

Stony Head Bush Blitz

Insects and Spiders

2-4 November 2020 & 15-24 March 2021

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Nomenclature and taxonomy used in this report is consistent with:

The Australian Faunal Directory (AFD)

<http://www.environment.gov.au/biodiversity/abrs/online-resources/fauna/afd/home>

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List of contributors

List of contributors to this report.			
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John Douglas	QVMAG	Honorary Research Associate; spiders	Survey/sampling; specimen preparation, preservation; & documentation; co-author
Judy Rainbird	QVMAG	Field assistant; general invertebrates	Survey/sampling; co-author

Abstract

Queen Victoria Museum and Art Gallery collected 2041 insects and spiders at the Stony Head Military Bush Blitz using a variety of passive and active methods. The bulk of the specimens were collected using an ultraviolet light, and using vehicle vibrations to attract ground species. In all 599 species were identified including 22 known but undescribed spider and insect species, and 24 species new to science (all spiders). QVMAG recorded two minor pest species, and 82 range extensions (over 20 km), with the largest being 2780 km. No threatened species were recorded. This Bush Blitz provided QVMAG with the opportunity to fill in an important spatial gap in its collections.

1. Introduction

Queen Victoria Museum and Art Gallery (QVMAG) focussed on insects and spiders during the Stony Head Bush Blitz. QVMAG has previously sampled these groups extensively from the region surrounding the Stony Head Military Range. This survey allowed us to fill in a significant spatial gap for many known species, and to contribute to the discovery of new species. Also, the dedicated time allocated to this one site allowed QVMAG to employ a number of collection methods, and to resample locations as needed which increased the taxonomic 'depth' to our sampling. Identifications were made using the QVMAG invertebrate collection, and with the help of many experts from other institutes.

2. Methods

2.1 Site selection

Sample sites were selected to 1) target specific taxa and/or 2) sample specific habitat types. Prevailing weather conditions had to be taken into account when selecting locations so as to maximise productivity (e.g. wind affected night light site selection).

2.2 Survey techniques

Four techniques were used. Firstly, hand sampling and netting (visually sighting target specimen and collecting in a vial or sweep net). This was used to target pollinators, specimens in flight and those feeding/basking on vegetation (day and night). Also, the sweep net was used to arbitrarily sweep and beat unsighted specimens from foliage. Secondly, a single malaise trap was set at survey sample site 1. Thirdly, a 250 W mercury vapour lamp (night light) was used to sample nocturnal, positively phototactic flighted and crawling insects. Lastly, QVMAG employed the 'idling ute' technique. A stationary diesel ute was left idling for about 20 minutes at most sites. The vibrations attract ground spiders and insects. This method accounted for the majority of spiders collected in the survey, and attracted insects that were unlikely to be collected using any other technique other than pitfall traps. This is an important point in that it allowed us to be selective in what was collected, and there were no vertebrate bycatch issues that pitfalls present.

2.2.1 Methods used at standard survey sites

At survey sample site 1 QVMAG deployed one malaise trap (17-24 March 2021), and the night light (2 November 2020). At both survey sites 1 and 2 QVMAG used hand and sweep net sampling. Visual hand sampling included, bark peeling on mature eucalypts (a modified icecream bucket used as the receptacle for falling specimens). Sweep netting and beating foliage was also used.

The main sample effort was in March. This is effectively the end of the season for insect and spider activity in the high latitudes. The lack of blossom at this time of year would cause pollinators to be under-represented in the sample.

2.3 Identifying the collections

QVMAG identified specimens by direct comparison with vouchers in the QVMAG collection. Staff also used the guide books or other published literature and online resources listed in the bibliography (p. 19) for identification purposes. Specimens/species unfamiliar to QVMAG staff were identified by experts from other institutions. We were fortunate to have Madalene Gianotta, PhD candidate studying parasitic wasps (Hymenoptera:Mutillidae) at the Australian National Insect Collection, visit QVMAG in early April 2021. Madalene was able to identify a number of wasps from the Stony Head Bush Blitz.

