

BushBlitz
SPECIES DISCOVERY PROGRAM



BUSH BLITZ SPECIES DISCOVERY PROGRAM



Henbury Station Northern Territory

12–24 May 2013



Australian Government



What is Bush Blitz?

Bush Blitz is a multi-million dollar partnership between the Australian Government, BHP Billiton and Earthwatch Australia to document plants and animals in selected properties across Australia's National Reserve System.

This innovative partnership harnesses the expertise of many of Australia's top scientists from museums, herbaria, universities, and other institutions and organisations across the country.

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Summary

In May 2013, a Bush Blitz survey was conducted at Henbury Station in the Northern Territory. The area had been surveyed before, however, previous studies focused on vertebrates and flowering plants. This Bush Blitz survey gave researchers an opportunity to document the invertebrates and cryptogams (liverworts, mosses, lichens and fungi) of the area. The survey also provided a snapshot of the species diversity on Henbury and the condition of its ecological communities.

Henbury Station contains an important collection of arid land ecosystems, including floodplains, sand dunes, rocky outcrops, arid grasslands and scrublands. The ancient Finke River that runs through the property has high conservation value and provides critical drought refuge areas. Management of water resources and protection of aquatic habitats on Henbury is crucial for regional conservation.

Abbreviations

ABRS

Australian Biological Resources Study

EPBC Act

Environment Protection and Biodiversity Conservation Act 1999 (Commonwealth)

MAGNT

Museum and Art Gallery of the Northern Territory

NRS

National Reserve System

TPWC Act

Territory Parks and Wildlife Conservation Act 2007 (Northern Territory)

WoNS

Weeds of National Significance



MacDonnell Ranges © Copyright, P. Taylor



Many insects not targeted for collection were encountered, such as this grasshopper nymph, possibly *Bufo rania crassa* © Copyright, R. Whyte

During the Bush Blitz survey of Henbury Station 1,080 species were identified, 297 of which had not been recorded previously. The survey took place in autumn during and after rain, which appears to have reduced the number of species recorded for some groups (invertebrates and reptiles), but favoured others (cryptogams).

Eleven putative species new to science were identified, including 10 invertebrate species: 1 native bee, 5 true bugs, 3 spiders, and 1 pseudoscorpion. One putative new *Acacia* species was also identified.

The vertebrate collection focused on birds, reptiles, frogs and fishes. Ninety bird species were observed, four of which are listed under the *Territory Parks and Wildlife Conservation Act 2007*. Two species listed as near threatened—Emu (*Dromaius novaehollandiae*) and Red-tailed Black Cockatoo (*Calyptorhynchus banksii samueli*)—seem to have viable resident populations. The waterholes and reed beds of the Finke River are regionally significant habitat for many species.

Twenty-seven reptile species were identified, six of which were new records for the station. Two frogs were recorded as well as nine fishes, three of which are listed under the Northern Territory's *Fisheries Act 1988*.

This was the first major survey of invertebrates on Henbury Station. The collection included 28 bees, 64 true bugs, 4 thrips, 7 dragonflies, 3 damselflies, 4 millipedes, 8 centipedes, 48 spiders, 3 stygofauna species, 6 crustaceans and 18 snails.

In total, 685 vascular plant species were identified, 53 of which were new records for the station. Henbury Station now has 768 recorded vascular plant taxa, which represents a third of the total number of species recorded for central Australia. This high figure reflects the variety of habitats present on the station. Thirty-five cryptogam species were also identified, all of which are new records for the station.

The main pest species affecting the station are mammals and weeds. Introduced herbivores—Camels (*Camelus dromedarius*), Donkeys (*Equus asinus*), Horses (*Equus caballus*), European Cattle (*Bos taurus*) and Rabbits (*Oryctolagus cuniculus*)—cause major damage to local flora and also damage waterholes, riverbanks and reed beds. Forty-four weed species were identified, mostly associated with sites of station activity. Prickly Pear (*Opuntia stricta*), which is a gazetted weed requiring monitoring and reduction of spread, was seen at the station rubbish dump.





Introduction

This is a report for the Bush Blitz program, which aims to survey recent additions to the National Reserve System (NRS).¹ Bush Blitz is an initiative of the Australian Government, through the Australian Biological Resources Study (ABRS), in partnership with BHP Billiton and Earthwatch Australia. The Bush Blitz objectives are:

- + to promote, publicise and demonstrate the importance of taxonomy through species discovery;
- + to undertake a national species discovery program targeted at recently acquired properties of the National Reserve System of Australia;
- + to support the science of taxonomy in Australia through training students and early career researchers, the provision of grants for species description and resolution of taxonomically problematic, nationally important groups;
- + to promote partnerships between scientific institutions, government, industry and non-government organisations; and
- + to inform the National Reserve System, Reserve Managers and other stakeholders of the results of the Bush Blitz Program.

The Henbury Station Bush Blitz was conducted in May 2013. Rain before and during the survey made conditions difficult, with many roads and tracks within the property closed or impassable. However, a combination of vehicle and helicopter trips provided good coverage across the station. The rain and cool weather resulted in reduced activity of many species. Surveys at different times of the year are likely to add more species to the list.

An important feature of this Bush Blitz was the involvement of school teachers participating in the TeachLive program. The Bush Blitz TeachLive program is a collaborative project between the Bush Blitz partners: the Australian Government through the ABRS, BHP Billiton, Earthwatch Australia, and the Australian Science Teachers Association. Teachers assisted in fieldwork and species identification and taught 'live' back to their classrooms via the TeachLive website, taking their students on a virtual expedition.

Two Totally Wild television episodes showing Bush Blitz participants at work in the field appeared on Network Ten.

The ABRS provided the logistical coordination and overall leadership for the survey. Experts from the following organisations conducted the field and laboratory work: Museum and Art Gallery of the Northern Territory, Northern Territory Herbarium, South Australian Museum, Western Australian Museum, National Herbarium of Victoria, University of Adelaide, University of New South Wales, Australian National Botanic Gardens, Aquagreen and EcOz Environmental Services.

Bush Blitz wishes to thank: Northern Territory Herbarium and Museum and Art Gallery of the Northern Territory for hosting this survey; RM Williams Agricultural Holdings and the property managers, especially Joel Hartwig, for facilitating access to the reserve and providing helpful advice on survey locations; Angus Duguid from the Department of Land Resource Management for information on regional habitats and previous surveys; Wendy Stuart of the Central Land Council; and Christobel Swan, Bessie Liddle and Peter Abbott, Traditional Owners, for sharing their knowledge and traditional species names.

¹ The NRS is Australia's network of protected areas, covering 17.88% of the country—over 137 million hectares. It is made up of Commonwealth, state and territory reserves, Indigenous lands and protected areas run by non-profit conservation organisations, through to ecosystems protected by farmers on their private working properties <<http://www.environment.gov.au/land/nrs>>, accessed 18 May 2015.



Reserve Overview²



Henbury Station

RM Williams Agricultural Holdings

Date of purchase

2001

Area

516,800 ha

Description

Henbury Station is located 130 km south of Alice Springs and covers more than 500,000 ha of desert habitats within the Lake Eyre Basin of central Australia. It is bisected by the Finke River, which originates in the MacDonnell Ranges and is often described as the oldest river in the world. The overall climate is arid, with erratic and unreliable rains occurring at any time of the year. The geology of Henbury is complex and is typically representative of the geology of the MacDonnell Ranges and Finke River floodplain. Most of the rock formation is sedimentary, consisting of bands of limestone, sandstone, siltstones and dolomite. The plains consist of alluvial sands and silts, or of aeolian sands forming sand dunes.



Rain Moth (*Trictena atripalpis*), with tripectinate (triple combed) antennae © Copyright, R. Whyte

² Information from the NRS applications and assessments. <<http://www.abc.net.au/news/2014-06-09/henbury-station-sold-carbon-farming/5509950>>. <<http://www.abc.net.au/news/2013-08-28/henbury-station-rm-williams-sale-market/4916426>>.





Rock formation near waterhole at Running Waters © Copyright, P. Taylor

National Reserve System conservation values

It is estimated that over 70% of Henbury Station is uncleared. The area includes an important collection of arid land ecosystems. Importantly, the Finke River and its associated waterholes and wetlands provide oases of permanent water within this usually dry environment. Both the arid land habitats and these oases support a highly diverse range of species.

Before the 2013 Bush Blitz survey, four formal fauna surveys had been conducted on Henbury Station, between 1997 and 2013.³ A total of 245 vertebrate species

(including seven introduced species) and 613 plant species (including 38 introduced species) had been found at Henbury, including several animals and plants classified as threatened nationally or in the Northern Territory.

Prior to 2011, Henbury Station had been run as a cattle station for around 150 years. In 2011, the property was purchased and destocked by RM Williams Agricultural Holdings with support from the Australian Government through the Caring for our Country Initiative. It was being managed as a major carbon farming and conservation project and plans were made to include it in the NRS.

In July 2013, RM Williams Agricultural Holdings went into receivership; subsequently the property was sold to pastoralists. Around 20% of the property will now be protected under a special conservation covenant. Under the covenant, environmentally significant plants and animals will be protected, with restrictions placed on cattle grazing and the use of waterholes and rivers. The covenant will include Finke Gorge National Park, Owen Springs Conservation Reserves, and Running Waters, the largest, most permanent waterhole in central Australia.

³ Parks and Wildlife Service of the Northern Territory, 1997, *A report on the Henbury Ranger Training Camp, 3rd–13th April 1997*, unpublished report, Parks and Wildlife Commission of the Northern Territory, Alice Springs; Eldridge, S.R., Shakeshaft, B.J. & Nano, T.J. 2002, *The impact of wild dog control on cattle, native and introduced herbivores and introduced predators in central Australia*, unpublished report, Bureau of Rural Sciences, Canberra; Neave, H., Nano, C., Pavey, C., Moyses, M., Clifford, B., Cole, J., Harris, M. & Albrecht, D. 2004, *A resource assessment towards a conservation strategy for the Finke Bioregion, NT*, unpublished report, Northern Territory Department of Infrastructure, Planning and the Environment, Darwin; Desert Wildlife Services, 2012, *Henbury Station Biodiversity Audit 2013*, unpublished report prepared for RM Williams Agricultural Holdings.



Methods

Collection and observation sites were selected based on land classes, supplemented by identification of suitable microhabitats during the field visit. Site selection also depended on access, suitability for trapping and time restrictions. Site locations were recorded using global positioning systems.

A number of taxonomic groups were identified as targets for study. Table 1 lists the groups surveyed and the specialists who undertook the fieldwork.



Dave Wilson, George Darby and Michael Hammer search for fishes
© Copyright, R. Whyte



Using a seine net to search a waterhole, J. Harding © Copyright, Department of the Environment





Table 1: Taxonomic groups surveyed and personnel

| Group | Common name | Expert | Affiliation |
|----------------|-----------------------------------------------|----------------------------------------------|------------------------------------------------------|
| Aves | Birds | Jared Archibald | MAGNT |
| Reptilia | Reptiles | Stephen Richards | MAGNT |
| | | Dane Trembath | EcOz Environmental Services |
| Anura | Frogs | Stephen Richards | MAGNT |
| Pisces | Fishes | Michael Hammer | MAGNT |
| | | David Wilson | Aquagreen |
| Hymenoptera | Bees | Katja Hogendoorn | Independent |
| | | Remko Leijs | South Australian Museum |
| Lepidoptera | Butterflies and Moths | Jared Archibald | MAGNT |
| Heteroptera | True Bugs | Marina Cheng | University of New South Wales |
| Odonata | Damselflies and Dragonflies | Stephen Richards | MAGNT |
| Myriapoda | Symphylans, Millipedes and Centipedes | Mark Harvey | Western Australian Museum |
| Arachnida | Mites, Scorpions, Pseudoscorpions and Spiders | Mark Harvey | Western Australian Museum |
| Gastropoda | Snails | Vince Kessner | Independent |
| Stygofauna | Groundwater Fauna | Remko Leijs | South Australian Museum |
| | | Katja Hogendoorn | Independent |
| Vascular Flora | Flowering Plants | Peter Jobson David Albrecht Peter Latz | Northern Territory Herbarium |
| Cryptogams | Liverworts, Mosses, Lichens and Fungi | Val Stajsic | National Herbarium of Victoria |
| Cryptogams | Liverworts | Chris Cargill (identification) | Centre for Australian National Biodiversity Research |



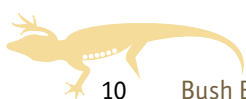
Bush Blitz TeachLive team © Copyright, R. Whyte
 Back row: Cassie Duykers, Cassandra Nichols, George Darby, Brad Wilken
 Front row: Donna Azzi, Caroline Bayer, Mady Colquhoun



Some of the Bush Blitz staff © Copyright, R. Whyte
 Kate Gillespie, Jo Harding, Vivek Vijayraghavan, Cassandra Nichols, Caroline Bayer

A standard suite of survey techniques was used:

- + Birds were observed directly and with binoculars. Many of the bird records were made opportunistically while surveyors were in transit to survey sites.
- + Reptiles and frogs were recorded from visual surveys, and pitfall and funnel trap collections. Frogs were also detected and identified through audio searches.
- + Fishes were collected in river refuges, springs, waterholes and wetlands using fine mesh seine nets, fyke nets, dip nets, cast nets, bait traps, and limited gill netting and angling.
- + Native bees were collected from vegetation with sweep nets and from the air with a vehicle net, and in blue vane traps. Hollow stems and twigs containing nests were collected. *Acacia* trees were scanned for the presence of thrips galls.
- + Butterflies were collected mostly with wide-mouthed nets.
- + True bugs were collected mainly by beating foliage and sweeping with nets, and some collections were also made with the vehicle net.
- + Dragonflies and damselflies were collected with large insect nets. Searches were conducted around water bodies.
- + Ground-dwelling invertebrates were collected by: sifting through leaf litter; hand searching under logs, rocks and bark; and beating vegetation. Dry pitfall traps were also used. A few specimens were collected at night using head torches or ultraviolet light.
- + Land snails were found by: sifting through leaf litter; searching samples of topsoil for shells; raking soil under rocks, logs, spinifex and fig trees; and hand searching under rocks, logs and bark and in tree and rock hollows and crevices. Freshwater snails were found by searching rocks, water plants, sand and mud in waterholes, and by dredging these with sieves or fine netting.
- + Stygofauna was collected by sampling bores and waterholes with a weighted plankton net. Hyporheic waters near springs were sampled using the Karaman–Chappuis method of digging a small hole in the creek bed, and scooping subsurface water into a plankton net or using the Bou-Rouch method of driving a perforated metal rod into the stream bed to a depth of about 1 m and hand pumping and filtering the water.
- + Vascular plants were collected from the majority of vegetation communities known to occur on the station.
- + Cryptogams were collected from a range of habitats, including the plains and ranges.





Voucher specimens were taken of reptile, frog, fish, butterfly, dragonfly and damselfly species. Bee tissue will be added to the Barcode of Life database.

Collections were identified using available literature and the holdings of museums and herbaria. Fauna specimens are lodged with the Museum and Art Gallery of the Northern Territory, apart from true bugs, which are lodged with the University of New South Wales. Plant specimens are lodged with the Northern Territory Herbarium.

Final species lists were compiled by combining the results of this Bush Blitz, the results of the 2013 biodiversity audit⁴, and data provided by the Australian Natural Heritage Assessment Tool.



Accommodation at Henbury Station © Copyright, R. Whyte

⁴ Desert Wildlife Services, 2012, *Henbury Station Biodiversity Audit 2013*, unpublished report prepared for RM Williams Agricultural Holdings.



Results

A total of 297 species were added to those known across the reserve. Among these are 11 putative species new to science; these await assessment. Twelve animal species listed as vulnerable, near threatened or data deficient under the *Territory Parks and Wildlife Conservation Act 2007* (TPWC Act) or the *Northern Territory Fisheries Act 1988* were observed. Three plants listed as vulnerable under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) were recorded, as well as 48 plants assessed under the TPWC Act as endangered, vulnerable, near threatened or data deficient. Ten exotic or pest fauna species and 44 weed species were also recorded. The locational data of collected and observed specimens are available to reserve managers.

Species Lists

Appendix A provides full, updated species lists for the reserve. Names in **bold brown text** are putative new species. Species marked with an asterisk (*) had not been recorded previously at Henbury. Those without an asterisk were recorded previously and found again during this survey. Species shown in blue were not recorded on this survey, but were found at Henbury by previous studies. Table 2 provides a summary of the number of species recorded, new records and putative new taxa found on the reserve.

Some specimens collected during this Bush Blitz have been identified only to family or genus level. This is partly because identifying specimens is very time-consuming, with detailed microscopic examination needed in most cases. Also, some groups are 'orphans': there are no experts currently working on them, and their taxonomic literature is out of date. For orphan groups, species-level identification is not possible. Unidentified Bush Blitz specimens are held in institutional collections where they can be subject to further study.

Nomenclature and taxonomic concepts used in this report are consistent with the Australian Faunal Directory, Australian Plant Name Index, Australian Plant Census, Checklist of the Lichens of Australia and its Island Territories, AusMoss, and the Catalogue of Australian Liverworts and Hornworts.



Spencer's Burrowing Frog (*Platyplectrum spenceri*), which spends half the year underground encased in a cocoon of its own skin
© Copyright, R. Whyte





Transient waterhole, home to innumerable Shield Shrimp (*Triops australiensis*) for just a few weeks. J. Archibald © Copyright, MAGNT

Table 2: Summary of flora and fauna records and putative new species

| Group | Common name | Species recorded | Species new to reserve | Putative new species |
|----------------|-----------------------------------------------|------------------|------------------------|----------------------|
| Mammalia | Mammals | 8 | 0 | 0 |
| Aves | Birds | 90 | 4 | 0 |
| Reptilia | Reptiles | 27 | 6 | 0 |
| Anura | Frogs | 2 | 0 | 0 |
| Pisces | Fishes | 9 | 0 | 0 |
| Hymenoptera | Bees | 28 | 20 | 1 |
| Lepidoptera | Butterflies and Moths | 16 | 16 | 0 |
| Heteroptera | True Bugs | 64 | 64 | 5 |
| Thysanoptera | Thrips | 4 | 4 | 0 |
| Odonata | Damselflies and Dragonflies | 10 | 4 | 0 |
| Myriapoda | Symphylans, Millipedes and Centipedes | 13 | 13 | 0 |
| Arachnida | Mites, Scorpions, Pseudoscorpions and Spiders | 62 | 61 | 4 |
| Stygofauna | Groundwater Fauna | 3 | 3 | 0 |
| Crustacea | Crustaceans | 6 | 5 | 0 |
| Gastropoda | Snails | 18 | 9 | 0 |
| Vascular Flora | Flowering plants | 685 | 53 | 1 |
| Cryptogams | Liverworts, Mosses, Lichens, Fungi and Algae | 35 | 35 | 0 |
| Totals | | 1080 | 297 | 11 |



Threatened Species

Appendix B shows the species recorded for Henbury and assessed under the Commonwealth EPBC Act, TPWC Act, or the *Fisheries Act 1988* of the Northern Territory as endangered, vulnerable, near threatened or data deficient. A summary is provided in Table 3.

Table 3: Summary of threatened species identified

| Group | Total number of species | Species new to reserve |
|-------|-------------------------|------------------------|
| Fauna | 12 | 5 |
| Flora | 48 | 3 |

Exotic and Pest Species

Appendix C lists the exotic and pest species known in the reserve. A summary of exotic and pest species is provided in Table 4.

Table 4: Summary of exotic and pest species identified

| Group | Total number of species | Species new to reserve |
|-------|-------------------------|------------------------|
| Fauna | 10 | 3 |
| Flora | 44 | 5 |



Shield Shrimp (*Triops australiensis*) © Copyright, P. Taylor





Aerial view of the ranges showing circular Hard Spinifex (*Triodia basedowii*) growth, P. Jobson © Copyright, Northern Territory Herbarium

Discussion

Putative New Species

A putative species new to science is an unnamed species that, as far as can be ascertained, was collected for the first time during the survey; it is confirmed as a new species once it is named and its description published. Specimens collected during the Bush Blitz also include unnamed taxa that are already known from museum and herbarium collections: these are not classed as putative new species. A breakdown of the groups in which putative new species were recorded is provided in Table 5.

Table 5: Putative new species by group

| Group | Common name | Number of putative new species |
|------------------|------------------|--------------------------------|
| Hymenoptera | Bees | 1 |
| Heteroptera | True Bugs | 5 |
| Pseudoscorpiones | Pseudoscorpions | 1 |
| Araneae | Spiders | 3 |
| Vascular Flora | Flowering Plants | 1 |



Vertebrate Fauna

No putative new vertebrate species were identified during the survey.

Invertebrate Fauna

One native bee species that may be new to science was collected: *Amegilla (Asaropoda)* n. sp. HSKR. This bee was found on the flowering Wireleaf Mistletoe (*Amyema preissii*). Not all recognised bee morphospecies have been compared to named specimens, therefore there may be additional new species.

Five true bug species possibly new to science were collected, all from Orthotylinae subfamily of the Miridae family.

One new species of pseudoscorpion (*Geogarypus* n. sp.) was confined to the shaded gorges and south-facing slopes of rocky outcrops and ridges. Three new mygalomorph spiders were collected; there may be several more undescribed species among the spider specimens, but further work is needed to identify these. It is also likely that a paradoxosomatid millipede specimen collected represents a new species, but adults are needed to confirm this.

Vascular Flora

One putative new flowering plant was found in the survey: *Acacia* sp. silver (P.K.Latz 27977). It is a member of the *Acacia aneura* (mulga) complex which is currently under revision. This specimen has been placed tentatively under *A. incurvaneura*, pending further investigation.

