



BUSH BLITZ SPECIES DISCOVERY PROGRAM



Toorale National Park and Toorale State Conservation Area NSW Supplement

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Key

- * = New record for this reserve
- ^ = Exotic/Pest
- # = EPBC listed
- ~ = TSC (NSW) listed
- † = FMA (NSW) listed
- ‡ = NCA (Qld) listed

- EPBC = *Environment Protection and Biodiversity Conservation Act 1999* (Commonwealth)
- FMA = *Fisheries Management Act 1994* (New South Wales)
- NCA = *Nature Conservation Act 1992* (Queensland)
- TSC = *Threatened Species Conservation Act 1995* (New South Wales)

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 A: Species Lists

Nomenclature and taxonomy used in this appendix are consistent with that from the Australian Faunal Directory (AFD), the Australian Plant Name Index (APNI) and the Australian Plant Census (APC).

Current at March 2014



Fauna

Vertebrates

Mammals		
Family	Species	Common name
Bovidae	<i>Bos taurus</i> ^ *	European Cattle
	<i>Capra hircus</i> ^	Goat
	<i>Ovis aries</i> ^ *	Sheep
Canidae	<i>Vulpes vulpes</i> ^	Fox, Red Fox
Dasyuridae	<i>Sminthopsis murina</i> *	Common Dunnart
Emballonuridae	<i>Saccolaimus flaviventris</i> ~	Yellow-bellied Sheath-tail-bat
Leporidae	<i>Lepus capensis</i> ^ *	Brown Hare
	<i>Oryctolagus cuniculus</i> ^ *	Rabbit
Macropodidae	<i>Macropus fuliginosus</i>	Western Grey Kangaroo
	<i>Macropus giganteus</i>	Eastern Grey Kangaroo
	<i>Macropus rufus</i>	Red Kangaroo
Molossidae	<i>Mormopterus</i> sp. 03 (little penis) *	Free-tailed Bat
Muridae	<i>Mus musculus</i> ^	House Mouse
Suidae	<i>Sus scrofa</i> ^	Pig
Tachyglossidae	<i>Tachyglossus aculeatus</i>	Short-beaked Echidna
Vespertilionidae	<i>Chalinolobus gouldii</i>	Gould's Wattled Bat
	<i>Chalinolobus picatus</i> ~	Little Pied 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





Birds		
Family	Species	Common name
Acanthizidae	<i>Acanthiza chrysorrhoa</i>	Yellow-rumped Thornbill
	<i>Acanthiza nana</i>	Yellow Thornbill
	<i>Acanthiza uropygialis</i>	Chestnut-rumped Thornbill
	<i>Aphelocephala leucopsis</i>	Southern Whiteface
Accipitridae	<i>Accipiter cirrhocephalus</i>	Collared Sparrowhawk
	<i>Aquila audax</i>	Wedge-tailed Eagle
	<i>Elanus axillaris</i>	Black-shouldered Kite
	<i>Haliastur sphenurus</i>	Whistling Kite
	<i>Milvus migrans</i>	Black Kite
Aegothelidae	<i>Aegotheles cristatus</i>	Australian Owlet-nightjar
Alaudidae	<i>Mirafra javanica</i>	Horsfield's Bushlark
Alcedinidae	<i>Dacelo novaeguineae</i>	Laughing Kookaburra
	<i>Todiramphus pyrrhopygius</i>	Red-backed Kingfisher
	<i>Todiramphus sanctus</i>	Sacred Kingfisher
Anatidae	<i>Anas castanea</i>	Chestnut Teal
	<i>Anas gracilis</i>	Grey Teal
	<i>Anas rhynchotis</i>	Australasian Shoveler
	<i>Anas superciliosa</i>	Pacific Black Duck
	<i>Aythya australis</i>	Hardhead
	<i>Biziura lobata</i>	Musk Duck
	<i>Chenonetta jubata</i>	Australian Wood Duck, Maned Duck
	<i>Cygnus atratus</i>	Black Swan
	<i>Malacorhynchus membranaceus</i>	Pink-eared Duck
	<i>Oxyura australis</i> ~	Blue-billed Duck
	<i>Tadorna tadornoides</i>	Australian Shelduck
Anhingidae	<i>Anhinga novaehollandiae</i>	Australasian Darter
Ardeidae	<i>Ardea modesta</i>	Eastern Great Egret
	<i>Ardea pacifica</i>	White-necked Heron
	<i>Egretta novaehollandiae</i>	White-faced Heron
	<i>Nycticorax caledonicus</i>	Nankeen Night Heron
Artamidae	<i>Artamus cinereus</i>	Black-faced Woodswallow
	<i>Artamus leucorhynchus</i>	White-breasted 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



