



Baseline Weed Survey Methodology

Gawara Baya Windfarm

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1 Introduction

Windlab Pty Ltd (Windlab) is required to prepare a Weed Survey Methodology (the methodology) for Baseline Weed Survey at the Gawara Baya Windfarm (the Project). A Weed Survey Methodology is a requirement of the Department of Climate Change, Energy, the Environment and Water (DCCEEW) *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) approval (EPBC 2021/9066).

This report stipulates the on-ground survey effort, analysis and mapping methodology to guide the Baseline Weed Survey.

1.1 Project Description

Windlab is proposing to build the Project, a wind energy project on an operating cattle property within Gugu Badhun Country, approximately 65 km south-west of Ingham in North Queensland (

Figure 1). The Project is within the Charters Towers Regional Council Local Government Area (LGA) on Lot 3198 on SP344602.

The Project includes the construction, operation and decommissioning of Gawara Baya wind farm. The Project will generate approximately 400 megawatts of renewable energy from up to 69 wind turbine generators. The project also comprises associated ancillary infrastructure including access tracks, laydowns, electrical reticulation, collector substations, concrete batching plants and construction offices.

The location and design of the Project has been determined and refined through careful consideration of the location, quality and profile of the wind energy resource, proximity to existing energy transmission infrastructure, established use of the land for cattle grazing, and the proponent's ability to appropriately and responsibly manage local-scale impacts associated with the Project.

1.2 Statutory Consideration

1.2.1 EPBC Approval Conditions

Windlab received an EPBC Act approval (EPBC 2021/9066) on 17 June 2024 from DCCEEW.

The development and implementation of a weed survey is required to satisfy the relevant EPBC Act approval conditions:

- 38. Using method(s) and effort approved by the department in writing, the Approval Holder must have a suitably qualified field ecologist conduct baseline surveys at least 1 month prior to commencement of the Action for weed species¹, recording the extent and abundance of weeds in any areas proposed to be cleared and within 500 metres of any proposed clearing.
- 39. To avoid and mitigate harm to protected matters, relative to the baseline data collected under condition 38 the Approval Holder must ensure that there are no new species of weeds in the Implementation Area² at 2, 5, 10, 20, 41, 46, 50 and 69 years after commencement of the Action.
- 40. To avoid and mitigate harm to protected matters, relative to the baseline data collected under condition 38, the Approval Holder must ensure that there is no increase in the extent or abundance of weeds in the final development footprint and within 500-metres on all sides of the final development footprint: at 2, 5, 10, 20, 41, 46, 50, 65 and 69 years after commencement of the Action.
- 41. At least 1 month prior to commencement of the Action, the Approval Holder must submit the results of all the surveys required under Condition 38 to the department.
- 42. The Approval Holder must have a suitably qualified field ecologist monitor weed species, extent and abundance in the final development footprint and within 500-metres on all sides of the final development

¹ Weed means any weed species identified within the Weeds of National Significance and invasive plants listed under *Part 3, Schedule 1 of the Biosecurity Act 2014* (Qld). Hereafter, weeds species that meet this definition are referred to as "target weeds".

² The implementation area is defined as the area of proposed clearing plus a 500 m buffer.

footprint at least once every year until 70 years after commencement of the Action using method(s) and effort approved by the department in writing.

43. The Approval Holder must include the report and findings of the annual monitoring undertaken in accordance with condition 42 in the next compliance report required under condition 110.Other Statutory Considerations

The legislation, policy, guidelines, and guidance documents provided in Table 1 are relevant to the management of biosecurity risks at the site and in some instances provide guidance on weed management of the Project.

Table 1: Relevant Environmental Statutory Considerations

| Legislation | Description |
|--|--|
| Environmental Protection Act 1994 (EP Act) | The object of the EP Act is to protect Queensland's environment while allowing for development that improves the total quality of life, both now and in the future, in a way that maintains the ecological processes on which life depends (ecologically sustainable development). |
| Biosecurity Act 2014 (Biosecurity Act) | The Biosecurity Act is designed to ensure a consistent, modern, risk-based, and less prescriptive approach to biosecurity in Queensland. The Act requires all people and organisations in Queensland to manage biosecurity risks under their control under the general biosecurity obligation. |
| Weeds of National Significance (WoNS) | Weeds of National Significance (WoNS) is a list of 32 weeds agreed by Australian governments as requiring prioritisation based on their invasiveness, potential for spread and environmental, social, and economic impacts. Landowners and land managers at all levels are responsible for managing WoNS. State and territory governments are responsible for legislation, regulation, and administration of weeds. A strategic plan for each WoNS has been developed. The strategies aim to: Prevent spread of new infestations. Reduce adverse impacts of existing infestations. Establish and maintain national commitment. Coordinate management at a national level, and Increase community awareness. |
| National Strategies | National strategies help government, industry and the broader community manage weeds in a coordinated manner at a national level. National strategies include: • Australian Weeds Strategy 2017 to 2027 (Department of Agriculture and Water Resources), and • Threat Abatement plans. |

1.3 Objectives

This methodology specifically identifies the methods and effort for the baseline surveys, required by condition 38 of the EPBC Act approval (Baseline Weed Survey). The Baseline Weed Survey will be conducted within the area of proposed clearing plus a 500 m buffer, hereafter the Implementation Area (Figure 1).

A separate methodology will propose the methods and effort for the ongoing monitoring of weed species, extent and abundance (relative to the baseline data collected during the Baseline Surveys), as required by condition 42 of the EPBC Act approval (Ongoing Weed Surveys). Preparing a separate methodology for Ongoing Weed Surveys will assist the proponent in the appointment and scheduling of pre-commencement and post-commencement contractors and ensure that any enhancement, improvements or efficiencies arising from the Baseline Weed Survey can be accurately captured.

In accordance with the EPBC Act Approval Condition 39 the Approval Holder must ensure that there are no new species of weeds in the Implementation Area at 2, 5, 10, 20, 41, 46, 50 and 69 years after commencement of the Action. In accordance with the EPBC Act Approval Condition 40 the Approval Holder must ensure that there is no increase in the extent or abundance of weeds in the Implementation Area at 2, 5, 10, 20, 41, 46, 50 and 69 years after commencement of the Action.

1.4 Scope of Works

The scope of works included the following tasks:

- Desktop assessment of background information and legislative/policy documents along with Commonwealth and State mapping layers and databases.
- Development of a weed survey methodology that sufficiently covers the EPBC Act Approval requirements, with the view that the methodology shall be given to the Department for approval; and should include at a minimum:
 - Field surveying efforts.
 - Consideration of seasonal variation.
 - References to applicable standards, industry best practices and alike, to justify methodology in a way such that the methodology should be approved by the Department, and
 - Details of any desktop or digital survey methods to improve efficiencies.
- A report detailing the methodology.

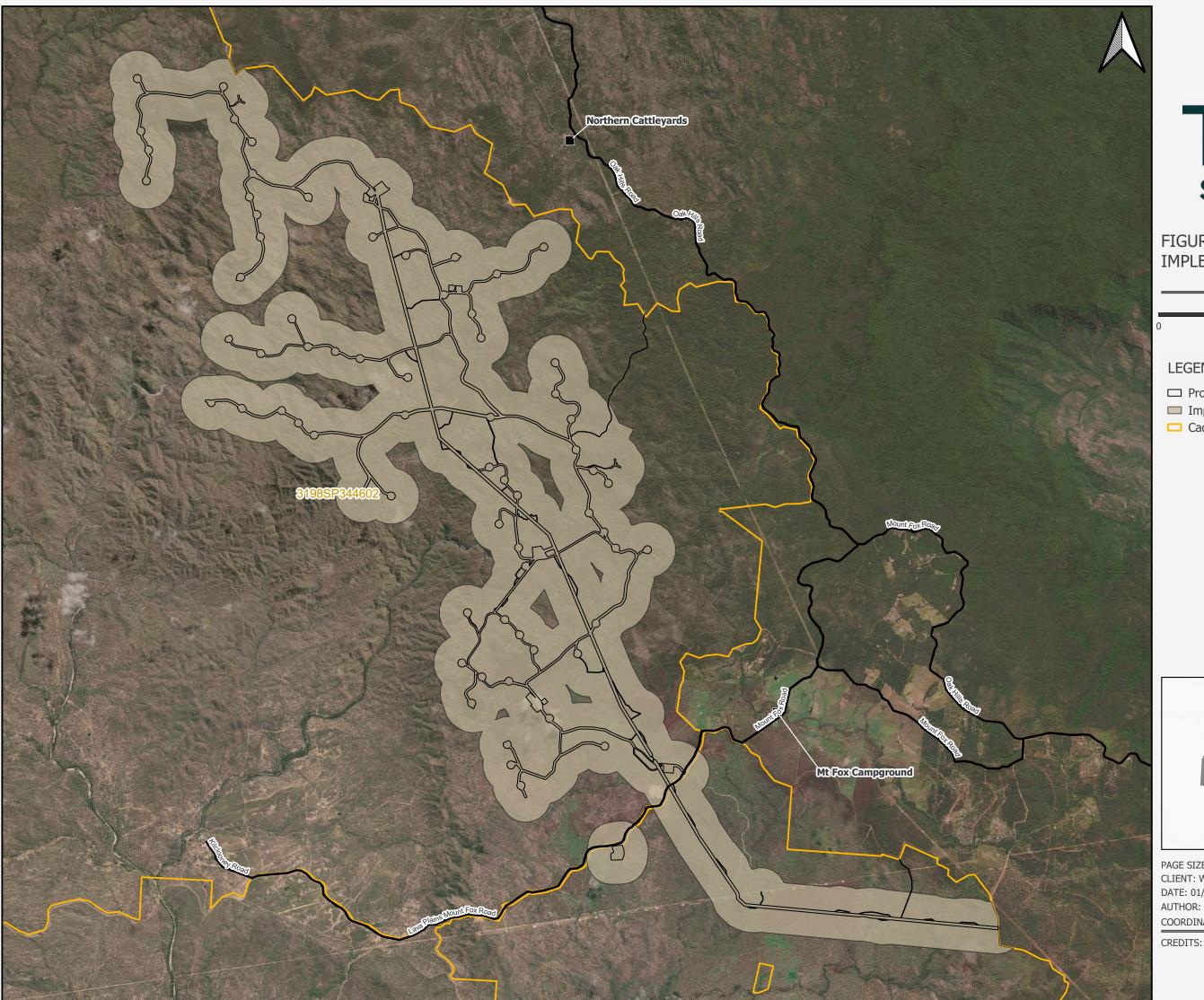


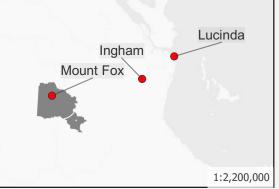


FIGURE 1: PROJECT LOCATION & IMPLEMENTATION AREA

1:70,000

LEGEND:

- ☐ Proposed Clearing Area
- ☐ Implementation Area
- □ Cadastral Boundary (3198 on SP344602)



PAGE SIZE: A3 CLIENT: Windlab Pty Ltd DATE: 01/07/2025 AUTHOR: Terra Solutions

COORDINATE SYSTEM: GDA2020 / MGA zone 55

2 Preliminary Desktop Assessment

2.1 Listed & Weeds of National Significance

A preliminary desktop assessment was undertaken to provide a summary of target weeds, including Weeds of National Significance (WoNS) and restricted weeds listed pursuant to the *Biosecurity Act 1994* identified from WildNet searches (Table 2). Species not recorded within 100 km of the Implementation Area are considered unlikely to occur and are not considered target species, whilst species recorded within 10km have a high likelihood of occurrence.

Upper Burdekin Wind Farm – Ecological Assessment (ELA 2020) report provides list of weed species identified through incidental observations and provides a general description of their distribution and relative abundance. Twenty-seven weed species were identified during flora surveys including the following target weeds:

- Lantana (Lantana camara).
- Sicklepod (Senna obtusifolia).
- Singapore daisy (Sphagneticola trilobata), and
- American rat's tail grass (Sporobolus jacquemontii).

Preliminary site visits and previous ecological assessments confirmed that riparian environments associated with land zone 3 have a higher proportion of introduced species than other communities, especially the larger steams in Bioregion 9.