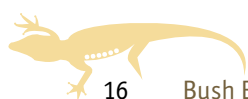


Western Bowerbird (*Ptilonorhynchus guttatus*) in Bat's Wing Coral Tree (*Erythrina vespertilio*) foliage © Copyright, R. Whyte

At least two populations were observed on the southern slopes of James Range, and a more detailed investigation of the area is likely to reveal further populations. The recorded habitat is sandstone ridge locally dominated by *Acacia* sp. silver; associated species include *Eremophila freelingii*, *E. latrobei*, *Sida* sp. Musselbrook (M.B.Thomas+ MRS437), *Digitaria brownii* and *Triodia brizoides*.

Other Northern Territory populations of *Acacia incurvaneura* have been noted as being different from typical Western Australian populations and reassessment of these may ascertain whether these populations are also strongly silver in phyllode colouration.

The only immediate threat to this and other populations is fire. Most of the mulgas in central arid Northern Territory are fire sensitive.





Threatened Species

Australia is home to an estimated 570,000 species, most of which are yet to be described formally. Approximately 92% of Australian plants, 87% of mammals, 93% of reptiles and 45% of birds are endemic.⁵ Changes to the landscape and native habitat resulting from human activity have put many of these unique species at risk. Over the last 200 years, numerous species have become extinct; many others are threatened.

Vertebrate Fauna

While mammals were not a target of this survey, a previous survey recorded Black-footed Rock-wallabies (*Petrogale lateralis*) in Merricks Gully, adjacent to the Finke Gorge National Park boundary. This wallaby is listed as vulnerable under the Commonwealth EPBC Act. The Henbury record is likely to represent the south-eastern limit of its distribution in the Northern Territory.

Five bird species identified during the survey are listed under the TPWC Act. Emus (*Dromaius novaehollandiae*) have declined across the Northern Territory and are considered near threatened. It appears that there is a viable resident population at Henbury, with pairs and tracks seen throughout the survey. Similarly, Red-tailed Black Cockatoos (*Calyptorhynchus banksii samueli*, listed as near threatened) were seen in small flocks across the station, indicating a viable resident population.



Leopard Ctenopus (*Ctenopus pantherinus*), known for its unusual night-time foraging behaviour © Copyright, D. Trembath

Of the four new bird records for the station, one species—Flock Bronzewing (*Phaps histrionica*)—is considered near threatened under the TPWC Act. This large ground pigeon was once widespread across Australia but its distribution has shrunk to semi-arid inland Australia and the Kimberley region of Western Australia. Two other species identified during the survey—Australian Reed Warbler (*Acrocephalus australis*, assessed as near threatened) and the Australian Spotted Crake (*Porzana fluminea*, assessed as data deficient)—inhabit reed beds. It is therefore important that damage to these beds by pest herbivores is minimised.

One reptile species assessed as data deficient under the TPWC Act was identified: Banded Delma (*Delma desmosa*). In a previous survey in 2009, Slater's Egernia (*Liopholis slateri slateri*) was recorded along the upper Illbilla Creek catchment. Slater's Egernia is classified as endangered under the EPBC Act and vulnerable under the TPWC Act. The main reason for its decline is believed to be changes to habitat resulting from the invasion of Buffel Grass (*Cenchrus ciliaris*).

Three endemic fish species listed under the *Fisheries Act 1988* were identified: Finke Hardyhead (*Craterocephalus centralis*, listed as near threatened); Desert Mogurnda (*Mogurnda larapintae*, listed as near threatened); and Finke Goby (*Chlamydogobius japaipa*, listed as vulnerable).

⁵ Chapman, A. D. 2009, *Numbers of Living Species in Australia and the World*, 2nd edn. Australian Biological Resources Study, Canberra, 80 pp.



Invertebrate Fauna

Two butterfly species assessed as data deficient under the TPWC Act were identified. This status indicates that there is inadequate information to assess its conservation status. The most important of these is the Inland Sand-skipper (*Croitana arenaria*), which is a rare desert species only recorded around Alice Springs and in northern South Australia. The specimen collected during the survey is the first to be lodged with the Museum and Art Gallery of the Northern Territory. The other species is the Monarch (*Danaus plexippus*), which is not normally found in the Northern Territory.

One snail species listed as vulnerable in the Northern Territory was identified:
Basedowena squamulosa.

Vascular Flora

Forty-eight species of conservation interest were recorded during this survey, with two assessed as endangered, three as vulnerable, 30 as near threatened and 13 as data deficient under the TPWC Act.⁶ Three of these species are also listed

as vulnerable under the Commonwealth EPBC Act: Palm Valley Livistona (*Livistona mariae*), Minnie Daisy (*Minuria tridens*) and Latz's Wattle (*Acacia latzii*). It is likely that some will prove to be threatened following further investigation.

A population survey was conducted on three near threatened species (Tables 6 and 7). The Desert Grass-tree (*Xanthorrhoea thorntonii*) had not previously been identified at Henbury Station, but was assumed to be present, as the type locality (Wild Eagle Plain, Tempe Downs) is less than 15 km from the survey site. The species had not been collected south of James Range, since 1936.

Unfortunately, no juveniles of Brilliant Hopbush (*Dodonaea microzyga* var. *microzyga*) were present, and there appeared to be no active recruitment. It may be necessary to monitor or conduct experiments to see if seedlings are being taken by predators, if the population is in decline through failure to set fertile seed, or if recruitment is episodic following fire, exceptional rainfall or some other event or series of events.

Table 6: Recruitment and size measurements of two near threatened species at Henbury Station

| Species | Age Class | Individual Number | Mean Height ± SD | Mean Stem Diameter ± SD |
|-------------------------------------------------|-----------|-------------------|------------------|-------------------------|
| <i>Dodonaea microzyga</i> var. <i>microzyga</i> | Adults | c. 20 | – | – |
| | Juveniles | 0 | – | – |
| <i>Xanthorrhoea thorntonii</i> | Adults | 25 | 2.3 m ± 0.43 | 27 cm ± 2.94 |
| | Juveniles | 30 | 1.25 m ± 0.35 | 30.5 cm ± 3.46 |

⁶ IUCN 2001, 2003; IUCN Standards and Partitions Subcommittee 2011.





The liverwort *Riccia inflexa* © Copyright, R. Whyte

In contrast, the Desert Grass-tree population exhibits obvious recruitment with over 50% of the population being juvenile plants. The measurements conducted suggest that stem diameter develops quickly in the plant's life, before stem elongation. Statistically, there is no difference between the stem diameters of the mature and juvenile plants, but there is close to a metre difference in height. Within the quadrat, two of the mature plants had flowered and released their seeds.

The Blue-bush Daisy (*Cratystylis centralis*) population extended from a drainage line to a steep slope approximately 50 m away. This population is broken up according to whether growing on a drainage line or on a slope of particular gradient, based on the recorders' perceptions, to ascertain if there were any differences in plant size and recruitment for the Blue-bush Daisy.

Table 7: Recruitment and size measurements of the *Cratystylis centralis* population

| Area | Age Class | Number of Individuals | Mean Height ± SD | Mean Width ± SD | Mean Stem Diameter ± SD |
|-------------|-----------|-----------------------|------------------|-----------------|-------------------------|
| Drainage | Adult | 29 | 57cm ± 12.91 | 120 cm ± 38.38 | 4 cm ± 1.6 |
| | Juvenile | 2 | 35 cm ± 10.0 | 36 cm ± 16 | 0.75 cm ± 0.25 |
| Lower Slope | Adult | 5 | 50 cm ± 8.11 | 63 cm ± 15.16 | 2.0 cm ± 0.97 |
| | Juvenile | 1 | 18 cm | 18 cm | 0.3 cm |
| Mid Slope | Adult | 24 | 47.5 cm ± 10.61 | 74.5 cm ± 21.57 | 1.65 cm ± 1.07 |
| | Juvenile | 5 | 30 cm ± 2.8 | 25 cm ± 5.88 | 0.5 cm ± 0.38 |
| Steep Slope | Adult | 56 | 45 cm ± 13.17 | 60 cm ± 25.38 | 1.3 cm ± 0.81 |
| | Juvenile | 2 | 25.5 cm ± 7.5 | 16.5 cm ± 1.5 | 0.325 cm ± 0.18 |



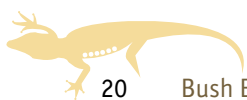
In general, the trend seems to be that as the slope steepens, the dimensions of the individuals diminish. However, within each delimited zone, the variability of each measurement is quite broad. This is almost certainly due to the architecture of the plant; in the field it has a bonsai appearance with gnarled branches and stems, and the base of the plant often has the appearance of the presence of a lignotuber (although this was not tested). Recruitment appears to be low along all zones and

further monitoring would need to be undertaken to ascertain whether predation or intrapopulation decline was occurring.

As a consequence of Henbury Station's grazing history, potential threats and pressures to the conservation significant species are largely due to grazing by stock and introduced herbivores (particularly camels, donkeys and horses), as well as changed fire regimes.



Tarantula (*Selenocosmia* sp.) © Copyright, R. Whyte





Exotic and Pest Species

The NRS is designed to conserve and protect Australia's rare and threatened ecosystems and provide refuge for species at risk. Invasive species can have a major impact on already vulnerable species and ecosystems, as well as economic, environmental and social impacts. The inclusion of exotic and pest species records as part of this report is designed to provide land managers with baseline information to assist with pest management programs.

Vertebrate Fauna

All seven of the vertebrate pest species observed on Henbury Station were mammals. All were introduced to Australia in the 19th century and have established widespread populations.

Cats (*Felis catus*) represent the greatest threat to native taxa such as birds, reptiles and mammals. Anecdotal evidence suggests that Dingoes (*Canis dingo*) prey on cats and there is an ad hoc system of control of cats by shooting, but significant damage is still done.

Browsing animals, in particular Camels (*Camelus dromedarius*), Donkeys (*Equus asinus*), Horses (*Equus caballus*), Cattle (*Bos taurus*) and Rabbits (*Oryctolagus cuniculus*), cause major damage to local flora, which reduces habitats and food sources for native fauna. The larger herbivores also reduce water quality and damage waterholes, river banks and reed beds, which are important habitats for waterbirds, including threatened species such as the Australian Reed Warbler (*Acrocephalus australis*). Population control is recommended to prevent further damage. Some form of fencing could also be considered to protect the reed beds.

The negative impact on habitat by feral herbivores was obvious at most sites, especially Puka Waterhole and Illbilla Springs.

Only one House Mouse (*Mus musculus*) was captured, in a pitfall trap near the homestead.

A significant attribute of Henbury Station is the lack of introduced fishes. Potential invaders that proactive management could address include Eastern Gambusia (*Gambusia holbrooki*), Swordtail (*Xiphophorus hellerii*), Speckled Mosquitofish (*Phallocheros caudimaculatus*) and Goldfish (*Carassius auratus*), all of which have been reported nearby in the Alice Springs area⁷ or elsewhere in the Lake Eyre Basin.⁸ Further, introductions of larger predatory angling species such as Golden Perch or Yellowbelly (*Macquaria* spp.) and Murray Cod (*Maccullochella peelii*) have been rumoured but do not appear to have established self-sustaining populations; new introductions should be discouraged, and the practice is illegal.

Invertebrate Fauna

The European Honey Bee (*Apis mellifera*) is not listed as a pest species; however, it can be a pest species in certain circumstances. Feral colonies at Henbury can occupy nesting hollows that otherwise might be used by mammals or hollow-breeding birds such as parrots, lorikeets and cockatoos. Honey Bees may also compete with

7 Larson, H. K., Williams, R. S. & Hammer, M. P., 2013, 'An annotated checklist of the fishes of the Northern Territory, Australia', *Zootaxa* **3696**: 001–293.

8 Wager, R. & Unmack, P. J., 2000, *Fishes of the Lake Eyre Catchment of Central Australia*, The State of Queensland, Department of Primary Industries and Queensland Fisheries Service: Brisbane.



native bees for nectar and pollen, especially when these resources are scarce. Furthermore, they require water for thermoregulation of their colonies and can be very persistent at any water source. In order to control feral Honey Bees, access to water sources should be minimised.

The native Rutherglen Bug (*Nysius vinitor*), which can be a pest in agricultural areas across Australia, was found in various areas on the station.

A male of the introduced Tailed Daddy Longlegs spider (*Crossopriza lyoni*) was also found.

Vascular Flora

Prior to this investigation, 41 weed species were recorded on Henbury Station; an additional five weeds were collected during the survey (Table 8), mostly associated with sites of station activity. One species previously recorded for Henbury (*Opuntia* sp.), can now be confidently identified as Prickly Pear (*Opuntia stricta*). In the Northern Territory this is a Category B gazetted weed, requiring monitoring and reduction of spread. It is native to tropical and subtropical America, but it has become naturalised throughout the drier areas of mainland Australia.

Table 8: Newly recorded weeds

| Species | Common name | Latitude (decimal degrees) | Longitude (decimal degrees) | Location | Indication of abundance |
|---------------------------------|--------------------|----------------------------|-----------------------------|--------------------------------------------|-----------------------------------------------------------------------------------|
| <i>Caesalpinia bonduc</i> | Grey-nicker | -24.55333 | 133.25222 | Henbury Homestead, garden escapee | Several plants, beyond edge of garden |
| <i>Cenchrus pennisetiformis</i> | White Buffel Grass | -24.54833 | 133.25444 | 0.5 km N of Henbury Homestead | Several plants, in small drainage line in paddock, with <i>Cenchrus ciliaris</i> |
| <i>Cenchrus setiger</i> | Birdwood Grass | -24.445 | 133.115 | 18 km NW of Henbury | Several plants, scattered through grassy claypan |
| <i>Malva parviflora</i> | Mallow | -24.60861 | 133.23027 | Dam, c. 4 km SE of Ernest Giles Rd turnoff | 2–3 plants observed on the shallow entry into the dam; other weedy plants present |
| <i>Opuntia stricta</i> | Prickly Pear | -24.54944 | 133.25722 | Rubbish dump, 1 km E of Henbury Homestead | Several plants, some 3m in diameter |





Peter Jobson and Peter Latz examine Desert Grass Trees (*Xanthorrhoea thorntonii*), Wild Eagle Plain, Henbury Station © Copyright, Northern Territory Herbarium

Other Points of Interest

Vertebrate Fauna

Birds

Many of the bird species found in central Australia are uniquely adapted for life in arid zones and are found nowhere else. The bird fauna of the Northern Territory is relatively well known due to the popularity of amateur bird watching and a solid record of formal bird surveys that have been undertaken over the past 50 years.

Ninety bird species were identified during the Henbury Station Bush Blitz, four of which were new records for the property. The surprising number of waterbird species is due to the permanent waterholes that occur along the Finke River. These are important refuges for migratory and resident waterbirds, and also serve as oases for other resident species during dry times. The total bird species count for Henbury Station is now 169.

Reptiles and Frogs

Despite the diversity and abundance of herpetofauna in the Northern Territory, their taxonomy and systematic relationships are not well known. Modern molecular techniques have revealed that many well-known 'species' are composites of cryptic taxa. No known undescribed species of reptiles or frogs were found during the survey, however it is likely that some of these species comprise two or more cryptic species. The collection of vouchers and tissues will enable researchers to study the relationships of these species.

Two frog and 27 reptile species were identified during the survey. Six of the reptiles are new records for the property: Lea's Ctenotus (*Ctenotus leae*), Slender Blue-tongued Lizard (*Cyclodomorphus melanops*), Freckled Monitor (*Varanus tristis*), Woma (*Aspidites ramsayi*), Yellow-faced Whip Snake (*Demansia psammophis*) and Moon Snake (*Furina ornata*). The total reptile and frog species count for Henbury Station is now 90.



Fishes

Freshwater fishes are a key part of land management due to their diversity in number and form, intriguing life histories and adaptations, links within food-chains, value as bioindicators, role in human culture and use, and as icons for aquatic conservation and environmental awareness.⁹ This is perhaps no more pronounced than in desert habitats, where water is usually very scarce, and outside of rare flood events any aquatic habitats represent biological oases. The species that occupy isolated and invariably harsh desert habitats are characterised by high levels of endemism and adaptation to extremes of salinity and temperature.

Fish from the Finke River were first surveyed in the Horn Scientific Expedition of the 1890s, and have been the subject of a number of surveys over the past 30 years. Most recently, the Lake Eyre Basin Rivers Assessment (LEBRA) undertook surveys across all the major river systems of the basin, including the Finke River.

⁹ Bunn, S. E. & Arthington, A. H., 2002, 'Basic principles and ecological consequences of altered flow regimes for aquatic biodiversity', *Environmental Management* **30**: 492–507; Kennard, M. J., Pusey, B. J., Arthington, A. H., Harch, B. D. & Mackay, S. J., 2006, 'Development and application of a predictive model of freshwater fish assemblage composition to evaluate river health in eastern Australia', *Hydrobiologia* **572**: 33–57; Hammer, M., Wedderburn, S. & van Weenan, J., 2009, *Action Plan for South Australian Freshwater Fishes*, Native Fish Australia (SA) Inc., Adelaide.



Brad Wilken and Dane Trembath Skype with Brad's students in Canberra
© Copyright, R. Whyte

In this survey, all nine fish species known from the Finke River, including three species endemic to the region, were sampled. Strong populations of all species were found, especially at the key regional refuge habitat, Running Waters. As with reptiles and frogs, further work is needed to reveal cryptic species in the region.

Initial efforts to document the Petarme language names for Ltyarnma (fishes) of the region were made during an open day with Traditional Owners and via liaison conducted by the Central Land Council. It would be valuable to establish a broader program to document Indigenous names, using live fish displays where possible.





Northwest Glassfish, previously known as *Ambassis muelleri*, is now recognised to be an undescribed species; *Ambassis muelleri* is a synonym of Agassiz's Glassfish (*Ambassis agassizii*), which occurs in eastern Australia.¹⁰ Further morphological and molecular work across northern Australia and the Lake Eyre Basin is required to clarify the status of fishes in the Finke River.

Invertebrate Fauna

The terrestrial invertebrate fauna of inland Australia is estimated to comprise at least 250,000 species. Research on Australian invertebrates has increased significantly over the last 20 years, but it is estimated that less than 15% of species have been formally described. In general, about a third of the species collected in any area are found to be new to science, and many of these are short-range endemic (SRE) taxa. Such taxa are defined as species that have naturally small distributions of less than 10,000 km² because they are poor dispersers, have relatively low reproductive rates and are conservative in their ecological requirements. These attributes make them extremely susceptible to habitat change, including fragmentation.

Surveys at Henbury Station prior to this Bush Blitz tended to focus on vertebrates, and thus little was known about the invertebrates.

Bees

Twenty-eight native bee species from four families were identified during the survey, 20 of which are new records for the property. Nine species are as yet unnamed, and it is likely that at least one of these—*Amegilla (Asaropoda)* n. sp. HSKR—is new to science.

Half of the bee specimens were collected by hand collecting or sweep-netting of flowering plants. In particular, flowering Wireleaf Mistletoe (*Amyema preissii*), *Grevillea* and *Eremophila* species were attractive to native bees. Wireleaf Mistletoe seemed to be the most widespread and abundant floral resource for native bees at this time of the year. It was visited by three species of the tribe Halictini, as well as three species of blue-banded bees (*Amegilla* spp.), one of which is a putative new species. Blue-banded bees were observed foraging on many other species, reinforcing the notion that they are very generalist foragers.

Nine *Exoneurella eremophila* nests were found in dead stalks of the introduced weed Prickly Poppy (*Argemone ochroleuca*), growing on sand banks in the Finke River. This small bee is known to use the pithy stems of dry flowering stalks of a range of plants as nesting substrate; however, it had not previously been found to use *A. ochroleuca*. The nests contained both adult females and males.

¹⁰ Allen, G.R., Midgley, S.H. & Allen, M. 2002, *Field Guide to the Freshwater Fishes of Australia*, Perth, Western Australian Museum. 394 pp.



Exoneurella eremophila collected in its nest in a dry stem of Prickly Poppy (*Argemone ochroleuca*) © Copyright, R. Whyte

Two nests were found were in dead grass stalks. One contained a white pupa, a large larva and a failed cell, while the other contained three black pupae. The brood was reared through to adulthood to identify the species. A male and a female emerged and were identified as *Hylaeus (Pseudhylaeus)* sp., but have not yet been compared to named specimens in existing collections. A tissue sample will be submitted for sequencing for the Barcode of Life database. One cell contained the larva of a parasitic wasp from the Ichneumonidae family. Further breeding of the parasitic wasp is ongoing. This will allow matching of a parasitic wasp species with its bee hosts, providing information that is rare and typically difficult to obtain.

Fourteen bee specimens were caught in blue vane traps, including the *Eremophila* specialist *Braunsapis dolichocephala*. Due to the inclement weather and limited accessibility of the tracks, the vehicle net could be used only on two occasions. This collecting method yielded a fascinating range of parasitic wasps and six species of bees and reinforces an earlier conclusion that the vehicle net is an efficient way of catching bees, but that it catches low numbers per species. Three of the species caught with the vehicle net were not taken using the other methods. The collection of *Homalictus blackburni* was unexpected, as it was thought to have a more coastal distribution in northern Queensland and the Northern Territory.





Butterflies and Moths

While the butterfly fauna of the Northern Territory is relatively well known, there were no previous records of butterflies or moths from Henbury Station. Fifteen butterfly species were identified during the survey, three of which are range extensions. These were the rare Inland Sand-skipper (*Croitana arenaria*), the reasonably common Lesser Wanderer (*Danaus petilia*), and the Black-spotted Grass-blue (*Famegana alsulus*). One day-flying moth was also recorded: Mistletoe Moth (*Comocrus behri*).

True Bugs

A total of 64 Heteroptera species from eight families were recorded from Henbury Station over the two week survey period, providing the first comprehensive Heteroptera species list for the Station. Five of these were new to science, three records were new for the Northern Territory (*Crompus opacus*, *Urentius sarinae*, *Taylorilygus apicalis*), and one was a range extension (*Eysarcoris fuscus*).

The survey also collected host plants to establish the insect-plant interactions. A total of 47 plants were recorded as true bug host plants at Henbury Station.

