hygiene and other biosecurity measures to prevent the spread of weeds into clean areas.

Table 5: Hygiene and biosecurity weeds in the Darwin Region

Common name	Botanical name	NT Declared class	Weed Risk (NT)
Hyptis	Mesosphaerum suaveolens	В	High
Sida	Sida sp.	В	High
Snake weed	Stachytarpheta spp.	В	Not assessed
Coffee senna	Senna occidentalis	В	Not assessed
Mossman River grass	Cenchrus echinatus	В	Medium
Sickle pod	Senna obtusifolia	В	Very high
Candle bush	Senna alata	В	Low
Noogoora burr	Xanthium strumarium or Xanthium occidentale	В	High
Sesame	Sesamum orientale	Not declared	Not assessed
Barleria	Barleria prionitis	А	Low
Water hyssop	Bacopa caroliniana	Not declared	Low
Prickly pears	Opuntia spp.	А	Very high
Lions tail	Leonotis nepetifolia	В	Medium
Poinciana	Delonix regia	Not declared	Low
Fringed spider flower	Cleome aculeata	Not declared	Low
Panicle joint-vetch	Aeschynomene paniculata	Not declared	Low

Category 5 - 'Alert' weeds

The Weed Management Branch uses a working definition of an 'alert' weed as a species:

- not yet naturalised in a region
- with the potential to have a high level of impact should it become established
- having a reasonable likelihood of arriving in the region (or of being present undetected).

Table 6: Regional 'Alert' weeds in the Darwin Region for eradication on detection

Common name	Botanical name	NT Declared class	Weed Risk (NT)
Limnocharis	Limnocharis flava	С	Very high
Parthenium weed	Parthenium hysterophorus	A	Very high
Amazon frogbit	Limnobium laevigatum	С	High



Priority landscape areas

Landscape areas that require priority management attention within the Region were determined using one or more of the following criteria:

- a. low incursions of weeds
- b. sites of significance for biodiversity conservation¹
- c. significant commercial values
- d. very high visitation areas
- e. significant cultural and heritage values
- f. susceptibility to invasion
- g. weed source areas including top of streams and up-wind areas
- h. high value assets.

Table 7: Priority landscape areas

Landscape area	Nested values	Threats
All sites of significance for biodiversity conservation in the NT¹ e.g. Finniss River Coastal floodplain, Anson Bay and associated coastal flood plains, Daly River middle reaches.	Biodiversity Tourism Recreational users Pastoral Cultural	Category 1, 2 and 3 weeds
Water courses including Daly River, Mary River and Goyder River	Biodiversity Tourism Recreational users Pastoral Cultural	Category 1 and 2 weeds
Key sites of community value	Kakadu National Park NT Parks and Reserves (e.g. Litchfield National Park) Arnhem land Darwin rural area	Grassy weeds including gamba grass and grader grass

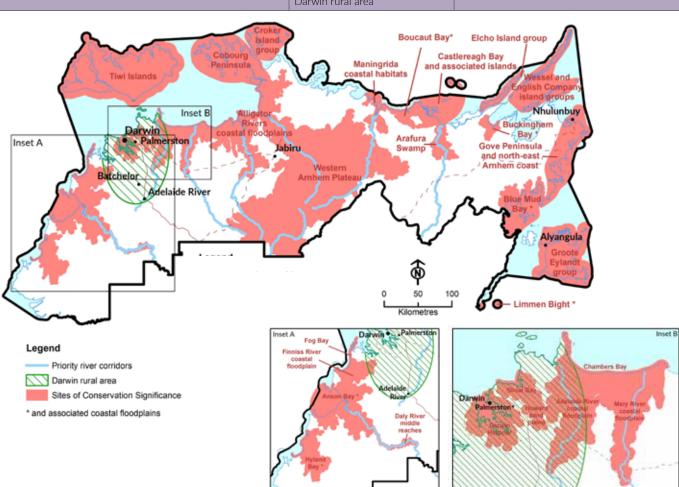


Figure 2. Priority Landscape Areas - including sites of conservation significance, water courses and the Darwin rural area.