Birds		
Family	Species	Common name
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 novaehollandiae</i>	Black-faced Cuckoo-shrike
	<i>Coracina papuensis</i> *	White-bellied Cuckoo-shrike
	<i>Lalage sueurii</i>	White-winged Triller
Caprimulgidae	<i>Eurostopodus argus</i>	Spotted Nightjar
Casuariidae	<i>Dromaius novaehollandiae</i>	Emu
Charadriidae	<i>Eseyornis melanops</i>	Black-fronted Dotterel
	<i>Vanellus miles</i>	Masked Lapwing
	<i>Vanellus tricolor</i>	Banded Lapwing
Climacteridae	<i>Climacteris affinis</i>	White-browed Treecreeper
	<i>Climacteris picumnus</i>	Brown Treecreeper
Columbidae	<i>Geopelia cuneata</i>	Diamond Dove
	<i>Geopelia striata</i>	Peaceful Dove
	<i>Ocyphaps lophotes</i>	Crested Pigeon
	<i>Phaps chalcoptera</i>	Common Bronzewing
Corcoracidae	<i>Corcorax melanorhamphos</i>	White-winged Chough
	<i>Struthidea cinerea</i>	Apostlebird
Corvidae	<i>Corvus bennetti</i>	Little Crow
	<i>Corvus coronoides</i>	Australian Raven
Cuculidae	<i>Cacomantis pallidus</i>	Pallid Cuckoo
	<i>Chalcites basalis</i>	Horsfield's Bronze-cuckoo
Estrildidae	<i>Taeniopygia guttata</i>	Zebra Finch
Falconidae	<i>Falco berigora</i>	Brown Falcon
	<i>Falco cenchroides</i>	Nankeen Kestrel
	<i>Falco subniger</i> *	Black Falcon
Glareolidae	<i>Glareola maldivarum</i>	Oriental Pratincole
Gruidae	<i>Grus rubicunda</i> ~	Brolga
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
Laridae	<i>Chroicocephalus novaehollandiae</i>	Silver Gull





Birds		
Family	Species	Common name
Maluridae	<i>Malurus lamberti</i>	Variegated Fairy-wren
	<i>Malurus leucopterus</i> *	White-winged Fairy-wren
	<i>Malurus splendens</i>	Splendid Fairy-wren
Megaluridae	<i>Cincloramphus cruralis</i>	Brown Songlark
	<i>Cincloramphus mathewsi</i>	Rufous Songlark
Meliphagidae	<i>Acanthagenys rufogularis</i>	Spiny-cheeked Honeyeater
	<i>Entomyzon cyanotis</i>	Blue-faced Honeyeater
	<i>Epthianura albifrons</i>	White-fronted Chat
	<i>Epthianura aurifrons</i>	Orange Chat
	<i>Epthianura tricolor</i>	Crimson Chat
	<i>Gavicalis virescens</i>	Singing Honeyeater
	<i>Manorina flavigula</i>	Yellow-throated Miner
	<i>Philemon citreogularis</i>	Little Friarbird
	<i>Plectorhyncha lanceolata</i>	Striped Honeyeater
	<i>Ptilotula penicillatus</i>	White-plumed Honeyeater
Meropidae	<i>Merops ornatus</i>	Rainbow Bee-eater
Monarchidae	<i>Grallina cyanoleuca</i>	Magpie-lark
	<i>Myiagra inquieta</i>	Restless Flycatcher
Motacillidae	<i>Anthus novaeseelandiae</i>	Australasian Pipit, Australian Pipit
Nectariniidae	<i>Dicaeum hirundinaceum</i>	Mistletoebird
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 striatus</i>	Striated Pardalote
Pelecanidae	<i>Pelecanus conspicillatus</i>	Australian Pelican
Petroicidae	<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>Pavo cristatus</i> ^ *	Indian Peafowl
Podargidae	<i>Podargus strigoides</i> *	Tawny Frogmouth
Podicipedidae	<i>Poliocephalus poliocephalus</i>	Hoary-headed Grebe
Pomatostomidae	<i>Pomatostomus ruficeps</i>	Chestnut-crowned Babbler
	<i>Pomatostomus temporalis</i>	Grey-crowned Babbler