Dragonflies and Damselflies

Henbury Station had not previously been surveyed for odonates. Three damselfly and seven dragonfly species were identified during this Bush Blitz. This comparatively low diversity reflects the arid environment that supports a low natural diversity of odonates in central Australia, as well as the cold and sometimes wet conditions that prevailed during the



Burrowing Scorpion (*Urodacus* sp.) © Copyright, R. Whyte

survey. All of the species documented are common. Surveys undertaken during spring or summer, when odonate activity is higher, will undoubtedly increase the number of known species.

Millipedes, Centipedes, Mites, Scorpions, Pseudoscorpions and Spiders

This Bush Blitz was the first survey undertaken at Henbury Station to focus on arachnids and myriapods. One symphylan species, four millipedes, eight centipedes, one mite, five scorpions, eight pseudoscorpions and 48 spiders were recorded.

The arachnid and myriapod fauna of Henbury Station is typical of central Australia, with a mixture of widespread and highly localised taxa. Very few specimens of the target wolf spider family Lycosidae were collected, but trapdoor (mygalomorph) spiders were well represented. Most of the species are short-range endemics.



Snails

Eighteen snail species were recorded at Henbury Station, eight of which are endemic to central Australia. Collection of four species represent range extensions: *Pleuroxia adcockiana*, *Sinumelon expositum*, *Basedowena squamulosa* and *Pupoides ischnus*. The last of these is listed as vulnerable under the TPWC Act of the Northern Territory. It is a rare species, endemic to the western section of James Range, Krichauff Range and Palm Valley.

Snail diversity on Henbury Station is highest in the northern half of the property, at James Range.

Henbury Station supports a moderate diversity of land and freshwater snails; the total number of native species currently recorded for central Australia is 72. The main reason for the lack of snails is likely to be a shortage of leaf litter, which snails require for aestivation during dry periods. During the survey period, if leaf litter was present,



1. *Plotiopsis balonnensis*, 2. *Glyptophysa* sp., 3. *Isidorella newcombi*, 4. *Austropeplea lessoni* 5. *Gyraulus hesperus* © Copyright, V. Kessner





it was too fresh. Only species that aestivate by burying deeply in soil or amongst very large piles of rocks have a chance to survive severe burning. This survey provided abundant evidence to support the view that mortality of land snails is very high due to fires.

The practice of intentional burning of spinifex grasslands poses a very serious threat to land snails and other invertebrates, and it also favours the spread of invasive grass species such as Buffel Grass (*Cenchrus ciliaris*), which do not provide a suitable habitat for native snails adapted to spinifex. Burn-offs in areas containing limestone outcrops should be avoided as far as possible in order to protect the remaining snail populations, which are in serious decline. Snail densities in Central Australia are significantly lower than they were 30 years ago. In many areas, particularly in those dominated by weeds, native snails have now completely disappeared. Overgrazing also poses a serious threat to snails by altering their habitat.

Stygofauna

There were no previous records for stygofauna from Henbury Station. The stygofauna found during this Bush Blitz consisted of three major invertebrate groups: oligochaete worms, ostracod shrimps and cyclopoid Copepoda (small planktonic animals). Crustacean groups such as Bathynellacea, Amphipoda and Isopoda were not found.

Pre-survey expectations for the existence of stygofauna in the area were high because of a number of permanent springs, waterholes and coarse sand and gravel banks in the river as well as pastoral wells drilled in aquifers with reasonable quality groundwater.

The low number of stygofauna found was due to a number of reasons. Rain before and during the survey meant that roads were closed and some of the bores and springs were not accessible. In addition, a number of wells could not be sampled because they were equipped with pumps that blocked access to the water. The majority of the gravel banks along the Finke River were impossible to sample using the Bou-Rouche pump because fine sand clogged the tubes and pump. Illamurta Springs and Illbilla Springs were damaged by feral horses that trample vegetation and add nutrients to the water, leading to increased algae growth and reduced oxygen.

The majority of the accessible wells did not have any animals, while two wells had mosquito larvae, a clear sign of surface influence that nearly always excludes stygofauna. The only bore with stygofauna was Hardrock Bore, containing a small number of stygobitic (blind) specimens of Ostracoda, cyclopoid Copepoda and Oligochaeta. Illamurta Springs had a small covered well with upwelling groundwater that contained Ostracoda and (eyed) cyclopoid Copepoda. After several unsuccessful attempts using the Bou-Rouche pump near Running Waters, fauna were collected using the Karaman-Chappuis method. The majority of the collected specimens were surface dwellers such as insect larvae, however it is likely that it also contained some stygobitic Copepoda and Ostracoda.



Vascular Flora

A total of 685 vascular flora species were identified during the survey, 53 of which were new records for the station. Henbury Station is now known to host 768 vascular plant species.

During the March 2013 survey, an unusual vegetation community was observed on the higher ridges of the James Range, but was not sampled due to poor access. However, with the help of a helicopter, it was possible to access the site. This community of interest is a Mitchell Grass (*Astrelba* spp.)-Whitewood (*Atalaya hemiglauca*) grassland, perched at or near the summit of the James Range. The soils are red-brown clays with pebbles, sandwiched between banded outcroppings of sedimentary rocks. Species associated and recorded for this community include *Sida goniocarpa*, Low Hibiscus (*Hibiscus brachysiphonius*) and *Iseilema eremaeum*. All of these species prefer heavy clay soils and have limited distributions in the region. Preliminary observations suggest that this community is threatened by fire and subsequent erosion. This is based on observations on an adjacent hill that had been burnt, and where the grass was replaced by the more fire tolerant Tall Bottlewashers (*Enneapogon intermedius*). Further targeted survey and monitoring of this community is needed to document its distribution and assess threats.

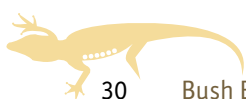
Considering the frequent botanical forays and, in particular, the intense collecting conducted in March 2013 prior to the Bush Blitz survey, it was surprising to find a significant number of new records for the station. Other sections of the James Ranges (in the northern portion of Henbury Station) not surveyed during the Bush Blitz survey may also

harbour additional species. Unfortunately, due to inclement weather, it was not possible to spend more time exploring this area.

There was an observed increase in the biomass on the station as a consequence of destocking and subsequent good rains. For example, under mature Desert Oaks (*Allocasuarina decaisneana*) rings of Buffel Grass (*Cenchrus ciliaris*) were seen. In other areas, such as claypans, or recently burnt dunes, annual grasses and herbs were abundant, and flowering and setting seed. A number of these species are known to be palatable to stock, and in stocked areas are heavily grazed, resulting in reduced recruitment from seed banks. Although there are positive benefits associated with destocking, fire and weed issues become more significant and a corresponding increase in management is required.

Feral herbivores were particularly noticeable in the more isolated areas of the station such as parts of Wild Eagle Plain and the valley near Puka Rockhole. Here, grazing impact was intensive and, at Puka, all the seedlings of Whitewood (*Atalaya hemiglauca*) were cropped severely, along with a heavy reduction in diversity of grasses.

Expanding the boundaries of Finke Gorge National Park to encompass the James Ranges and internal valleys, Puka Waterhole and the eastern portion of Wild Eagle Plain to the west, would add to the conservation value of the area. This portion of Henbury Station is poor grazing land, but has good species diversity, including several species of conservation significance. The expansion of the Finke Gorge National Park would also ensure that the Mitchell Grass-Whitewood community is included within the reserve system.





Since destocking, the habitats on the alluvial plains and floodways have recovered, with species diversity increasing, including those palatable to stock. Keeping stock at a sustainable level is desirable, enabling the plant communities to survive through periodic adverse climatic conditions, whilst still allowing the pastoralist to pursue a livelihood.

Henbury Station is a botanically rich and diverse reserve supporting a third of all species known to occur in Central Australia. This is largely due to the diverse habitats present, including river and creek systems, mountain ranges and hills comprising various rock types, plains, claypans and desert sand dunes. Even with extensive collecting over the past 60 years, another 53 species were added to an already impressive species list. Another survey in spring is likely to add even more species, particularly spring-flowering annuals.

A correspondingly high number of species of conservation significance occur on Henbury. Palm Valley Livistona (*Livistona mariae*) and Quandong (*Santalum acuminatum*) are currently being monitored as part of a management plan, but the Henbury populations are not part of that plan. Neither Minnie Daisy (*Minuria tridens*) nor March Club-rush (*Bolboschoenus caldwellii*) are under management plans, but both have been flagged for future monitoring programmes. Further targeted surveys and population condition assessments of near threatened and data deficient species occurring on the reserve would be beneficial.

Cryptogams

This was the first cryptogam survey of Henbury Station: 6 species of liverwort, 2 mosses, 24 lichens and 1 fungi were collected.



Grimmia laevigata, a saxicolous moss, on red sandstone, 10 km NW from Illamurta Spring, V. Stajsic © Copyright, National Herbarium of Victoria

The most important factor influencing cryptogams on Henbury is the availability of moisture and shade. Thus, the lowest species diversity for cryptogams was on the sandy rises and floodplain areas of the several streams that run through the property. For example, the only species collected from the sandy rises were minute lignicolous fungi (e.g. *Hysterographium* sp.), growing on dead branches of *Dodonaea viscosa* subsp. *mucronata*.



Plagiochasma rupestre, a relatively common liverwort species of shaded rocky slopes, V. Stajsic © Copyright, National Herbarium of Victoria



By contrast, the ranges provided more moisture and shade in a diversity of habitats, such as deep gorges, overhangs, and crevices between boulders. These habitats yielded a wide variety of species. The majority of lichen species at Henbury Station are saxicolous (living on or among rocks), followed by terricolous (living on or in the ground), and only a small number were corticolous (living on bark).

One of the most important considerations in the management of the station for cryptogam biodiversity is fire. The considerations are: some sites are burnt too frequently or infrequently, or burnt on a massive scale. Fires over a large area tend to have a homogenising effect on ecosystems

and biodiversity, particularly on plains and less rocky sites. A program of mosaic burning to create multi-aged post-fire communities is probably the most effective practice for maximising species diversity. Several recently burnt sites were surveyed and the cryptogam diversity found to be very low. Rocky sites that have been burnt provide more shelter for cryptogams, especially if the burn is light and patchy.

Large mammals also cause considerable damage to the soil through trampling. This is particularly a threat to *Riccia* spp. that occur on flatter terrain and near streams.



Hyperphyscia pruinosa lichen, corticolous on a rotting *Ficus brachypoda* branch, V. Stajsic © Copyright, National Herbarium of Victoria





Appendix A: Species Lists

Nomenclature and taxonomic concepts used in this report are consistent with the Australian Faunal Directory, Australian Plant Name Index, Australian Plant Census, Checklist of the Lichens of Australia and its Island Territories, AusMoss, and the Catalogue of Australian Liverworts and Hornworts.

Current at March 2015



Fauna

Vertebrates

| Mammals | | |
|----------------|----------------------------------------|-----------------------------------------------|
| Family | Species | Common name |
| Bovidae | <i>Bos taurus</i> ^ | European Cattle |
| Camelidae | <i>Camelus dromedarius</i> ^ | Camel |
| Canidae | <i>Canis dingo</i> | Dingo |
| | <i>Vulpes vulpes</i> ^ | Fox, Red Fox |
| Dasyuridae | <i>Antechinomys laniger</i> ~ | Kultarr |
| | <i>Ningauai ridei</i> | Wongai Ningauai |
| | <i>Pseudantechinus macdonnellensis</i> | Fat-tailed Pseudantechinus |
| | <i>Sminthopsis crassicaudata</i> | Fat-tailed Dunnart |
| | <i>Sminthopsis macroura</i> | Stripe-faced Dunnart |
| | <i>Sminthopsis ooldea</i> | Ooldea Dunnart |
| Emballonuridae | <i>Saccolaimus flaviventris</i> | Yellow-bellied Sheathtail-bat |
| | <i>Taphozous hilli</i> | Hill's Sheathtail-bat |
| Equidae | <i>Equus asinus</i> ^ | Donkey |
| | <i>Equus caballus</i> ^ | Horse, Brumby |
| Felidae | <i>Felis catus</i> ^ | Cat |
| Leporidae | <i>Oryctolagus cuniculus</i> ^ | Rabbit |
| Macropodidae | <i>Macropus robustus</i> | Common Wallaroo |
| | <i>Macropus rufus</i> | Red Kangaroo |
| | <i>Petrogale lateralis</i> ~ # | Black-footed Rock-wallaby |
| Molossidae | <i>Austronomus australis</i> | White-striped Freetail Bat |
| | <i>Mormopterus</i> (small penis) | Southern Freetail Bat (Planiceps Small Penis) |
| | <i>Mormopterus</i> sp. 3 | Inland Freetail Bat |
| | <i>Mormopterus</i> sp. 6 | Bristle-faced Freetail Bat |
| Muridae | <i>Mus musculus</i> ^ | House Mouse |
| | <i>Notomys alexis</i> | Spinifex Hopping-mouse |
| | <i>Notomys cervinus</i> ~ | Fawn hopping-mouse |
| | <i>Pseudomys desertor</i> | Desert Mouse |
| | <i>Pseudomys hermannsburgensis</i> | Sandy Inland Mouse |

Key

- * = New record for this reserve
- ^ = Exotic/Pest
- # = EPBC Act listed
- ~ = TPWC Act listed
- † = Fisheries Act 1998 listed

Colour coding for entries:

- Black** = Previously recorded on the reserve and found on this survey
- Brown** = Putative new species
- Blue** = Previously recorded on the reserve but not found on this survey





| Mammals | | |
|------------------|-------------------------------|------------------------|
| Family | Species | Common name |
| Peramelidae | <i>Isodon auratus</i> ~ | Golden Bandicoot |
| Tachyglossidae | <i>Tachyglossus aculeatus</i> | Short-beaked Echidna |
| Vespertilionidae | <i>Chalinolobus gouldii</i> | Gould's wattled bat |
| | <i>Chalinolobus morio</i> | Chocolate Wattled Bat |
| | <i>Nyctophilus geoffroyi</i> | Lesser Long-eared Bat |
| | <i>Scotorepens balstoni</i> | Inland Broad-nosed Bat |
| | <i>Scotorepens greyii</i> | Little Broad-nosed Bat |
| | <i>Vespadelus baverstocki</i> | Inland Forest Bat |
| | <i>Vespadelus finlaysoni</i> | Finlayson's Cave Bat |



Dingoes (*Canis dingo*) are major predators of feral Cats (*Felis catus*) and Rabbits (*Oryctolagus cuniculus*) in the region, J. Archibald © Copyright, MAGNT



| Birds | | |
|----------------|------------------------------------|-----------------------------|
| Family | Species | Common name |
| Acanthizidae | <i>Acanthiza apicalis</i> | Inland Thornbill |
| | <i>Acanthiza chrysorrhoa</i> | Yellow-rumped Thornbill |
| | <i>Acanthiza robustirostris</i> | Slaty-backed Thornbill |
| | <i>Acanthiza uropygialis</i> | Chestnut-rumped Thornbill |
| | <i>Aphelocephala leucopsis</i> | Southern Whiteface |
| | <i>Aphelocephala nigricincta</i> | Banded Whiteface |
| | <i>Aphelocephala pectoralis</i> | Chestnut-breasted Whiteface |
| | <i>Gerygone fusca</i> | Western Gerygone |
| | <i>Pyrrholaemus brunneus</i> ~ | Redthroat |
| | <i>Smicrornis brevirostris</i> | Weebill |
| Accipitridae | <i>Accipiter cirrocephalus</i> * | Collared Sparrowhawk |
| | <i>Accipiter fasciatus</i> | Brown Goshawk |
| | <i>Aquila audax</i> | Wedge-tailed Eagle |
| | <i>Circus assimilis</i> | Spotted Harrier |
| | <i>Elanus axillaris</i> | Black-shouldered Kite |
| | <i>Elanus scriptus</i> ~ | Letter-winged Kite |
| | <i>Haliastur sphenurus</i> | Whistling Kite |
| | <i>Hamirostra melanosternon</i> | Black-breasted Buzzard |
| | <i>Hieraetus morphnoides</i> | Little Eagle |
| | <i>Milvus migrans</i> | Black Kite |
| | <i>Pandion cristatus</i> | Eastern Osprey |
| Acrocephalidae | <i>Acrocephalus australis</i> ~ | Australian Reed Warbler |
| Aegothelidae | <i>Aegotheles cristatus</i> | Australian Owlet-nightjar |
| Alcedinidae | <i>Todiramphus pyrrhopygius</i> | Red-backed Kingfisher |
| | <i>Todiramphus sanctus</i> | Sacred Kingfisher |
| Anatidae | <i>Anas gracilis</i> | Grey Teal |
| | <i>Anas superciliosa</i> | Pacific Black Duck |
| | <i>Aythya australis</i> | Hardhead |
| | <i>Chenonetta jubata</i> | Australian Wood Duck |
| | <i>Cygnus atratus</i> | Black Swan |
| | <i>Malacorhynchus membranaceus</i> | Pink-eared Duck |
| Anhingidae | <i>Anhinga novaehollandiae</i> | Australasian Darter |
| Ardeidae | <i>Ardea intermedia</i> | Intermediate Egret |
| | <i>Ardea modesta</i> | Eastern Great Egret |
| | <i>Ardea pacifica</i> | White-necked Heron |
| | <i>Egretta garzetta</i> | Little Egret |
| | <i>Egretta novaehollandiae</i> | White-faced Heron |
| | <i>Nycticorax caledonicus</i> | Nankeen Night-Heron |

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Black Swans (*Cygnus atratus*) taking off from Running Waters, Finke River © Copyright, P. Taylor

| Birds | | |
|---------------|------------------------------------------|----------------------------|
| Family | Species | Common name |
| Artamidae | <i>Artamus cinereus</i> | Black-faced Woodswallow |
| | <i>Artamus leucorhynchus</i> * | White-breasted Woodswallow |
| | <i>Artamus minor</i> | Little Woodswallow |
| | <i>Artamus personatus</i> | Masked Woodswallow |
| | <i>Artamus superciliosus</i> | White-browed Woodswallow |
| | <i>Cracticus nigrogularis</i> | Pied Butcherbird |
| | <i>Cracticus tibicen</i> | Australian Magpie |
| | <i>Cracticus torquatus</i> | Grey Butcherbird |
| Burhinidae | <i>Burhinus grallarius</i> ~ | Bush Stone-curlew |
| Cacatuidae | <i>Cacatua sanguinea</i> | Little Corella |
| | <i>Calyptorhynchus banksii samueli</i> ~ | Red-tailed Black Cockatoo |
| | <i>Eolophus roseicapillus</i> | Galah |
| | <i>Lophochroa leadbeateri</i> | Major Mitchell's Cockatoo |
| | <i>Nymphicus hollandicus</i> | Cockatiel |
| Campephagidae | <i>Coracina maxima</i> | Ground Cuckoo-shrike |
| | <i>Coracina novaehollandiae</i> | Black-faced Cuckoo-shrike |
| | <i>Lalage sueurii</i> | White-winged Triller |
| Caprimulgidae | <i>Eurostopus argus</i> | Spotted Nightjar |
| Casuariidae | <i>Dromaius novaehollandiae</i> ~ | Emu |



| Birds | | |
|----------------|--------------------------------|---------------------------|
| Family | Species | Common name |
| Charadriidae | <i>Charadrius ruficapillus</i> | Red-capped Plover |
| | <i>Elseyornis melanops</i> | Black-fronted Dotterel |
| | <i>Erythrogonys cinctus</i> | Red-kneed Dotterel |
| | <i>Vanellus miles</i> | Masked Lapwing |
| | <i>Vanellus tricolor</i> | Banded Lapwing |
| Climacteridae | <i>Climacteris affinis</i> | White-browed Treecreeper |
| Columbidae | <i>Geopelia cuneata</i> | Diamond Dove |
| | <i>Geophaps plumifera</i> | Spinifex Pigeon |
| | <i>Ocyphaps lophotes</i> | Crested Pigeon |
| | <i>Phaps chalcoptera</i> | Common Bronzewing |
| | <i>Phaps histrionica</i> ~ * | Flock Bronzewing |
| Corvidae | <i>Corvus bennetti</i> | Little Crow |
| | <i>Corvus coronoides</i> | Australian Raven |
| | <i>Corvus orru</i> | Torresian Crow |
| Cuculidae | <i>Cacomantis pallidus</i> | Pallid Cuckoo |
| | <i>Chrysococcyx basalis</i> | Horsfield's Bronze-cuckoo |
| | <i>Chrysococcyx osculans</i> | Black-eared Cuckoo |
| Estrildidae | <i>Emblema pictum</i> | Painted Finch |
| | <i>Taeniopygia guttata</i> | Zebra Finch |
| Eurostopodidae | <i>Eurostopodus argus</i> | Spotted Nightjar |
| Falconidae | <i>Falco berigora</i> | Brown Falcon |
| | <i>Falco cenchroides</i> | Nankeen Kestrel |
| | <i>Falco hypoleucos</i> ~ | Grey Falcon |
| | <i>Falco longipennis</i> | Australian Hobby |
| | <i>Falco peregrinus</i> | Peregrine Falcon |
| | <i>Falco subniger</i> | Black Falcon |
| Hirundinidae | <i>Cheramoeca leucosterna</i> | White-backed Swallow |
| | <i>Hirundo neoxena</i> | Welcome Swallow |
| | <i>Petrochelidon ariel</i> | Fairy Martin |
| | <i>Petrochelidon nigricans</i> | Tree Martin |
| Maluridae | <i>Amytornis purnelli</i> | Dusky Grasswren |
| | <i>Amytornis striatus</i> ~ | Striated Grasswren |
| | <i>Amytornis textilis</i> | Thick-billed Grasswren |
| | <i>Malurus lamberti</i> | Variiegated Fairy-wren |
| | <i>Malurus leucopterus</i> | White-winged Fairy-wren |
| | <i>Malurus splendens</i> | Splendid Fairy-wren |
| | <i>Stipiturus ruficeps</i> | Rufous-crowned Emu-wren |