¹ Sites listed in 'An inventory of sites of international and national significance for biodiversity values in the Northern Territory' (Harrison et al. 2009) because they support important wetland values, large aggregations of wildlife, concentrations of threatened species or endemic species, or are considered botanical hot-spots (https://territorystories.nt.gov.au/10070/622060/0/0).

Priority pathways of spread

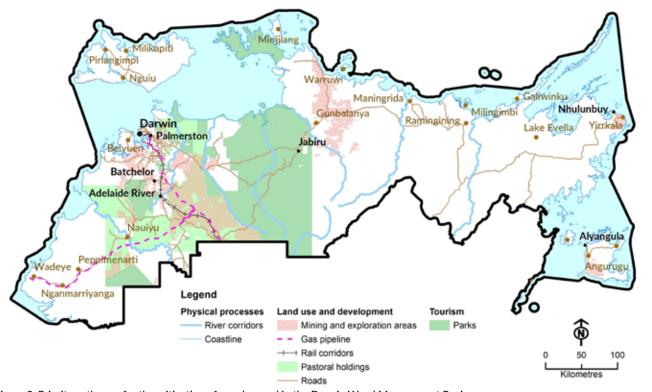
Following consultation with a wide range of government, non-government and industry bodies, the Northern Territory Weed Management Branch prepared extension material to assist with the strategic mitigation of weed spread. The resulting document 'Preventing weed spread is everybody's business' is available for download here: territorystories.nt.gov.au/10070/265425. The document lists the main pathways of spread in the Northern Territory and was informed by regional weed management plans, including the previous version of this Strategy.

The pathways for spread that require priority management attention in the Region (Table 8, Figure 3) were considered in line with the following factors:

- a. physical characteristics of weeds that are likely to be transported by human or natural means
- b. which weeds are most likely to be transported into or within the Darwin Region
- c. human activities most likely to spread weeds
- d. presence of a physical corridor assisting weed spread.

Table 8: Priority pathways of spread of weeds

CAUSE	Pathway(s) of Spread	Example mechanisms of spread along priority pathways	Examples of species that are likely to be spread by this pathway			
Physical processes	River corridors and gulf coastline	Wind, water, fire, and ocean currents	Rubber vine, mimosa, gamba grass, Siam weed			
Native or feral animals	River corridors	Feral and native animal movement	Siam weed, mimosa			
Land use and development	Mining and exploration areas	Construction and maintenance of mines and access roads, including land clearing, slashing and grading	Grader grass, thatch grass All category 4 weeds			
	Gas pipeline	Maintenance activities	Gamba grass, grader grass			
	Rail corridors	Maintenance activities	Gamba grass, grader grass			
	Pastoral holdings	Cattle, hay and contractors	Mimosa, Siam weed, gamba grass, parthenium weed			
	Roads	Construction and maintenance, such as slashing and grading, 4WD tourism, livestock, and fodder haulage	Gamba grass, grader grass, thatch grass			
Tourism	Accidental	Camping, recreation activities	Parthenium weed, mimosa, grader grass			
Use by industry	Nursery industry Garden plants Pasture introductions	Deliberate plantings, garden plants	Cacti, bellyache bush, ornamental rubber vine, ochna, water hyacinth, sagittaria, pasture grasses			



 $Figure\ 3.\ Priority\ pathways\ for\ the\ mitigation\ of\ weed\ spread\ in\ the\ Darwin\ Weed\ Management\ Region.$



Objectives and actions

The following six objectives in this Strategy represent an achievable outcome within its five year timeframe. To achieve the objectives within that timeframe, significant investment in time and resources will be required by a range of stakeholder groups.

Objective 1: To make progress towards the eradication of identified priority weeds.

Objective 2: To make progress towards the control and containment of identified priority weeds.

Objective 3: To prevent the introduction and spread of the Region's priority weeds.

Objective 4: To improve adaptive weed management.

Objective 5: To ensure landholders act responsibly and support a 'working together' approach to weed

management.

Objective 6: To increase the Region's awareness of its priorities and capacity to manage weed impacts and

protection of high value assets.