Table 2: Target Weeds - Biosecurity Act Weeds & Weeds of National Significance from Desktop Searches

| Species Name | Common Name | Growth Form | Life Cycle | Biosecurity Act Category ¹ | WoNS | WildNet Records 10km² | WildNet Records 100km² | Eco Logical Australia (2020)³ |
|----------------------------|--------------------|------------------|---------------------|---|------|-----------------------------|------------------------------|---|
| Andropogon gayanus | Gamba grass | Grass | Perennial | 3 | Υ | | 6 | |
| Annona glabra | Pond apple | Tree | Perennial | 3 | Υ | | 2 | |
| Argyreia nervosa | Elephant ear vine | Vine | Perennial | 3 | | | 2 | |
| Bryophyllum delagoense | Mother of millions | Succulent | Perennial | 3 | | | 2 | |
| Cardiospermum grandiflorum | Balloon vine | Liane | Perennial | 3 | | | 1 | |
| Cascabela thevetia | Yellow oleander | Shrub | Perennial | 3 | | | 3 | |
| Chromolaena odorata | Siam weed | Shrub | Perennial | 3 | | | 24 | |
| Chromolaena squalida | Siam weed | Shrub | Perennial | 3 | | | 3 | |
| Cryptostegia grandiflora | Rubber vine | Woody vine | Perennial | 3 | Υ | | 33 | |
| Elephantopus mollis | Tobacco weed | Herb | Perennial | 3 | | | 1 | |
| Hygrophila costata | Hygrophila | Aquatic herb | Perennial | 3 | | | 1 | |
| Lantana camara | Lantana | Shrub | Perennial | 3 | Y | 3 | 43 | Recorded. Widespread (Low – High) |
| Limnocharis flava | Limnocharis | Aquatic herb | Annual or perennial | 2,3,4,5 | | | 5 | |
| Mikania micrantha | Mikania vine | Vine | Perennial | 2,3,4,5 | | | 4 | |
| Opuntia stricta | Common pest pear | Succulent | Perennial | 3 | Υ | | 3 | |
| Parkinsonia aculeata | Parkinsonia | Tree | Perennial | 3 | Υ | | 1 | |
| Parthenium hysterophorus | Parthenium | Herb | Annual | 3 | Υ | 1 | 8 | |
| Sagittaria platyphylla | Sagittaria | Emergent aquatic | Perennial | 3 | Υ | | 1 | |

| Species Name | Common Name | Growth Form | Life Cycle | Biosecurity Act Category ¹ | WoNS | WildNet Records 10km² | WildNet Records 100km² | Eco Logical Australia (2020)³ |
|--------------------------|----------------------------|--------------------------|---------------------|---|------|-----------------------------|------------------------------|----------------------------------|
| Salvinia molesta | Salvinia | Floating aquatic herb | Annual or perennial | 3 | Υ | | 2 | |
| Schinus terebinthifolius | Broad-leaved pepper tree | Tree | Perennial | 3 | | | 1 | |
| Senna hirsuta | Sicklepod - hairy cassia | Subshrub / forb | Perennial | 3 | | | 2 | |
| Senna obtusifolia | Sicklepod | Subshrub / forb | Annual or perennial | 3 | | 1 | 6 | Recorded. |
| Senna tora | Sicklepods - foetid cassia | Subshrub / forb | Annual or perennial | 3 | | | 1 | |
| Sphagneticola trilobata | Singapore daisy | Herb | Perennial | 3 | | | 13 | Recorded. |
| Sporobolus fertilis | Giant Parramatta grass | Grass | Perennial | 3 | | 1 | 9 | |
| Sporobolus jacquemontii | American rat's tail grass | Grass | Perennial | 3 | | | 23 | Recorded. Limited (Low) |
| Sporobolus natalensis | Giant rat's tail grass | Grass | Perennial | 3 | | 1 | 8 | |
| Sporobolus pyramidalis | Giant rat's tail grass | Grass | Perennial | 3 | | | 10 | |
| Tamarix aphylla | Athel pine | Tree | Perennial | 3 | Υ | | 2 | |
| Thunbergia grandiflora | Thunbergia | Vine | Perennial | 3 | | | 1 | |
| Ziziphus mauritiana | Chinee apple | Tree | Perennial | 3 | | | 2 | |

¹ Category 2 restricted matters have specific urgent reporting requirements. You must report restricted matter from these categories if it is present in, or on, something in your possession or under your control or at a place where you are the occupier, unless an appropriately authorised officer has already been advised or you possess a permit for the restricted matter.

Category 3 You must not distribute this restricted matter. This means it must not be given as a gift, sold, traded or released into the environment unless the distribution or disposal is authorised in a regulation or under a permit. Deliberate human distribution or disposal contrary to the legislation is a key source of spread into other areas of the state.

Category 4 You must not move this restricted matter to ensure that it does not spread into other areas of the state.

Category 5 You must not possess or keep this restricted matter under your control. These pests have a high risk of negatively impacting on the environment. You may only keep this restricted matter under a permit of the Biosecurity Act 2014 or another Act.

² Number denotes total record count retrieved from search

³ WoNS and restricted weeds (Biosecurity Act) recorded during ecological surveys (Eco Logical Australia, 2020)

3 Baseline Weed Survey Methodology

The methodology is designed to be replicated across the Implementation Area (

Figure 1) and has been prepared generally in accordance with A Field Manual for Surveying and Mapping Nationally Significant Weeds (McNaught et al., 2008) with consideration given to the following:

- Existing information with respect to known and potential weed species presence and locations such as within creek and drainage lines.
- Priority weeds Weed species are prioritised based on known significant species present in the Implementation
 Area and within 10 km of the Implementation Area. In cases where there are no records of a particular WoNS or
 restricted species they are considered low risk.
- Seasonal influences timing of survey period and how this will affect the detectability of weeds e.g. lifecycle (annual or perennial), flowering or fruiting periods, leaf flushing.
- Accessibility where areas are inaccessible, and likely to remain inaccessible over the foreseeable future attempts will be made to assess the area via aerial survey.
- Detection methods Ground-based survey methods using light vehicle, ATV and on foot along and aerial surveys.
- Density of weed infestation where priority weeds are more frequent or problematic, more effort will be required to categorise the population, and
- References to applicable standards, industry best practices and alike, to justify methodology

3.1 Constraints & Limitations

Due to the constraints associated with the size and remoteness of parts of the Implementation Area, several constraints to the feasible delivery of the project to the scope required in the approval conditions must be considered. These constraints will limit the options available for weed survey methodology until such time as access becomes more readily available and include:

<u>Scale</u>

The survey area (approximately 100 linear kilometres with a 500 m weed survey buffer) is approximately 8,676 hectares requiring a combination of ground-based and aerial survey methods to achieve a comprehensive survey of the site.

Access

The total linear footprint is over 100 km in length and much of this area and the surrounding buffer remains inaccessible via light vehicle or side-by-side (all terrain) vehicle. Obstacles such as creek crossings may impede access in some areas. The assessment of inaccessible areas will require the use of aerial vehicles to detect weed infestations. This method will not be suitable for individual plants and small infestations of difficult to detect species (e.g. some grasses).

Future aerial access to parts of the implementation area is unlikely to be possible via aerial survey due to potential collision risk with turbines.

Remoteness & Terrain

The remoteness and complexity of the terrain adds both time and safety constraints to weed data capture when traversing by either vehicle and/or on foot. Access to emergency services in the event of an incident will be constrained by lengthy response times and accessibility. Risk management procedures must be put in place before commencing work in any areas at a distance from vehicular access.

Seasonality

The detectability of weed species varies seasonally and between species due to factors such as annual lifecycle, dormancy, deciduousness and flowering and fruiting periods. Surveys are proposed for the wet season and this timing has been selected to maximise the detectability of the target species.

3.2 Desktop Assessment

Prior to each field survey a desktop assessment will be undertaken including a review of relevant environmental documents, databases, scientific journals, books, technical reports, maps, and legislation (Commonwealth, State and Local) to identify the weed species that may occur within the weed survey area. This review shall include an assessment of the following information:

- Aerial Photograph Interpretation (API) to determine the broad categorisation of vegetation within and surrounding the site and to review the extent of historical clearing and land use, and any other significant environmental features such as watercourses and wetlands.
- Review previous drone imagery to identify probable weed infestations for subsequent field verification.
- Regional ecosystem mapping: The most recent version of the Department of Resources (DoR) Regulated Vegetation Management Regional Ecosystem mapping (latest version) and essential habitat mapping (latest version).
- Wetland mapping. The referable wetlands mapping produced by the Department of Environment, Science and Innovation (DESI) was reviewed to provide an indication of the occurrence and location of any wetland management areas (comprising significant wetlands and a 100 m wetland buffer area) in relation to the landforms of the site.
- WildNet database of flora and fauna. This database holds records of plants and animals that have either been sighted or collected within a given radius of the site (search parameter used included a 10 km buffer and a 100 km around the Implementation Area. and was prescribed limiting the search area to a 10 km buffer around the basin. Records held in this database are maintained by DESI (Appendix A).
- Atlas of Living Australia species records review.
- EPBC Act Protected matters database. This database applies a range of bio-models to predict the presence of species of flora and fauna and other Matters of National Environmental Significance within a given radius of the site.

3.3 Survey Timing

The detectability of weed species varies seasonally and between species due to factors such as annual lifecycle, dormancy, deciduousness and flowering and fruiting periods. Baseline Weed Surveys should ideally be undertaken during the wet season when the target species, particularly annual grasses are most detectable (i.e. flowering or fruiting), however surveys can be undertaken during other periods. It is important that subsequent monitoring events are undertaken at a similar time of the year to maintain consistency between surveys and aid in the comparison of results.

Baseline Weed Surveys will be undertaken a minimum of one month prior to the commencement of the proposed Action, in accordance with Condition 38 of the EPBC Act approval.

3.4 Survey Methods

3.4.1 Approach

The approach to surveys is to undertake ground-based and aerial surveys within the Implementation Area at least one (1) month prior to commencement of the Action. Existing disturbance areas (e.g. access tracks) and accessible areas up to the extent of the Implementation Area will be surveyed using a combination of aerial and ground-based surveys.

The introduction and proliferation of weeds associated with the project may result from soil disturbance, transport on construction equipment, imported materials, human activity, stormwater runoff, vegetation removal and along transportation corridors. Additionally, since the Implementation Area is concurrently used for grazing, the spread of weeds through this vector pathway is likely.

As the distance from the proposed clearing area increases, the probability that observed weed occurrences are attributable to project-related activities correspondingly decrease. This trend reflects the diminishing influence of project-associated disturbance and vector pathways, such as machinery movement, with increasing spatial separation and the increasing influence of outside vectors.

The survey approach proposed requires a preliminary assessment of previous drone imagery, aerial surveys and ground-based survey (Light Vehicle, UTV and on-foot) to identify and map significant infestations and represents the first phase of assessment.

A GPS track log shall be taken for all methods and will be presented in field survey effort maps. The proposed area for the Baseline Weed Survey is presented in Figure 2.

3.4.2 Aerial Photograph Interpretation

Prior to field investigations existing aerial photographs of the implementation will be reviewed to identify probable weed infestations for field verification. Aerial photograph interpretation will involve the identification of aerial signatures that may be considered with weed infestations using various sources including drone imagery, satellite imagery and other available sources of aerial imagery. Where infestations can be identified using the existing imagery they will be validated in the field via ground-based surveys.

3.4.3 Aerial Surveys

Aerial surveys will be conducted to collect georeferenced RGB and multispectral imagery across the implementation area. This will enable comparison with other imagery sources and enable reproducible comparison of visual indicators of infestations during future monitoring events (see Table 2).

The aerial surveys will be undertaken outside of existing tracks and where access is impractical for health and safety reasons.

Where it is not possible to collect key the key data attributes of species, density and infestation area via the aerial survey (see Table 5) for an infestation this data will be established via ground-based surveys where the site can be safely accessed, otherwise this information will be provided as an estimate.

3.4.4 Ground-based Surveys

Ground-based surveys will target the accessible areas of the site using a combination of light vehicle, utility vehicle (UTV) and on-foot within line of sight of existing traversable tracks. Where denser infestations are encountered ecologists will exit the vehicle and capture data on foot and/or via drone.

It is not the intent for ground-based surveys to locate and record every plant, however, small infestations will be more readily detected using this methodology.

Ground-based surveys will be used to confirm and validate potential weed infestations identified via aerial photograph interpretation.

3.4.5 Survey Extent Mapping

The extent of each survey will be provided as a map in which each method of assessment will be broken down (i.e. aerial survey and ground-based survey) in the following manner:

- 1) Ground-based survey extent: Accessible areas around existing access tracks.
- Aerial survey: The extent of aerial imagery collected via UAV that is within the Implementation Area.

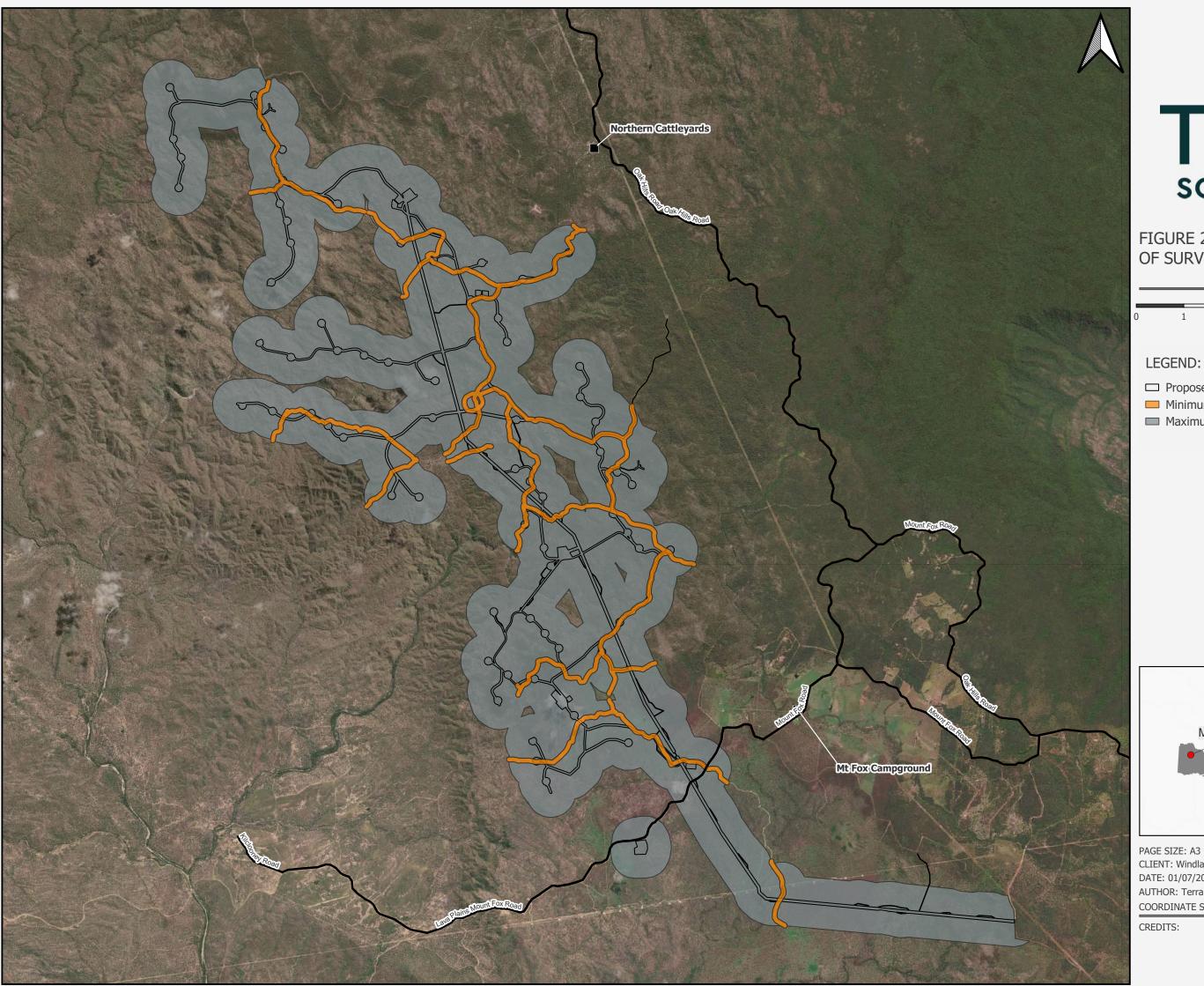
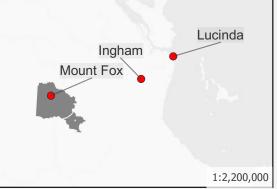




FIGURE 2: ESTIMATED EXTENT OF SURVEY METHODS



- ☐ Proposed Clearing Area
- Minimum Ground Survey Extent
- Maximum Aerial Survey Extent



CLIENT: Windlab Pty Ltd DATE: 01/07/2025 AUTHOR: Terra Solutions

COORDINATE SYSTEM: GDA2020 / MGA zone 55

3.5 Weed Cover Determination

The density of weed infestations detected during ground-based surveys will be estimated via visual inspection. Indicative photographs will be taken during Ground-based surveys and Aerial surveys for verification.