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| Birds | | |
|-------------------|-----------------------------------|--------------------------|
| Family | Species | Common name |
| Megaluridae | <i>Cincloramphus cruralis</i> | Brown Songlark |
| | <i>Cincloramphus mathewsi</i> | Rufous Songlark |
| | <i>Eremiornis carteri</i> | Spinifexbird |
| | <i>Megalurus gramineus</i> | Little Grassbird |
| Meliphagidae | <i>Acanthagenys rufogularis</i> | Spiny-cheeked Honeyeater |
| | <i>Certhionyx variegatus</i> | Pied Honeyeater |
| | <i>Conopophila whitei</i> ~ | Grey Honeyeater |
| | <i>Epthianura aurifrons</i> | Orange Chat |
| | <i>Epthianura crocea crocea</i> | Yellow Chat |
| | <i>Epthianura tricolor</i> | Crimson Chat |
| | <i>Gavicalis virescens</i> | Singing Honeyeater |
| | <i>Lichmera indistincta</i> | Brown Honeyeater |
| | <i>Manorina flavigula</i> | Yellow-throated Miner |
| | <i>Melithreptus gularis</i> | Black-chinned Honeyeater |
| | <i>Ptilotula keartlandi</i> | Grey-headed Honeyeater |
| | <i>Ptilotula penicillata</i> | White-plumed Honeyeater |
| | <i>Ptilotula plumula</i> | Grey-fronted Honeyeater |
| | <i>Purnella albifrons</i> | White-fronted Honeyeater |
| | <i>Sugomel niger</i> | Black Honeyeater |
| Meropidae | <i>Merops ornatus</i> | Rainbow Bee-eater |
| Monarchidae | <i>Grallina cyanoleuca</i> | Magpie-lark |
| Motacillidae | <i>Anthus novaeseelandiae</i> | Australasian Pipit |
| Nectariniidae | <i>Dicaeum hirundinaceum</i> | Mistletoebird |
| Neosittidae | <i>Daphoenositta chrysoptera</i> | Varied Sittella |
| Otididae | <i>Ardeotis australis</i> ~ | Australian Bustard |
| Pachycephalidae | <i>Colluricincla harmonica</i> | Grey Shrike-thrush |
| | <i>Oreoica gutturalis</i> | Crested Bellbird |
| | <i>Pachycephala rufiventris</i> | Rufous Whistler |
| Pardalotidae | <i>Pardalotus rubricatus</i> | Red-browed Pardalote |
| | <i>Pardalotus striatus</i> | Striated Pardalote |
| Pelecanidae | <i>Pelecanus conspicillatus</i> | Australian Pelican |
| Petroicidae | <i>Melanodryas cucullata</i> | Hooded Robin |
| | <i>Microeca fascinans</i> | Jacky Winter |
| | <i>Microeca flavigaster</i> | Lemon-bellied Flycatcher |
| | <i>Petroica goodenovii</i> | Red-capped Robin |
| Phalacrocoracidae | <i>Microcarbo melanoleucos</i> | Little Pied Cormorant |
| | <i>Phalacrocorax carbo</i> | Great Cormorant |
| | <i>Phalacrocorax sulcirostris</i> | Little Black Cormorant |
| | <i>Phalacrocorax varius</i> | Pied Cormorant |
| Phasianidae | <i>Coturnix pectoralis</i> | Stubble Quail |



| Birds | | |
|-------------------|--------------------------------------|--------------------------|
| Family | Species | Common name |
| Podargidae | <i>Podargus strigoides</i> | Tawny Frogmouth |
| Podicipedidae | <i>Poliiocephalus poliocephalus</i> | Hoary-headed Grebe |
| | <i>Tachybaptus novaehollandiae</i> | Australasian Grebe |
| Pomatostomidae | <i>Pomatostomus superciliosus</i> | White-browed Babbler |
| | <i>Pomatostomus temporalis</i> | Grey-crowned Babbler |
| Psittacidae | <i>Barnardius zonarius</i> | Australian Ringneck |
| | <i>Melopsittacus undulatus</i> | Budgerigar |
| | <i>Neopsephotus bourkii</i> | Bourke's Parrot |
| | <i>Psephotus varius</i> | Mulga Parrot |
| Psophodidae | <i>Cinclosoma castanotum</i> ~ | Chestnut Quail-thrush |
| | <i>Cinclosoma cinnamomeum</i> | Cinnamon Quail-thrush |
| | <i>Psophodes occidentalis</i> | Chiming Wedgebill |
| Ptilonorhynchidae | <i>Ptilonorhynchus guttatus</i> | Western Bowerbird |
| Rallidae | <i>Fulica atra</i> | Eurasian Coot |
| | <i>Gallinula tenebrosa</i> | Dusky Moorhen |
| | <i>Porphyrio porphyrio</i> | Purple Swamphen |
| | <i>Porzana fluminea</i> ~ * | Australian Spotted Crake |
| | <i>Tribonyx ventralis</i> | Black-tailed Native-hen |
| Recurvirostridae | <i>Himantopus himantopus</i> | Black-winged Stilt |
| | <i>Recurvirostra novaehollandiae</i> | Red-necked Avocet |
| Rhipiduridae | <i>Rhipidura albiscapa</i> | Grey Fantail |
| | <i>Rhipidura leucophrys</i> | Willie Wagtail |
| Scolopacidae | <i>Actitis hypoleucos</i> | Common Sandpiper |
| | <i>Calidris acuminata</i> | Sharp-tailed Sandpiper |
| | <i>Calidris ferruginea</i> ~ | Curlew Sandpiper |
| | <i>Calidris melanotos</i> ~ | Pectoral Sandpiper |
| | <i>Calidris tenuirostris</i> ~ | Great Knot |
| | <i>Tringa glareola</i> | Wood Sandpiper |
| | <i>Tringa nebularia</i> | Common Greenshank |
| Strigidae | <i>Ninox novaeseelandiae</i> | Southern Boobook |
| Threskiornithidae | <i>Platalea flavipes</i> | Yellow-billed Spoonbill |
| | <i>Platalea regia</i> | Royal Spoonbill |
| | <i>Plegadis falcinellus</i> | Glossy Ibis |
| Turnicidae | <i>Turnix velox</i> | Little Button-quail |
| Tytonidae | <i>Tyto javanica</i> | Eastern Barn Owl |

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| Reptiles | | |
|-----------------|-------------------------------------|--------------------------------|
| Family | Species | Common name |
| Agamidae | <i>Ctenophorus caudicinctus</i> | Ring-tailed Dragon |
| | <i>Ctenophorus clayi</i> | Black-shouldered Ground-dragon |
| | <i>Ctenophorus isolepis</i> | Military Dragon |
| | <i>Ctenophorus nuchalis</i> | Central Netted Dragon |
| | <i>Ctenophorus pictus</i> | Painted Dragon |
| | <i>Diporiphora lalliae</i> | Lally's Two-line Dragon |
| | <i>Lophognathus longirostris</i> | Long-nosed Water Dragon |
| | <i>Moloch horridus</i> | Thorny Devil |
| | <i>Pogona minor</i> | Dwarf Bearded Dragon |
| | <i>Pogona vitticeps</i> | Central Bearded Dragon |
| | <i>Tympanocryptis centralis</i> | Centralian Earless Dragon |
| | <i>Tympanocryptis intima</i> | Gibber Earless Dragon |
| | <i>Tympanocryptis lineata</i> | Lined Earless Dragon |
| Diplodactylidae | <i>Crenadactylus ocellatus</i> | Clawless Gecko |
| | <i>Diplodactylus conspicillatus</i> | Fat-tailed Gecko |
| | <i>Lucasium stenodactylum</i> | Crowned Gecko |
| | <i>Oedura marmorata</i> | Marbled Velvet Gecko |
| | <i>Rhynchoedura ornata</i> | Western Beaked Gecko |
| | <i>Strophurus ciliaris</i> | Northern Spiny-tailed Gecko |
| Elapidae | <i>Brachyuropsis incinctus</i> | Unbanded Shovel-nosed Snake |
| | <i>Demansia psammophis</i> * | Yellow-faced Whip snake |
| | <i>Furina ornata</i> * | Moon Snake |
| | <i>Pseudechis australis</i> ~ | Mulga Snake |
| | <i>Pseudonaja mengdeni</i> | Western Brown Snake |
| | <i>Pseudonaja modesta</i> | Ringed Brown Snake |
| | <i>Pseudonaja nuchalis</i> | Northern Brown Snake |
| | <i>Suta suta</i> | Curl Snake |
| Gekkonidae | <i>Gehyra montium</i> | Centralian Dtella |
| | <i>Gehyra purpurascens</i> | Purplish Dtella |
| | <i>Gehyra variegata</i> | Tree Dtella |
| | <i>Heteronotia binoei</i> | Bynoe's Gecko |
| | <i>Heteronotia planiceps</i> | Bynoe's Prickly Gecko |
| | <i>Nephrurus levis</i> | Three-lined Knob-tailed Gecko |
| Pygopodidae | <i>Delma borea</i> | Rusty-topped Delma |
| | <i>Delma butleri</i> | Unbanded Delma |
| | <i>Delma desmosa</i> ~ | Banded Delma |
| | <i>Delma nasuta</i> | Sharp-snouted Delma |
| | <i>Delma tincta</i> | Black-snecked Snake-lizard |
| | <i>Lialis burtonis</i> | Burton's Legless Lizard |
| | <i>Pygopus nigriceps</i> | Western Hooded Scaly-foot |



Reptiles

| Family | Species | Common name |
|------------------------------|---------------------------------------|------------------------------|
| Pythonidae | <i>Antaresia stimsoni</i> | Stimson's Python |
| | <i>Aspidites ramsayi</i> * | Woma |
| | <i>Morelia bredli</i> | Centralian Carpet Python |
| Scincidae | <i>Carlia triacantha</i> | Desert Rainbow-skink |
| | <i>Cryptoblepharus australis</i> | Inland Snake-eyed Skink |
| | <i>Cryptoblepharus plagiocephalus</i> | Péron's Snake-eyed Skink |
| | <i>Ctenotus alacer</i> | Lively Ctenotus |
| | <i>Ctenotus brooksi</i> | Brook's Ctenotus |
| | <i>Ctenotus calurus</i> | Blue-tailed Ctenotus |
| | <i>Ctenotus dux</i> | Chief Ctenotus |
| | <i>Ctenotus helenae</i> | Helen's Ctenotus |
| | <i>Ctenotus inornatus</i> | Rock Ctenotus |
| | <i>Ctenotus leae</i> * | Lea's Ctenotus |
| | <i>Ctenotus leonhardii</i> | Leonhardi's Ctenotus |
| | <i>Ctenotus nasutus</i> | Long-snouted Ctenotus |
| | <i>Ctenotus pantherinus</i> | Leopard Ctenotus |
| | <i>Ctenotus piankai</i> | Pianka's Ctenotus |
| | <i>Ctenotus quattuordecimlineatus</i> | Fourteen-Lined Ctenotus |
| | <i>Ctenotus regius</i> | Pale-rumped Ctenotus |
| | <i>Ctenotus schomburgkii</i> | Schomburk's Ctenotus |
| | <i>Ctenotus septenarius</i> | Seven-lined Ctenotus |
| | <i>Ctenotus strauchii</i> | Strauch's Ctenotus |
| | <i>Cyclodomorphus melanops</i> * | Slender Blue-tongued Lizard |
| | <i>Eremiascincus fasciolatus</i> | Narrow-banded Sand Swimmer |
| | <i>Eremiascincus richardsonii</i> | Broad-banded Sand-swimmer |
| | <i>Lerista bipes</i> | Two-toed Lerista |
| | <i>Lerista desertorum</i> | Desert Lerista |
| | <i>Lerista frosti</i> | Frost's Lerista |
| | <i>Lerista labialis</i> | Sand Lerista |
| | <i>Liopholis inornata</i> | Desert Egernia |
| | <i>Liopholis margaretae</i> | Rock Egernia |
| | <i>Liopholis slateri slateri</i> # ~ | Slater's Egernia |
| | <i>Menetia greyii</i> | Grey's Menetia |
| | <i>Morethia boulengeri</i> | Boulenger's Snake-eyed Skink |
| <i>Morethia ruficauda</i> | Red-tailed Snake-eyed Skink | |
| <i>Proablepharus reginae</i> | Spinifex Snaked-eyed Skink | |

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Sharp-snouted Delma (*Delma nasuta*) © Copyright, D. Trembath

| Reptiles | | |
|-------------|-------------------------------|---------------------------|
| Family | Species | Common name |
| Typhlopidae | <i>Anilius bituberculatus</i> | Prong-snouted Blind Snake |
| | <i>Anilius centralis</i> ~ | Centralian Blind Snake |
| | <i>Anilius endoterus</i> | Interior Blind Snake |
| Varanidae | <i>Varanus eremius</i> | Rusty Desert Monitor |
| | <i>Varanus giganteus</i> | Perentie |
| | <i>Varanus gilleni</i> | Pygmy Mulga Monitor |
| | <i>Varanus gouldii</i> | Sand Goanna |
| | <i>Varanus tristis</i> * | Freckled Monitor |



Finke River waterholes and wetlands support a wide range of species © Copyright, R. Whyte

Frogs and Toads

| Family | Species | Common name |
|----------------|-------------------------------|------------------------------------------|
| Hylidae | <i>Cyclorana maini</i> | Main's Frog |
| | <i>Litoria gilleni</i> | Centralian Tree Frog |
| | <i>Litoria rubella</i> | Desert Tree Frog, Red Tree Frog |
| Myobatrachidae | <i>Neobatrachus sudellae</i> | Trilling Frog, Sudell's Frog |
| | <i>Neobatrachus sutor</i> | Shoemaker Frog |
| | <i>Platyplectrum spenceri</i> | Spencer's Burrowing Frog, Spencer's Frog |



Trilling Frog (*Neobatrachus sudellae*), named for their short high-pitched trill © Copyright, D. Trembath

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| Fishes | | |
|--------------------------------------------------------|------------------------------------|-------------------------------|
| Family | Species | Common name |
| Petarme language names are included where known | | |
| Ambassidae | <i>Ambassis</i> sp. | Northern Glassfish |
| Atherinidae | <i>Craterocephalus centralis</i> † | Finke Hardyhead |
| Clupeidae | <i>Nematalosa erebi</i> | Bony Bream, Ntepirtna |
| Eleotridae | <i>Mogurnda larapintae</i> † | Desert Mogurnda |
| Gobiidae | <i>Chlamydogobius japaipa</i> † | Finke Goby |
| Melanoaeniidae | <i>Melanoaenia splendida tatei</i> | Desert Rainbowfish |
| Plotosidae | <i>Neosilurus hyrtlii</i> | Hyrtl's Catfish |
| Terapontidae | <i>Amniataba percoides</i> | Barred Grunter, Intama-intama |
| | <i>Leiopotherapon unicolor</i> | Spangled Perch, Lhungalpura |



Spangled Perch (*Leiopotherapon unicolor*) are an important food species for Traditional Owners, M. Hammer © Copyright, MAGNT



Invertebrates

| Bees | |
|------------|--------------------------------------------|
| Family | Species |
| Apidae | Amegilla (Asaropoda) n. sp. HSKR * |
| | <i>Amegilla chlorocyanea</i> * |
| | <i>Amegilla murrayensis</i> * |
| | <i>Apis mellifera</i> ^ * |
| | <i>Braunsapis dolichocephala</i> * |
| | <i>Exoneurella eremophila</i> * |
| | <i>Thyreus waroonensis</i> * |
| Colletidae | <i>Euhesma</i> sp. HSKR1 * |
| | <i>Euhesma sturtiensis</i> |
| | <i>Euhesma sybilae</i> |
| | <i>Goniocolletes perfasciatus</i> |
| | <i>Hylaeus (Prosopisteron)</i> sp. HSKR1 * |
| | <i>Hylaeus (Prosopisteron)</i> sp. HSKR2 * |
| | <i>Hylaeus (Pseudhylaeus)</i> sp. HSKR1 * |
| | <i>Hylaeus (Pseudhylaeus)</i> sp. HSKR2 * |
| | <i>Hylaeus (Pseudhylaeus)</i> sp. HSKR3 * |
| | <i>Hylaeus (Pseudhylaeus)</i> sp. HSKR4 * |
| | <i>Hylaeus (Pseudhylaeus)</i> sp. HSKR5 * |
| | <i>Leioproctus cardaleae</i> |
| | <i>Leioproctus cupreus</i> |
| | <i>Leioproctus finkei</i> |
| | <i>Leioproctus lucanus</i> * |
| | <i>Leioproctus xanthozoster</i> |

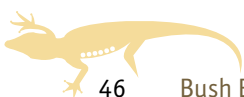
| Bees | |
|-----------------------------------|-----------------------------------|
| Family | Species |
| Halictidae | <i>Ceylalictus perditellus</i> |
| | <i>Homalictus blackburni</i> * |
| | <i>Homalictus dotatus</i> |
| | <i>Homalictus urbanus</i> |
| | <i>Lasioglossum adustum</i> |
| | <i>Lasioglossum albopilosum</i> * |
| | <i>Lasioglossum brochum</i> |
| | <i>Lasioglossum chapmani</i> |
| | <i>Lasioglossum cognatum</i> |
| | <i>Lasioglossum ebeneum</i> |
| | <i>Lasioglossum eremaeae</i> |
| | <i>Lasioglossum erythrurum</i> |
| | <i>Lasioglossum greavesi</i> |
| | <i>Lasioglossum immaculatum</i> |
| | <i>Lasioglossum mundulum</i> |
| | <i>Lasioglossum ochroma</i> |
| <i>Lasioglossum platytilum</i> * | |
| <i>Lasioglossum plebeium</i> | |
| <i>Lasioglossum sororculum</i> | |
| <i>Lasioglossum vitripenne</i> | |
| <i>Lipotriches flavoviridis</i> * | |
| Megachilidae | <i>Megachile apicata</i> |
| | <i>Megachile aurifrons</i> |
| | <i>Megachile barvonensis</i> |
| | <i>Megachile callura</i> |
| | <i>Megachile nigrovittata</i> |
| | Megachile obtusa |
| <i>Megachile tosticauda</i> | |

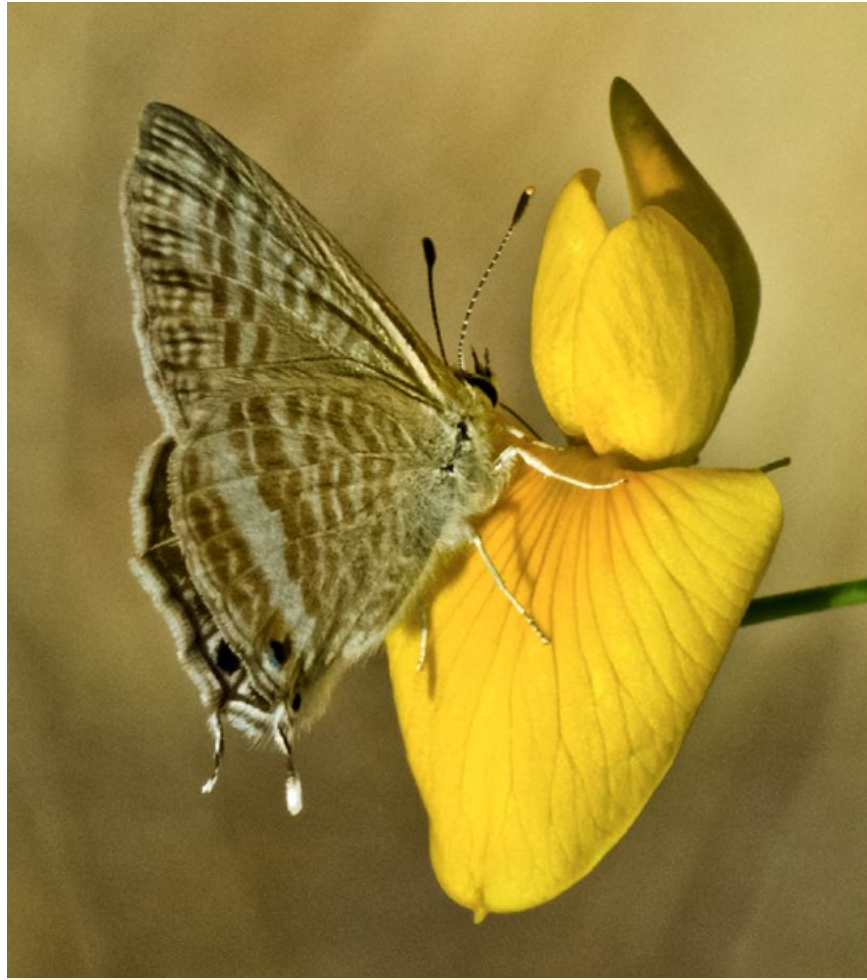
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Long-tailed Pea-blue (*Lampides boeticus*) © Copyright, R. Whyte

| Butterflies | |
|-------------|-------------------------------------|
| Family | Species |
| Hesperiidae | <i>Croitana arenaria</i> ~ * |
| Lycaenidae | <i>Famegana alsulus</i> * |
| | <i>Lampides boeticus</i> * |
| | <i>Nacaduba biocellata</i> * |
| | <i>Ogyris amaryllis</i> * |
| | <i>Theclinessthes miskini</i> * |
| | <i>Theclinessthes serpentatus</i> * |
| | <i>Zizina otis</i> * |
| Nymphalidae | <i>Danaus petilia</i> * |
| | <i>Danaus plexippus</i> ~ * |
| | <i>Junonia villida</i> * |
| | <i>Vanessa itea</i> * |
| | <i>Vanessa kershawi</i> * |
| Pieridae | <i>Belenois java</i> * |
| | <i>Eurema smilax</i> * |

| Moths | |
|-----------|-------------------------|
| Family | Species |
| Noctuidae | <i>Comocrus behri</i> * |

| Beetles | |
|------------|-------------------------------|
| Family | Species |
| Carabidae | <i>Calosoma schayeri</i> |
| | <i>Megacephala australis</i> |
| Dytiscidae | <i>Allodessus bistrigatus</i> |
| | <i>Eretes australis</i> |



| True Bugs | |
|----------------------------------------|--------------------------------------------------|
| Family | Species |
| Alydidae | <i>Melanacanthus margineguttatus</i> |
| Coreidae | <i>Mictis profana</i> ^ |
| Geocoridae | <i>Germalus</i> sp. BBHS13/Msp020 * |
| Gerridae | <i>Limnogonus fossarum</i> |
| Hydrometridae | <i>Hydrometra strigosa</i> |
| Lygaeidae | <i>Crompus opacus</i> * |
| | <i>Eurynysius</i> sp. BBHS13/Msp010 * |
| | <i>Melanerythrus mactans</i> * |
| | <i>Nysius vinitor</i> ^ * |
| Miridae | <i>Ausejanus</i> sp. BBHS13/Msp021 * |
| | Austromiris n. sp. 001 BBHS13/Msp019 * |
| | <i>Austromiris</i> sp. BBHS13/Msp018 * |
| | Carenotus n. sp. BBHS13/sp013 * |
| | <i>Coridromius chenopoderis</i> * |
| | <i>Creontiades dilutus</i> ^ |
| | <i>Mirini</i> sp. 01 BBHS13/Msp012 * |
| | Myrmecoridae n. sp. BBHS13/Msp008 * |
| | Orthotylini gp. 02 n. sp. BBHS13/Msp062 * |
| | Orthotylini gp. 04 n. sp. BBHS13/Msp064 * |
| | <i>Orthotylini</i> gp. 04 sp. 26 BBHS13/Msp057 * |
| | <i>Orthotylini</i> gp. 26 sp. 02 BBHS13/Msp061 * |
| | <i>Orthotylini</i> gp. 26 sp. 04 BBHS13/Msp063 * |
| | <i>Orthotylini</i> gp. 34 sp. ? BBHS13/Msp059 * |
| | <i>Orthotylini</i> gp. 38 sp. 05 BBHS13/Msp058 * |
| | <i>Phylinae</i> sp. 01 BBHS13/Msp029 * |
| | <i>Phylinae</i> sp. 02 BBHS13/Msp030 * |
| | <i>Phylinae</i> sp. 03 BBHS13/Msp031 * |
| | <i>Phylinae</i> sp. 04 BBHS13/Msp032 * |
| | <i>Phylinae</i> sp. 05 BBHS13/Msp033 * |
| <i>Phylinae</i> sp. 06 BBHS13/Msp034 * | |