Objective 1: To make progress towards the eradication of identified priority weeds

Weed	Action	Priority landscape or infestation areas	Australian Government	Northern Territory Government	Local Government	Aboriginal	Environment and community	Landcare / Territory Natural Resource Management	Industry	Education and Research	Private landowners	Time frame
Cabomba	Continue with monitoring phase of eradication program	Lok Landji (Darwin River)										2027
Pond apple	Continue eradication and monitoring program	Darwin rural area, historic plantings in remote communities										ongoing
Water mimosa	Continue eradication and monitoring program	Darwin rural area, Nhulunbuy Town Lagoon										ongoing
All category 1 priority	awareness	All NT										ongoing
weeds for eradication	Report suspect sightings	All NT										ongoing

Objective 2: To make progress towards the control and containment of identified priority weeds

Weed	Action	Priority landscape					>					
vveeu	ACTION	or infestation areas	Australian Government	Northern Territory Government	Local Government	Aboriginal	Environment and community	Landcare / Territory Natural Resource Management	Industry	Education and Research	Private landowners	Time frame
Siam weed	Control, survey and monitor satellite infestation aiming for local eradication	Daly/Reynolds catchments										2031
	Survey, control and monitoring; Refine / develop effective control methods; Implement biological control	Core infestation in Daly / Reynolds catchment										ongoing
	Surveillance; Education and awareness; Report suspect sightings.	Other parts of the NT climatically suitable for Siam weed (>1000 mm annual rainfall)										ongoing
Gamba grass	Eradicate and monitor outliers	Gamba grass Zone A, roadsides										2023
	Statutory weed management plan education and compliance	Gamba grass Zone B; Periurban areas										ongoing
	Gamba Action	Gamba grass Zone B; Periurban areas										ongoing
Mimosa	Control and monitory outlier infestations prior to seeding; Redistribute biological control agents	Mimosa Zone A; Kakadu; Arnhemland										ongoing
	Contain core infestations, control and monitor outliers	Mimosa Zone B										ongoing
Bellyache bush	Contain core infestations, control and monitor outliers	Bellyache bush Zone A										ongoing
	Implement new biological control agent when available (leaf miner)	Bellyache bush Zone B										2025
Salvinia	Surveillance for salvinia in clean areas; respond to new reports	Mary River Catchment (e.g. Corroboree Billabong)										ongoing
	Improve condition of key waterways using chemical and biological control in priority areas; monitor;	Kakadu; Palmerston Lakes										ongoing
All category 2 priority weeds for strategic control		Darwin Weed Management Region										ongoing

Objective 3: To prevent the introduction and spread of the Region's priority weeds

Action	BRWRG	Weed Management Branch	Northern Territory Government	Local Government	Pastoral industry	NT Farmers	Indigenous groups	Landcare groups and TNRM	Charles Darwin University	Bushfires NT	Rural block owners	Time frame
Support the implementation of the Weed Spread Prevention Strategy, includes a summary of regional actions to prevent spread of individual species												ongoing
Implement regional activities to increase awareness and adoption of weed spread prevention procedures such as quarantining livestock and cleaning machinery												2022
Develop and adopt a code of practice for weed spread prevention												2023
Conduct up-skilling of ground level working groups to identify and report priority and alert weeds												2023
Monitor priority pathways for new and spreading weeds												ongoing
Identify and implement activities that increase awareness of weed spread prevention to encourage adoption of best practice management												ongoing

Objective 4: To improve adaptive weed management

Action	BRWRG	Weed Management Branch	Northern Territory Government	Local Government	Pastoral industry	NT Farmers	Indigenous groups	Landcare groups and TNRM	Charles Darwin University	Bushfires NT	Rural block owners	Time frame
Share the results of weed control success and failings with the Barkly Regional Weed Working Group												ongoing
Share landscape rehabilitation learnings including what makes a weed resilient landscape												2025
Provide weed datasets to the Weed Management Branch												2025
Map distribution of priority weeds and monitor change in their density												2025
Identify and support the trials of new weed management techniques and biological control agents												ongoing
Maintain links with other Regional weed reference groups, Northern Territory and interstate research institutes and continue to support a partnership approach to Regional priority weed research												ongoing
Identify and record where there are gaps in knowledge for future investigations												2025