The visual inspection method estimates ground cover by selecting a cover class category (1-7) from Table 3. The cover categories are: 1. Absent; 2. Isolated plants; 3. Very Sparse; 4. Sparse; 5. Mid-dense; 6. Dense and 7. Very dense. This method is beneficial for large sites and is suitable for assessing all growth forms.

A non-compliance in accordance with Condition 40 of the EPBC Approval with regards to abundance would be an increase in the cover class relative to the baseline data (e.g. an increase from very sparse to sparse) for each target weed species at 2, 5, 10, 20, 41, 46, 50, 65 and 69 years after commencement of the Action.

A non-compliance in accordance with Condition 39 of the EPBC Approval would be an increase from Cover Class 1 – Absent or not detected during the Baseline Weed Survey to a higher cover class at 2, 5, 10, 20, 41, 46, 50 and 69 years after commencement of the Action.

The total weed cover for a species is calculated as follows:

 $Total\ Weed\ Cover = \sum (Ci \times Ai)$

Where:

Ci=Middle value of each cover class (expressed as a percentage)

Ai= Area corresponding to that cover class (in the same units, e.g. hectares or square metres)

i = index for each cover class

The process is to iterate through each weed cover class, multiply the cover class by its corresponding area, and sum the results to get the total weed cover.

Table 3: Modified Vegetation Cover Classes, based on Braun–Blanquet Cover-abundance Scale (Watson et al., 2021)

| Cover Class | % Cover Range | Grasses & Forbs | Shrubs | Trees |
|----------------------------|------------------|---|---|---|
| 7 – Very Dense | > 75% | Individual plants are touching or overlapping – forming a monoculture with few other species present. Individuals may be very densely clumped. | The crowns or edges of individual plants of the target species are either touching or overlapping one another – forming a monoculture with few other species present. | As for shrubs. |
| 6 – Dense | 51—75% | Individual plants are slightly separated or touching – not forming a monoculture, with other plants present or bare ground. Individuals may be densely clumped. | The crowns or edges of individual plants of the target species are either slightly separated or touching – not forming a monoculture, with other plants present or bare ground. | As for shrubs. |
| 5 – Mid-dense | 26—50% | Individual plants are separated or rarely touching. Individuals may be moderately clumped. Other plants present or bare ground. | The crowns or edges of individual plants of the target species are clearly separated. Other plants present or bare ground. | As for shrubs. |
| 4 – Sparse | 11—25% | Individual plants are well separated. Other plant species dominate and typically occur between the target species. Small clumps may occur. | The crowns or edges of individual plants of the target species are well-separated. Other plant species dominate and typically occur between the target species. | As for shrubs except the degree of crown separation is higher. |
| 3 – Very sparse | 1—10% | Individuals scattered. Small clumps may occur. | Individual plants of the target species are scarce or scattered. | As for shrubs except the individual plants of the target species are further apart. |
| 2 – Isolated plants | <1% | Plants are extremely isolated. May consist of only one record of the species. | As for grasses, forbs, etc. | As for grasses, forbs, etc. |
| 1 – Absent or not detected | - | - | - | - |

3.6 Weed Extent Mapping

A weed map for each target species detected will be prepared using Geographic Information System software (e.g. ArcGIS or QGIS) using point data information (Table 5 and Table 6) from surveys and interpretation of RGB imagery previously collected by Windlab and/or UAV during the Baseline Weed Survey. Each weed map will be presented at an appropriate scale in accordance with Table 4.

Where infestation extents identified during aerial surveys cannot be accurately delineated using RGB imagery, the extents will utilise indicative circular polygons using the area estimates from field data collection information (i.e. for an approximate 10 ha infestation, the radius will be approximately 178 m).

Weed infestations will be divided into separate sites if there is a gap of 200 m or more between stands of similar density or where there is a useful and obvious boundary between infestations (e.g. property boundary, drainage line, road). Infestations will be stratified by density so that areas with uniform cover are grouped together.

The smallest weed extent mapped as a polygon will be 1,000 m². Individual plants will not be mapped due to the project scale.

In accordance with condition 108 of the EPBC Approval spatial data including field data and any post-processed weed mapping is to be prepared in accordance with the *Guide to providing maps and boundary data for EPBC Act projects* (DAWE, 2021). All data is to be provided in Esri shapefile format as per the definitions of the approval, where shapefiles consist of the following:

- a) '.shp', '.shx', '.dbf' files,
- b) a '.prj' file which specifies the projection or geographic coordinate system used, and
- c) an '.xml' metadata file that describes the shapefile for discovery and identification purposes.

A non-compliance in accordance with Condition 40 of the EPBC Approval with regards to weed extent would be an increase in the total mapped area for each target weed species at 2, 5, 10, 20, 41, 46, 50, 65 and 69 years after commencement of the Action.

Table 4: Weed Mapping Approach

| Feature Type | Area | Density |
|--------------|--|--|
| Point | Non-linear infestations < 1 ha | Green – (1 – 5 %) |
| Line | Linear infestations (e.g. along watercourses) less than 50 m wide. | Yellow (6% – 25%) |
| Polygon | Non-linear infestations > 1 ha | Orange (26% – 50%) Bright Red (51% – 75%) |
| | | Dark Red (> 75%) |

3.7 Data Collection

The location and attributes of the targeted weed species will be recorded using a customised data collection program Fulcrum® and Bad Elf GNSS Surveyor, or similar. Detection of species and analysis of infestations is based around the classification groups in Table 3. The baseline assessment and future monitoring will be completed with the intent of detecting a change in distribution or density from one class to another.

Measurable attributes and other field-based parameters, and the field and values collected for each entry are presented in Table 5.

Each record captured will be for one species record per event. Individual plants will only be recorded where it is a target species and hasn't previously been recorded. The smallest area recorded will be 1,000 m² (0.1 ha).

Table 5: Data Collection Fields & Values

| Data Type | Value Type | Format |
|----------------------|---------------------------|--|
| Unique identifier* | Alphanumeric | Automatically generated |
| Date* | Text | DD-MM-YYYY |
| Collector* | Text | Name |
| Species* | Text | Genus species |
| Life cycle* | Categorical (multichoice) | FloweringFruitingFlushingAbsent |
| Common name | Text | |
| Coordinate system* | Alphanumeric | WGS84 |
| Location/elevation* | Numerical | Latitude (-dd.dddddd)Longitude (ddd.dddddd)Elevation (mAHD) |
| Coordinate precision | Numerical | Automatically generated |
| Survey method | Categorical | VehicleATVFootAerialDrone |
| Density | Categorical | Absent or not detected 1 - 5 % 6% - 25% 26% - 50% 51% - 75% > 75% Present (density unknown) Not known (or uncertain) Not assessed |
| Area estimate | Categorical | < 0.1 ha (1,000m2) 0.1 ha –1 ha 1 ha – 10 ha 10 ha – 100 ha 100 ha – 1,000 ha > 1,000 ha |
| Habitat | Broad vegetation group | Refer Table 6. |
| Photograph | Image | |
| Other | | Other relevant information e.g. substrate, soils, disturbance. Source point if known, and distance from source point. |

3.8 Vegetation Communities

State mapping identifies primarily remnant vegetation, with large polygons containing up to three Regional Ecosystems (REs) reflecting geological variations. Ecological surveys undertaken by Ecological (2020) identified 69 REs across six land zones within two bioregions. Field surveys confirmed the accuracy of state-mapped RE boundaries noting that heterogeneous polygons in general sufficiently represented the area.

Dominant vegetation types included primarily *Eucalyptus* and *Corymbia* open forests and woodlands with variable shrub layers (dominated by *Acacia* spp.) and a ground layer commonly consisting of *Themeda triandra* and *Heteropogon* spp. Small patches of vine thicket, simple notophyll vine forest occurred along with riparian woodland along major watercourses.

A description of the broad vegetation groups identified by Eco Logical Australia is presented in Table 6. These broad vegetation groups will be used to define habitat types during weed surveys of the Implementation Area.

Table 6: Habitat Types

| BVG (5 Million) | BVG | Description |
|---|------------|---|
| | | |
| 5. Notophyll to microphyll vine forests, frequently with Araucaria spp. or Agathis spp. (kauri pines) | 5b | Notophyll to microphyll vine forests, frequently with <i>Araucaria</i> cunninghamii (hoop pine), on ranges of central coastal bioregions. (land zones 12, 11, 8) |
| 6. Notophyll vine forest and microphyll fern forests to thickets on high peaks and plateaus | 6b | Simple evergreen notophyll vine forest to simple microphyll vine fern thicket on high peaks and plateaus of northern Queensland (land zones 12, 11) |
| 7. Semi-evergreen to deciduous microphyll vine thickets | 7a | Semi-evergreen vine thickets on wide range of substrates. (land zones 8, 9, 11, 12, 5, 4, 3, 10, [7]) |
| 8. Wet eucalypt tall open forests on uplands and alluvia | 8a | Wet tall open forest dominated by species such as <i>Eucalyptus grandis</i> (flooded gum) or E. saligna, <i>E. resinifera</i> (red mahogany), <i>Lophostemon confertus</i> (brush box), <i>Syncarpia glomulifera</i> (turpentine), <i>E. laevopinea</i> (silvertop stringybark). Contains a well-developed understorey of rainforest components, including ferns and palms, or the understorey may be dominated by sclerophyll shrubs. (land zones 12, 8, 10, 11, 3, 5, 9) |
| 9. Moist to dry eucalypt open forests to woodlands usually on coastal lowlands and ranges | 9c | Open forests of <i>Corymbia clarksoniana</i> (grey bloodwood) (or <i>C. intermedia</i> (pink bloodwood) or <i>C. novoguinensis</i>), <i>C. tessellaris</i> (carbeen) ± <i>Eucalyptus tereticornis</i> (blue gum) predominantly on coastal ranges. Other frequent tree species include <i>Eucalyptus drepanophylla</i> (grey ironbark), <i>E. pellita</i> (large-fruited red mahogany), <i>E. brassiana</i> (Cape York red gum) and <i>Lophostemon suaveolens</i> (swamp box). (land zones 12, 11, 8, 5). |
| | 9d | Moist to dry open forest to woodland dominated by <i>Eucalyptus</i> portuensis, <i>Corymbia intermedia</i> (pink bloodwood), <i>E. drepanophylla</i> , <i>E. resinifera</i> or <i>E. reducta</i> +/- <i>Syncarpia glomulifera</i> (turpentine) or <i>E. cloeziana</i> (Gympie messmate) on ranges. Also includes mixed forests with <i>Eucalyptus pellita</i> or <i>Corymbia torelliana</i> emergents and rainforest understories (land zones 12, 11, 3, 9, 5, 8). |
| | 9 e | Open forests, woodlands and open woodlands dominated by <i>Corymbia clarksoniana</i> (grey bloodwood) (or <i>C. novoguinensis</i> or <i>C. intermedia</i> (pink bloodwood) or <i>C. polycarpa</i> (long-fruited bloodwood)) frequently with <i>Erythrophleum chlorostachys</i> (red ironwood) or <i>Eucalyptus platyphylla</i> (poplar gum) predominantly on coastal sandplains and alluvia. (land zones 3, 5, 2). |
| 10. Corymbia citriodora (spotted gum) dominated open forests to woodlands on undulating to hilly torrain | 10a | Dry woodlands to open woodlands dominated by <i>Corymbia citriodora</i> (spotted gum). (land zones 10, 7, 12, 11, 8) |
| undulating to hilly terrain | 10b | Moist open forests to woodlands dominated by <i>Corymbia citriodora</i> (spotted gum). (land zones 12, 11, 9, 5, 8) |
| 11. Moist to dry eucalypt open forests to woodlands mainly on basalt areas (land zone 8) | 11b | Moist to dry open forests to woodlands dominated by <i>Eucalyptus crebra</i> (narrow-leaved red ironbark) or <i>E. tereticornis</i> (blue gum), frequently with <i>Corymbia species</i> or <i>E. microneura</i> (Gilbert River box) on red krasnozems on undulating terrain. (land zone 8) |
| 12. Dry eucalypt woodlands to open woodlands, mostly on shallow soils in hilly terrain (mainly on sandstone and weathered rocks, land zones 7 and 10) | 12b | Woodlands and open woodlands dominated by <i>Eucalyptus crebra</i> (sens. lat) (narrow-leaved red ironbark) and/or Corymbia spp. such as <i>C. clarksoniana</i> (grey bloodwood), <i>C. stockeri</i> , <i>C. setosa</i> (rough leaved bloodwood) or <i>C. peltata</i> (yellowjacket) on hilly terrain. (land zones 7, 10, 11) |
| 13. Dry to moist eucalypt woodlands and open forests, mainly on undulating to | 13c | Woodlands of <i>Eucalyptus crebra</i> (sens. lat.) (narrow-leaved red ironbark), <i>E. drepanophylla</i> (grey ironbark), <i>E. fibrosa</i> (dusky-leaved |