Birds		
Family	Species	Common name
Psittacidae	<i>Aprosmictus erythropterus</i>	Red-winged Parrot
	<i>Barnardius zonarius</i>	Australian Ringneck
	<i>Barnardius zonarius barnardi</i>	Australian Ringneck
	<i>Melopsittacus undulatus</i> *	Budgerigar
	<i>Neopsephotus bourkii</i>	Bourke's Parrot
	<i>Northiella haematogaster</i>	Blue Bonnet, Bluebonnet
	<i>Psephotus haematonotus</i>	Red-rumped Parrot
	<i>Psephotus varius</i>	Mulga Parrot
Ptilonorhynchidae	<i>Ptilonorhynchus maculatus</i>	Spotted Bowerbird
Rallidae	<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 leucophrys</i>	Willie Wagtail
Threskiornithidae	<i>Platalea flavipes</i>	Yellow-billed Spoonbill
	<i>Platalea regia</i>	Royal Spoonbill
	<i>Plegadis falcinellus</i>	Glossy Ibis
	<i>Threskiornis molucca</i>	Australian White Ibis
	<i>Threskiornis spinicollis</i>	Straw-necked Ibis
Tytonidae	<i>Tyto javanica</i> *	Eastern Barn Owl

Reptiles		
Family	Species	Common name
Agamidae	<i>Pogona vitticeps</i> *	Central Bearded Dragon
	<i>Tympanocryptis tetraporophora</i> *	Eyrean Earless Dragon
Chelidae	<i>Chelodina longicollis</i> *	Eastern Snake-necked Turtle, Snake-necked Turtle
Diplodactylidae	<i>Diplodactylus tessellatus</i> *	Tessellated Gecko
	<i>Rhynchoedura ormsbyi</i>	Eastern Beaked Gecko
Elapidae	<i>Pseudonaja nuchalis</i> *	Northern Brown Snake
	<i>Suta suta</i> *	Curl Snake, Myall Snake
Gekkonidae	<i>Gehyra variegata</i>	Tree Dtella
	<i>Heteronotia binoei</i>	Bynoe's Gecko
	<i>Lucasium damaeum</i>	Beaded Gecko
	<i>Lucasium steindachneri</i>	Box-patterned Gecko





Reptiles		
Family	Species	Common name
Scincidae	<i>Cryptoblepharus</i> sp. *	Snake-eyed Skink
	<i>Ctenotus schomburgkii</i> *	Barred Wedgesnout Ctenotus, Schomburgk's Ctenotus
	<i>Ctenotus</i> sp. *	Ctenotus
	<i>Lerista labialis</i> *	Southern Sandslider
	<i>Lerista punctatovittata</i> *	Eastern Robust Slider
	<i>Lerista timida</i> *	Timid Slider
	<i>Morethia boulengeri</i>	Boulenger's Snake-eyed Skink, South-eastern Morethia Skink
	<i>Tiliqua rugosa</i>	Bobtail, Boggi, Pinecone Lizard, Shingle-back, Sleepy Lizard, Stumpy-tail
	<i>Tiliqua scincoides</i>	Eastern Blue-tongue
Varanidae	<i>Varanus gouldii</i>	Gould's Goanna
	<i>Varanus tristis</i> *	Black-headed Monitor