Objective 5: To ensure landholders act responsibly and support a 'working together' approach to weed management

Action	BRWRG	Weed Management Branch	Northern Territory Government	Local Government	Pastoral industry	NT Farmers	Indigenous groups	Landcare groups and TNRM	Charles Darwin University	Bushfires NT	Rural block owners	Time frame
Develop and maintain Regional partnership programs with all industry												2023
Identify priority programs for funding prior to funding announcements												ongoing
Create awareness of landholder legal responsibilities: attention to new landholders and managers to the Region who may be unaware of their obligations are a priority												2021
Participate in local, Regional and national NRM forums where weeds are discussed												2025
Coordinate planning activities at a catchment scale												2025
Maintain cross-border partnerships in support of national programs												ongoing
Develop priority species management plans (where none exist)												2025

Objective 6: To increase the Region's awareness of its priorities and capacity to manage weed impacts

Action	BRWRG	Weed Management Branch	Northern Territory Government	Local Government	Pastoral industry	NT Farmers	Indigenous groups	Landcare groups and TNRM	Charles Darwin University	Bushfires NT	Rural block owners	Time frame
Promote Regional priorities (weeds, landscape areas and pathways for spread) to land managers through key partners												2023
Provide inductions and regular training to identify priority and 'alert weeds' to volunteers and staff												2025
Support land managers to develop and improve weed management capacity through on ground demonstration and incentive programs												2025
Continue to develop Regional and targeted communication materials, including students as a targeted audience group												2023
Expose community members to the impact of 'alert' weeds in neighbouring states												2025
Develop a 'working together' role in detection, management and prevention of spread of weeds												2024

Appendix A. Weed Risk Management Matrix (Darwin Region)

The Northern Territory Weed Risk Management System is an evidence-based framework for assessing the relative weed risk and feasibility of control of weeds. The answers to questions relating to weed risk and feasibility of control are determined by consensus of a committee of experts representing different sectors of government.