| | Description |
|-----|--|
| | |
| | ironbark), <i>E. shirleyi</i> (shirley's silver-leaved ironbark) on granitic and metamorphic ranges (land zones 12, 11, 9, 5) |
| 13d | Woodlands dominated by <i>Eucalyptus moluccana</i> (gum-topped box) (or <i>E. microcarpa</i> (inland grey box)) on a range of substrates. (land zone 5, 9, 3, 11, 12) |
| 16a | Open forest and woodlands dominated by <i>Eucalyptus camaldulensis</i> (river red gum) (or <i>E. tereticornis</i> (blue gum)) and/or <i>E. coolabah</i> (coolabah) (or <i>E. microtheca</i> (coolabah)) fringing drainage lines. Associated species may include Melaleuca spp., <i>Corymbia tessellaris</i> (carbeen), Angophora spp., <i>Casuarina cunninghamiana</i> (riveroak). Does not include alluvial areas dominated by herb and grasslands or alluvial plains that are not flooded. (land zone 3) |
| 16c | Woodlands and open woodlands dominated by <i>Eucalyptus coolabah</i> (coolabah) or <i>E. microtheca</i> (coolabah) or <i>E. largiflorens</i> (black box) or <i>E. tereticornis</i> (blue gum) or E. chlorophylla on floodplains. Does not include alluvial areas dominated by herb and grasslands or alluvial plains that are not flooded. (land zone 3) |
| 16d | Riverbeds, open water or sand, or rock, frequently unvegetated. (land zone 3) |
| 17d | Woodlands to open woodlands dominated by <i>Eucalyptus melanophloia</i> (silver-leaved ironbark) (or <i>E. shirleyi</i> (shirley's silver-leaved ironbark)) on sand plains and footslopes of hills and ranges. (land zones 5, 12, 3, 11, 9, 7) |
| 18b | Woodlands dominated <i>Eucalyptus crebra</i> (sens. lat.) (narrow-leaved red ironbark) frequently with Corymbia spp. or Callitris spp. on flat to undulating plains. (land zones 5, 3) |
| 19d | Low open woodlands dominated by Eucalyptus persistens (or <i>E. normantonensis</i> (Normanton box), <i>E. tardecidens, E. provecta</i>) with Triodia spp. dominated ground layer, mainly on hills and ranges. (land zones 7, 11, 12, 5, 4, 10) |
| 22c | Open forests dominated by Melaleuca spp. (<i>M. argentea</i> (silver teatree), <i>M. leucadendra</i> (broad-leaved tea-tree), <i>M. dealbata</i> (swamp tea-tree) or <i>M. fluviatilis</i>), fringing major streams with <i>Melaleuca saligna</i> or <i>M. bracteata</i> (black tea-tree) in minor streams. (land zone 3) |
| 28e | Low open forest to woodlands dominated by <i>Lophostemon suaveolens</i> (swamp box) (or <i>L. confertus</i> (brush box)) or <i>Syncarpia glomulifera</i> (turpentine) frequently with <i>Allocasuarina</i> spp. on rocky hill slopes (land zones 12, 9, 3, 11, [10, 8]). |
| 29b | Open shrublands to open heaths in montane frequently rocky locations. (land zones 7, 12, 11, 5, 8, 10) |
| 30b | Tussock grasslands dominated by Astrebla spp. (mitchell grass) or Dichanthium spp. (bluegrass) often with Iseilema spp. on undulating downs or clay plains. (land zones 9, 3, 4, 8, [5]) |
| | (1 Million) 13d 16a 16c 16d 17d 18b 19d 22c 28e |

4 Reporting

This section outlines the reporting requirements for Baseline Weed Survey of the Implementation Area. A Baseline Weed Report will be prepared at the completion of the field investigations.

The Baseline Weed Report will provide the baseline approximate species, extent and density of weed infestations by which all future monitoring requirements are compared. These reports will include the following:

- Introduction: A brief introduction to the project.
- Scope of work: A brief description of the tasks undertaken.
- Limitations: A description of the limitations imposed during the survey, necessitating an improved approach to the field effort, access restrictions, species detectability, timing and/or methodology.
- Methods including:
 - The desktop and field survey methodology.
 - Survey timing and timeframe, and
 - Maps indicating field survey tracks and survey extent.
- Results including:
 - Results of the desktop review including any new weed species recorded locally and regionally.
 - A summary of the survey results in tabulated form, and
 - Maps indicating the weed extent and density observed during field investigations.
- · Recommendations including:
 - The provision of recommendations addressing any limitations identified.
 - Recommendations for the full Baseline Assessment report including proposed survey methods to quantify weed extent and density.
 - Priority areas for ongoing management, and
 - Division of the Implementation Area into weed management areas.
- Provision of a completed survey dataset including supporting data for each datapoint collected and the provision of all GIS files mapping files.

5 References

- DAWE. (2021). *Guide to providing maps and boundary data for EPBC Act projects,*. Department of Agriculture, Water and the Environment.
- Eco Logical Australia. (2020). Upper Burdekin Wind Farm—Ecological Assessment.
- McNaught, I., Thackway, R., Brown, L., & Parsons, M. (2008). *A Field Manual For Surveying and Mapping Nationally Significant Weeds. 2nd Edition.* Bureau of Rural Sciences, Canberra.
- Watson, G. M., French, K. O., Burley, A. L., Brading, M. B., & Hamilton, M. A. (2021). *Monitoring Manual for Invasive and Native Flora: Guidance for field monitoring and reporting*. NSW Department of Planning, Industry and Environment.

Appendix A Wildlife Online Search Results

Search Criteria:

Species:

Species List for a Specified Point

Introduced Queensland status: All All Records: Date: ΑII Latitude: -18.7736 Longitude: 145.7432 100 Distance: anton@terrasolutions.com.au Date submitted: Wednesday 18 Sep 2024 14:00:29 Date extracted: Wednesday 18 Sep 2024 14:10:01

All

The number of records retrieved = 427

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Description of the CODES

I-Y indicates that the taxon is introduced to Queensland and has naturalised.

Q - Indicates the Queensland conservation status of each taxon under the Nature Conservation Act 1992. The codes are Extinct (EX), Extinct in the Wild (PE), Critically Endangered (CR), Endangered (E), Vulnerable (V), Near Threatened (NT), Special Least Concern (SL) and Least Concern (C).

A - Indicates the Australian conservation status of each taxon under the Environment Protection and Biodiversity Conservation Act 1999. The values of EPBC are Extinct (EX), Extinct in the Wild (XW), Critically Endangered (CE), Endangered (E), Vulnerable (V) and Conservation Dependent (CD).

Records - The first number indicates the total number of records of the taxon (wildlife records and species listings for selected areas). This number is output as 99999 if it equals or exceeds this value. A second number located after a / indicates the number of specimen records for the taxon. This number is output as 999 if it equals or exceeds this value.

| Kingdom | Class | Family | Scientific Name | Common Name | 1 | Q | A Sighting Records | Specimen Records |
|------------------|----------------------------|----------------------------|---|------------------------|--------|---|--------------------|------------------|
| animals | amphibians | Bufonidae | Rhinella marina | cane toad | Υ | | 645 | 1 |
| animals | birds | Cacatuidae | Cacatua tenuirostris | long-billed corella | Υ | С | 2 | . 0 |
| animals | birds | Columbidae | Columba livia | rock dove | Υ | | 7 | 0 |
| animals | birds | Columbidae | Spilopelia chinensis | spotted dove | Υ | | 69 | 1 |
| animals | birds | Estrildidae | Lonchura punctulata | nutmeg mannikin | Υ | | 80 | |
| animals | birds | Passeridae | Passer domesticus | house sparrow | Υ | | 91 | . 0 |
| animals | birds | Phasianidae | Pavo cristatus | Indian peafowl | Υ | | 5 | 0 |
| animals | birds | Sturnidae | Acridotheres tristis | common myna | Υ | | 175 | 0 |
| animals | birds | Sturnidae | Sturnus vulgaris | common starling | Υ | | 5 | |
| animals | insects | Nymphalidae | Danaus plexippus | monarch | Υ | | 1 | |
| animals | mammals | Bovidae | Bos indicus | zebu | Υ | | 1 | |
| animals | mammals | Bovidae | Bos sp. | cattle | Υ | | 7 | |
| animals | mammals | Bovidae | Bos taurus | European cattle | Υ | | 81 | |
| animals | mammals | Bovidae | Capra hircus | goat | Υ | | 2 | |
| animals | mammals | Canidae | Canis familiaris | dog | Υ | | 9 | |
| animals | mammals | Canidae | Canis sp. | | Υ | | 5 | |
| animals | mammals | Cervidae | Axis axis | chital | Υ | | 10 | |
| animals | mammals | Equidae | Equus caballus | horse | Υ | | 25 | |
| animals | mammals | Felidae | Felis catus | cat | Υ | | 70 | |
| animals | mammals | Leporidae | Oryctolagus cuniculus | rabbit | Υ | | 70 | |
| animals | mammals | Muridae | Mus musculus | house mouse | Υ | | 58 | |
| animals | mammals | Muridae | Rattus norvegicus | brown rat | Υ | | 1 | |
| animals | mammals | Muridae | Rattus rattus | black rat | Υ | | 17 | |
| animals | mammals | Suidae | Sus scrofa | pig | Υ | | 109 | |
| animals | ray-finned fishes | Cichlidae | Oreochromis mossambica | Mozambique mouthbroode | | | 89 | |
| animals | ray-finned fishes | Cichlidae | Tilapia mariae | spotted tilapia | Υ | | 3 | |
| animals | ray-finned fishes | Poeciliidae | Gambusia holbrooki | mosquitofish | Υ | | 11 | |
| animals | ray-finned fishes | Poeciliidae | Poecilia reticulata | guppy | Υ | | 16 | |
| animals | ray-finned fishes | Poeciliidae | Xiphophorus maculatus | platy | Υ | | 6 | |
| animals | reptiles | Gekkonidae | Hemidactylus frenatus | house gecko | Υ | | 9 | |
| plants | land plants | Acanthaceae | Asystasia gangetica subsp. gangetica | | Υ | | 2 | |
| plants | land plants | Acanthaceae | Brillantaisia lamium | | Y Y | | 1 | |
| plants | land plants | Acanthaceae | Hygrophila costata | | Υ | | 1 | |
| plants | land plants | Acanthaceae | Hygrophila triflora | | | | | |
| plants | land plants | Acanthaceae | Hypoestes phyllostachya Odontosoma avanidatum | | Y Y | | 1 | |
| plants | land plants | Acanthaceae | Odontonema cuspidatum | | Υ | | 1 | |
| plants | land plants land plants | Acanthaceae Acanthaceae | Ruellia simplex Thunbergia alata | black-eyed Susan | Ϋ́ | | 1 | |
| plants plants | land plants | Acanthaceae | Thunbergia atata Thunbergia fragrans | black-eyed Susan | Ϋ́ | | 9 | |
| plants | land plants | Acanthaceae | Thunbergia ir agrans Thunbergia grandiflora | sky flower | Y | | 1 | |
| plants | land plants | Aizoaceae | Trianthema portulacastrum | black pigweed | Y | | 1 | |
| plants | land plants | Alismataceae | Echinodorus cordifolius | black pigweeu | Y | | 1 | |
| plants | land plants | Alismataceae | Limnocharis flava | yellow burrhead | Y | | 5 | |
| plants | land plants | Alismataceae | Sagittaria platyphylla | sagittaria | Y | | 1 | |
| plants | land plants | Amaranthaceae | Alternanthera brasiliana | Sugitturiu | Y | | 1 | |
| plants | land plants | Amaranthaceae | Alternanthera ficoidea | | Y | | 15 | |
| plants | land plants | Amaranthaceae | Alternanthera pungens | khaki weed | Y | | 5 | |
| plants | land plants | Amaranthaceae | Amaranthus hybridus | redshank | Y | | 1 | |
| plants | land plants | Amaranthaceae | Amaranthus viridis | green amaranth | Y | | 2 | |
| plants | land plants | Amaranthaceae | Celosia argentea | 8 | Υ | | - | |
| plants | land plants | Amaranthaceae | Gomphrena celosioides | gomphrena weed | Υ | | 8 | |
| plants | land plants | Anacardiaceae | Anacardium occidentale | | Υ | | 1 | |
| plants | land plants | Anacardiaceae | Mangifera indica | mango | Υ | | 2 | |
| plants | land plants | Anacardiaceae | Schinus terebinthifolius | • | Υ | | 1 | |
| plants | land plants | Annonaceae | Annona glabra | pond apple | Υ | | 2 | . 2 |
| plants | land plants | Annonaceae | Annona reticulata | custard apple | Υ | | 1 | |
| plants | land plants | Apiaceae | Cyclospermum leptophyllum | ** | Υ | | 3 | |
| plants | land plants | Apocynaceae | Asclepias curassavica | red-head cottonbush | Υ | | 6 | |
| plants | land plants | Apocynaceae | Calotropis gigantea | | Υ | | 1 | . 1 |
| plants | land plants | Apocynaceae | Calotropis procera | | Υ | | 4 | 4 |
| plants | land plants | Apocynaceae | Cascabela thevetia | yellow oleander | Υ | | 3 | 2 |
| | | | | | | | | |