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| True Bugs | | |
|---------------------------------------|--------------------------------------------|---------------------------------|
| Family | Species | |
| Miridae | <i>Phylinae</i> sp. 07 BBHS13/Msp035 * | |
| | <i>Phylinae</i> sp. 08 BBHS13/Msp036 * | |
| | <i>Phylinae</i> sp. 09 BBHS13/Msp037 * | |
| | <i>Phylinae</i> sp. 10 BBHS13/Msp038 * | |
| | <i>Phylinae</i> sp. 11 BBHS13/Msp039 * | |
| | <i>Phylinae</i> sp. 12 BBHS13/Msp040 * | |
| | <i>Phylinae</i> sp. 13 BBHS13/Msp041 * | |
| | <i>Phylinae</i> sp. 14 BBHS13/Msp042 * | |
| | <i>Phylinae</i> sp. 15 BBHS13/Msp043 * | |
| | <i>Phylinae</i> sp. 16 BBHS13/Msp044 * | |
| | <i>Phylinae</i> sp. 17 BBHS13/Msp045 * | |
| | <i>Phylinae</i> sp. 18 BBHS13/Msp046 * | |
| | <i>Phylinae</i> sp. 19 BBHS13/Msp047 * | |
| | <i>Phylinae</i> sp. 20 BBHS13/Msp048 * | |
| | <i>Phylinae</i> sp. 21 BBHS13/Msp049 * | |
| | <i>Phylinae</i> sp. 22 BBHS13/Msp050 * | |
| | <i>Phylinae</i> sp. 23 BBHS13/Msp051 * | |
| | <i>Phylinae</i> sp. 24 BBHS13/Msp052 * | |
| | <i>Phylinae</i> sp. 25 BBHS13/Msp053 * | |
| | <i>Phylinae</i> sp. 26 BBHS13/Msp054 * | |
| | <i>Phylinae</i> sp. 27 BBHS13/Msp055 * | |
| | <i>Phylinae</i> sp. 28 BBHS13/Msp056 * | |
| | <i>Taylorilygus apicalis</i> * | |
| | <i>Witchelinamiris</i> sp. BBHS13/Msp060 * | |
| | Pachygronthidae | <i>Stenophyella macreta</i> |
| | Pentatomidae | <i>Cephaloplatus granulatus</i> |
| | | <i>Eysarcoris fuscus</i> * |
| | | <i>Kapunda trougtoni</i> ^ |
| <i>Menida personata</i> | | |
| <i>Minchamia hubbardae</i> * | | |
| <i>Neagenor spinosus</i> | | |
| nr. <i>Tholosanus</i> BBHS13/Msp009 * | | |
| <i>Ocirrhoe</i> sp. BBHS13/Msp003 * | | |
| <i>Oechalia schellenbergii</i> * | | |
| <i>Oncocoris desertus</i> | | |
| <i>Poecilometis fuscescens</i> | | |
| <i>Poecilometis spenceri</i> | | |





| True Bugs | |
|------------------|---------------------------------------|
| Family | Species |
| Reduviidae | Reduviidae sp. BBHS13/Msp002 * |
| Rhopalidae | <i>Leptocoris mitellatus</i> |
| | <i>Leptocoris</i> sp. BBHS13/Msp011 * |
| | <i>Leptocoris tagalicus</i> |
| Rhyparochromidae | <i>Dieuches nudus</i> |
| | <i>Plinthisus</i> sp. BBHS13/Msp022 * |
| | <i>Udeocoris scudderi</i> |
| Scutelleridae | <i>Coleotichus costatus</i> |
| Tingidae | <i>Agramma</i> sp. BBHS13/Msp023 * |
| | <i>Inoma</i> sp. BBHS13/Msp025 * |
| | <i>Lasiacantha aureolus</i> * |
| | <i>Lasiacantha inaquosa</i> * |
| | <i>Lasiacantha luritja</i> * |
| | <i>Nethersia tomentosa</i> * |
| | <i>Urentius sarinae</i> * |
| Veliidae | <i>Microvelia oceanica</i> |
| | <i>Microvelia peramoena</i> |

| Thrips | |
|-----------------|---------------------------------|
| Family | Species |
| Phlaeothripidae | <i>Csirothrips watsoni</i> * |
| | <i>Kladothrips antennatus</i> * |
| | <i>Kladothrips arotrum</i> * |
| | <i>Kladothrips tepperi</i> * |

| Damselflies and Dragonflies | |
|-----------------------------|------------------------------------|
| Family | Species |
| Aeshnidae | <i>Anax papuensis</i> |
| Coenagrionidae | <i>Ischnura aurora</i> * |
| | <i>Ischnura heterosticta</i> |
| | <i>Xanthagrion erythroneurum</i> * |
| Corduliidae | <i>Hemicordulia tau</i> * |
| Libellulidae | <i>Crocothemis nigrifrons</i> |
| | <i>Diplacodes bipunctata</i> |
| | <i>Diplacodes haematodes</i> |
| | <i>Orthetrum caledonicum</i> |
| | <i>Tremea loewii</i> * |

| Symphylans | |
|------------------|----------------|
| Family | Species |
| [Order Symphyla] | Symphyla sp. * |

| Millipedes | |
|-------------------|---------------------------------------------|
| Family | Species |
| Paradoxosomatidae | Paradoxosomatidae sp. * |
| Polyxenidae | <i>Unixenus</i> sp. (<i>attemsi</i> ?) * |
| | <i>Unixenus</i> sp. (<i>mjoebergi</i> ?) * |
| Synxenidae | <i>Phryssonotus novaehollandiae</i> * |



The Giant Centipede (*Ethmostigmus rubripes*) is the largest centipede in Australia and Asia, growing up to 16 cm © Copyright, R. Whyte

| Centipedes | |
|-----------------|----------------------------------|
| Family | Species |
| Chilenophilidae | <i>Geomerinus</i> sp. * |
| Cryptopidae | <i>Cryptops</i> sp. 01 * |
| | <i>Cryptops</i> sp. 02 * |
| Geophilidae | <i>Geophilus</i> sp. * |
| Scolopendridae | <i>Ethmostigmus rubripes</i> * |
| | <i>Scolopendra laeta</i> * |
| | <i>Scolopendra morsitans</i> * |
| Scutigerae | <i>Pilbarascutigera incola</i> * |



| Mites | |
|--------------|--------------------|
| Family | Species |
| Trombidiidae | Trombidiidae sp. * |

| Scorpions | |
|------------|--------------------------------------|
| Family | Species |
| Buthidae | <i>Lychas</i> sp. * |
| | <i>Lychas</i> sp. 'adonis' * |
| Urodacidae | <i>Urodacus</i> 'armatus' group * |
| | <i>Urodacus</i> sp. * |
| | <i>Urodacus</i> 'yaschenkoi' group * |

| Pseudoscorpions | |
|-----------------|-----------------------------------|
| Family | Species |
| Garypidae | <i>Synsphyronus</i> sp. 'Hen A' * |
| | <i>Synsphyronus</i> sp. 'Hen B' * |
| Geogarypidae | <i>Geogarypus</i> n. sp. * |
| Olpiidae | <i>Austrohorus</i> sp. * |
| | <i>Beierolpium</i> sp. * |
| | <i>Euryolpium</i> sp. * |
| | <i>Indolpium</i> sp. * |
| Sternophoridae | <i>Afrosterophorus</i> sp. * |



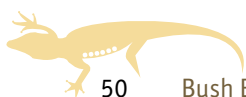
Two unidentified species of *Synsphyronus* pseudoscorpion were found at Henbury © Copyright, R. Whyte

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The Australian Golden Orb-weaving Spider (*Nephila edulis*) is found throughout Australia as well as parts of New Zealand, New Guinea and New Caledonia
© Copyright, R. Whyte

| Spiders | |
|-------------------------------|--------------------------------------------|
| Family | Species |
| Araneidae | <i>Argiope protensa</i> * |
| | <i>Backobourkia</i> sp. * |
| Barychelidae | <i>Idiommata n. sp.</i> * |
| Clubionidae | <i>Clubiona</i> indet. sp. * |
| Ctenizidae | <i>Conothele n. sp.</i> * |
| Desidae | <i>Badumna insignis</i> * |
| | Desidae gen. A sp. 01 * |
| | <i>Forsterina</i> indet. sp. * |
| Dipluridae | <i>Cethegus n. sp.</i> * |
| Filistatidae | <i>Wandella centralis</i> * |
| Gnaphosidae | Gnaphosidae gen. A sp. 01 * |
| Hersiliidae | <i>Tamopsis</i> indet. sp. * |
| Idiopidae | <i>Aganippe</i> nr sp. <i>simpsoni</i> * |
| Lamponidae | <i>Asadipus kunderang</i> * |
| | <i>Bigenditia millawa</i> * |
| Lycosidae | <i>Dingosa simsoni</i> * |
| | <i>Hoggicosa</i> sp. (<i>bicolor</i> ?) * |
| | <i>Knoelle clara</i> |
| | <i>Lycosa laeta</i> |
| | <i>Lycosa tula</i> |
| | Lycosidae gen. A indet. sp. * |
| | Lycosidae gen. A sp. 01 * |
| Lycosidae gen. B indet. sp. * | |
| Miturgidae | Miturgidae gen. A sp. 01 * |
| | Miturgidae gen. A sp. 02 * |

| Spiders | |
|-----------------|---------------------------------------------|
| Family | Species |
| Nemesiidae | <i>Aname</i> indet. sp. * |
| | <i>Aname</i> sp. * |
| Nephilidae | <i>Nephila edulis</i> * |
| Oonopidae | <i>Opopaea</i> sp. * |
| Oxyopidae | <i>Oxyopes</i> sp. * |
| Pholcidae | <i>Crossopriza lyoni</i> ^ * |
| | Pholcidae unid. genus * |
| | <i>Trichocyclus arabana</i> * |
| Prodidomidae | Molycriinae indet. gen. * |
| | <i>Prodidomus</i> indet. sp. * |
| Salticidae | <i>Damoetas</i> sp. * |
| | Salticidae sp. * |
| Segestriidae | Segestriidae gen A. sp. 01 * |
| Selenopidae | Selenopidae sp. (Karaops?) * |
| Sparassidae | <i>Isopedella inola</i> |
| | <i>Neosparassus</i> sp. * |
| Tetragnathidae | <i>Nanometa</i> sp. * |
| | <i>Tetragnatha</i> sp. * |
| Theraphosidae | <i>Selenocosmia</i> sp. * |
| Theridiidae | <i>Latrodectus hasseltii</i> * |
| Trochanteriidae | <i>Morebilus</i> sp. * |
| | Trochanteriidae sp. (<i>Morebilus</i> ?) * |
| | Trochanteriidae sp. (<i>Pyrnus</i> ?) * |
| Uloboridae | <i>Uloborus</i> sp. * |
| Zodariidae | <i>Habronestes</i> sp. * |
| | <i>Storena</i> indet. sp. * |

| Stygofauna | |
|---------------------|-------------------|
| Family | Species |
| [Class Oligochaeta] | Oligochaeta sp. * |
| [Class Ostracoda] | Ostracoda sp. * |
| [Order Cyclopoida] | Cyclopoida sp. * |



| Crustaceans | |
|----------------------|-------------------------------------|
| Family | Species |
| [Class Branchiopoda] | Branchiopoda sp. * |
| [Order Anostraca] | Anostraca sp. * |
| [Order Anostraca] | Anostraca sp. * |
| Palaemonidae | <i>Macrobrachium australiense</i> * |
| Parastacidae | <i>Cherax destructor</i> |
| Triopsidae | <i>Triops australiensis</i> * |

| Snails—Aquatic | |
|----------------|---------------------------------------|
| Family | Species |
| Lymnaeidae | <i>Austropeplea lessoni</i> * |
| | <i>Glyptophysa</i> sp. * |
| | <i>Gyraulus</i> cf. <i>hesperus</i> * |
| | <i>Isidorella newcombi</i> * |
| Thiaridae | <i>Plotiopsis balonnensis</i> * |

| Snails—Terrestrial | |
|--------------------|------------------------------------------|
| Family | Species |
| Camaenidae | <i>Basedowena squamulosa</i> ~ * |
| | <i>Granulomelon grandituberculatum</i> * |
| | <i>Pleuroxia adcockiana</i> |
| | <i>Semotrachia esau</i> |
| | <i>Semotrachia hughana</i> |
| | <i>Sinumelon expositum</i> |
| Pupillidae | <i>Gastrocopta margaretae</i> |
| | <i>Gastrocopta mussoni</i> |
| | <i>Pupoides beltianus</i> |
| | <i>Pupoides eremicolus</i> * |
| | <i>Pupoides ischnus</i> |
| Subulinidae | <i>Erelopeas interioris</i> |
| Succineidae | <i>Succinea interioris</i> * |



Sinumelon expositum is endemic to Finke River Basin and the MacDonnell, James and Krichauff Ranges. Its discovery on Henbury Station represents a range extension © Copyright, R. Whyte

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Flora



Henbury Station contains an important collection of arid land ecosystems, including sand dunes © Copyright, P. Taylor

| Flowering Plants | |
|------------------|-----------------------------------------------------------------|
| Family | Species |
| Acanthaceae | <i>Dipteracanthus australasicus</i> subsp. <i>australasicus</i> |
| | <i>Harnieria kempeana</i> subsp. <i>kempeana</i> |
| | <i>Rostellularia adscendens</i> var. <i>adscendens</i> * |
| Aizoaceae | <i>Gunniopsis septifraga</i> |
| | <i>Gunniopsis zygophylloides</i> |
| | <i>Tetragonia eremaea</i> |
| | <i>Trianthema triquetrum</i> |
| | <i>Zaleya galericulata</i> subsp. <i>galericulata</i> |

| Flowering Plants | |
|------------------|---------------------------------------------------------|
| Family | Species |
| Amaranthaceae | <i>Alternanthera angustifolia</i> |
| | <i>Alternanthera denticulata</i> |
| | <i>Alternanthera nana</i> * |
| | <i>Alternanthera nodiflora</i> |
| | <i>Amaranthus cuspidifolius</i> |
| | <i>Amaranthus grandiflorus</i> |
| | <i>Amaranthus interruptus</i> |
| | <i>Amaranthus macrocarpus</i> var. <i>macrocarpus</i> ~ |
| | <i>Amaranthus mitchellii</i> |
| | <i>Gomphrena cunninghamii</i> |
| | <i>Ptilotus clementii</i> |



| Flowering Plants | |
|------------------|---------------------------------------------------------------------|
| Family | Species |
| Amaranthaceae | <i>Ptilotus decipiens</i> |
| | <i>Ptilotus gaudichaudii</i> |
| | <i>Ptilotus helipteroides</i> |
| | <i>Ptilotus latifolius</i> |
| | <i>Ptilotus macrocephalus</i> |
| | <i>Ptilotus nobilis</i> subsp. <i>nobilis</i> |
| | <i>Ptilotus obovatus</i> var. <i>obovatus</i> |
| | <i>Ptilotus polystachyus</i> |
| | <i>Ptilotus schwartzii</i> |
| | <i>Ptilotus sessilifolius</i> |
| | <i>Ptilotus whitei</i> |
| Apiaceae | <i>Daucus glochidiatus</i> var. <i>Alluvium</i> (D.E.Albrecht 8771) |
| | <i>Daucus glochidiatus</i> var. <i>Clay edge</i> (P.K.Latz 16656) |
| Apocynaceae | <i>Marsdenia australis</i> |
| | <i>Rhyncharrhena linearis</i> |
| | <i>Sarcostemma viminale</i> subsp. <i>australe</i> |
| Araliaceae | <i>Hydrocotyle trachycarpa</i> |
| | <i>Trachymene glaucifolia</i> |
| Arecaceae | <i>Livistona mariae</i> # ~ |
| Asparagaceae | <i>Corynotheca licrota</i> |
| | <i>Lomandra patens</i> ~ |
| | <i>Thysanotus exiliflorus</i> |
| Asphodelaceae | <i>Bulbine alata</i> |
| Aspleniaceae | <i>Pleurosorus rutifolius</i> * |
| Asteraceae | <i>Anemocarpa saxatilis</i> |
| | <i>Bidens bipinnata</i> ^ |
| | <i>Brachyscome blackii</i> |
| | <i>Brachyscome ciliaris</i> var. <i>ciliaris</i> |
| | <i>Brachyscome tesquorum</i> |
| | <i>Calocephalus platycephalus</i> |
| | <i>Calotis cymbacantha</i> |
| | <i>Calotis erinacea</i> |
| | <i>Calotis hispidula</i> |
| | <i>Calotis kempei</i> |

| Flowering Plants | |
|-------------------------------|------------------------------------------------------------|
| Family | Species |
| Asteraceae | <i>Calotis latiuscula</i> |
| | <i>Calotis plumulifera</i> |
| | <i>Carthamus lanatus</i> ^ |
| | <i>Centipeda crateriformis</i> |
| | <i>Centipeda crateriformis</i> subsp. <i>crateriformis</i> |
| | <i>Centipeda minima</i> subsp. <i>macrocephala</i> |
| | <i>Centipeda pleiocephala</i> |
| | <i>Centipeda thespidioides</i> |
| | <i>Chrysocephalum apiculatum</i> |
| | <i>Chrysocephalum eremaum</i> |
| | <i>Chrysocephalum pterochaetum</i> |
| | <i>Conyza bonariensis</i> ^ |
| | <i>Cratystylis centralis</i> ~ |
| | <i>Cremnothamnus thomsonii</i> * |
| | <i>Dichromochlamys dentatifolia</i> |
| | <i>Gnephosis arachnoidea</i> |
| | <i>Gnephosis eriocarpa</i> |
| | <i>Helichrysum luteoalbum</i> |
| | <i>Ixiochlamys cuneifolia</i> |
| | <i>Ixiochlamys filicifolia</i> |
| | <i>Ixiochlamys nana</i> |
| | <i>Lactuca serriola</i> ^ |
| | <i>Lawrencella davenportii</i> |
| | <i>Leiocarpa leptolepis</i> |
| | <i>Leiocarpa semicalva</i> subsp. <i>semicalva</i> |
| | <i>Leiocarpa websteri</i> |
| | <i>Leucochrysum fitzgibbonii</i> |
| | <i>Leucochrysum stipitatum</i> |
| | <i>Minuria cunninghamii</i> |
| | <i>Minuria integerrima</i> |
| <i>Minuria leptophylla</i> | |
| <i>Minuria tridens</i> # ~ | |
| <i>Myriocephalus rudallii</i> | |
| <i>Olearia ferresii</i> | |