QVMAG provided high resolution images to experts in other institutions for identification. The following people assisted QVMAG:

James Lumbers, PhD Candidate (Diptera: Tachinidae), Australian National Insect Collection

Cathy Byrne, Senior Curator, Tasmanian Museum and Art Gallery (Moths)

Simon Grove, Senior Curator, Tasmanian Museum and Art Gallery (Insects)

Robert Raven, Head, Terrestrial Biodiversity & Senior Curator, Chelicerata, Queensland Museum

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Graham Milledge, Collection Manager, Arachnology, Australian Museum

Greg Anderson, unaffiliated

3. Results and Discussion

Appendix 1 lists all insects and spiders recorded during the Bush Blitz. Collections made during this Bush Blitz will result in 2041 specimens being added to QVMAG collections and the data made publicly accessible through the Atlas of Living Australia.

3.1 Un-named or not formalised taxa

There were 17 known but undescribed spider species collected from Stony Head. A further species, *Novakiella boletus* has been described during the final stages of report writing. There were four undescribed but known insect species collected, one longhorn beetle (*Strongylurus* sp. 1) and three cockroaches from two families (*Temnelytra* sp. 1, and *Balta* sp. 1 & 2).

Table 1. Putatively un-named or not formalised taxa	
Taxon	Comment
Clubionidae <i>Clubiona</i> QVMAG sp. 1	
Gnaphosidae QVMAG sp. 1	
Miturgidae <i>Argoctenus</i> QVMAG sp. 1	
Miturgidae <i>Argoctenus</i> QVMAG sp. 2	
Miturgidae <i>Argoctenus</i> QVMAG sp. 3	
Miturgidae <i>Elassoctenus</i> QVMAG sp. 1	
Salticidae <i>Prosthclina</i> QVMAG sp. 1	
Salticidae <i>Saitis</i> QVMAG sp. 1	
Salticidae <i>Saitis</i> QVMAG sp. 2	
Salticidae <i>Jotus</i> QVMAG sp. 1	
Salticidae <i>Jotus</i> QVMAG sp. 2	
Salticidae <i>Jotus</i> QVMAG sp. 3	
Sparassidae <i>Neosparassus</i> QVMAG sp. 2	
Theridiidae <i>Emertonella</i> QVMAG sp. 1	
Thomasidae <i>Sidymella</i> QVMAG sp. 1	
Zodariidae <i>Neostorena</i> QVMAG sp. 2	
Zodariidae QVMAG sp. 1	
Araneidae sp. nov. <i>Novakiella boletus</i>	August publication; see Framaneau <i>et al.</i> 2021
Cerambycidae <i>Strongylurus</i> sp. 1	
Blattidae <i>Temnelytra</i> sp. 1	
Ectobiidae <i>Balta</i> sp. 1	
Ectobiidae <i>Balta</i> sp. 2	



Above: A subsample of the putative known but not formalised spider species collected by QVMAG at Stony Head Bush Blitz. Note that Araneidae *Novakiella boletus* fitted this category until late in report writing. Not to scale. Photographs John Douglas.



Strongylurus sp. male
QVM.2021.12.1418 2 mm
Queen Victoria Museum and Art Gallery



Balta sp. 2 female
QVM.2021.12.1523 2 mm
Queen Victoria Museum and Art Gallery



Temnelytra sp.
QVM.2021.12.1481 5 mm
Queen Victoria Museum and Art Gallery



Balta sp. 1
QVM.2021.12.1527 2 mm

Above: Four putative known but unformalised insect species collected by QVMAG at the Stony Head Military Range. Photographs David Maynard.

3.2 Putative new species (new to science)

QVMAG collected specimens representing five genera and 24 species that are new to science. The jumping spiders (Salticidae) included two new genus and six species; prowling spiders (Miturgidae) included one new genus and five new species; lace-web spiders (Desidae) included one new genus and four new species; comb-footed spiders (Theridiidae) included a new genus and species; The remaining new species were distributed between families Amaurobiidae (1), Deinopidae (1), Linyphiidae (1), Lycosidae (2), Segestriidae (1) and Zodariidae (2).

No putative new insect species were identified.