| plants | land plants | Apocynaceae | Catharanthus roseus | pink periwinkle | Υ : | |
|--------|-------------|------------------|---------------------------------------|--|------|------|
| plants | land plants | Apocynaceae | Cryptostegia grandiflora | rubber vine | Y 3 | |
| plants | land plants | Apocynaceae | Rauvolfia tetraphylla | | Y | |
| plants | land plants | Araceae | Syngonium podophyllum | !: #! | | |
| plants | land plants | Aristolochiaceae | Aristolochia elegans | calico-flower | • | |
| plants | land plants | Asteraceae | Acanthospermum hispidum | star burr | · | |
| plants | land plants | Asteraceae | Ageratum conyzoides | billygoat weed | Y 1 | |
| plants | land plants | Asteraceae | Ageratum conyzoides subsp. conyzoides | No. 120 marsh and | Y | |
| plants | land plants | Asteraceae | Ageratum houstonianum | blue billygoat weed | Υ : | |
| plants | land plants | Asteraceae | Bidens alba var. radiata | | Y | |
| plants | land plants | Asteraceae | Bidens bipinnata | bipinnate beggar's ticks | Υ : | |
| plants | land plants | Asteraceae | Bidens pilosa | | Υ . | |
| plants | land plants | Asteraceae | Calyptocarpus vialis | creeping cinderella weed | Υ : | |
| plants | land plants | Asteraceae | Centratherum punctatum | | Y | 6 |
| plants | land plants | Asteraceae | Chromolaena odorata | Siam weed | Y 2 | 4 21 |
| plants | land plants | Asteraceae | Chromolaena squalida | | Υ : | 3 3 |
| plants | land plants | Asteraceae | Cirsium vulgare | spear thistle | Y | 1 0 |
| plants | land plants | Asteraceae | Cosmos caudatus | | Υ : | 1 1 |
| plants | land plants | Asteraceae | Crassocephalum crepidioides | thickhead | Y 1 | 1 10 |
| plants | land plants | Asteraceae | Eclipta prostrata | white eclipta | Y 19 | 9 11 |
| plants | land plants | Asteraceae | Elephantopus mollis | tobacco weed | Y | 1 1 |
| plants | land plants | Asteraceae | Eleutheranthera ruderalis | | Υ | |
| plants | land plants | Asteraceae | Emilia sonchifolia | | Υ | |
| plants | land plants | Asteraceae | Emilia sonchifolia var. javanica | | Υ | |
| plants | land plants | Asteraceae | Emilia sonchifolia var. sonchifolia | | Υ 1 | |
| plants | land plants | Asteraceae | Erechtites valerianifolius | | Y | |
| plants | land plants | Asteraceae | Erigeron bonariensis | | Y | |
| plants | land plants | Asteraceae | Erigeron pusillus | | Y | |
| plants | land plants | Asteraceae | Erigeron sumatrensis | | Y | |
| plants | land plants | Asteraceae | Galinsoga parviflora | yellow weed | Y | |
| | | | | yellow weed | | |
| plants | land plants | Asteraceae | Gamochaeta pensylvanica | | | |
| plants | land plants | Asteraceae | Gnaphalium polycaulon | | | |
| plants | land plants | Asteraceae | Mikania micrantha | mikania vine | Y | |
| plants | land plants | Asteraceae | Parthenium hysterophorus | parthenium weed | Y | |
| plants | land plants | Asteraceae | Praxelis clematidea | | Y 6 | |
| plants | land plants | Asteraceae | Pseudelephantopus spicatus | | Υ . | |
| plants | land plants | Asteraceae | Solidago altissima subsp. altissima | goldenrod | Y | |
| plants | land plants | Asteraceae | Soliva anthemifolia | dwarf jo jo weed | Υ : | |
| plants | land plants | Asteraceae | Sonchus oleraceus | common sowthistle | Υ : | 3 3 |
| plants | land plants | Asteraceae | Sphagneticola trilobata | | Y 1: | 3 5 |
| plants | land plants | Asteraceae | Synedrella nodiflora | | Υ | 7 7 |
| plants | land plants | Asteraceae | Synedrellopsis grisebachii | | Υ : | 1 1 |
| plants | land plants | Asteraceae | Tagetes minuta | stinking roger | Υ | 5 4 |
| plants | land plants | Asteraceae | Thymophylla tenuiloba | | Y | 1 1 |
| plants | land plants | Asteraceae | Tithonia diversifolia | Japanese sunflower | Y | 1 0 |
| plants | land plants | Asteraceae | Tridax procumbens | tridax daisy | Υ 1 | |
| plants | land plants | Asteraceae | Xanthium occidentale | | Y | |
| plants | land plants | Bignoniaceae | Pyrostegia venusta | | Υ : | |
| plants | land plants | Bignoniaceae | Spathodea campanulata subsp. nilotica | | Υ | |
| plants | land plants | Bignoniaceae | Tecoma stans var. stans | | Υ | |
| plants | land plants | Boraginaceae | Heliotropium indicum | | Y | |
| plants | land plants | Brassicaceae | Cardamine flexuosa | wood bittercress | Y | |
| plants | land plants | Brassicaceae | Lepidium bonariense | Argentine peppercress | Y | |
| | | | | Argentine peppercress | Y | |
| plants | land plants | Brassicaceae | Lepidium didymum | No. 2 de la companya del companya de la companya de la companya del companya de la companya de l | | |
| plants | land plants | Brassicaceae | Lepidium virginicum | Virginian peppercress | Υ : | |
| plants | land plants | Brassicaceae | Rorippa palustris | marsh cress | Y | |
| plants | land plants | Cabombaceae | Cabomba caroliniana var. caroliniana | cabomba | | 2 2 |
| plants | land plants | Cactaceae | Hylocereus undatus | night blooming cactus | Y | |
| plants | land plants | Cactaceae | Opuntia stricta | | Y | |
| plants | land plants | Cannaceae | Canna indica | Indian shot | Y | |
| plants | land plants | Caprifoliaceae | Lonicera japonica | Japanese honeysuckle | | 3 |
| plants | land plants | Caryophyllaceae | Drymaria cordata subsp. cordata | | Υ : | - |
| plants | land plants | Cleomaceae | Tarenaya aculeata | | Y | |
| plants | land plants | Cleomaceae | Tarenaya houtteana | | | 2 2 |
| plants | land plants | Commelinaceae | Commelina benghalensis | | Y | |
| plants | land plants | Commelinaceae | Murdannia nudiflora | | Υ : | |
| plants | land plants | Commelinaceae | Tradescantia spathacea | | | 2 2 |
| plants | land plants | Commelinaceae | Tradescantia zebrina | | Υ : | 2 2 |
| plants | land plants | Convolvulaceae | Argyreia nervosa | | Y | 2 2 |
| plants | land plants | Convolvulaceae | Distimake dissectus | | Y | 1 1 |
| plants | land plants | Convolvulaceae | Distimake quinquefolius | | Y | |
| plants | land plants | Convolvulaceae | Evolvulus nummularius | | Y | |
| plants | land plants | Convolvulaceae | Ipomoea hederifolia | | Υ : | |
| plants | land plants | Convolvulaceae | Ipomoea nil | | Υ | 7 6 |
| plants | land plants | Convolvulaceae | Ipomoea quamoclit | star of Bethlehem | Y | |
| plants | land plants | Convolvulaceae | Ipomoea triloba | | Υ : | 2 2 |
| plants | land plants | Crassulaceae | Bryophyllum delagoense | | Υ : | 2 1 |
| plants | land plants | Crassulaceae | Bryophyllum pinnatum | resurrection plant | Υ : | 2 2 |
| plants | land plants | Cucurbitaceae | Citrullus amarus | | Y | 1 1 |
| plants | land plants | Cucurbitaceae | Cucumis anguria var. anguria | West Indian gherkin | Y | 4 4 |
| plants | land plants | Cucurbitaceae | Cucumis metuliferus | prickly cucumber | Y | 1 1 |
| plants | land plants | Cucurbitaceae | Cucurbita pepo | | Y | 1 1 |
| plants | land plants | Cucurbitaceae | Momordica charantia | balsam pear | Υ : | 1 1 |
| plants | land plants | Cyperaceae | Cyperus aromaticus | | Y | 8 |
| plants | land plants | Cyperaceae | Cyperus brevifolius | Mullumbimby couch | Y 1 | |
| plants | land plants | Cyperaceae | Cyperus involucratus | | Υ | 1 1 |
| plants | land plants | Cyperaceae | Cyperus melanospermus | | Y 1 | |
| plants | land plants | Cyperaceae | Cyperus metzii | | Y | |
| plants | land plants | Cyperaceae | Cyperus mindorensis | | Υ | |
| plants | land plants | Cyperaceae | Cyperus rotundus | nutgrass | Y | |
| plants | land plants | Cyperaceae | Cyperus sesquiflorus | 9 | Y | |
| plants | land plants | Cyperaceae | Cyperus sphacelatus | | Y | |
| plants | land plants | Cyperaceae | Eleocharis minuta | | Y 19 | |
| plants | land plants | Cyperaceae | Schoenoplectiella erecta | | Y | |
| plants | land plants | Dioscoreaceae | Dioscorea alata | greater yam | Y | |
| plants | land plants | Dracaenaceae | Dracaena fragrans | grouter yairi | Y | |
| plants | land plants | Euphorbiaceae | Euphorbia heterophylla | | Y | |
| plants | land plants | Euphorbiaceae | Euphorbia hirta | | Y | |
| plants | land plants | Euphorbiaceae | Euphorbia hyssopifolia | | Y | |
| plants | land plants | Euphorbiaceae | Euphorbia thymifolia | | Y | |
| plants | land plants | Euphorbiaceae | Jatropha curcas | physic nut | Y | |
| punto | ана ринта | Laphorbiaceae | . 3 ti opina ourodo | priyate nat | • | |
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| plants | land plants | Euphorbiaceae | Manihot esculenta | | Υ | 2 | 2 |
|--|---|--|--|---|---------------------------------------|--|---|
| plants | land plants | Euphorbiaceae | Ricinus communis | castor oil bush | Ϋ́ | 5 | 3 |
| plants | land plants | Iridaceae | Gladiolus x gandavensis | oustor on busin | Υ | 1 | 1 |
| plants | land plants | Lamiaceae | Hyptis capitata | | Υ | 8 | 6 |
| plants | land plants | Lamiaceae | Leucas lavandulifolia | | Υ | 2 | 2 |
| plants | land plants | Lamiaceae | Mesosphaerum pectinatum | | Υ | 1 | 1 |
| plants | land plants | Lamiaceae | Mesosphaerum suaveolens | | Y | 9 | 4 |
| plants plants | land plants land plants | Lamiaceae Lamiaceae | Ocimum americanum Ocimum x africanum | | Y Y | 3 2 | 2 |
| plants | land plants | Lamiaceae | Salvia hispanica | | Ϋ́ | 1 | 1 |
| plants | land plants | Lamiaceae | Salvia misella | | Y | 4 | 4 |
| plants | land plants | Lamiaceae | Salvia reflexa | | Υ | 4 | 4 |
| plants | land plants | Lamiaceae | Tectona grandis | | Υ | 1 | 1 |
| plants | land plants | Leguminosae | Acaciella angustissima | white ball acacia | Υ | 1 | 1 |
| plants | land plants | Leguminosae | Acaciella glauca | redwood | Y Y | 9 | 9 |
| plants plants | land plants land plants | Leguminosae Leguminosae | Aeschynomene americana Aeschynomene americana var. americana | | Y | 1 7 | 1 7 |
| plants | land plants | Leguminosae | Aeschynomene americana var. glandulosa | | Υ | 1 | 1 |
| plants | land plants | Leguminosae | Aeschynomene villosa | | Υ | 4 | 3 |
| plants | land plants | Leguminosae | Alysicarpus bupleurifolius | sweet alys | Υ | 4 | 4 |
| plants | land plants | Leguminosae | Alysicarpus vaginalis | | Υ | 7 | 6 |
| plants | land plants | Leguminosae | Biancaea decapetala | | Y Y | 1 7 | 1 7 |
| plants plants | land plants land plants | Leguminosae Leguminosae | Calopogonium mucunoides Centrosema molle | | Ϋ́Υ | 7 | 7 |
| plants | land plants | Leguminosae | Centrosema pascuorum | | Y | 2 | 2 |
| plants | land plants | Leguminosae | Chamaecrista rotundifolia | | Y | 6 | 2 |
| plants | land plants | Leguminosae | Chamaecrista rotundifolia var. rotundifolia | | Υ | 7 | 7 |
| plants | land plants | Leguminosae | Clitoria laurifolia | | Υ | 4 | 4 |
| plants | land plants | Leguminosae | Clitoria ternatea | butterfly pea | Y | 1 | 1 |
| plants | land plants | Leguminosae Leguminosae | Crotalaria goreensis Crotalaria grahamiana | gambia pea | Y Y | 24 1 | 19 1 |
| plants plants | land plants land plants | Leguminosae | Crotalaria incana | | Ϋ́ | 1 | 0 |
| plants | land plants | Leguminosae | Crotalaria incana subsp. incana | | Υ | 2 | 2 |
| plants | land plants | Leguminosae | Crotalaria juncea | sunhemp | Υ | 4 | 4 |
| plants | land plants | Leguminosae | Crotalaria laburnifolia | | Υ | 5 | 5 |
| plants | land plants | Leguminosae | Crotalaria lanceolata subsp. lanceolata | | Υ | 9 | 9 |
| plants | land plants | Leguminosae | Crotalaria micans | | Y | 1 | 1 0 |
| plants plants | land plants land plants | Leguminosae Leguminosae | Crotalaria pallida Crotalaria pallida var. obovata | | Y Y | 2 13 | 13 |
| plants | land plants | Leguminosae | Desmanthus leptophyllus | | Y | 1 | 1 |
| plants | land plants | Leguminosae | Desmanthus pernambucanus | | Υ | 1 | 0 |
| plants | land plants | Leguminosae | Desmodium heterophyllum | | Υ | 1 | 1 |
| plants | land plants | Leguminosae | Desmodium intortum | | Υ | 1 | 1 |
| plants | land plants | Leguminosae | Desmodium scorpiurus | | Υ | 2 | 2 |
| plants | land plants | Leguminosae | Desmodium strigillosum | Florido bordes | Y | 1 | 1 5 |
| plants plants | land plants land plants | Leguminosae Leguminosae | Desmodium tortuosum Desmodium triflorum | Florida beggar-weed | Y Y | 5 7 | 5 7 |
| plants | land plants | Leguminosae | Indigofera suffruticosa | | Y Y | 2 | 2 |
| plants | land plants | Leguminosae | Indigofera tinctoria | | Υ | 5 | 5 |
| plants | land plants | Leguminosae | Lablab purpureus | lablab | Υ | 1 | 1 |
| plants | land plants | Leguminosae | Leucaena leucocephala | | Υ | 44 | 0 |
| plants | land plants | Leguminosae | Leucaena leucocephala subsp. leucocephala | | Y | 12 | 12 |
| plants | land plants | Leguminosae | Lotononis bainesii | lotononis siratro | Y Y | 3 7 | 3 2 |
| plants plants | land plants land plants | Leguminosae Leguminosae | Macroptilium atropurpureum Macroptilium lathyroides | Sildilo | Y | 2 | 2 |
| plants | land plants | Leguminosae | Macrotyloma axillare | | Y | 1 | 0 |
| plants | land plants | Leguminosae | Macrotyloma uniflorum var. uniflorum | | Υ | 2 | 2 |
| plants | land plants | Leguminosae | Mimosa pudica | | Υ | 4 | 0 |
| plants | land plants | Leguminosae | Mimosa pudica var. hispida | | Υ | 1 | 1 |
| plants | land plants | Leguminosae | Mimosa pudica var. tetrandra | | Y | 1 | 1 |
| plants plants | land plants land plants | Leguminosae Leguminosae | Mimosa pudica var. unijuga Mucuna pruriens | | Ϋ́Υ | 3 4 | 3 0 |
| plants | land plants | Leguminosae | Neonotonia wightii var. wightii | | Ϋ́ | 1 | 1 |
| plants | land plants | Leguminosae | Parkinsonia aculeata | parkinsonia | Υ | 1 | 0 |
| plants | land plants | Leguminosae | Phaseolus lunatus | sieva bean | Υ | 1 | 1 |
| plants | land plants | Leguminosae | Samanea saman | | Y | 1 | 1 |
| plants | land plants | Leguminosae | Senna alata | | Y | 1 | 1 |
| plants plants | land plants land plants | Leguminosae | Senna hirsuta | | Υ | 2 | 2 |
| plants | tuna pianto | Leguminosae | Senna obtusifolia | | V | | 6 |
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| plants | land plants | Leguminosae Legumi | Senna occidentalis Senna siamea Senna tora Stylosanthes guianensis var. guianensis Stylosanthes hamata Stylosanthes humilis Stylosanthes scabra Stylosanthes scabra Stylosanthes sicosa Tephrosia candida Tephrosia glomeruliflora Tephrosia glomeruliflora Tephrosia inoctiflora Tephrosia inoctiflora Tephrosia tinctoria Vachellia farmesiana Vigna adenantha Vigna luteola Zornia latifolia Ammannia auriculata Cuphea carthagenensis Cuphea ignea Abelmoschus manihot subsp. manihot Abutilon guineense Malvastrum americanum var. americanum Malvastrum coromandelianum subsp. coromandelianum Sida acuta Sida cordifolia Sida rombifoliia | Townsville stylo pink tephrosia dalrymple vigna spinyhead sida | Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y | 7 1 1 3 7 6 17 3 2 2 2 1 7 2 1 3 4 1 1 1 1 3 16 4 9 1 18 10 | 7 1 1 3 6 3 15 3 2 2 2 1 0 2 1 3 4 1 1 1 3 16 4 5 1 10 9 |
| plants | land plants | Leguminosae Legumi | Senna occidentalis Senna siamea Senna tora Stylosanthes guianensis var. guianensis Stylosanthes hamata Stylosanthes hamilis Stylosanthes scabra Stylosanthes scabra Stylosanthes scabra Stylosanthes viscosa Tephrosia glomeruifitora Tephrosia glomeruifitora Tephrosia inctoria Vachellia farnesiana Vigna adenantha Vigna luteola Zornia latifolia Ammannia auriculata Cuphea ignea Abelmoschus manihot subsp. manihot Abutilon guineense Malvastrum americanum var. americanum Malvastrum coromandelianum subsp. coromandelianum Sida acuta Sida ciliaris Sida cordifolia Sida rombifolia Sida spinosa | Townsville stylo pink tephrosia dalrymple vigna spinyhead sida spiny sida | Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y | 7 1 1 3 7 6 17 3 2 2 2 1 7 2 1 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 7 1 1 3 6 3 15 3 2 2 2 1 0 2 1 3 4 1 1 1 3 16 4 5 1 10 |
| plants | land plants | Leguminosae Legumi | Senna occidentalis Senna siamea Senna tora Stylosanthes guianensis var. guianensis Stylosanthes hamata Stylosanthes humilis Stylosanthes scabra Stylosanthes scabra Stylosanthes sicosa Tephrosia candida Tephrosia glomeruliflora Tephrosia glomeruliflora Tephrosia inoctiflora Tephrosia inoctiflora Tephrosia tinctoria Vachellia farmesiana Vigna adenantha Vigna luteola Zornia latifolia Ammannia auriculata Cuphea carthagenensis Cuphea ignea Abelmoschus manihot subsp. manihot Abutilon guineense Malvastrum americanum var. americanum Malvastrum coromandelianum subsp. coromandelianum Sida acuta Sida cordifolia Sida rombifoliia | Townsville stylo pink tephrosia dalrymple vigna spinyhead sida | Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y | 7 1 1 3 7 6 17 3 2 2 2 1 7 2 1 3 4 1 1 1 1 3 16 4 9 1 18 10 | 7 1 1 3 6 3 15 3 2 2 1 0 2 1 3 4 1 1 1 3 16 4 5 1 10 9 7 |
| plants | land plants | Leguminosae Legumi | Senna occidentalis Senna siamea Senna tora Stylosanthes guianensis var, guianensis Stylosanthes hamata Stylosanthes humilis Stylosanthes scabra Stylosanthes scabra Stylosanthes scabra Stylosanthes viscosa Tephrosia glomeruliflora Tephrosia glomeruliflora Tephrosia inoctiflora Tephrosia inoctiflora Tephrosia inoctiflora Tephrosia inoctiflora Tephrosia inoctiflora Tephrosia inoctiflora Tephrosia ditrictoria Vachellia farnesiana Vigna aldenantha Vigna luteola Zornia latiflolia Ammannia auriculata Cuphea carthagenensis Cuphea ignea Abelmoschus manihot subsp. manihot Abutilon guineense Malvastrum americanum var. americanum Malvastrum coromandelianum subsp. coromandelianum Sida acuta Sida ciliaris Sida cordiflolia Sida hombifolia Sida sida spinosa Urena lobata | Townsville stylo pink tephrosia dalrymple vigna spinyhead sida spiny sida | Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y | 7 1 1 3 7 6 17 3 2 2 2 1 7 2 1 3 4 1 1 1 1 1 1 1 1 1 8 10 8 16 1 1 1 | 7 1 1 3 6 3 15 3 2 2 2 1 0 2 1 3 4 1 1 1 3 16 4 5 1 10 9 7 6 |
| plants | land plants | Leguminosae Legumi | Senna occidentalis Senna siamea Senna tora Stylosanthes guianensis var. guianensis Stylosanthes hamata Stylosanthes humilis Stylosanthes scabra Stylosanthes scabra Stylosanthes sicosa Tephrosia candida Tephrosia glomeruliflora Tephrosia glomeruliflora Tephrosia inoctiflora Tephrosia inictoria Vachellia farmesiana Vigna adenantha Vigna luteola Zornia latiflolia Ammannia auriculata Cuphea carthagenensis Cuphea ignea Abelmoschus manihot subsp. manihot Abutlion guineense Malvastrum americanum var. americanum Malvastrum coromandelianum subsp. coromandelianum Sida acuta Sida ciliaris Sida cordifolia Sida spinosa Urena lobata Thalia geniculata | Townsville stylo pink tephrosia dalrymple vigna spinyhead sida spiny sida | Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y | 7 1 1 3 7 6 17 3 2 2 2 1 7 2 1 3 4 1 1 1 1 3 16 4 9 1 18 10 8 16 1 | 7 1 1 3 6 3 15 3 2 2 2 1 0 2 1 3 4 1 1 1 3 16 4 5 1 10 9 7 6 1 |