	FEASIBILITY OF CONTROL (DARWII	N WEED MANAGEMENT REGION)
	HIGH - VERY HIGH	LOW - MEDIUM
	A: Prevent entry; Contain regional spread; Regional eradication; Protect priority sites	B: Targeted control (inc. Biocontrol); Protect priority sites
	Lantana (Lantana camara)	Coffee bush (Leucaena leucocephala)
	Rubber vine (Cryptostegia grandiflora)	Gamba grass (Andropogon gayanus)
	*Prickly acacia (Vachellia nilotica)	Prickly pears (Opuntia spp.)
	*Mesquite (<i>Prosopis</i> spp.)	Perennial mission grass (Cenchrus polystachios)
I	Siam weed (Chromolaena odorata)	Mimosa (Mimosa pigra)
ַ⊒	Amazon frogbit (Limnobium laevigatum)	Para grass (Urochloa mutica)
VERY HIGH	Parkinsonia (Parkinsonia aculeata)	Guinea grass (Megathyrsus maximus)
l Hij	Water hyacinth (Eichhornia crassipes)	Neem tree (Azadirachta indica)
	Parthenium (Parthenium hysterophorus)	Tully grass (Urochloa humidicola)
	Ornamental rubber vine (C. madagascariensis)	Salvinia molesta (Salvinia molesta)
	Chinee apple (Ziziphus mauritiana)	Bellyache bush (Jatropha gossypiifolia)
	Bitter melon (Momordica charantia)	Olive Hymenachne (Hymenachne amplexicaulis)
	Pond apple (Annona glabra)	Sicklepod (Senna obtusifolia)
	**Cat's claw creeper (Dolichandra unguis-cati)	Grader grass (Themeda quadrivalvis)
	**Alligator weed (Alternanthera philoxeroides)	Annual mission grass (Cenchrus pedicellatus)
	C. Prevent entry; Contain regional spread; Protect priority sites	D. Targeted control; Improve general weed management; Monitor; Protect priority sites
	Sagittaria (Sagittaria platyphylla)	Noogoora burr (Xanthium occidentale)
_	Thatch grass (Hyparrhenia rufa)	Giant rats tail grass (Sporobolus natalensis, S. pyramidalis)
HEH	Cabomba (Cabomba caroliniana)	Hyptis (Mesosphaerum suaveolens)
I	Water mimosa (Neptunia plena, N. oleracea)	Rubber bush (Calotropis procera)
	Parrots feather (Myriophyllum aquaticum)	Sida (Sida acuta, S. cordifolia, S. rhomboidea)
	Castor oil plant (Ricinus communis)	Devils Claw (Martynia annua)
		**Curry bush (Murraya koenigii)
H H	E. Targeted control	F. Improve general weed management
	Giant reed (Arundo donax)	Coral Vine (Antigonon leptopus)
4		NA D:
	Cutch tree (Senegalia catechu)	Mossman River grass (Cenchrus echinatus)
,	Cutch tree (Senegalia catechu) Candlenut (Aleurites molluccana)	Mossman River grass (Cenchrus echinatus) African mahogany (Khaya senegalensis)
	Candlenut (Aleurites molluccana)	African mahogany (Khaya senegalensis) Knob weed (Hyptis capitata) **Rangoon creeper (Quisqualis indicus)
MEDIUM	Candlenut (Aleurites molluccana) Lions Tail (Leonotis nepetifolia) Singapore daisy (Sphagneticola trilobata) Acacia mangium (Acacia mangium)	African mahogany (Khaya senegalensis) Knob weed (Hyptis capitata) **Rangoon creeper (Quisqualis indicus) **Ivy gourd (Coccinea grandis)
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	Candlenut (Aleurites molluccana) Lions Tail (Leonotis nepetifolia) Singapore daisy (Sphagneticola trilobata) Acacia mangium (Acacia mangium) Creeping lantana (Lantana montevidensis) Spigelia (Spigelia anthelmia) Mother-of-Millions (Bryophyllum houghtonii) G. Assist interested parties; Monitor Caltrop (Tribulus terrestris and T. cistoides) Star burr (Acanthospermum hispidum) Candle Bush (Senna alata)	African mahogany (Khaya senegalensis) Knob weed (Hyptis capitata) **Rangoon creeper (Quisqualis indicus) **Ivy gourd (Coccinea grandis) **Itch grass (Rottboellia cochinchinensis) **Ochna (Ochna integerrima) **Snakeweed (Stachytarpheta spp.) H. Assist interested parties Khaki weed (Alternanthera pungens) Sabi grass (Urochloa mosambicensis) Gambia pea (Crotalaria goreensis)
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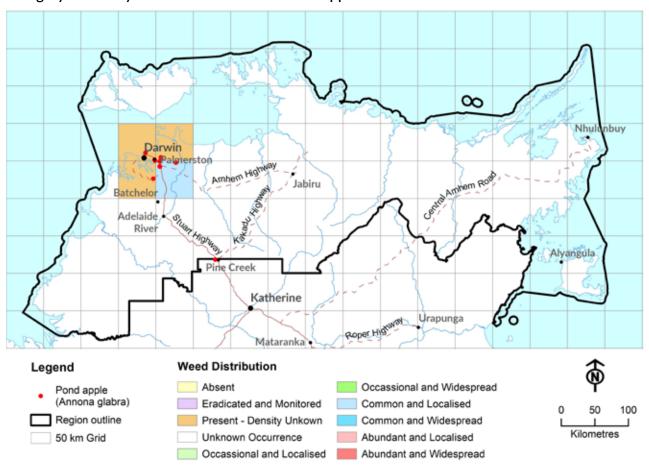
^{*}Feasibility of control has been estimated for the Darwin Weed Management Region

^{**}Weed risk and feasibility of control have not been formally assessed and have been estimated.