Species	Comment
Amaurobiidae QVMAG sp. 1	
Deinopidae <i>Menneus</i> QVMAG sp. 1	
Desidae QVMAG gen. 1 sp. nov. 1	
Desidae QVMAG sp. 1	
Desidae QVMAG sp. 2	
Desidae QVMAG sp. 3	
Linyphiidae <i>Laperousea</i> QVMAG sp. 1	
Lycosidae <i>Artoria</i> QVMAG sp. 1	
Lycosidae QVMAG sp. 7	
Miturgidae QVMAG gen. nov. 1 sp. nov. 1	
Miturgidae QVMAG sp. 1	
Miturgidae QVMAG sp. 3	
Miturgidae QVMAG sp. 4	
Miturgidae QVMAG sp. 5	
Salticidae QVMAG gen. nov. 1 sp. nov. 1	
Salticidae QVMAG gen. nov. 2 sp. nov. 1	
Salticidae QVMAG sp. 1	
Salticidae QVMAG sp. 3	
Salticidae QVMAG sp. 4	
Salticidae <i>Simaethula</i> QVMAG sp. 1	
Segestriidae <i>Gippsicola</i> QVMAG sp. 1	
Theridiidae QVMAG gen. nov. 1 sp. nov. 1	
Zodariidae <i>Habronestes</i> QVMAG sp. 1	
Zodariidae <i>Neostorena</i> QVMAG sp. 1	



Above: A subsample of putative new species collected by QVMAG at Stony Head Military Range Bush Blitz. Not to scale. Photographs John Douglas.

3.3 Exotic and pest species

Two introduced species were identified. Firstly, the crusader bug (*Mictis profana*) was found in low numbers on *Acacia sophorae* in the supralittoral zone. This species is considered a minor pest of citrus on mainland Australia. It was first recorded in Tasmania in 2016 by QVMAG (Fearn 2016). Secondly, the whitefringed weevil (*Naupactus leucoloma*) is a South American species introduced to Tasmania in the mid 1980s. It is a pasture and root crop pest (McQuillan *et al.* 2007).

Exotic/pest species	Location sighted/observed	Indication of abundance	Comments
<i>Mictis profana</i> (Fabricius, 1803)	On <i>Acacia sophorae</i> in coastal scrub, Maitland Bay and near Black Rock Point.	Low during sampling period, known to be common in peak summer along Bass	Unlisted. First reported in Tasmania by Fearn (2016) in coastal

		St coastline to the west of Stony Head.	scrub west of Stony Head. Unclear when, where or how it arrived in Tasmania. Reportedly a minor pest of citrus on mainland Australia.
<i>Naupactus leucoloma</i> Boheman, 1840	-41.031417 146.996697 -41.029968 146.979726	Low during sampling period	Known, common agricultural pest introduced from South America

3.4 Threatened species

Species	Listing status and level (EBPC, State/Territory)	Location sighted/observed	Indication of abundance

3.5 Range extensions

QVMAG recorded 82 spider and insect range extensions. Range extensions are based on ALA preserved specimen data available as at 28 July 2021 (in the very few cases where preserved specimens were absent, human observation was used). The minimum distance considered as a range extension is 20 km. Amongst the species listed here are some that represent first records for Tasmania. Many others, like moths, are generally common but undersampled.

Species	Location sighted/observed	Distance from nearest known record (km)	Comments
<i>Salticidae Saitis mutans</i> Otto & Hill 2012	-40.993695 147.0568 -40.986542 146.9987 -40.985899 147.0025 -41.034070 147.0451 -41.042900 146.9852 -40.999303 147.0612 -40.993210 147.0547 -40.990730 147.0205 -40.988629 147.0586 -41.005270 147.0286	980 km	Previously only known from NSW. Found to be widespread across multiple sites/habitats including eucalypt woodland, coastal heath, dune scrub and <i>Leptospermum</i> forest.