| plants plants | | | | | | | |
|---|---|---|--|--|---------------------------------------|---|---|
| | land plants | Molluginaceae | Mollugo | | Y C | 1 | 0 |
| | land plants | Molluginaceae | Mollugo verticillata | | Y | 1 | 1 |
| plants | land plants | Molluginaceae | Trigastrotheca stricta | | Y | 1 | 1 |
| plants | land plants | Moraceae | Artocarpus altilis | breadfruit | Y | 1 | 1 |
| plants | land plants | Moraceae | Ficus benghalensis | banyan | Y | 1 | 1 |
| plants | land plants | Myrsinaceae | Ardisia crenata | ,. | Υ | 2 | 2 |
| plants | land plants | Myrsinaceae | Ardisia elliptica | | Υ | 3 | 3 |
| plants | land plants | Myrsinaceae | Lysimachia arvensis | | Υ | 1 | 1 |
| plants | land plants | Myrtaceae | Psidium guajava | guava | Υ | 3 | 3 |
| plants | land plants | Myrtaceae | Psidium guineense | cherry guava | Υ | 1 | 1 |
| plants | land plants | Nyctaginaceae | Boerhavia diffusa | | Υ | 2 | 2 |
| plants | land plants | Nyctaginaceae | Mirabilis jalapa | four o'clock | Υ | 1 | 1 |
| plants | land plants | Oleaceae | Jasminum multiflorum | | Υ | 1 | 1 |
| plants | land plants | Onagraceae | Ludwigia hyssopifolia | | Υ | 2 | 2 |
| plants | land plants | Oxalidaceae | Oxalis corniculata | | Υ | 1 | 0 |
| plants | land plants | Oxalidaceae | Oxalis debilis var. corymbosa | pink shamrock | Y | 1 | 1 |
| plants | land plants | Papaveraceae | Argemone mexicana | prickly poppy | Y | 1 | 0 |
| plants | land plants | Papaveraceae | Argemone ochroleuca | | Y | 1 | 1 |
| plants | land plants | Papaveraceae | Argemone ochroleuca subsp. ochroleuca | Mexican poppy | Y Y | 2 3 | 2 |
| plants plants | land plants land plants | Passifloraceae Passifloraceae | Passiflora edulis Passiflora foetida | | Y | 3 17 | 9 |
| plants | land plants | Passifloraceae | Passiflora laurifolia | | Y | 1 | 1 |
| plants | land plants | Passifloraceae | Passiflora pallida | | Y | 4 | 4 |
| plants | land plants | Passifloraceae | Passiflora suberosa | corky passion flower | Y | 6 | 0 |
| plants | land plants | Passifloraceae | Passiflora suberosa subsp. litoralis | , | Y | 4 | 4 |
| plants | land plants | Passifloraceae | Turnera subulata | | Υ | 1 | 1 |
| plants | land plants | Petiveriaceae | Rivina humilis | | Υ | 9 | 9 |
| plants | land plants | Phyllanthaceae | Phyllanthus amarus | | Υ | 4 | 4 |
| plants | land plants | Phyllanthaceae | Phyllanthus debilis | | Υ | 3 | 3 |
| plants | land plants | Phyllanthaceae | Phyllanthus tenellus | | Υ | 3 | 3 |
| plants | land plants | Phytolaccaceae | Phytolacca octandra | inkweed | Υ | 2 | 2 |
| plants | land plants | Pinaceae | Pinus caribaea | Caribbean pine | Υ | 3 | 3 |
| plants | land plants | Pinaceae | Pinus caribaea x Pinus elliottii | | Υ | 1 | 1 |
| plants | land plants | Plantaginaceae | Angelonia salicariifolia | Granny's caps | Υ | 2 | 2 |
| plants | land plants | Plantaginaceae | Mecardonia procumbens | | Υ | 13 | 12 |
| plants | land plants | Plantaginaceae | Scoparia dulcis | scoparia | Υ | 10 | 10 |
| plants | land plants | Poaceae | Andropogon gayanus | gamba grass | Υ | 6 | 4 |
| plants | land plants | Poaceae | Axonopus compressus | | Y | 5 | 5 |
| plants | land plants | Poaceae | Axonopus fissifolius | | Y | 6 | 6 |
| plants | land plants | Poaceae | Bothriochloa insculpta | | Y | 1 | 1 |
| plants | land plants | Poaceae | Bothriochloa pertusa | | Y | 10 | 8 |
| plants | land plants | Poaceae Poaceae | Cenchrus ciliaris Cenchrus echinatus | Masaman Divar grass | Y | 4 4 | 3 2 |
| plants plants | land plants land plants | Poaceae | Cenchrus setaceus | Mossman River grass | Y | 3 | 2 |
| plants | land plants | Poaceae | Cenchrus setaceus Cenchrus setaceus | | Y | 1 | 1 |
| plants | land plants | Poaceae | Chloris gayana | rhodes grass | Y | 5 | 5 |
| plants | land plants | Poaceae | Chloris inflata | purpletop chloris | Y | 6 | 2 |
| plants | land plants | Poaceae | Chloris virgata | feathertop rhodes grass | Y | 3 | 3 |
| plants | land plants | Poaceae | Chrysopogon aciculatus | Mackie's pest | Y | 4 | 4 |
| plants | land plants | Poaceae | Cynodon dactylon | | Υ | 16 | 1 |
| plants | land plants | Poaceae | Cynodon dactylon var. dactylon | | Υ | 5 | 4 |
| plants | land plants | Poaceae | Cynodon nlemfuensis var. nlemfuensis | | Υ | 2 | 2 |
| plants | land plants | Poaceae | Cynodon radiatus | | Υ | 2 | 2 |
| plants | land plants | Poaceae | Dactyloctenium aegyptium | coast button grass | Υ | 9 | 7 |
| plants | land plants | Poaceae | Dactyloctenium australe | sweet smother grass | Υ | 1 | 1 |
| plants | | | Diobanthium annulatum | sheda grass | V | | 4 |
| plants | land plants | Poaceae | Dichanthium annulatum | onoda Brass | Υ | 4 | |
| | land plants land plants | Poaceae Poaceae | Dichanthium aristatum | angleton grass | Υ | 12 | 10 |
| plants | | | Dichanthium aristatum Digitaria ciliaris | angleton grass summer grass | | 12 12 | 11 |
| plants | land plants land plants land plants | Poaceae Poaceae Poaceae | Dichanthium aristatum Digitaria ciliaris Digitaria didactyla | angleton grass | Y Y Y | 12 12 4 | 11 3 |
| plants plants | land plants land plants land plants land plants | Poaceae Poaceae Poaceae Poaceae | Dichanthium aristatum Digitaria ciliaris Digitaria idiactyla Digitaria eriantha | angleton grass summer grass | Y Y Y Y | 12 12 4 2 | 11 3 2 |
| plants plants plants | land plants land plants land plants land plants land plants | Poaceae Poaceae Poaceae Poaceae Poaceae | Dichanthium aristatum Digitaria ciliaris Digitaria didactyla Digitaria eriantha Digitaria eriantha 'Pangola' | angleton grass summer grass Queensland blue couch | Y Y Y Y | 12 12 4 2 1 | 11 3 2 1 |
| plants plants plants plants | land plants land plants land plants land plants land plants land plants | Poaceae Poaceae Poaceae Poaceae Poaceae Poaceae | Dichanthium aristatum Digitaria ciliaris Digitaria didactyla Digitaria eriantha Digitaria eriantha 'Pangola' Digitaria violascens | angleton grass summer grass Queensland blue couch bastard summer grass | Y Y Y Y Y | 12 12 4 2 1 | 11 3 2 1 2 |
| plants plants plants plants plants | land plants | Poaceae Poaceae Poaceae Poaceae Poaceae Poaceae | Dichanthium aristatum Digitaria ciliaris Digitaria idiactyla Digitaria eriantha Digitaria eriantha 'Pangola' Digitaria violascens Echinochloa colona | angleton grass summer grass Queensland blue couch bastard summergrass awnless barnyard grass | Y Y Y Y Y | 12 12 4 2 1 2 29 | 11 3 2 1 2 |
| plants plants plants plants plants plants plants | land plants | Poaceae Poaceae Poaceae Poaceae Poaceae Poaceae Poaceae | Dichanthium aristatum Digitaria ciliaris Digitaria didactyla Digitaria eriantha Digitaria eriantha 'Pangola' Digitaria eriantha 'Pangola' Digitaria volascens Echinochloa colona Echinochloa crus-galli | angleton grass summer grass Queensland blue couch bastard summer grass | Y Y Y Y Y Y | 12 12 4 2 1 2 29 | 11 3 2 1 2 15 1 |
| plants plants plants plants plants plants plants plants | land plants | Poaceae Poaceae Poaceae Poaceae Poaceae Poaceae Poaceae Poaceae Poaceae | Dichanthium aristatum Digitaria ciliaris Digitaria didactyla Digitaria eriantha Digitaria eriantha 'Pangola' Digitaria eriantha 'Pangola' Digitaria violascens Echinochloa colona Echinochloa crus-galli Echinochloa polystachya | angleton grass summer grass Queensland blue couch bastard summergrass awnless barnyard grass | Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y | 12 12 4 2 1 2 29 1 | 11 3 2 1 2 15 1 |
| plants plants plants plants plants plants plants plants plants | land plants | Poaceae | Dichanthium aristatum Digitaria ciliaris Digitaria didactyla Digitaria eriantha Digitaria eriantha 'Pangola' Digitaria eriantha 'Pangola' Digitaria violascens Echinochloa colona Echinochloa crus-galli Echinochloa polystachya Echinochloa polystachya | angleton grass summer grass Queensland blue couch bastard summer grass awnless barnyard grass barnyard grass | Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y | 12 12 4 2 1 2 29 1 1 5 | 11 3 2 1 2 15 1 0 |
| plants | land plants | Poaceae | Dichanthium aristatum Digitaria ciliaris Digitaria didactyla Digitaria eriantha Digitaria eriantha Digitaria eriantha 'Pangola' Digitaria violascens Echinochloa colona Echinochloa crus-galli Echinochloa polystachya Echinochloa polystachya Echinochloa polystachya Echinochloa polystachya 'Amity' | angleton grass summer grass Queensland blue couch bastard summergrass awnless barnyard grass | Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y | 12 12 4 2 1 2 29 1 1 5 | 11 3 2 1 2 15 1 0 5 |
| plants | land plants | Poaceae | Dichanthium aristatum Digitaria ciliaris Digitaria didactyla Digitaria diaritha Digitaria eriantha Digitaria eriantha 'Pangola' Digitaria violascens Echinochloa colona Echinochloa crus-galli Echinochloa polystachya Echinochloa polystachya Etusine indica Eragrostis cilianensis | angleton grass summer grass Queensland blue couch bastard summer grass awnless barnyard grass barnyard grass | Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y | 12 12 4 2 1 2 29 1 1 5 9 | 11 3 2 1 2 15 1 0 5 6 |
| plants | land plants | Poaceae | Dichanthium aristatum Digitaria ciliaris Digitaria didactyla Digitaria eriantha Digitaria eriantha 'Pangola' Digitaria eriantha 'Pangola' Digitaria violascens Echinochloa colona Echinochloa crus-galli Echinochloa polystachya Echinochloa polystachya Echinochloa polystachya 'Amity' Eleusine indica Eragrostis cilianensis Eragrostis paniciformis | angleton grass summer grass Queensland blue couch bastard summergrass awnless barnyard grass barnyard grass crowsfoot grass | Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y | 12 12 4 2 1 2 29 1 1 1 5 9 4 | 11 3 2 1 2 15 1 0 5 6 4 |
| plants | land plants | Poaceae | Dichanthium aristatum Digitaria ciliaris Digitaria didactyla Digitaria diaritha Digitaria eriantha Digitaria eriantha 'Pangola' Digitaria violascens Echinochloa colona Echinochloa crus-galli Echinochloa polystachya Echinochloa polystachya Etusine indica Eragrostis cilianensis | angleton grass summer grass Queensland blue couch bastard summer grass awnless barnyard grass barnyard grass | Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y | 12 12 4 2 1 2 29 1 1 5 9 | 11 3 2 1 2 15 1 0 5 6 |
| plants | land plants | Poaceae | Dichanthium aristatum Digitaria ciliaris Digitaria ciliaris Digitaria didactyla Digitaria eriantha Digitaria eriantha 'Pangola' Digitaria violascens Echinochloa colona Echinochloa crus-galli Echinochloa polystachya Echinochloa polystachya 'Amity' Eleusine indica Eragrostis cilianensis Eragrostis paniciformis Eragrostis pliosa | angleton grass summer grass Queensland blue couch bastard summergrass awnless barnyard grass barnyard grass crowsfoot grass | Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y | 12 12 4 2 1 2 29 1 1 5 9 4 1 2 | 11 3 2 1 2 15 1 0 5 6 4 1 |