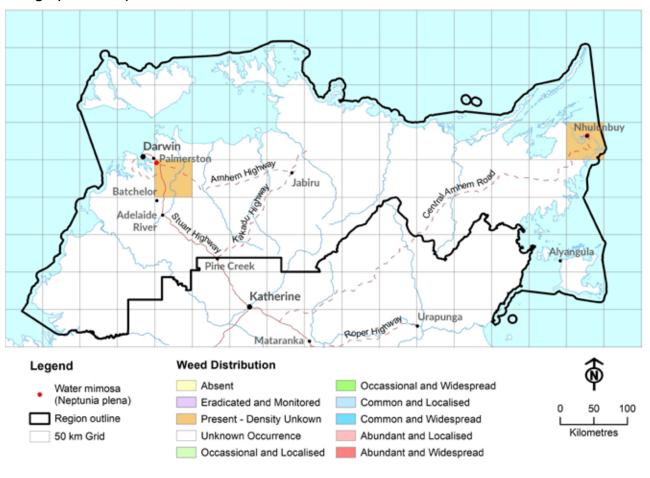


Appendix B: Priority Weeds Distribution Maps

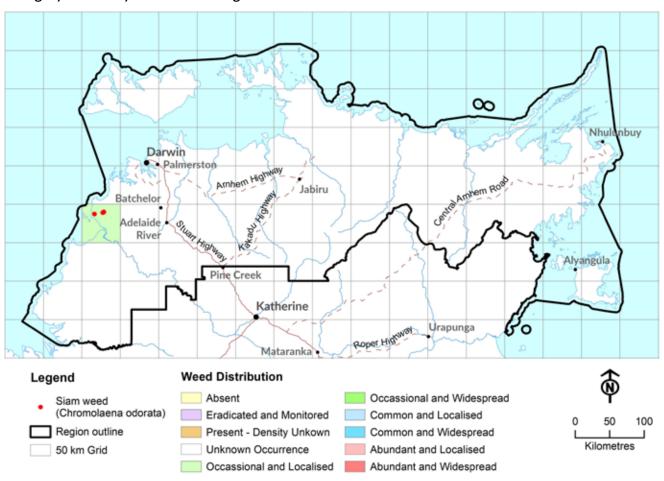
Category 1: Priority weed for eradication - Pond apple



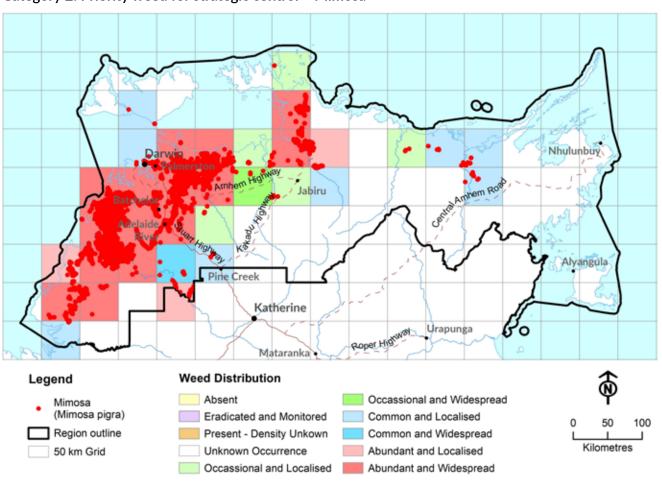
Category 1: Priority weed for eradication - Water mimosa



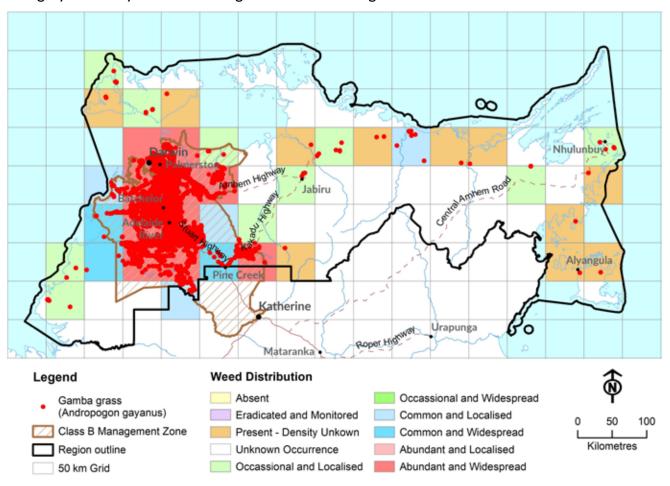
Category 2: Priority weed for strategic control - Siam Weed