Frogs and Toads		
Family	Species	Common name
Hylidae	<i>Cyclorana platycephala</i> *	Water-holding Frog
	<i>Cyclorana platycephala</i> x <i>verrucosa</i>	–
	<i>Cyclorana verrucosa</i> ‡ *	Rough Frog
	<i>Litoria caerulea</i>	Green Tree Frog
	<i>Litoria peronii</i> *	Peron's Tree Frog
	<i>Litoria rubella</i>	Desert Tree Frog, Red Tree Frog
Myobatrachidae	<i>Crinia deserticola</i> *	Desert Froglet
	<i>Crinia parinsignifera</i> *	Eastern Sign-bearing Froglet
	<i>Limnodynastes fletcheri</i>	Barking Frog, Long-thumbed Frog, Marsh Frog
	<i>Limnodynastes salmini</i> *	Salmon Striped Frog
	<i>Neobatrachus sudellae</i> *	Sudell's Frog
	<i>Notaden bennettii</i>	Crucifix Frog, Holy Cross Frog



Invertebrates

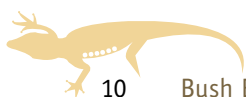
True Bugs — Aquatic	
Family	Species
Corixidae	<i>Agraptocorixa parvipunctata</i> *
Notonectidae	<i>Anisops stali</i> *

Damselflies and Dragonflies	
Family	Species
Coenagrionidae	<i>Ischnura aurora</i> *
Lestidae	<i>Austrolestes aridus</i> *
Libellulidae	<i>Diplacodes bipunctata</i> *
	<i>Orthetrum caledonicum</i> *

Snails — Terrestrial	
Family	Species
Pupillidae	<i>Gastrocopta margaretae</i> *
	<i>Pupoides pacificus</i> *

Snails — Freshwater	
Family	Species
Planorbidae	<i>Glyptophysa gibbosa</i> *
	<i>Isidorella newcombi</i> *

Mussels	
Family	Species
Hyriidae	<i>Velesunio ambiguus</i> *





Flora

Flowering Plants	
Family	Species
Amaranthaceae	<i>Alternanthera nodiflora</i>
Apiaceae	<i>Eryngium cf. paludosum</i> *
Asparagaceae	<i>Thysanotus baueri</i>
Asteraceae	<i>Actinobole uliginosum</i>
	<i>Brachyscome melanocarpa</i>
	<i>Leptorhynchos baileyi</i>
	<i>Rhodanthe corymbiflora</i>
	<i>Vittadinia eremaea</i>
Capparaceae	<i>Capparis mitchellii</i> *
Chenopodiaceae	<i>Atriplex eardleyae</i>
	<i>Atriplex pseudocampanulata</i>
	<i>Chenopodium curvispicatum</i> *
	<i>Einadia nutans</i> subsp. <i>nutans</i> *
Fabaceae	<i>Acacia aneura</i>
	<i>Acacia excelsa</i> *
	<i>Acacia tetragonophylla</i>
	<i>Sesbania cannabina</i> *
Goodeniaceae	<i>Velleia glabrata</i> *
Lamiaceae	<i>Teucrium racemosum</i> *
Malvaceae	<i>Abutilon leucopetalum</i> *

Flowering Plants	
Family	Species
Myrtaceae	<i>Eucalyptus camaldulensis</i>
	<i>Eucalyptus coolabah</i> subsp. <i>coolabah</i>
	<i>Eucalyptus largiflorens</i>
	<i>Eucalyptus vicina</i>
Nitrariaceae	<i>Nitraria billardieri</i>
Nyctaginaceae	<i>Boerhavia cf. repleta</i> *
Poaceae	<i>Aristida latifolia</i> ? *
	<i>Eragrostis</i> sp. *
Portulacaceae	<i>Calandrinia eremaea</i>
Rhamnaceae	<i>Ventilago viminalis</i> *
Sapindaceae	<i>Atalaya hemiglauca</i>
	<i>Dodonaea viscosa</i> *
	<i>Dodonaea viscosa</i> subsp. <i>spatulata</i>
Scrophulariaceae	<i>Eremophila goodwinii</i> *
	<i>Eremophila latrobei</i> subsp. <i>latrobei</i> *
	<i>Eremophila sturtii</i> *
Solanaceae	<i>Solanum ferocissimum</i>
Zygophyllaceae	<i>Tribulus micrococcus</i> ^



Notes





Appendix B: Threatened Species

Nomenclature and taxonomy used in this appendix are consistent with that from the Australian Faunal Directory (AFD), the Australian Plant Name Index (APNI) and the Australian Plant Census (APC).