Miturgidae <i>Elassoctenus harpax</i> Simon, 1909	-41.053280 147.0284 -41.046060 147.0358 -41.036480 147.0317 -41.036648 147.0199 -41.026702 147.0346 -40.999303 147.0612 -41.024330 147.0328 -41.005270 147.0286 -41.023650 147.0112	2780 km	Previously only known from SW WA. It was collected predominantly from eucalypt woodland/forest
Lycosidae <i>Venator spenceri</i> Hogg, 1900	-41.036339 147.008068 -41.030860 146.978198 -41.005270 147.02858	380 km	Widespread across SE mainland Australia. This is first Tasmanian record. Eucalypt woodland
Thomisidae <i>Isala (Stephanopsis) similis</i> Machado & Teixeira, 2021	-41.030510 147.04712	~830 km	Previously only recorded from NSW. <i>Leptospermum</i> scrub
<i>Stauralia compuncta</i> Bergroth, 1895	-41.024926 147.027484	215 km	Common but poorly sampled. On <i>Acacia</i> shrub in Eucalypt woodland
<i>Agonocheila antipodum</i> (Bates, 1867)	-41.024330 147.03282 -41.036759 147.007853 -41.047390 146.98915	210 km	Eucalypt woodland/forest
<i>Notiobia (Anisotarsus) rugosipennis</i> (Castelnau, 1867)	-41.031417 146.996697	365 km	SA and Vic distribution. First Tasmanian record. Pasture/dry creekline interface
<i>Aphanosperma orientalis</i> Britton, 1969	-41.042119 147.007558	690 km	Previously only recorded from eastern seaboard. First Tasmanian record. Eucalypt woodland
<i>Hednota acantophora</i> (Meyrick, 1882)	-41.042119 147.007558 -41.030860 146.978198	210 km	Common species but undersampled
<i>Aoplocnemis rufipes</i> Boheman, 1845	-41.015505 147.056382	205 km	Common but undersampled. <i>Leptospermum</i> scrub
<i>Cossonus praeustus</i> Redtenbacher, 1868	-41.024330 147.03282	140 km	Uncommon.

			Eucalypt forest
<i>Pelororhinus margaritaceus</i> Erichson, 1842	-40.999303 147.06123 (SSS2)	100 km	on <i>Banksia marginata</i> inflorescence; dune scrub
<i>Agrypnus variabilis</i> (Candèze, 1857)	-41.017183 147.027852 -41.036339 147.008068	70 km	Under bark; eucalypt woodland
<i>Aloa marginata</i> (Donovan, 1805)	-41.028599 147.00965	20 km	Widespread on mainland. Poorly sampled in Tasmania. Attracted to UV light; pasture/woodland interface
<i>Palaeosia bicosta</i> (Walker, 1854)	-41.042119 147.007558	80 km	Common species, undersampled in region. Attracted to UV light; eucalypt woodland
<i>Iridomyrmex bicknelli</i> Emery, 1898	-41.036750 147.00855	20 km	Common species. Eucalypt woodland
<i>Rhytidoponera victoriae</i> (E. André, 1896)	-41.028599 147.00965 -41.031873 146.996398	50 km	Common but poorly sampled species; pasture/eucalypt woodland interface
<i>Pseudofoenus spinitarsis</i> (Westwood, 1851)	-41.030510 147.04712	145 km	uncommon species. Netted off <i>Leptospermum scoparium</i> blossom
<i>Androchela newmannaria</i> (Guenée, 1857)	-41.030860 146.978198	100 km	Attracted to UV light; eucalypt woodland
<i>Authaemon stenonipha</i> Turner, 1919	-41.042119 147.007558 -41.042930 146.98537	90 km	Attracted to UV light; eucalypt woodland
<i>Casbia farinalis</i> (Rosenstock, 1885)	-41.042930 146.98537	90 km	Attracted to UV light; eucalypt woodland
<i>Cassythaphaga macarta</i> (Turner, 1919)	-41.042930 146.98537 -41.042119 147.007558	80 km	Attracted to UV light; eucalypt woodland
<i>Chlenias auctaria</i> Guenée, 1857	-41.042119 147.007558	50 km	Attracted to UV light; eucalypt woodland
<i>Chlorocoma assimilis</i> (Lucas, 1888)	-41.042930 146.98537	95 km	Attracted to UV light; eucalypt woodland
<i>Chlorocoma externa</i> (Walker, 1861)	-41.042930 146.98537	80 km	Attracted to UV light; eucalypt woodland