| plants | land plants | Poaceae | Dichanthium aristatum Digitaria ciliaris Digitaria ciliaris Digitaria didactyla Digitaria eriantha Digitaria eriantha Digitaria eriantha 'Pangola' Digitaria violascens Echinochloa colona Echinochloa crus-galli Echinochloa polystachya Echinochloa polystachya Echinochloa polystachya 'Amity' Eleusine indica Eragrostis cilianensis Eragrostis pilosa Eragrostis pilosa Eragrostis tenuifolia | angleton grass summer grass Queensland blue couch bastard summergrass awnless barnyard grass barnyard grass crowsfoot grass | Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y | 12 12 4 2 1 2 29 1 1 5 9 4 1 2 7 | 11 3 2 1 2 15 1 0 5 6 4 1 2 7 |
| plants | land plants | Poaceae | Dichanthium aristatum Digitaria ciliaris Digitaria ciliaris Digitaria didactyla Digitaria eriantha Digitaria eriantha Digitaria eriantha 'Pangola' Digitaria violascens Echinochloa colona Echinochloa crus-galli Echinochloa polystachya Echinochloa polystachya Echinochloa polystachya 'Amity' Eleusine indica Eragrostis cilianensis Eragrostis pilosa Eragrostis tenuirloia Eragrostis tenuirloia Eragrostis tenuirloia Eragrostis unioloides | angleton grass summer grass Queensland blue couch bastard summergrass awnless barnyard grass barnyard grass crowsfoot grass | Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y | 12 12 4 2 1 2 29 1 1 5 9 4 1 1 2 7 | 11 3 2 1 2 15 1 0 5 6 4 1 1 2 7 3 |
| plants | land plants | Poaceae | Dichanthium aristatum Digitaria ciliaris Digitaria ciliaris Digitaria didactyla Digitaria eriantha Digitaria eriantha Digitaria eriantha 'Pangola' Digitaria violascens Echinochloa cotona Echinochloa crus-galli Echinochloa polystachya Echinochloa polystachya 'Amity' Eleusine indica Eragrostis cilianensis Eragrostis paniciformis Eragrostis paniciformis Eragrostis teluinolia Eragrostis teniolidia Eragrostis unioloides Eriochloa meyeriana | angleton grass summer grass Queensland blue couch bastard summergrass awnless barnyard grass barnyard grass crowsfoot grass soft lovegrass elastic grass | Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y | 12 12 4 2 1 2 29 1 1 5 9 4 1 2 7 3 | 11 3 2 1 1 2 15 1 0 5 6 4 1 2 7 3 3 1 1 8 |
| plants | land plants | Poaceae | Dichanthium aristatum Digitaria ciliaris Digitaria ciliaris Digitaria ciliaris Digitaria didactyla Digitaria eriantha Digitaria eriantha Digitaria eriantha Digitaria violascens Echinochloa colona Echinochloa crus-galli Echinochloa crus-galli Echinochloa polystachya Echinochloa polystachya Echinochloa polystachya 'Amity' Eleusine indica Eragrostis cilianensis Eragrostis paniciformis Eragrostis paniciformis Eragrostis paniciolides Eragrostis tenuifolia Eragrostis unioloides Eriochloa meyeriana Hymenachne amplexicaulis | angleton grass summer grass Queensland blue couch bastard summergrass awnless barnyard grass barnyard grass crowsfoot grass soft lovegrass elastic grass | Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y | 12 12 4 2 1 2 29 1 1 5 9 4 1 2 7 7 3 1 2 | 11 3 2 1 2 15 1 0 5 6 4 1 2 7 3 1 1 1 1 |
| plants | land plants | Poaceae | Dichanthium aristatum Digitaria ciliaris Digitaria ciliaris Digitaria didactyla Digitaria eriantha Digitaria eriantha Digitaria eriantha 'Pangola' Digitaria violascens Echinochloa colona Echinochloa crus-galli Echinochloa crus-galli Echinochloa polystachya Echinochloa polystachya 'Amity' Eleusine indica Eragrostis cilianensis Eragrostis paniciformis Eragrostis paniciformis Eragrostis tenuirlolia Eragrostis unioloides Eriochloa meyeriana Hymenachne amplexicaulis Hymenachne amplexicaulis 'Olive' Hyparrhenia rufa subsp. rufa | angleton grass summer grass Queensland blue couch bastard summergrass awnless barnyard grass barnyard grass crowsfoot grass soft lovegrass elastic grass | Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y | 12 12 4 4 2 1 1 2 29 1 1 1 5 9 4 1 2 7 3 1 2 8 7 15 | 11 3 2 1 2 15 1 0 5 6 4 4 1 2 7 3 3 1 1 1 8 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 |
| plants | land plants | Poaceae | Dichanthium aristatum Digitaria ciliaris Digitaria ciliaris Digitaria didactyla Digitaria eriantha Digitaria eriantha Pangola' Digitaria eriantha 'Pangola' Digitaria violascens Echinochloa colona Echinochloa colona Echinochloa crus-galli Echinochloa polystachya Echinochloa polystachya Echinochloa polystachya 'Amity' Eleusine indica Eragrostis cilianensis Eragrostis paniciformis Eragrostis paniciformis Eragrostis pilosa Eragrostis pilosa Eragrostis pilosa Eragrostis unioloides Eriochloa meyeriana Hymenachne amplexicaulis Hymenachne amplexicaulis'Olive' Hyparrhenia rufa Hyparrhenia rufa Megathyrsus maximus | angleton grass summer grass Queensland blue couch bastard summergrass awnless barnyard grass barnyard grass crowsfoot grass soft lovegrass elastic grass | Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y | 12 12 4 4 2 1 1 2 9 1 1 5 9 4 1 2 7 3 1 2 8 7 15 5 | 11 3 2 1 2 15 1 0 5 6 4 4 1 2 7 3 1 1 8 2 2 1 8 1 1 8 1 1 8 1 1 8 1 1 8 1 8 |
| plants | land plants | Poaceae | Dichanthium aristatum Digitaria ciliaris Digitaria ciliaris Digitaria didactyla Digitaria eriantha Digitaria eriantha 'Pangola' Digitaria violascens Echinochloa cotona Echinochloa cotona Echinochloa polystachya Echinochloa polystachya 'Amity' Eleusine indica Eragrostis cilianensis Eragrostis paniciformis Eragrostis paniciformis Eragrostis tenuifolia Eragrostis unioloides Eriochloa meyeriana Hymenachne amplexicaulis Hymenachne amplexicaulis Hyparrhenia rufa Hyparrhenia rufa Hyparrhenia rufa Megathyrsus maximus Megathyrsus maximus | angleton grass summer grass Queensland blue couch bastard summergrass awnless barnyard grass barnyard grass crowsfoot grass soft lovegrass elastic grass | Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y | 12 12 4 2 1 2 29 1 1 5 9 4 1 2 7 3 1 2 8 7 | 11 3 2 1 2 15 1 0 5 6 4 1 2 2 7 3 3 1 1 8 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 |
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| plants | land plants | Poaceae | Dichanthium aristatum Digitaria ciliaris Digitaria ciliaris Digitaria ciliaris Digitaria ciliaris Digitaria didactyla Digitaria eriantha Digitaria eriantha Digitaria eriantha Pangola' Digitaria violascens Echinochloa colona Echinochloa crus-galli Echinochloa crus-galli Echinochloa polystachya Eragrostis cilianensis Eragrostis paniciformis Eragrostis paniciformis Eragrostis paniciformis Eragrostis tenuifolia Eragrostis tenuifolia Eragrostis enuifolia Eragrostis enuifolia Eragrostis enuifolia Hymenachne amplexicaulis Hymenachne amplexicaulis Hymenachne amplexicaulis Hymenachne amplexicaulis Hyparrhenia rufa Hyparrhenia Hypa | angleton grass summer grass Queensland blue couch bastard summergrass awnless barnyard grass barnyard grass barnyard grass crowsfoot grass soft lovegrass elastic grass hymenachne molasses grass red natal grass sourgrass water couch Russell River grass plicatulum vasey grass saltwater couch sugarcane | Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y | 12 12 14 2 11 2 29 1 1 5 9 4 1 2 2 7 3 1 1 2 8 7 15 5 4 8 1 7 3 3 20 13 3 8 9 2 1 1 1 7 4 2 2 2 9 | 11 3 2 15 1 0 5 6 4 4 1 1 2 7 3 3 1 1 8 2 2 14 0 4 5 1 6 3 3 1 2 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 |
| plants | land plants | Poaceae | Dichanthium aristatum Digitaria ciliaris Digitaria ciliaris Digitaria didactyla Digitaria didactyla Digitaria eriantha Digitaria eriantha 'Pangola' Digitaria eriantha 'Pangola' Digitaria violascens Echinochloa colona Echinochloa colona Echinochloa polystachya Echinochloa polystachya 'Amity' Eleusine indica Eragrostis cilianensis Eragrostis paniciformis Eragrostis paniciformis Eragrostis paniciformis Eragrostis paniciformis Eragrostis paniciformis Eragrostis unioloides Eriochloa meyeriana Hymenachne amplexicaulis Hymenachne amplexicaulis Hymenachne amplexicaulis 'Olive' Hyparrhenia rufa Hyparrhenia rufa Hyparrhenia rufa subsp. rufa Megathyrsus maximus var. coloratus Megathyrsus maximus var. maximus Megathyrsus maximus var. naximus 'Hamil' Megathyrsus maximus var. pubiglumis Melinis minutiflora Melinis repens Paspalum conjugatum Paspalum paiculatum Paspalum plicatulum Paspalum plicatulum Paspalum plicatulum Paspalum villei Paspalum villei Paspalum villei Paspalum villei Paspalum siniculatum Saccharum officinarum Setaria pumila Setaria pumila Setaria pumila subsp. subtesselata Setaria pimila subsp. subtesselata Setaria pumila subsp. subtesselata Setaria pumila subsp. subtesselata Setaria pumila subsp. subtesselata | angleton grass summer grass Queensland blue couch bastard summergrass awnless barnyard grass barnyard grass crowsfoot grass soft lovegrass elastic grass hymenachne molasses grass red natal grass sourgrass water couch Russell River grass plicatulum vasey grass saltwater couch sugarcane Rhodesian Sudan grass Parramatta grass | Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y | 12 12 14 2 1 12 2 1 1 2 2 9 1 1 1 2 7 3 1 2 8 7 15 5 4 8 1 7 3 20 13 3 8 9 2 1 1 1 7 4 2 2 2 9 23 | 11 3 2 15 1 0 5 6 4 1 1 2 7 7 3 1 1 1 8 2 14 0 4 5 1 1 6 3 3 1 1 8 8 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| plants | land plants | Poaceae | Dichanthium aristatum Digitaria ciliaris Digitaria ciliaris Digitaria ciliaris Digitaria ciliaris Digitaria didactyla Digitaria eriantha Digitaria eriantha Digitaria eriantha Pangola' Digitaria violascens Echinochloa colona Echinochloa crus-galli Echinochloa crus-galli Echinochloa polystachya Eragrostis cilianensis Eragrostis paniciformis Eragrostis paniciformis Eragrostis paniciformis Eragrostis tenuifolia Eragrostis tenuifolia Eragrostis enuifolia Eragrostis enuifolia Eragrostis enuifolia Hymenachne amplexicaulis Hymenachne amplexicaulis Hymenachne amplexicaulis Hymenachne amplexicaulis Hyparrhenia rufa Hyparrhenia Hypa | angleton grass summer grass Queensland blue couch bastard summergrass awnless barnyard grass barnyard grass crowsfoot grass soft lovegrass elastic grass hymenachne molasses grass red natal grass sourgrass water couch Russell River grass plicatulum vasey grass saltwater couch sugarcane Rhodesian Sudan grass Parramatta grass | Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y | 12 12 14 2 11 2 29 1 1 5 9 4 1 2 2 7 3 1 1 2 8 7 15 5 4 8 1 7 3 3 20 13 3 8 9 2 1 1 1 7 4 2 2 2 9 | 11 3 2 15 1 0 5 6 4 4 1 1 2 7 3 3 1 1 8 2 2 14 0 4 5 1 6 3 3 1 2 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 1 8 |