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| Flowering Plants | |
|------------------------------------------------|--------------------------------------------------------------|
| Family | Species |
| Asteraceae | <i>Olearia stuartii</i> |
| | <i>Olearia subspicata</i> |
| | <i>Ozothamnus kempei</i> |
| | <i>Pluchea dentex</i> * |
| | <i>Pluchea dunlopilii</i> |
| | <i>Pluchea rubelliflora</i> |
| | <i>Podolepis aristata</i> subsp. <i>auriculata</i> |
| | <i>Podolepis capillaris</i> |
| | <i>Podolepis eremaea</i> |
| | <i>Polycalymma stuartii</i> |
| | <i>Pterocaulon sphacelatum</i> |
| | <i>Rhodanthe charsleyae</i> |
| | <i>Rhodanthe floribunda</i> |
| | <i>Rhodanthe microglossa</i> |
| | <i>Rhodanthe moschata</i> |
| | <i>Rhodanthe tietkensis</i> |
| | <i>Rutidosia helichrysoides</i> subsp. <i>helichrysoides</i> |
| | <i>Schoenia ayersii</i> |
| | <i>Schoenia cassiniana</i> |
| | <i>Senecio gregorii</i> |
| | <i>Senecio magnificus</i> |
| | <i>Sonchus hydrophilus</i> ~ |
| | <i>Sonchus oleraceus</i> ^ |
| | <i>Sphaeromorphaea australis</i> |
| | <i>Streptoglossa adscendens</i> |
| | <i>Streptoglossa bubakii</i> |
| | <i>Streptoglossa decurrens</i> |
| <i>Streptoglossa liatroides</i> | |
| <i>Vittadinia arida</i> | |
| <i>Vittadinia dissecta</i> var. <i>hirta</i> * | |
| <i>Vittadinia eremaea</i> | |
| <i>Vittadinia sulcata</i> | |
| <i>Waitzia acuminata</i> var. <i>acuminata</i> | |
| <i>Xerochrysum bracteatum</i> | |
| Bignoniaceae | <i>Pandorea doratoxylon</i> |

| Flowering Plants | | |
|-------------------------------------|-----------------------------------------------------------------|-------------------------------|
| Family | Species | |
| Boraginaceae | <i>Halgania cyanea</i> var. <i>Allambi Stn</i> (B.W.Strong 676) | |
| | <i>Halgania erecta</i> | |
| | <i>Halgania solanacea</i> | |
| | <i>Heliotropium ammophilum</i> | |
| | <i>Heliotropium asperrimum</i> | |
| | <i>Heliotropium cunninghamii</i> | |
| | <i>Heliotropium curassavicum</i> | |
| | <i>Heliotropium inexplicitum</i> ~ | |
| | <i>Heliotropium moorei</i> | |
| | <i>Heliotropium pleiopterum</i> | |
| | <i>Heliotropium supinum</i> ^ | |
| | <i>Heliotropium tanythrix</i> | |
| | <i>Heliotropium tenuifolium</i> | |
| | <i>Trichodesma zeylanicum</i> var. <i>zeylanicum</i> | |
| | Brassicaceae | <i>Arabidella glaucescens</i> |
| | | <i>Arabidella trisecta</i> |
| | | <i>Blennodia canescens</i> |
| <i>Brassica tournefortii</i> ^ | | |
| <i>Harmsiodoxa brevipes</i> | | |
| <i>Lepidium muelleri-ferdinandi</i> | | |
| <i>Lepidium oxytrichum</i> | | |
| <i>Lepidium phlebopetalum</i> | | |
| <i>Sisymbrium erysimoides</i> | | |
| <i>Stenopetalum anfractum</i> | | |
| <i>Stenopetalum decipiens</i> | | |
| <i>Stenopetalum nutans</i> | | |
| <i>Stenopetalum velutinum</i> | | |
| Cactaceae | <i>Opuntia stricta</i> ^ * | |
| Campanulaceae | <i>Isotoma petraea</i> | |
| | <i>Isotoma petraea</i> subsp. "small flower" * | |
| | <i>Wahlenbergia queenslandica</i> | |
| | <i>Wahlenbergia tumidifruca</i> | |
| Capparaceae | <i>Capparis mitchellii</i> | |
| | <i>Capparis spinosa</i> var. <i>nummularia</i> | |
| Caryophyllaceae | <i>Polycarpaea arida</i> | |
| | <i>Polycarpaea breviflora</i> * | |
| Casuarinaceae | <i>Allocasuarina decaisneana</i> | |
| Celastraceae | <i>Stackhousia clementii</i> | |



| Flowering Plants | |
|------------------|-----------------------------------------------------------|
| Family | Species |
| Chenopodiaceae | <i>Atriplex elachophylla</i> |
| | <i>Atriplex fissivalvis</i> ~ |
| | <i>Atriplex holocarpa</i> |
| | <i>Atriplex humifusa</i> |
| | <i>Atriplex limbata</i> |
| | <i>Atriplex lindleyi</i> subsp. <i>lindleyi</i> |
| | <i>Atriplex nummularia</i> subsp. <i>nummularia</i> |
| | <i>Atriplex quadrivalvata</i> var. <i>quadrivalvata</i> ~ |
| | <i>Atriplex spongiosa</i> |
| | <i>Atriplex velutinella</i> |
| | <i>Atriplex vesicaria</i> |
| | <i>Chenopodium auricomum</i> |
| | <i>Chenopodium desertorum</i> subsp. <i>anidiophyllum</i> |
| | <i>Chenopodium nitrariaceum</i> |
| | <i>Dissocarpus biflorus</i> var. <i>biflorus</i> ~ |
| | <i>Dissocarpus paradoxus</i> |
| | <i>Dysphania cristata</i> |
| | <i>Dysphania kalpari</i> |
| | <i>Dysphania melanocarpa</i> |
| | <i>Dysphania plantaginella</i> |
| | <i>Dysphania platycarpa</i> |
| | <i>Dysphania truncata</i> |
| | <i>Einadia nutans</i> subsp. <i>eremaea</i> |
| | <i>Enchylaena tomentosa</i> |
| | <i>Eremophea spinosa</i> |
| | <i>Eriochiton sclerolaenoides</i> |
| | <i>Maireana aphylla</i> |
| | <i>Maireana appressa</i> |
| | <i>Maireana astrotricha</i> |
| | <i>Maireana campanulata</i> |
| | <i>Maireana carnosa</i> ~ |
| | <i>Maireana coronata</i> |
| | <i>Maireana georgei</i> |

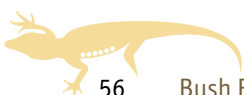
| Flowering Plants | |
|----------------------------------|------------------------------------------------------|
| Family | Species |
| Chenopodiaceae | <i>Maireana integra</i> |
| | <i>Maireana lobiflora</i> |
| | <i>Maireana planifolia</i> |
| | <i>Maireana schistocarpa</i> |
| | <i>Maireana scleroptera</i> |
| | <i>Maireana spongiocarpa</i> |
| | <i>Maireana tomentosa</i> subsp. <i>tomentosa</i> |
| | <i>Maireana trichoptera</i> |
| | <i>Maireana triptera</i> |
| | <i>Maireana villosa</i> |
| | <i>Osteocarpum acropterum</i> var. <i>acropterum</i> |
| | <i>Osteocarpum dipterocarpum</i> ~ |
| | <i>Rhagodia eremaea</i> |
| | <i>Rhagodia parabolica</i> * |
| | <i>Rhagodia spinescens</i> |
| | <i>Salsola australis</i> |
| | <i>Sclerochlamys brachyptera</i> |
| | <i>Sclerolaena bicornis</i> var. <i>bicornis</i> |
| | <i>Sclerolaena birchii</i> ~ |
| | <i>Sclerolaena convexula</i> |
| | <i>Sclerolaena cornishiana</i> |
| | <i>Sclerolaena costata</i> |
| | <i>Sclerolaena cuneata</i> |
| | <i>Sclerolaena decurrens</i> |
| | <i>Sclerolaena deserticola</i> |
| | <i>Sclerolaena diacantha</i> |
| | <i>Sclerolaena eriacantha</i> |
| | <i>Sclerolaena glabra</i> |
| | <i>Sclerolaena holtiana</i> |
| | <i>Sclerolaena intricata</i> |
| | <i>Sclerolaena johnsonii</i> |
| | <i>Sclerolaena lanicuspis</i> |
| | <i>Sclerolaena longicuspis</i> ~ |
| <i>Sclerolaena patenticuspis</i> | |

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| Flowering Plants | |
|---------------------------------|----------------------------------------------------------|
| Family | Species |
| Chenopodiaceae | <i>Tecticornia disarticulata</i> ~ |
| | <i>Tecticornia pergranulata</i> subsp. <i>elongata</i> * |
| | <i>Tecticornia tenuis</i> |
| | <i>Tecticornia triandra</i> ~ |
| Cleomaceae | <i>Cleome viscosa</i> |
| Convolvulaceae | <i>Bonamia erecta</i> |
| | <i>Convolvulus clementii</i> |
| | <i>Convolvulus remotus</i> |
| | <i>Cuscuta victoriana</i> |
| | <i>Evolvulus alsinoides</i> |
| | <i>Ipomoea muelleri</i> |
| | <i>Ipomoea polymorpha</i> |
| | <i>Ipomoea racemigera</i> |
| | <i>Polymeria longifolia</i> |
| Crassulaceae | <i>Crassula colorata</i> var. <i>acuminata</i> |
| Cucurbitaceae | <i>Citrullus colocynthis</i> ^ |
| | <i>Citrullus lanatus</i> ^ |
| | <i>Cucumis argenteus</i> |
| | <i>Cucumis myriocarpus</i> ^ |
| Cupressaceae | <i>Callitris glaucophylla</i> |
| Cyperaceae | <i>Bolboschoenus caldwellii</i> ~ |
| | <i>Bulbostylis barbata</i> |
| | <i>Bulbostylis turbinata</i> * |
| | <i>Cyperus bulbosus</i> |
| | <i>Cyperus centralis</i> * |
| | <i>Cyperus cunninghamii</i> subsp. <i>cunninghamii</i> * |
| | <i>Cyperus difformis</i> |
| | <i>Cyperus gymnocaulos</i> |
| | <i>Cyperus iria</i> * |
| | <i>Cyperus polystachyos</i> |
| | <i>Cyperus pygmaeus</i> |
| | <i>Cyperus rigidellus</i> |
| | <i>Cyperus squarrosus</i> |
| | <i>Fimbristylis dichotoma</i> |
| | <i>Fimbristylis microcarya</i> |
| | <i>Isolepis congrua</i> ~ |
| | <i>Schoenoplectus dissachanthus</i> |
| <i>Schoenoplectus subulatus</i> | |

| Flowering Plants | |
|--------------------------|---------------------------------------------------------------|
| Family | Species |
| Dilleniaceae | <i>Hibbertia glaberrima</i> |
| | <i>Hibbertia</i> sp. Chewings Range (P.K.Latz 10660) ~ |
| Elatinaceae | <i>Bergia henshallii</i> * |
| | <i>Bergia trimera</i> |
| | <i>Elatine gratioloides</i> |
| Euphorbiaceae | <i>Adriana tomentosa</i> var. <i>hookeri</i> |
| | <i>Euphorbia biconvexa</i> |
| | <i>Euphorbia boophthona</i> |
| | <i>Euphorbia centralis</i> |
| | <i>Euphorbia drummondii</i> |
| | <i>Euphorbia ferdinandi</i> |
| | <i>Euphorbia ferdinandi</i> var. <i>ferdinandi</i> |
| | <i>Euphorbia inappendiculata</i> var. <i>queenslandica</i> * |
| | <i>Euphorbia parvicaruncula</i> |
| | <i>Euphorbia sarcostemmoides</i> ~ |
| | <i>Euphorbia tannensis</i> subsp. <i>eremophila</i> |
| | <i>Euphorbia wheeleri</i> |
| | <i>Ricinus communis</i> ^ |
| Fabaceae | <i>Acacia aneura</i> |
| | <i>Acacia aneura</i> var. <i>major</i> * |
| | <i>Acacia aptaneura</i> |
| | <i>Acacia bivenosa</i> |
| | <i>Acacia brachystachya</i> |
| | <i>Acacia calcicola</i> |
| | <i>Acacia dictyophleba</i> |
| | <i>Acacia estrophiolata</i> |
| | <i>Acacia georginae</i> |
| | <i>Acacia grasbyi</i> ~ |
| | <i>Acacia incurvaneura</i> |
| | <i>Acacia kempeana</i> |
| | <i>Acacia latzii</i> # ~ |
| | <i>Acacia ligulata</i> |
| | <i>Acacia macdonnellensis</i> subsp. <i>macdonnellensis</i> * |
| <i>Acacia maitlandii</i> | |
| <i>Acacia melleodora</i> | |



| Flowering Plants | |
|------------------|--------------------------------------------------------------|
| Family | Species |
| Fabaceae | <i>Acacia minyura</i> * |
| | <i>Acacia mulganeura</i> ~ |
| | <i>Acacia murrayana</i> |
| | <i>Acacia oswaldii</i> |
| | <i>Acacia paraneura</i> |
| | <i>Acacia ramulosa</i> var. <i>ramulosa</i> |
| | <i>Acacia salicina</i> |
| | <i>Acacia sericophylla</i> |
| | <i>Acacia sessiliceps</i> |
| | <i>Acacia</i> sp. Mulga Holey Trunk (P.K.Latz 12458) |
| | <i>Acacia</i> sp. silver (P.K.Latz 27977) * |
| | <i>Acacia spondylophylla</i> |
| | <i>Acacia strongylophylla</i> |
| | <i>Acacia tetragonophylla</i> |
| | <i>Acacia victoriae</i> |
| | <i>Caesalpinia bonduc</i> ^ * |
| | <i>Crotalaria cunninghamii</i> subsp. <i>sturtii</i> |
| | <i>Crotalaria eremaea</i> |
| | <i>Crotalaria eremaea</i> subsp. <i>strehlowii</i> |
| | <i>Crotalaria novae-hollandiae</i> subsp. <i>lasiophylla</i> |
| | <i>Crotalaria smithiana</i> |
| | <i>Cullen cinereum</i> |
| | <i>Cullen discolor</i> |
| | <i>Cullen graveolens</i> * |
| | <i>Cullen pallidum</i> |
| | <i>Daviesia arthropoda</i> |
| | <i>Erythrina vespertilio</i> subsp. <i>biloba</i> |
| | <i>Gastrolobium brevipes</i> |
| | <i>Glycine canescens</i> |
| | <i>Indigofera basedowii</i> |

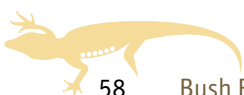
| Flowering Plants | |
|----------------------------|-----------------------------------------------------------|
| Family | Species |
| Fabaceae | <i>Indigofera cornuligera</i> subsp. <i>cornuligera</i> |
| | <i>Indigofera georgei</i> |
| | <i>Indigofera helmsii</i> |
| | <i>Indigofera leucotricha</i> |
| | <i>Indigofera linnaei</i> |
| | <i>Indigofera psammophila</i> * |
| | <i>Indigofera</i> sp. Areyonga (D.J.Parsons 30) ~ |
| | <i>Isotropis wheeleri</i> |
| | <i>Leptosema chambersii</i> |
| | <i>Lotus cruentus</i> |
| | <i>Muelleranthus stipularis</i> |
| | <i>Petalostylis cassioides</i> |
| | <i>Rhynchosia minima</i> |
| | <i>Senna</i> aff. <i>glutinosa</i> (Albrecht 14034) * |
| | <i>Senna artemisioides</i> |
| | <i>Senna artemisioides</i> subsp. <i>alicia</i> |
| | <i>Senna artemisioides</i> subsp. <i>artemisioides</i> |
| | <i>Senna artemisioides</i> subsp. <i>coriacea</i> |
| | <i>Senna artemisioides</i> subsp. <i>filifolia</i> |
| | <i>Senna artemisioides</i> subsp. <i>helmsii</i> |
| | <i>Senna artemisioides</i> subsp. Kuyunba (B.Pitts 113) ~ |
| | <i>Senna artemisioides</i> subsp. <i>oligophylla</i> |
| | <i>Senna artemisioides</i> subsp. <i>petiolaris</i> |
| | <i>Senna artemisioides</i> subsp. <i>quadrifolia</i> |
| | <i>Senna artemisioides</i> subsp. <i>sturtii</i> * |
| | <i>Senna glutinosa</i> subsp. <i>glutinosa</i> |
| <i>Senna oligoclada</i> | |
| <i>Senna phyllodinea</i> ~ | |

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Mulga Mistletoe (*Lysiana murrayi*) © Copyright, R. Whyte

| Flowering Plants | |
|------------------|--------------------------------------------------|
| Family | Species |
| Fabaceae | <i>Senna pleurocarpa</i> var. <i>pleurocarpa</i> |
| | <i>Senna sericea</i> |
| | <i>Senna venusta</i> |
| | <i>Swainsona affinis</i> |
| | <i>Swainsona burkei</i> |
| | <i>Swainsona flavicarinata</i> |
| | <i>Swainsona microphylla</i> |
| | <i>Swainsona oroboides</i> |
| | <i>Swainsona phacoides</i> |
| | <i>Swainsona rostrata</i> |
| | <i>Swainsona unifoliolata</i> |

| Flowering Plants | |
|------------------|------------------------------------------------------|
| Family | Species |
| Fabaceae | <i>Templetonia egena</i> |
| | <i>Tephrosia sphaerospora</i> |
| | <i>Tephrosia supina</i> |
| | <i>Trifolium arvense</i> ^ |
| | <i>Trigonella suavissima</i> |
| | <i>Vachellia farnesiana</i> var. <i>farnesiana</i> ^ |
| Frankeniaceae | <i>Frankenia cordata</i> |
| | <i>Frankenia serpyllifolia</i> |
| Gentianaceae | <i>Schenkia australis</i> |
| Geraniaceae | <i>Erodium cygnorum</i> ~ |



| Flowering Plants | |
|----------------------------|-------------------------------------------------------|
| Family | Species |
| Goodeniaceae | <i>Brunonia australis</i> |
| | <i>Dampiera cinerea</i> |
| | <i>Goodenia berardiana</i> |
| | <i>Goodenia cycloptera</i> |
| | <i>Goodenia fascicularis</i> |
| | <i>Goodenia gibbosa</i> |
| | <i>Goodenia grandiflora</i> |
| | <i>Goodenia havilandii</i> ~ |
| | <i>Goodenia heterochila</i> |
| | <i>Goodenia hirsuta</i> subsp. Hills (P.K.Latz 13679) |
| | <i>Goodenia lanata</i> |
| | <i>Goodenia larapinta</i> |
| | <i>Goodenia lunata</i> |
| | <i>Goodenia modesta</i> |
| | <i>Goodenia mueckeana</i> |
| | <i>Goodenia ramelii</i> |
| | <i>Goodenia triodiophila</i> |
| | <i>Lechenaultia divaricata</i> |
| | <i>Scaevola amblyanthera</i> var. <i>centralis</i> |
| | <i>Scaevola basedowii</i> |
| | <i>Scaevola depauperata</i> |
| | <i>Scaevola parvibarbata</i> |
| | <i>Scaevola parvifolia</i> subsp. <i>parvifolia</i> |
| <i>Scaevola spinescens</i> | |
| <i>Velleia glabrata</i> | |
| Gyrostemonaceae | <i>Codonocarpus cotinifolius</i> |
| | <i>Gyrostemon ramulosus</i> |
| | <i>Gyrostemon tepperi</i> |
| Haloragaceae | <i>Haloragis aspera</i> |
| | <i>Haloragis gossei</i> |
| | <i>Haloragis uncatipila</i> |
| | <i>Myriophyllum verrucosum</i> |

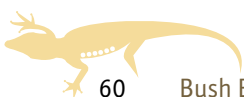
| Flowering Plants | |
|------------------------------------------------|--------------------------------------------------------|
| Family | Species |
| Hemerocallidaceae | <i>Corynotheca licrota</i> |
| | <i>Corynotheca micrantha</i> |
| | <i>Corynotheca micrantha</i> var. <i>divaricata</i> |
| Hydrocharitaceae | <i>Najas marina</i> subsp. <i>armata</i> |
| Isoetaceae | <i>Isoetes muelleri</i> |
| Juncaceae | <i>Juncus acutus</i> subsp. <i>acutus</i> ^ |
| | <i>Juncus kraussii</i> subsp. <i>australiensis</i> |
| | <i>Juncus</i> sp. MacDonnell Ranges (B.G.Thomson 3412) |
| Juncaginaceae | <i>Triglochin hexagona</i> ~ |
| | <i>Triglochin nana</i> |
| Lamiaceae | <i>Dicrastylis beveridgei</i> |
| | <i>Dicrastylis costelloi</i> |
| | <i>Dicrastylis gilesii</i> |
| | <i>Dicrastylis lewellinii</i> |
| | <i>Newcastelia spodioptricha</i> |
| | <i>Plectranthus intraterraneus</i> |
| | <i>Prostanthera althoferi</i> subsp. <i>longifolia</i> |
| | <i>Prostanthera striatiflora</i> |
| | <i>Salvia verbenaca</i> ^ |
| | <i>Spartothamnella canescens</i> ~ |
| | <i>Spartothamnella teucriflora</i> |
| | <i>Teucrium racemosum</i> |
| | Loranthaceae |
| <i>Amyema hilliana</i> * | |
| <i>Amyema maidenii</i> subsp. <i>maidenii</i> | |
| <i>Amyema miquelii</i> | |
| <i>Amyema preissii</i> | |
| <i>Amyema quandang</i> var. <i>quandang</i> | |
| <i>Lysiana exocarpi</i> subsp. <i>exocarpi</i> | |
| <i>Lysiana murrayi</i> | |
| <i>Lysiana subfalcata</i> * | |