<i>Chlorocoma vertumnaria</i> (Guenée, 1857)	-41.042930 146.98537	80 km	Attracted to UV light; eucalypt woodland
<i>Chrysolarentia mecynata</i> (Guenée, 1857)	-41.030860 146.978198	45 km	Attracted to UV light; eucalypt woodland
<i>Crypsiphona ocultaria</i> (Donovan, 1805)	-41.042930 146.98537 -41.042119 147.007558	140 km	Attracted to UV light; eucalypt woodland
<i>Cyneoterpna wilsoni</i> (Felder & Rogenhofer, 1875)	-41.042930 146.98537	80 km	Attracted to UV light; eucalypt woodland
<i>Dichromodes ainaria</i> Guenée, 1857	-41.028599 147.00965	50 km	Attracted to UV light; pasture/eucalypt woodland interface
<i>Dichromodes confluaria</i> (Guenée, 1857)	-41.028599 147.00965	60 km	Attracted to UV light; pasture/eucalypt woodland interface
<i>Dichromodes euscia</i> Meyrick, 1890	-41.028599 147.00965	80 km	Attracted to UV light; pasture/eucalypt woodland interface
<i>Dichromodes Stilbiata</i> (Guenée, 1857)	-41.028599 147.00965	100 km	Attracted to UV light; pasture/eucalypt woodland interface
<i>Dysbatus stenodesma</i> (Lower, 1899)	-41.028599 147.00965	185 km	Attracted to UV light; pasture/eucalypt woodland interface
<i>Hypobapta percompatria</i> (Guenée, 1857)	-41.028599 147.00965 -41.042119 147.007558 -41.042930 146.98537	30 km	Attracted to UV light; eucalypt woodland
<i>Mictodoca toxenta</i> Meyrick, 1892	-41.042119 147.007558	100 km	Attracted to UV light; eucalypt woodland
<i>Mnesampela comarcha</i> Guest, 1887	-41.042119 147.007558	50 km	Attracted to UV light; eucalypt woodland
<i>Monoctenia falenaria</i> Guenée, 1857	-41.042930 146.98537 -41.042119 147.007558	30 km	Attracted to UV light; eucalypt woodland
<i>Onycodes traumataria</i> Guenée, 1857	-41.042930 146.98537	80 km	Attracted to UV light; eucalypt woodland

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<i>Palleopa innotata</i> Walker, 1866	-41.042119 147.007558	120 km	Attracted to UV light; eucalypt woodland
<i>Poecilasthena fragilis</i> Turner, 1942	-41.030860 146.978198	100 km	Attracted to UV light; eucalypt woodland
<i>Poecilasthena pulchra</i> (Doubleday, 1843)	-41.042930 146.98537	110 km	Attracted to UV light; eucalypt woodland
<i>Prasinocyma semicrocea</i> (Walker, 1861)	-41.042119 147.007558	115 km	Attracted to UV light; eucalypt woodland
<i>Rhynchopsota delogramma</i> Lower, 1903	-41.028599 147.00965 -41.030860 146.978198	100 km	Attracted to UV light; eucalypt woodland
<i>Scopula perlata</i> (Walker, 1861)	-41.042930 146.98537	65 km	Attracted to UV light; eucalypt woodland
<i>Scopula rubraria</i> (Doubleday, 1843)	-41.042930 146.98537	165 km	Attracted to UV light; eucalypt woodland
<i>Syneora cheleuta</i> (Meyrick, 1892)	-41.042119 147.007558	130 km	Attracted to UV light; eucalypt woodland
<i>Syneora mundifera</i> (Walker, 1860)	-41.042930 146.98537 -41.042119 147.007558	100 km	Attracted to UV light; eucalypt woodland
<i>Unplaced biplaga</i> (Walker, 1869)	-41.042930 146.98537 -41.042119 147.007558	60 km	Attracted to UV light; eucalypt woodland
<i>Abantiades hyalinatus</i> (Herrich-Schäffer, 1853)	-41.042930 146.98537	80 km	Attracted to UV light; eucalypt woodland
<i>Abantiades latipennis</i> Tindale, 1932	-41.042119 147.007558	55 km	Attracted to UV light; eucalypt woodland
<i>Heteropelma scaposum</i> (Morley, 1913)	-41.028599 147.00965 -40.986542 146.998716	185 km	Netted in flight in coastal scrub and pasture
<i>Lissopimpla excelsa</i> (Costa, 1864)	-41.030510 147.04712	70 km	<i>Leptospermum</i> scrub
<i>Paraguda nasuta</i> (Lewin, 1805)	-41.042930 146.98537	95 km	Attracted to UV light; eucalypt woodland
<i>Crocantthes glycina</i> Meyrick, 1904	-41.042119 147.007558 -41.042930 146.98537	220 km	Attracted to UV light; eucalypt woodland
<i>Australophyra rostrata</i> (Robineau-Desvoidy, 1830)	-41.027860 146.99973	70 km	On wallaby carcass; grassland
<i>Ephutomorpha amoenua</i> Turner, 1914	-40.986430 146.9953 -41.036750 147.00855	85 km	Rarely recorded. Dune scrubland & eucalypt woodland