| plants | land plants | Poaceae | Steinchisma laxa | | Υ | 2 | 2 |
|--------|-------------|------------------|--|----------------------|--------|----|----|
| plants | land plants | Poaceae | Stenotaphrum secundatum | buffalo grass | Υ | 1 | 1 |
| plants | land plants | Poaceae | Themeda quadrivalvis | grader grass | Υ | 40 | 13 |
| plants | land plants | Poaceae | Urochloa decumbens | | Υ | 6 | 5 |
| plants | land plants | Poaceae | Urochloa distachya | | Υ | 5 | 5 |
| plants | land plants | Poaceae | Urochloa fusca | | Υ | 1 | 0 |
| plants | land plants | Poaceae | Urochloa mosambicensis | sabi grass | Υ | 4 | 4 |
| plants | land plants | Poaceae | Urochloa mutica | | Υ | 10 | 3 |
| plants | land plants | Poaceae | Urochloa subquadripara | | Υ | 10 | 7 |
| plants | land plants | Polygalaceae | Polygala paniculata | | Υ | 5 | 5 |
| plants | land plants | Pontederiaceae | Pontederia crassipes | | Υ | 3 | 2 |
| plants | land plants | Portulacaceae | Portulaca oleracea | pigweed | Υ | 3 | 3 |
| plants | land plants | Portulacaceae | Portulaca pilosa | pigiroda | Ϋ́ | 5 | 3 |
| plants | land plants | Pteridaceae | Pityrogramma calomelanos var. calomelanos | | Y Y | 3 | 3 |
| plants | land plants | Rhamnaceae | Ziziphus mauritiana | Indian jujube | Y Y | 2 | 0 |
| plants | land plants | Rosaceae | Rubus alceifolius | giant bramble | Y | 4 | 4 |
| plants | land plants | Rubiaceae | Mitracarpus hirtus | giant bramble | Ϋ́ | 24 | 21 |
| plants | land plants | Rubiaceae | Oldenlandia corymbosa var. corymbosa | | Y | 5 | 5 |
| plants | land plants | Rubiaceae | Richardia brasiliensis | white eye | Y | 5 | 5 |
| | | | | willte eye | Y | 6 | 6 |
| plants | land plants | Rubiaceae | Richardia scabra | | | | |
| plants | land plants | Rubiaceae | Spermacoce exilis | | Y Y | 1 | 1 |
| plants | land plants | Rubiaceae | Spermacoce latifolia | | | 6 | 6 |
| plants | land plants | Rubiaceae | Spermacoce ocymifolia | slender buttonweed | Y | 2 | 2 |
| plants | land plants | Rubiaceae | Spermacoce prostrata | | Y | 1 | 1 |
| plants | land plants | Rubiaceae | Spermacoce verticillata | | Υ | 4 | 4 |
| plants | land plants | Rutaceae | Citrus x limon | | Υ | 2 | 2 |
| plants | land plants | Salicaceae | Flacourtia jangomas | | Υ | 1 | 1 |
| plants | land plants | Salviniaceae | Salvinia molesta | salvinia | Υ | 2 | 2 |
| plants | land plants | Sapindaceae | Cardiospermum grandiflorum | heart seed vine | Υ | 1 | 0 |
| plants | land plants | Sapindaceae | Cardiospermum halicacabum var. microcarpum | | Υ | 1 | 1 |
| plants | land plants | Scrophulariaceae | Buddleja madagascariensis | buddleia | Υ | 1 | 1 |
| plants | land plants | Solanaceae | Browallia viscosa | | Υ | 1 | 1 |
| plants | land plants | Solanaceae | Capsicum frutescens | | Υ | 3 | 3 |
| plants | land plants | Solanaceae | Cestrum nocturnum | | Υ | 1 | 1 |
| plants | land plants | Solanaceae | Datura inoxia | | Υ | 3 | 3 |
| plants | land plants | Solanaceae | Datura stramonium | common thornapple | Υ | 1 | 1 |
| plants | land plants | Solanaceae | Nicotiana glauca | tree tobacco | Υ | 2 | 2 |
| plants | land plants | Solanaceae | Physalis angulata | | Υ | 4 | 4 |
| plants | land plants | Solanaceae | Physalis lanceifolia | | Υ | 1 | 1 |
| plants | land plants | Solanaceae | Physalis peruviana | | Υ | 1 | 1 |
| plants | land plants | Solanaceae | Physalis pubescens | | Υ | 1 | 1 |
| plants | land plants | Solanaceae | Solanum americanum | | Υ | 8 | 7 |
| plants | land plants | Solanaceae | Solanum capsicoides | devil's apple | Υ | 1 | 0 |
| plants | land plants | Solanaceae | Solanum erianthum | potato tree | Υ | 3 | 3 |
| plants | land plants | Solanaceae | Solanum lycopersicum var. cerasiforme | | Υ | 1 | 1 |
| plants | land plants | Solanaceae | Solanum mauritianum | wild tobacco | Y | 4 | 1 |
| plants | land plants | Solanaceae | Solanum nigrum | | Y | 4 | 3 |
| plants | land plants | Solanaceae | Solanum seaforthianum | Brazilian nightshade | Y | 6 | 5 |
| plants | land plants | Solanaceae | Solanum torvum | devil's fig | Ϋ́ | 6 | 4 |
| plants | land plants | Sparrmanniaceae | Triumfetta pentandra | down only | Y | 1 | 1 |
| plants | land plants | Sparrmanniaceae | Triumfetta pilosa | | Y | 3 | 3 |
| plants | land plants | Sparrmanniaceae | Triumfetta rhomboidea | chinese burr | Y Y | 17 | 16 |
| plants | land plants | Tamaricaceae | Tamarix aphylla | athel pine | Y | 2 | 2 |
| plants | land plants | Theaceae | Camellia sinensis | attiet pille | Y | 1 | 1 |
| plants | land plants | Verbenaceae | Duranta erecta | duranta | Ϋ́ | 1 | 1 |
| | | | | | Y | 43 | 22 |
| plants | land plants | Verbenaceae | Lantana camara | lantana | | | |
| plants | land plants | Verbenaceae | Stachytarpheta australis | | Y | 3 | 2 |
| plants | land plants | Verbenaceae | Stachytarpheta cayennensis | tomoto constru | Y | 5 | 5 |
| plants | land plants | Verbenaceae | Stachytarpheta jamaicensis | Jamaica snakeweed | Y | 17 | 8 |
| plants | land plants | Verbenaceae | Stachytarpheta mutabilis | pink snakeweed | Y | 1 | 1 |
| plants | land plants | Verbenaceae | Verbena incompta | | Y | 3 | 3 |
| plants | land plants | Verbenaceae | Verbena litoralis var. litoralis | | Υ | 2 | 2 |
| plants | land plants | Vitaceae | Ampelocissus martinii | | Υ | 2 | 2 |
| | | | | | | | |
| | | | | | | | |