Current at March 2014



Fauna

Vertebrates

Mammals			
Family	Species	Common name	Status
Emballonuridae	<i>Saccolaimus flaviventris</i>	Yellow-bellied Sheath-tail-bat	TSC—Vulnerable
Vespertilionidae	<i>Chalinolobus picatus</i>	Little Pied Bat	TSC—Vulnerable; NCA—Near Threatened

Birds			
Family	Species	Common name	Status
Anatidae	<i>Oxyura australis</i>	Blue-billed Duck	TSC—Vulnerable
Cacatuidae	<i>Calyptorhynchus banksii samueli</i>	Red-tailed Black Cockatoo	TSC—Vulnerable
	<i>Lophochroa leadbeateri</i>	Major Mitchell's Cockatoo	TSC—Vulnerable; NCA—Vulnerable
Gruidae	<i>Grus rubicunda</i>	Brolga	TSC—Vulnerable
Otididae	<i>Ardeotis australis</i>	Australian Bustard	TSC—Endangered

Frogs and Toads			
Family	Species	Common name	Status
Hylidae	<i>Cyclorana verrucosa</i> *	Rough Frog	NCA—Near Threatened





Appendix C: Exotic and Pest Species

Nomenclature and taxonomy used in this appendix are consistent with that from the Australian Faunal Directory (AFD), the Australian Plant Name Index (APNI) and the Australian Plant Census (APC).

Current at March 2014



Fauna

Vertebrates

Mammals		
Family	Species	Common name
Bovidae	<i>Bos taurus</i> *	European Cattle
	<i>Capra hircus</i>	Goat
	<i>Ovis aries</i> *	Sheep
Canidae	<i>Vulpes vulpes</i>	Fox, Red Fox
Leporidae	<i>Lepus capensis</i> *	Brown Hare
	<i>Oryctolagus cuniculus</i> *	Rabbit
Muridae	<i>Mus musculus</i>	House Mouse
Suidae	<i>Sus scrofa</i>	Pig

Birds		
Family	Species	Common name
Phasianidae	<i>Pavo cristatus</i> *	Indian Peafowl





Flora

Flowering Plants		
Family	Species	Common name
Zygophyllaceae	<i>Tribulus micrococcus</i>	Yellow Vine



Notes





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This supplement contains the appendices from the Bush Blitz survey report:

- + North-western NSW and southern Qld 2009–2010 including Culgoa Floodplain, Culgoa, Gundabooka, Mount Grenfell (proposed), Paroo-Darling, Toorale National Parks; Gundabooka, Paroo-Darling, Toorale State Conservation Areas; Culgoa, Ginghet, Ledknapper, Quanda Nature Reserves; and Mount Grenfell Historic Site. ISBN 978 0 642 56880 9

Supplements available:

- + Culgoa Floodplain National Park Qld
- + Culgoa National Park and Culgoa Nature Reserve NSW
- + Gundabooka National Park and Gundabooka State Conservation Area NSW
- + Paroo-Darling National Park and Paroo-Darling State Conservation Area NSW
- + Toorale National Park and Toorale State Conservation Area NSW
- + Mount Grenfell Historic Site and proposed Mount Grenfell National Park NSW
- + Ginghet Nature Reserve NSW
- + Ledknapper Nature Reserve NSW
- + Quanda, Nombinnie and Nocoleche Nature Reserves NSW

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.



Bush Blitz survey report

North-western NSW and southern Qld + 2009–2010

Toorale National Park and Toorale State Conservation Area NSW Supplement



Australian Government



Australian
Biological
Resources
Study