<i>Ephutomorpha cordatiformis</i> Turner, 1914	-41.029968 146.979726 -41.036750 147.00855	185 km	Rarely recorded. Modified habitat & eucalypt woodland
<i>Ephutomorpha lateralis</i> (Westwood, 1843)	-41.005270 147.02858	215 km	Rarely recorded. Eucalypt woodland
<i>Agrotis infusa</i> (Boisduval, 1832)	-41.028599 147.00965	95 km	Attracted to UV light; pasture/eucalypt woodland interface
<i>Chasmina pulchra</i> (Walker, 1858)	-41.042930 146.98537	530 km	Attracted to UV light; eucalypt woodland
<i>Epicoma melanospila</i> (Wallengren, 1860)	-41.042930 146.98537	50 km	Attracted to UV light; eucalypt woodland
<i>Phaeophlebosia phurcifera</i> (Walker, 1854)	-41.042119 147.007558 -41.042930 146.98537	65 km	Attracted to UV light; eucalypt woodland
<i>Garrha demotica</i> (Meyrick, 1883)	-41.042119 147.007558 -41.030860 146.978198	600 km	Attracted to UV light; eucalypt woodland
<i>Philobota ?olympias</i> Meyrick, 1889	-41.028599 147.00965	100 km	Attracted to UV light; pasture/eucalypt woodland interface
<i>Idiodes apicata</i> Guenée, 1857	-41.028599 147.00965	60 km	Attracted to UV light; pasture/eucalypt woodland interface
<i>Oenosandra boisduvalii</i> Newman, 1856	-41.042930 146.98537	210 km	Attracted to UV light; eucalypt woodland
<i>Pharochilus rugiceps</i> (Hope & Westwood, 1845)	-41.023650 147.0112 -41.026702 147.034622	50 km	Common species, undersampled. Under log; eucalypt woodland
<i>Anaxilaus oliva</i> (Van Duzee, 1905)	-41.031417 146.996697	140 km	First record for mainland Tasmania. On ground; pasture/dry creek line interface
<i>Auplopus provida</i> (Turner, 1910)	-41.036750 147.00855 -41.036759 147.007853 -41.042930 146.98537	1750 km	Common species but undersampled. Outside burrow in low earth bank beside road; eucalypt woodland
<i>Cebysa leucotelus</i> Walker, 1854	-41.036759 147.007853	130 km	Common but undersampled in region.