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| Flowering Plants | |
|------------------------------------------------------------------|------------------------------------------------------|
| Family | Species |
| Malvaceae | <i>Abutilon cryptopetalum</i> |
| | <i>Abutilon fraseri</i> |
| | <i>Abutilon hannii</i> subsp. <i>prostrate</i> |
| | <i>Abutilon lepidum</i> |
| | <i>Abutilon leucopetalum</i> |
| | <i>Abutilon macrum</i> |
| | <i>Abutilon malvifolium</i> |
| | <i>Abutilon otocarpum</i> |
| | <i>Brachychiton gregorii</i> |
| | <i>Commersonia magniflora</i> |
| | <i>Corchorus sidoides</i> subsp. <i>sidoides</i> |
| | <i>Gilesia biniflora</i> ~ * |
| | <i>Gossypium australe</i> * |
| | <i>Gossypium sturtianum</i> var. <i>sturtianum</i> |
| | <i>Hannafordia bissillii</i> subsp. <i>bissillii</i> |
| | <i>Hibiscus brachysiphonius</i> |
| | <i>Hibiscus burtonii</i> |
| | <i>Hibiscus solanifolius</i> |
| | <i>Hibiscus sturtii</i> var. <i>grandiflorus</i> |
| | <i>Hibiscus verdcourtii</i> |
| | <i>Keraudrenia nephrosperma</i> |
| | <i>Keraudrenia velutina</i> |
| | <i>Malva parviflora</i> ^ * |
| | <i>Malva preissiana</i> |
| | <i>Malvastrum americanum</i> ^ |
| | <i>Melhaniania oblongifolia</i> |
| | <i>Sida ammophila</i> |
| | <i>Sida argillacea</i> |
| | <i>Sida cunninghamii</i> |
| | <i>Sida fibulifera</i> |
| | <i>Sida goniocarpa</i> * |
| | <i>Sida phaeotricha</i> * |
| | <i>Sida platycalyx</i> |
| | <i>Sida rohlenae</i> subsp. <i>rohlenae</i> |
| | <i>Sida</i> sp. <i>Ambalindum</i> (C.R.Dunlop 2080) |
| <i>Sida</i> sp. <i>Golden calyces pubescent</i> (G.J.Leach 1966) | |
| <i>Sida</i> sp. <i>Huckitta</i> (P.K.Latz 12592) | |

| Flowering Plants | | |
|----------------------------|----------------------------------------------------------------|----------------------------|
| Family | Species | |
| Malvaceae | <i>Sida</i> sp. <i>Kathleen Springs</i> (A.C.Beaglehole 26934) | |
| | <i>Sida</i> sp. <i>limestone</i> (D.E.Albrecht 5748) | |
| | <i>Sida</i> sp. <i>Musselbrook</i> (M.B.Thomas+ MRS437) | |
| | <i>Sida</i> sp. <i>Pindan</i> (B.G.Thomson 3398) | |
| | <i>Sida</i> sp. <i>Rabbit Flat</i> (B.J.Carter 626) | |
| | <i>Sida</i> sp. <i>Rainbow Valley</i> (D.E.Albrecht 6601) | |
| | <i>Sida</i> sp. <i>Wakaya Desert</i> (P.K.Latz 11894) | |
| | Marsileaceae | <i>Marsilea drummondii</i> |
| | | <i>Marsilea exarata</i> |
| | | <i>Marsilea hirsuta</i> |
| Molluginaceae | <i>Glinus lotoides</i> | |
| | <i>Glinus oppositifolius</i> | |
| | <i>Mollugo cerviana</i> | |
| Moraceae | <i>Ficus brachypoda</i> | |
| Myrtaceae | <i>Aluta maisonneuvei</i> subsp. <i>maisonneuvei</i> | |
| | <i>Baeckea polystemonea</i> * | |
| | <i>Callistemon pauciflorus</i> ~ | |
| | <i>Corymbia aparrerinja</i> | |
| | <i>Corymbia chippendalei</i> | |
| | <i>Corymbia eremaea</i> | |
| | <i>Corymbia opaca</i> | |
| | <i>Eucalyptus camaldulensis</i> subsp. <i>arida</i> | |
| | <i>Eucalyptus camaldulensis</i> subsp. <i>obtusa</i> | |
| | <i>Eucalyptus coolabah</i> subsp. <i>arida</i> | |
| | <i>Eucalyptus gamophylla</i> | |
| | <i>Eucalyptus gilleniei</i> | |
| | <i>Eucalyptus intertexta</i> | |
| | <i>Eucalyptus lucens</i> ~ | |
| | <i>Eucalyptus mannensis</i> | |
| <i>Eucalyptus oxymitra</i> | | |
| <i>Eucalyptus sessilis</i> | | |



Sand Sida (*Sida ammophila*) © Copyright, R. Whyte

| Flowering Plants | |
|------------------|-------------------------------------------------------|
| Family | Species |
| Myrtaceae | <i>Eucalyptus socialis</i> subsp. <i>eucentrica</i> |
| | <i>Eucalyptus trivalva</i> |
| | <i>Melaleuca dissitiflora</i> |
| | <i>Melaleuca glomerata</i> |
| | <i>Melaleuca trichostachya</i> |
| | <i>Thryptomene hexandra</i> |
| Nyctaginaceae | <i>Boerhavia burbridgeana</i> |
| | <i>Boerhavia coccinea</i> |
| | <i>Boerhavia repleta</i> |
| | <i>Boerhavia schomburgkiana</i> |
| | <i>Commicarpus australis</i> ~ |
| Oleaceae | <i>Jasminum calcareum</i> |
| | <i>Jasminum didymum</i> subsp. <i>lineare</i> |
| Oxalidaceae | <i>Oxalis perennans</i> |
| Papaveraceae | <i>Argemone ochroleuca</i> subsp. <i>ochroleuca</i> ^ |
| Pedaliaceae | <i>Josephinia eugeniae</i> |
| Phrymaceae | <i>Glossostigma diandrum</i> |
| | <i>Peplidium aithocheilum</i> |

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Flowering Plants

| Family | Species |
|------------------------------------------------|---------------------------------------------------|
| Phyllanthaceae | <i>Phyllanthus erwinii</i> |
| | <i>Phyllanthus exilis</i> |
| | <i>Phyllanthus fuernrohrii</i> |
| | <i>Phyllanthus maderaspatensis</i> |
| | <i>Phyllanthus minutiflorus</i> * |
| | <i>Sauropus ramosissimus</i> |
| | <i>Sauropus rigens</i> ~ |
| | <i>Sauropus trachyspermus</i> |
| Pittosporaceae | <i>Pittosporum angustifolium</i> |
| Plantaginaceae | <i>Stemodia florulenta</i> |
| | <i>Stemodia viscosa</i> |
| Poaceae | <i>Amphipogon caricinus</i> var. <i>caricinus</i> |
| | <i>Andropogon gayanus</i> ^ |
| | <i>Aristida arida</i> |
| | <i>Aristida capillifolia</i> * |
| | <i>Aristida contorta</i> |
| | <i>Aristida holathera</i> var. <i>holathera</i> |
| | <i>Aristida inaequiglumis</i> |
| | <i>Aristida latifolia</i> |
| | <i>Aristida nitidula</i> |
| | <i>Astrebla pectinata</i> |
| | <i>Austrostipa aquarii</i> |
| | <i>Austrostipa nitida</i> |
| | <i>Avena fatua</i> ^ |
| | <i>Avena sativa</i> ^ |
| | <i>Bothriochloa ewartiana</i> |
| | <i>Cenchrus ciliaris</i> ^ |
| | <i>Cenchrus echinatus</i> ^ |
| | <i>Cenchrus pennisetiformis</i> ^ * |
| | <i>Cenchrus setiger</i> ^ * |
| | <i>Chloris virgata</i> |
| <i>Cymbopogon ambiguus</i> | |
| <i>Cymbopogon obtectus</i> * | |
| <i>Cynodon dactylon</i> var. <i>dactylon</i> ^ | |

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| Flowering Plants | |
|------------------|-------------------------------------------------------------------|
| Family | Species |
| Poaceae | <i>Dactyloctenium radulans</i> |
| | <i>Dichanthium annulatum</i> ^ |
| | <i>Dichanthium sericeum</i> subsp. <i>humilius</i> |
| | <i>Dichanthium sericeum</i> subsp. <i>sericeum</i> |
| | <i>Digitaria ammophila</i> |
| | <i>Digitaria brownii</i> |
| | <i>Digitaria ciliaris</i> ^ |
| | <i>Digitaria coenicola</i> |
| | <i>Echinochloa crus-galli</i> ^ |
| | <i>Enneapogon avenaceus</i> |
| | <i>Enneapogon cylindricus</i> |
| | <i>Enneapogon intermedius</i> |
| | <i>Enneapogon lindleyanus</i> |
| | <i>Enneapogon oblongus</i> |
| | <i>Enneapogon polyphyllus</i> |
| | <i>Enteropogon acicularis</i> |
| | <i>Enteropogon ramosus</i> |
| | <i>Eragrostis australasica</i> |
| | <i>Eragrostis barrelieri</i> ^ |
| | <i>Eragrostis basedowii</i> |
| | <i>Eragrostis cumingii</i> |
| | <i>Eragrostis dielsii</i> |
| | <i>Eragrostis elongata</i> * |
| | <i>Eragrostis eriopoda</i> |
| | <i>Eragrostis eriopoda</i> subsp. Hill top (P.K.Latz 11583) |
| | <i>Eragrostis eriopoda</i> subsp. Red earth (D.J.Nelson 1651) |
| | <i>Eragrostis eriopoda</i> subsp. Sandy fireweed (P.K.Latz 12908) |
| | <i>Eragrostis falcata</i> |
| | <i>Eragrostis kennedyae</i> |
| | <i>Eragrostis lacunaria</i> |
| | <i>Eragrostis laniflora</i> |
| | <i>Eragrostis leptocarpa</i> |
| | <i>Eragrostis minor</i> ^ |
| | <i>Eragrostis olida</i> |
| | <i>Eragrostis parviflora</i> |

| Flowering Plants | |
|------------------|------------------------------------------------------------|
| Family | Species |
| Poaceae | <i>Eragrostis setifolia</i> |
| | <i>Eragrostis</i> sp. Erect spikelets (P.K.Latz 2122) |
| | <i>Eragrostis</i> sp. Limestone (P.K.Latz 5921) |
| | <i>Eragrostis trichophora</i> ^ |
| | <i>Eragrostis xerophila</i> |
| | <i>Eriachne aristidea</i> |
| | <i>Eriachne benthamii</i> |
| | <i>Eriachne helmsii</i> |
| | <i>Eriachne mucronata</i> |
| | <i>Eriachne ovata</i> |
| | <i>Eriachne pulchella</i> subsp. <i>pulchella</i> |
| | <i>Eriachne</i> sp. woolly culms (P.K.Latz 10065) |
| | <i>Eriochloa pseudoacrotricha</i> |
| | <i>Eulalia aurea</i> |
| | <i>Iseilema dolichotrichum</i> |
| | <i>Iseilema eremaum</i> * |
| | <i>Iseilema membranaceum</i> * |
| | <i>Iseilema vaginiflorum</i> |
| | <i>Leptochloa digitata</i> |
| | <i>Leptochloa fusca</i> subsp. <i>fusca</i> |
| | <i>Leptochloa fusca</i> subsp. <i>muelleri</i> |
| | <i>Lolium rigidum</i> ^ |
| | <i>Monachather paradoxus</i> |
| | <i>Neurachne munroi</i> |
| | <i>Neurachne tenuifolia</i> |
| | <i>Oxychloris scariosa</i> |
| | <i>Panicum decompositum</i> var. <i>decompositum</i> |
| | <i>Panicum laevinode</i> * |
| | <i>Paractaenum novae-hollandiae</i> subsp. <i>reversum</i> |
| | <i>Paractaenum refractum</i> |
| | <i>Paspalidium basicladum</i> |
| | <i>Paspalidium clementii</i> |
| | <i>Paspalidium constrictum</i> |
| | <i>Paspalidium jubiflorum</i> |
| | <i>Paspalidium reflexum</i> |
| | <i>Phragmites australis</i> |



| Flowering Plants | |
|--------------------------------|-----------------------------------------------|
| Family | Species |
| Poaceae | <i>Polypogon monspeliensis</i> ^ |
| | <i>Setaria dielsii</i> |
| | <i>Sorghum x alnum</i> ^ |
| | <i>Sporobolus actinocladus</i> |
| | <i>Sporobolus australasicus</i> |
| | <i>Sporobolus blakei</i> |
| | <i>Sporobolus caroli</i> |
| | <i>Themeda avenacea</i> |
| | <i>Themeda triandra</i> |
| | <i>Thyridolepis mitchelliana</i> |
| | <i>Thyridolepis xerophila</i> |
| | <i>Tragus australianus</i> |
| | <i>Triodia basedowii</i> |
| | <i>Triodia brizoides</i> |
| | <i>Triodia melvillei</i> |
| | <i>Triodia pungens</i> |
| | <i>Triodia schinzii</i> |
| | <i>Tripogon loliiformis</i> |
| | <i>Triraphis mollis</i> |
| | <i>Triticum aestivum</i> ^ |
| | <i>Urochloa gilesii</i> var. <i>gilesii</i> * |
| | <i>Urochloa piligera</i> |
| | <i>Urochloa praetervisa</i> |
| <i>Yakirra australiensis</i> * | |
| <i>Zygochloa paradoxa</i> | |
| Polygonaceae | <i>Acetosa vesicaria</i> ^ |
| | <i>Comesperma viscidulum</i> ~ * |
| | <i>Duma florulenta</i> |
| | <i>Persicaria lapathifolia</i> |
| | <i>Polygonum plebeium</i> |
| Portulacaceae | <i>Anacampseros australiana</i> * |
| | <i>Calandrinia balonensis</i> |
| | <i>Calandrinia eremaea</i> |
| | <i>Calandrinia pumila</i> |
| | <i>Calandrinia remota</i> |
| | <i>Calandrinia reticulata</i> |
| | <i>Portulaca filifolia</i> |

| Flowering Plants | |
|------------------|--------------------------------------------------------------------|
| Family | Species |
| Portulacaceae | <i>Portulaca oleracea</i> var. <i>Yuendumu</i> (T.S.Henshall 2868) |
| Potamogetonaceae | <i>Potamogeton crispus</i> ~ |
| Primulaceae | <i>Samolus eremaeus</i> |
| Proteaceae | <i>Grevillea albiflora</i> |
| | <i>Grevillea juncifolia</i> subsp. <i>juncifolia</i> |
| | <i>Grevillea stenobotrya</i> |
| | <i>Grevillea striata</i> |
| | <i>Grevillea wickhamii</i> subsp. <i>aprica</i> * |
| | <i>Hakea divaricata</i> |
| | <i>Hakea eyreana</i> |
| | <i>Hakea grammatophylla</i> ~ |
| | <i>Hakea leucoptera</i> subsp. <i>leucoptera</i> |
| | <i>Hakea lorea</i> subsp. <i>lorea</i> |
| Pteridaceae | <i>Cheilanthes lasiophylla</i> |
| | <i>Cheilanthes sieberi</i> subsp. <i>pseudovellea</i> * |
| | <i>Cheilanthes sieberi</i> subsp. <i>sieberi</i> |
| Rhamnaceae | <i>Stenanthemum centrale</i> ~ |
| Rubiaceae | <i>Oldenlandia pterospora</i> |
| | <i>Pomax rupestris</i> * |
| | <i>Psydrax ammophila</i> |
| | <i>Psydrax latifolia</i> |
| | <i>Psydrax suaveolens</i> |
| | <i>Synaptantha tillaeacea</i> var. <i>hispidula</i> ~ |
| | <i>Synaptantha tillaeacea</i> var. <i>tillaeacea</i> |
| Ruppiaceae | <i>Ruppia tuberosa</i> ~ |
| Santalaceae | <i>Exocarpos sparteus</i> |
| | <i>Santalum acuminatum</i> ~ |
| | <i>Santalum lanceolatum</i> |
| Sapindaceae | <i>Alectryon oleifolius</i> subsp. <i>elongatus</i> |
| | <i>Atalaya hemiglauca</i> |
| | <i>Dodonaea lanceolata</i> var. <i>lanceolata</i> |

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| Flowering Plants | |
|----------------------------------------------------------|---------------------------------------------------------|
| Family | Species |
| Sapindaceae | <i>Dodonaea microzyga</i> var. <i>microzyga</i> ~ |
| | <i>Dodonaea viscosa</i> subsp. <i>angustissima</i> |
| | <i>Dodonaea viscosa</i> subsp. <i>mucronata</i> |
| Scrophulariaceae | <i>Eremophila acrida</i> |
| | <i>Eremophila battii</i> |
| | <i>Eremophila duttonii</i> |
| | <i>Eremophila freelingii</i> |
| | <i>Eremophila gibsonii</i> |
| | <i>Eremophila gilesii</i> subsp. <i>gilesii</i> |
| | <i>Eremophila goodwinii</i> subsp. <i>goodwinii</i> |
| | <i>Eremophila latrobei</i> subsp. <i>glabra</i> |
| | <i>Eremophila latrobei</i> subsp. <i>latrobei</i> |
| | <i>Eremophila longifolia</i> |
| | <i>Eremophila macdonnellii</i> |
| | <i>Eremophila maculata</i> subsp. <i>maculata</i> |
| | <i>Eremophila obovata</i> |
| | <i>Eremophila ovata</i> |
| | <i>Eremophila paisleyi</i> subsp. <i>glandulosa</i> |
| | <i>Eremophila platythamnos</i> subsp. <i>exotrachys</i> |
| | <i>Eremophila sturtii</i> |
| | <i>Eremophila willsii</i> subsp. <i>willsii</i> |
| | <i>Myoporum montanum</i> |
| | Solanaceae |
| <i>Datura leichhardtii</i> ^ | |
| <i>Duboisia hopwoodii</i> | |
| <i>Nicotiana glauca</i> ^ | |
| <i>Nicotiana gossei</i> | |
| <i>Nicotiana megalosiphon</i> subsp. <i>sessilifolia</i> | |
| <i>Nicotiana occidentalis</i> subsp. <i>obliqua</i> | |
| <i>Nicotiana rosulata</i> subsp. <i>ingulba</i> | |
| <i>Nicotiana simulans</i> | |
| <i>Nicotiana velutina</i> | |
| <i>Solanum aridicola</i> | |

| Flowering Plants | |
|------------------------------|-------------------------------------------------------------------|
| Family | Species |
| Solanaceae | <i>Solanum centrale</i> |
| | <i>Solanum chenopodinum</i> |
| | <i>Solanum coactiliferum</i> |
| | <i>Solanum ferocissimum</i> |
| | <i>Solanum lithophilum</i> |
| | <i>Solanum lycopersicum</i> ^ |
| | <i>Solanum nigrum</i> ^ |
| | <i>Solanum orbiculatum</i> subsp. <i>macrophyllum</i> * |
| | <i>Solanum orbiculatum</i> subsp. <i>orbiculatum</i> |
| | <i>Solanum quadriloculatum</i> |
| <i>Solanum sturtianum</i> | |
| Tamaricaceae | <i>Tamarix aphylla</i> ^ |
| Thymelaeaceae | <i>Pimelea interioris</i> ~ |
| | <i>Pimelea trichostachya</i> |
| Typhaceae | <i>Typha domingensis</i> |
| Urticaceae | <i>Parietaria debilis</i> |
| Verbenaceae | <i>Duranta erecta</i> |
| | <i>Verbena macrostachya</i> ~ |
| Violaceae | <i>Hybanthus aurantiacus</i> |
| Xanthorrhoeaceae | <i>Xanthorrhoea thorntonii</i> ~ * |
| Zygophyllaceae | <i>Tribulopsis angustifolia</i> |
| | <i>Tribulus astrocarpus</i> |
| | <i>Tribulus eichlerianus</i> |
| | <i>Tribulus</i> sp. long-styled eichlerianus (A.S.George 10666) ~ |
| | <i>Tribulus</i> sp. saline flats (P.K. Latz 4530) |
| | <i>Tribulus terrestris</i> ^ |
| | <i>Zygophyllum apiculatum</i> |
| | <i>Zygophyllum crassissimum</i> ~ |
| | <i>Zygophyllum emarginatum</i> |
| | <i>Zygophyllum eremaeum</i> |
| | <i>Zygophyllum howittii</i> * |
| | <i>Zygophyllum prismatothecum</i> |
| | <i>Zygophyllum simile</i> |
| <i>Zygophyllum tesquorum</i> | |



| Liverworts | |
|-------------|--------------------------------|
| Family | Species |
| Aytoniaceae | <i>Plagiochasma rupestre</i> * |
| Ricciaceae | <i>Riccia cf. sorocarpa</i> * |
| | <i>Riccia crinita</i> * |
| | <i>Riccia inflexa</i> * |
| | <i>Riccia macrospora</i> * |
| | <i>Riccia</i> sp. * |

| Mosses | |
|-------------|-------------------------------|
| Family | Species |
| Bryaceae | <i>Bryum</i> sp. * |
| Grimmiaceae | <i>Grimmia laevigata</i> * |
| Pottiaceae | <i>Syntrichia</i> sp. * |
| | <i>Syntrichia laevipila</i> * |



Near Rock Hole Bore, Chandler Range: Pottiaceae moss (left), *Endocarpon* sp. lichen (centre), and *Xanthoparmelia* sp. lichen (right), V. Stajsic © Copyright, National Herbarium of Victoria

| Lichens | |
|-----------------|-----------------------------------------------------------|
| Family | Species |
| Acarosporaceae | <i>Acarospora</i> sp. * |
| Arthoniaceae | <i>Arthonia</i> sp. * |
| Candelariaceae | <i>Candelariella xanthostigmoides</i> * |
| Cladoniaceae | <i>Cladia beaugleholei</i> * |
| Lecanoraceae | <i>Lecanora</i> sp. * |
| Lecideaceae | <i>Lecidea sarcogynoides</i> * |
| | <i>Lecidea</i> sp. VS 6572 * |
| | <i>Paraporphidia</i> sp. * |
| Lichinaceae | <i>Pyrenopsis</i> sp. * |
| | <i>Thyrea</i> sp. * |
| Parmeliaceae | <i>Xanthoparmelia aridella</i> * |
| | <i>Xanthoparmelia</i> sp. * |
| Peltulaceae | <i>Peltula</i> sp. * |
| Pertusariaceae | <i>Pertusaria xanthoplaca</i> * |
| Physciaceae | <i>Amandinea</i> sp. (D.E.Albrecht 14086 & P.K.Latz) * |
| | <i>Buellia</i> sp. * |
| | <i>Hyperphyscia pruinoso</i> * |
| | <i>Hyperphyscia</i> sp. * |
| | <i>Hyperphyscia syncolla</i> * |
| | <i>Physcia</i> sp. * |
| Psoraceae | <i>Psora</i> sp. * |
| Stereocaulaceae | <i>Lepraria</i> sp. * |
| Teloschistaceae | <i>Caloplaca</i> sp. * |
| Verrucariaceae | <i>Endocarpon</i> sp. * |

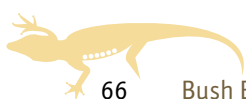
| Fungi | |
|-------------------------------|------------------------------|
| Family | Species |
| [Subclass Pleosporomycetidae] | <i>Hysterographium</i> sp. * |

Key

- * = New record for this reserve
- ^ = Exotic/Pest
- # = EPBC Act listed
- ~ = TPWC Act listed
- † = Fisheries Act 1998 listed

Colour coding for entries:

- Black = Previously recorded on the reserve and found on this survey
- Brown** = Putative new species
- Blue = Previously recorded on the reserve but not found on this survey





Appendix B: Threatened Species

Nomenclature and taxonomic concepts used in this report are consistent with the Australian Faunal Directory, Australian Plant Name Index, Australian Plant Census, Checklist of the Lichens of Australia and its Island Territories, AusMoss, and the Catalogue of Australian Liverworts and Hornworts.