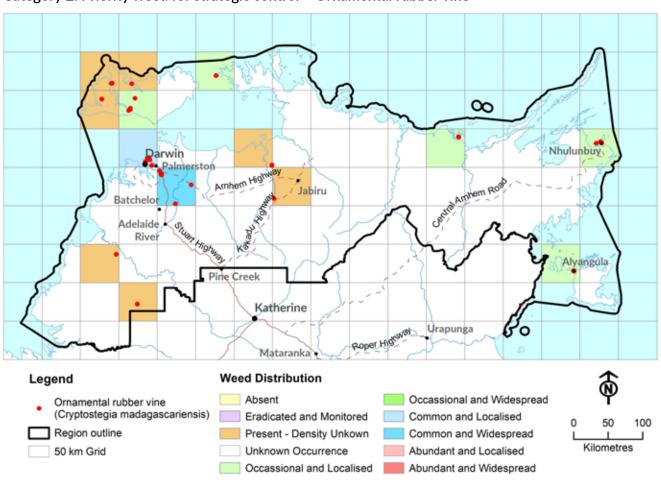
Category 2: Priority weed for strategic control - Mimosa



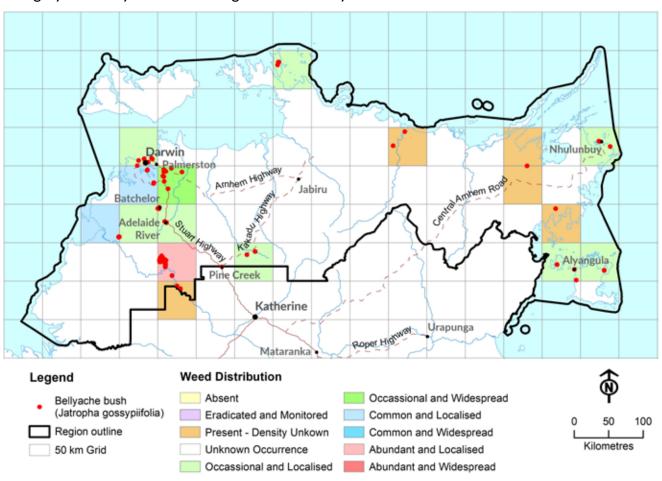
Category 2: Priority weed for strategic control - Gamba grass



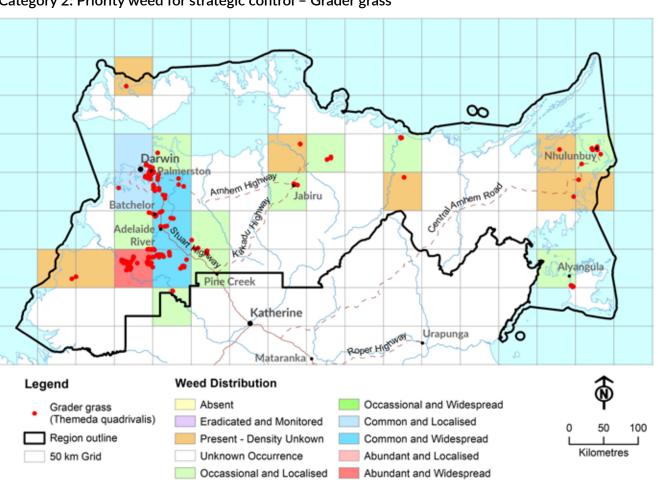
Category 2: Priority weed for strategic control - Ornamental rubber vine



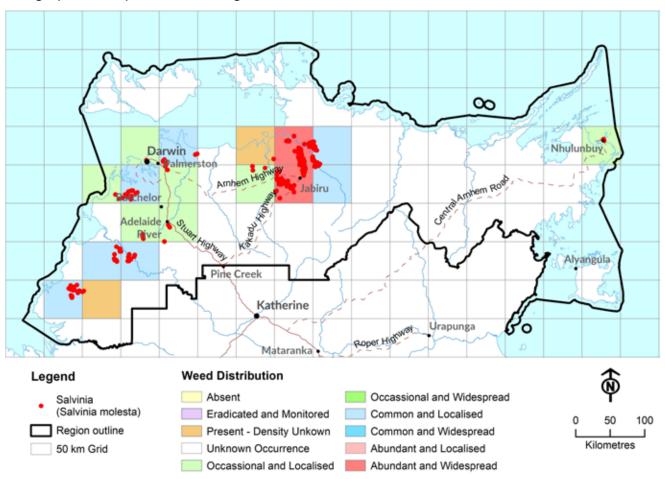
Category 2: Priority weed for strategic control - Bellyache bush