Current at March 2015



Fauna

Vertebrates

| Mammals | | | |
|--------------|-----------------------------|---------------------------|-------------------------------------------------------|
| Family | Species | Common name | Status |
| Dasyuridae | <i>Antechinomys laniger</i> | Kultarr | TPWCA—Near Threatened |
| Macropodidae | <i>Petrogale lateralis</i> | Black-footed Rock-wallaby | EPBC Act—Vulnerable; TPWCA—Near Threatened |
| Muridae | <i>Notomys cervinus</i> | Fawn hopping-mouse | TPWCA—Regionally Extinct in the Northern Territory |
| Peramelidae | <i>Isodon auratus</i> | Golden Bandicoot | TPWCA—Endangered |

| Birds | | | |
|----------------|----------------------------------------|---------------------------|-----------------------|
| Family | Species | Common name | Status |
| Acanthizidae | <i>Pyrholaemus brunneus</i> | Redthroat | TPWCA—Near Threatened |
| Accipitridae | <i>Elanus scriptus</i> | Letter-winged Kite | TPWCA—Near Threatened |
| Acrocephalidae | <i>Acrocephalus australis</i> | Australian Reed Warbler | TPWCA—Near Threatened |
| Burhinidae | <i>Burhinus grallarius</i> | Bush Stone-curlew | TPWCA—Near Threatened |
| Cacatuidae | <i>Calyptorhynchus banksii samueli</i> | Red-tailed Black Cockatoo | TPWCA—Near Threatened |
| Casuariidae | <i>Dromaius novaehollandiae</i> | Emu | TPWCA—Near Threatened |
| Columbidae | <i>Phaps histrionica</i> * | Flock Bronzewing | TPWCA—Near Threatened |
| Falconidae | <i>Falco hypoleucos</i> | Grey Falcon | TPWCA—Vulnerable |
| Maluridae | <i>Amytornis striatus</i> | Striated Grasswren | TPWCA—Near Threatened |
| Meliphagidae | <i>Conopophila whitei</i> | Grey Honeyeater | TPWCA—Data Deficient |
| Otididae | <i>Ardeotis australis</i> | Australian Bustard | TPWCA—Near Threatened |
| Psophodidae | <i>Cinclosoma castanotum</i> | Chestnut Quail-thrush | TPWCA—Near Threatened |
| Rallidae | <i>Porzana fluminea</i> * | Australian Spotted Crake | TPWCA—Data Deficient |
| Scolopacidae | <i>Calidris ferruginea</i> | Curlew Sandpiper | TPWCA—Vulnerable |
| | <i>Calidris melanotos</i> | Pectoral Sandpiper | TPWCA—Data Deficient |
| | <i>Calidris tenuirostris</i> | Great Knot | TPWCA—Vulnerable |

Key

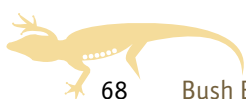
EPBC = refers to the *Environment Protection and Biodiversity Conservation Act 1999* (Commonwealth)

TPWCA = refers to the *Territory Parks and Wildlife Conservation Act 2000* (Northern Territory)

FA = refers to the *Fisheries Act 1988* (Northern Territory)

* = new record for this reserve

Blue = Previously recorded on the reserve but not found on this survey





| Reptiles | | | |
|-------------|-----------------------------|------------------------|------------------------------------------|
| Family | Species | Common name | Status |
| Elapidae | <i>Pseudechis australis</i> | Mulga Snake | TPWCA—Near Threatened |
| Pygopodidae | <i>Delma desmosa</i> | Banded Delma | TPWCA—Data Deficient |
| Scincidae | <i>Liopholis slateri</i> | Slater's Egernia | EPBC Act—Endangered; TPWCA—Vulnerable |
| Typhlopidae | <i>Anilius centralis</i> | Centralian Blind Snake | TPWCA—Data Deficient |

| Fishes | | | |
|-------------|----------------------------------|-----------------|--------------------|
| Family | Species | Common name | Status |
| Atherinidae | <i>Craterocephalus centralis</i> | Finke Hardyhead | FA—Near Threatened |
| Eleotridae | <i>Mogurnda larapintae</i> | Desert Mogurnda | FA—Near Threatened |
| Gobiidae | <i>Chlamydogobius japalpa</i> | Finke Goby | FA—Vulnerable |



Finke Goby (*Chlamydogobius japalpa*), which is listed as Vulnerable under the Northern Territory Fisheries Act 1988, M. Hammer © Copyright, MAGNT



Invertebrates

| Butterflies | | | |
|-------------|----------------------------|---------------------|----------------------|
| Family | Species | Common name | Status |
| Hesperiidae | <i>Croitana arenaria</i> * | Inland Sand-skipper | TPWCA—Data Deficient |
| Nymphalidae | <i>Danaus plexippus</i> * | Monarch, Wanderer | TPWCA—Data Deficient |

| Snails—Terrestrial | | | |
|--------------------|--------------------------------|-------------|------------------|
| Family | Species | Common name | Status |
| Camaenidae | <i>Basedowena squamulosa</i> * | – | TPWCA—Vulnerable |

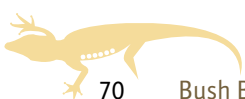
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Blue = Previously recorded on the reserve but not found on this survey





Flora

| Flowering plants | | | |
|------------------|---------------------------------------------------------|------------------------------------|------------------------------------------|
| Family | Species | Common name | Status |
| Amaranthaceae | <i>Amaranthus macrocarpus</i> var. <i>macrocarpus</i> | Dwarf Amaranth | TPWCA—Data Deficient |
| Areaceae | <i>Livistona mariae</i> | Palm Valley Livistona | EPBC Act—Vulnerable; TPWCA—Endangered |
| Asparagaceae | <i>Lomandra patens</i> | Irongrass | TPWCA—Near Threatened |
| Asteraceae | <i>Cratystylis centralis</i> | Blue-bush Daisy, Bluebush Daisy | TPWCA—Near Threatened |
| | <i>Minuria tridens</i> | Minnie Daisy | EPBC Act—Vulnerable; TPWCA—Vulnerable |
| | <i>Sonchus hydrophilus</i> | Native Sow-thistle | TPWCA—Data Deficient |
| Boraginaceae | <i>Heliotropium inexplicitum</i> | – | TPWCA—Data Deficient |
| Chenopodiaceae | <i>Atriplex fissivalvis</i> | Gibber Saltbush | TPWCA—Near Threatened |
| | <i>Atriplex quadrivalvata</i> var. <i>quadrivalvata</i> | – | TPWCA—Near Threatened |
| | <i>Dissocarpus biflorus</i> var. <i>biflorus</i> | Twin-flower Saltbush | TPWCA—Near Threatened |
| | <i>Maireana carnosa</i> | Cottony Bluebush | TPWCA—Near Threatened |
| | <i>Osteocarpum dipterocarpum</i> | – | TPWCA—Data Deficient |
| | <i>Sclerolaena birchii</i> | Galvanised Burr | TPWCA—Near Threatened |
| | <i>Sclerolaena longicuspis</i> | – | TPWCA—Near Threatened |
| | <i>Tecticornia disarticulata</i> | – | TPWCA—Near Threatened |
| | <i>Tecticornia triandra</i> | Desert Glasswort | TPWCA—Near Threatened |
| Cyperaceae | <i>Bolboschoenus caldwellii</i> | Marsh Club-rush | TPWCA—Endangered |
| | <i>Isolepis congrua</i> | Slender Club-sedge | TPWCA—Data Deficient |
| Dilleniaceae | <i>Hibbertia</i> sp. Chewings Range (P.K.Latz 10660) | – | TPWCA—Near Threatened |
| Euphorbiaceae | <i>Euphorbia sarcostemmoides</i> | Climbing Caustic | TPWCA—Near Threatened |
| Fabaceae | <i>Acacia grasbyi</i> | Minniritchie | TPWCA—Near Threatened |
| | <i>Acacia latzii</i> | Latz's Wattle | EPBC Act—Vulnerable; TPWCA—Vulnerable |
| | <i>Acacia mulganeura</i> | Hilltop Mulga, Milky Mulga | TPWCA—Data Deficient |



| Flowering plants | | | |
|------------------|-----------------------------------------------------------------|----------------------------------------|-----------------------|
| Family | Species | Common name | Status |
| Fabaceae | <i>Indigofera</i> sp. Areyonga (D.J.Parsons 30) | – | TPWCA—Data Deficient |
| | <i>Senna artemisioides</i> subsp. Kuyunba (B.Pitts 113) | – | TPWCA—Data Deficient |
| | <i>Senna phyllodinea</i> | Woody Cassia, Silver Cassia | TPWCA—Near Threatened |
| Geraniaceae | <i>Erodium cygnorum</i> | Blue Heronsbill | TPWCA—Data Deficient |
| Goodeniaceae | <i>Goodenia havilandii</i> | Hill Goodenia | TPWCA—Near Threatened |
| Juncaginaceae | <i>Triglochin hexagona</i> | Six-point Arrowgrass | TPWCA—Near Threatened |
| Lamiaceae | <i>Spartothamnella canescens</i> | Red-berried Stick-plant | TPWCA—Near Threatened |
| Malvaceae | <i>Gilesia biniflora</i> * | Western Tarvine | TPWCA—Near Threatened |
| Myrtaceae | <i>Callistemon pauciflorus</i> | Desert Bottlebrush | TPWCA—Near Threatened |
| | <i>Eucalyptus lucens</i> | Shiny leaved Mallee, Glistening Mallee | TPWCA—Near Threatened |
| Nyctaginaceae | <i>Commicarpus australis</i> | Perennial Tar Vine | TPWCA—Near Threatened |
| Phyllanthaceae | <i>Sauropus rigens</i> | – | TPWCA—Near Threatened |
| Polygonaceae | <i>Comesperma viscidulum</i> * | – | TPWCA—Data Deficient |
| Potamogetonaceae | <i>Potamogeton crispus</i> | Curly Pondweed | TPWCA—Near Threatened |
| Proteaceae | <i>Hakea grammatophylla</i> | – | TPWCA—Near Threatened |
| Rhamnaceae | <i>Stenanthemum centrale</i> | – | TPWCA—Near Threatened |
| Rubiaceae | <i>Synaptantha tillaeacea</i> var. <i>hispidula</i> | – | TPWCA—Data Deficient |
| Ruppiaceae | <i>Ruppia tuberosa</i> | Tuberous Seatassel | TPWCA—Near Threatened |
| Santalaceae | <i>Santalum acuminatum</i> | Quandong, Sandalwood, Sweet Quandong | TPWCA—Vulnerable |
| Sapindaceae | <i>Dodonaea microzyga</i> var. <i>microzyga</i> | Brilliant Hopbush | TPWCA—Near Threatened |
| Thymelaeaceae | <i>Pimelea interioris</i> | – | TPWCA—Near Threatened |
| Verbenaceae | <i>Verbena macrostachya</i> | – | TPWCA—Data Deficient |
| Xanthorrhoeaceae | <i>Xanthorrhoea thorntonii</i> * | Desert Grass-tree | TPWCA—Near Threatened |
| Zygophyllaceae | <i>Tribulus</i> sp. long-styled eichlerianus (A.S.George 10666) | – | TPWCA—Data Deficient |
| | <i>Zygophyllum crassissimum</i> | Thick Twinleaf | TPWCA—Near Threatened |

Key

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Appendix C: Exotic and Pest Species

Nomenclature and taxonomic concepts used in this report are consistent with the Australian Faunal Directory, Australian Plant Name Index, Australian Plant Census, Checklist of the Lichens of Australia and its Island Territories, AusMoss, and the Catalogue of Australian Liverworts and Hornworts.

Current at March 2015



Fauna

Vertebrates

| Mammals | | |
|-----------|------------------------------|-----------------|
| Family | Species | Common name |
| Bovidae | <i>Bos taurus</i> | European Cattle |
| Camelidae | <i>Camelus dromedarius</i> | Camel |
| Canidae | <i>Vulpes vulpes</i> | Fox, Red Fox |
| Equidae | <i>Equus asinus</i> | Donkey |
| | <i>Equus caballus</i> | Horse, Brumby |
| Felidae | <i>Felis catus</i> | Cat |
| Leporidae | <i>Oryctolagus cuniculus</i> | Rabbit |
| Muridae | <i>Mus musculus</i> | House Mouse |



Camels (*Camelus dromedarius*) are one of the main pest species in the area, J. Archibald © Copyright, MAGNT

Key

* = New record for this reserve

Colour coding for entries:

Black = Previously recorded on the reserve and found on this survey

Blue = Previously recorded on the reserve but not found on this survey





Invertebrates

| Bees | | |
|--------|-------------------------|--------------------|
| Family | Species | Common name |
| Apidae | <i>Apis mellifera</i> * | European Honey Bee |

| True Bugs | | |
|--------------|----------------------------|---------------------|
| Family | Species | Common name |
| Coreidae | <i>Mictis profana</i> | Crusader Bug |
| Lygaeidae | <i>Nysius vinitor</i> * | Rutherglen Bug |
| Miridae | <i>Creontiades dilutus</i> | Green Mirid |
| Pentatomidae | <i>Kapundaroughtoni</i> | Variable Shield Bug |

| Spiders | | |
|-----------|----------------------------|-----------------------|
| Family | Species | Common name |
| Pholcidae | <i>Crossopriza lyoni</i> * | Tailed Daddy Longlegs |



Flora

| Flowering Plants | | |
|------------------|------------------------------|-----------------------------------------------------------------|
| Family | Species | Common name |
| Asteraceae | <i>Bidens bipinnata</i> | Spanish Needles, Beggar's Ticks, Cuckolds |
| | <i>Carthamus lanatus</i> | Saffron Thistle |
| | <i>Conyza bonariensis</i> | Cobbler's Pegs |
| | <i>Lactuca serriola</i> | Prickly Lettuce |
| | <i>Sonchus oleraceus</i> | Common Sowthistle, Annual Sowthistle |
| Boraginaceae | <i>Heliotropium supinum</i> | Spreading Heliotrope, Prostrate Heliotrope, Creeping Heliotrope |
| Brassicaceae | <i>Brassica tournefortii</i> | Wild Turnip, Mediterranean Turnip |
| Cactaceae | <i>Opuntia stricta</i> * | Prickly Pear |
| Cucurbitaceae | <i>Citrullus colocynthis</i> | Colocynth |
| | <i>Citrullus lanatus</i> | Wild Melon, Bitter Melon, Camel melon |
| | <i>Cucumis myriocarpus</i> | Paddy Melon, Prickly Paddy Melon |
| Euphorbiaceae | <i>Ricinus communis</i> | Castor Oil Plant |



Introduced European Honey Bee (*Apis mellifera*) © Copyright, R. Whyte

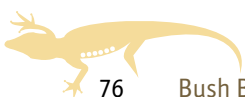
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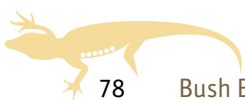
| Flowering Plants | | |
|--------------------------|-----------------------------------------------------|--------------------------------------------------------------------------------------|
| Family | Species | Common name |
| Fabaceae | <i>Caesalpinia bonduc</i> * | Grey-nicker |
| | <i>Trifolium arvense</i> | Haresfoot Clover |
| | <i>Vachellia farnesiana</i> var. <i>farnesiana</i> | Spiky Wattle, Sweet Minosa, Mimosa Bush |
| Juncaceae | <i>Juncus acutus</i> subsp. <i>acutus</i> | Sharp Rush |
| Lamiaceae | <i>Salvia verbenaca</i> | Wild Sage |
| Malvaceae | <i>Malva parviflora</i> * | Mallow, Small-flowered Mallow |
| | <i>Malvastrum americanum</i> | Spiked Malvastrum |
| Papaveraceae | <i>Argemone ochroleuca</i> subsp. <i>ochroleuca</i> | Prickly Poppy, Mexican Poppy |
| Poaceae | <i>Andropogon gayanus</i> | Gamba Grass |
| | <i>Avena fatua</i> | Wild Oats |
| | <i>Avena sativa</i> | Cultivated Oats, Oats |
| | <i>Cenchrus ciliaris</i> | Buffel Grass |
| | <i>Cenchrus echinatus</i> | Mossman River Grass, Burr Grass |
| | <i>Cenchrus pennisetiformis</i> * | White Buffel Grass |
| | <i>Cenchrus setiger</i> * | Birdwood Grass |
| | <i>Cynodon dactylon</i> var. <i>dactylon</i> | Couch |
| | <i>Dichanthium annulatum</i> | Sheda Grass |
| | <i>Digitaria ciliaris</i> | Summer Grass |
| | <i>Echinochloa crus galli</i> | Barnyard Grass, Cockspur Grass |
| | <i>Eragrostis barrelieri</i> | Pitted Lovegrass |
| | <i>Eragrostis minor</i> | Small Stinkgrass |
| | <i>Eragrostis trichophora</i> | Hairyflower Lovegrass |
| | <i>Lolium rigidum</i> | Annual Ryegrass, Wimmera Ryegrass |
| | <i>Polypogon monspeliensis</i> | Annual Beardgrass |
| | <i>Sorghum almum</i> | Columbus Grass |
| <i>Triticum aestivum</i> | Wheat | |
| Polygonaceae | <i>Acetosa vesicaria</i> | Rosy Dock, Bladder Dock |
| Solanaceae | <i>Datura ferox</i> | Fierce Thornapple, False Castor Oil, Longspurred Thornapple, Longspine Thornapple |
| | <i>Datura leichhardtii</i> | Native Thornapple |
| | <i>Nicotiana glauca</i> | Tree Tobacco |
| | <i>Solanum lycopersicum</i> | Tomato |
| | <i>Solanum nigrum</i> | Nightshade, Black Berry Nightshade |
| Tamaricaceae | <i>Tamarix aphylla</i> | Athel Tree |
| Zygophyllaceae | <i>Tribulus terrestris</i> | Bindii, Cathead, Caltrop |



Notes



Reed bed habitat at Running Waters, home of the secretive Australian Reed-Warbler (*Acrocephalus australis*) and other water birds, J. Archibald © Copyright, MAGNT





Glossary



A

Aeolian

Relating to or arising from the action of the wind.

C

Corticolous

Growing or living on the bark of trees or shrubs.

Cryptic species (cryptospecies)

Species that are physically similar but reproductively isolated from each other.

Cryptogam

A plant that reproduces by spores, without flowers or seeds. Includes bryophytes (hornworts, liverworts, mosses), lichens, fungi, slime moulds and algae. The term as used here does not pertain to ferns and fern allies as is sometimes part of the definition used by some authors.

H

Herpetofauna

The reptiles and amphibians of a particular region, habitat, or geological period.

Hyporheic zone

The region below and alongside a stream bed where groundwater and surface water mix in the gaps within the sediment.

L

Lignicolous

Growing or living on or in wood.

M

Morphospecies

A group of individuals considered to belong to the same species on the grounds of morphology (physical features) alone.

P

Putative new species

A species that has been recognised by an expert as never having been named or described in the scientific literature. Note that specimens may already be in museum or herbarium collections.

R

Range extension

Increase in the known distribution or area of occurrence of a species.

S

Saxicolous

Growing on or living among rocks.

Stygofauna

Animals that live in underground water, including crustaceans, worms, snails, insects, other invertebrate groups, and in Australia a blind fish and a newt.

T

Taxon (plural taxa)

A member of any particular taxonomic group, e.g. a species, genus, family.

Taxonomy

The categorisation and naming of species. The science of identifying and naming species, as well as grouping them based on their relatedness.

Terricolous

Living on or in the ground.

Type locality

The location where the holotype (type specimen) was originally found.

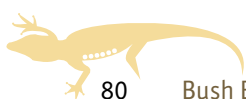
Type specimen (Holotype)

The specimen, or each of a set of specimens, on which the description and name of a new species is based.

U

Undescribed taxon

A taxon (usually a species) that has not yet been formally described or named.



ISBN 978 0 642 56885 4

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PUBLISHER ABRS, Canberra
EDITOR ABRS
LAYOUT Looking Glass Press
DESIGN TEMPLATE ABRS
PRINTER Instant Colour Press

All publications are available online at:

www.bushblitz.org.au

Contributors

Bush Blitz is coordinated by the Australian Biological Resources Study (ABRS), which is part of the Australian Government Department of the Environment. The program is a partnership between the Australian Government, BHP Billiton and Earthwatch Australia.

Research agencies involved in this Bush Blitz were the Museum and Art Gallery of the Northern Territory, Northern Territory Herbarium, South Australian Museum, Western Australian Museum, National Herbarium of Victoria, University of Adelaide, University of New South Wales, Australian National Botanic Gardens, Aquagreen and EcOz Environmental Services.

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FRONT COVER The Tree Dtella (*Gehyra variegata*) is one of Australia's most abundant and widespread gecko species
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Bush Blitz survey report

Henbury Station Northern Territory + 12-24 May 2013



Australian Government