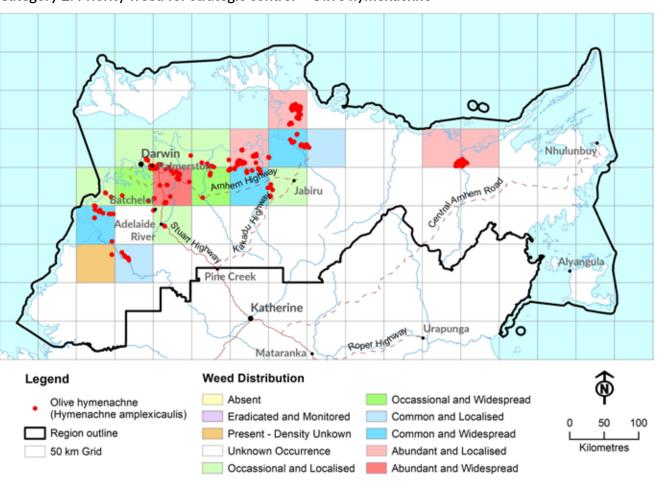
Category 2: Priority weed for strategic control - Grader grass



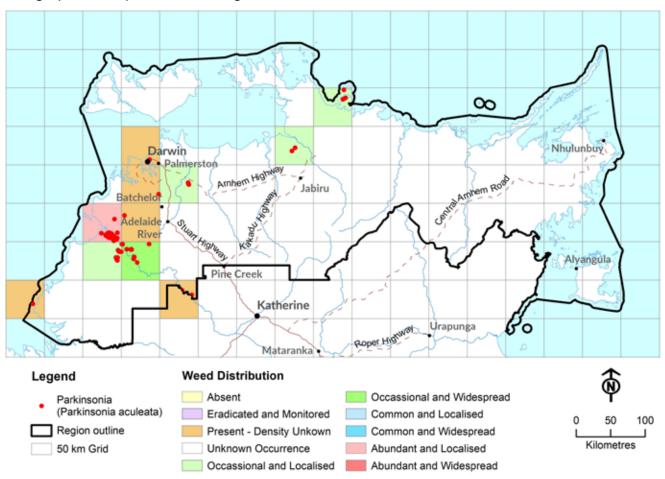
Category 2: Priority weed for strategic control - Salvinia



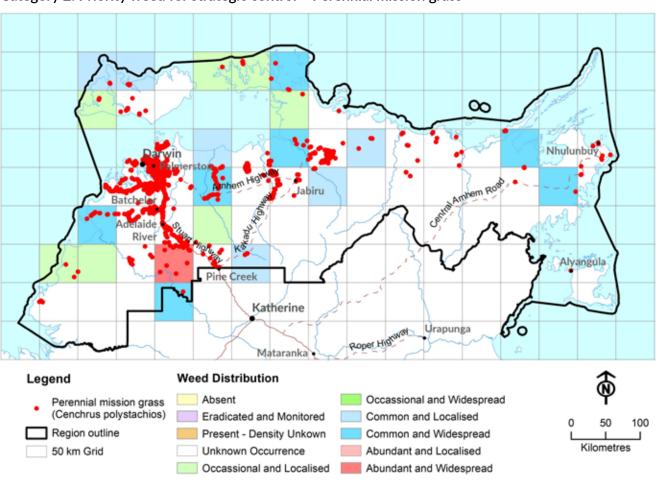
Category 2: Priority weed for strategic control - Olive hymenachne



Category 2: Priority weed for strategic control - Parkinsonia



Category 2: Priority weed for strategic control - Perennial mission grass









Contact

Weed Management Branch 8999 4567 weedinfo@nt.gov.au nt.gov.au/weeds