			Crossing track; eucalypt woodland
<i>Stericta bryomima</i> (Turner, 1913)	-41.030860 146.978198	50 km	Attracted to UV light; eucalypt woodland
<i>Stericta carbonalis</i> (Guenée, 1854)	-41.030860 146.978198 -41.042119 147.007558	165 km	Attracted to UV light; eucalypt woodland
<i>Olisthaena nitida</i> Erichson, 1842	-41.031053 146.979681	70 km	under loose bark on fallen eucalypt; regenerating pasture
<i>Pterohelaeus peltatus</i> (Erichson, 1842)	-41.029968 146.979726	50 km	under loose bark on fallen eucalypt; modified habitat
<i>Titaena columbina</i> Erichson, 1842	-41.042119 147.007558	20 km	Common, undersampled; Under bark on fallen eucalypt; eucalypt woodland
<i>Titaena tasmanica</i> Champion, 1894	-41.031873 146.996398 -41.036759 147.007853 -41.030860 146.978198	20 km	Common, undersampled; Under bark on eucalypt; eucalypt woodland
<i>Caedicia simplex</i> (Walker, 1869)	-40.993210 147.05469 -41.053280 147.02843	50 km	common, undersampled
<i>Coptaspis lateralis</i> (Erichson, 1842)	-41.030510 147.04712 -41.042119 147.007558	125 km	common, undersampled; eucalypt woodland
<i>Zaprochilus australis</i> (Brullé, 1835)	-41.009222 147.015504	30 km	common, undersampled; eucalypt woodland
<i>Moerarchis australasiella</i> (Donovan, 1805)	-41.028599 147.00965	130 km	common, undersampled; grassland & coastal heath with Xanthorrhoea (larval host)
<i>Meryx rugosa</i> Latreille, 1807	-41.024330 147.03282	80 km	Under bark on fallen eucalypt; eucalypt forest

3.6 Genetic information

No genetic samples were collected.

4. Information on species lists

QVMAG collected 2041 specimens, representing 599 spider and insect species.

Spiders

QVMAG collected 573 arachnid specimens from which 340 could be identified to formalised species (79 species). Thirty-one specimens were juvenile and could not be identified. The balance (202) represent putatively un-named or not formalised taxa (18 species) and putative

new genus and species (24). A further two 'species' (?*Tasmanobrochus* sp. and ?*Tasmarubius* sp.) proved impossible to confidently assign a recognised, putative un-named or putative new genus/species. This quandary is not uncommon in spider taxonomy.

QVMAG has in-house expertise, and a strong national/international network of spider taxonomists. This made it relatively easy to complete the identification. Saying that, this sample highlights the opportunity for taxonomic work to be done on spiders - one in four species is unformalised/new to science.

Insects

QVMAG collected 1468 insects representing 12 orders, 114 families, 270 genera, 476 species of which 224 could be identified to species. QVMAG used its existing collection and professional network to identify specimens. However, the list contains many specimens that may be identified to species level with more resources available to QVMAG. It is likely that QVMAG will be able to put many names to many species if ANIC was visited. This may be an option in a post-COVID world.

At least four insect species represent putative known but not formalised species. We did not record any putative new species.

Registration

The QVMAG Stony Head Bush Blitz specimens have been allocated unique registration numbers in the following ranges:

Spiders
QVM.2020.13.0356-0507
QVM.2021.13.0201-0621
Insects
QVM.2020.12.2558-2684
QVM.2021.12.0073-0187
QVM.2021.12.0201-0300
QVM.2021.12.0994-2061
QVM.2021.12.2127-2185

5. Information for land managers

The Stony Head Military Range has large tracts of coastal heath and scrub, *Leptospermum* scrub and dry eucalypt woodland that are important habitats for invertebrate diversity. Appropriate land management practices, including controlled burning and the restriction of vehicle and pedestrian traffic to formed tracks, and the minimal use of agrichemicals in/near natural habitats is recommended. Also, it is important that coarse woody debris in the form of fallen limbs and trees be left *in situ* to support saproxylic beetles and cohabitants.

6. Conclusions

The Stony Head Bush Blitz provided QVMAG with the opportunity to sample insects and spiders at a unique and restricted-access location within a region that we have heavily sampled over the past five years. With the exception of moths, the insect assemblage mostly reflected that of the surrounding areas, reflecting the similarity in habitats inside and outside the site. Saying that, the number of species with significant range extensions (82 species greater than 20 km) reflects benefits of the intensive nature of the Bush Blitz program. This Bush Blitz was the first time that QVMAG has actively sampled moths, and based on ALA data, many species are poorly sampled or not previously sampled in northern Tasmania. The spider diversity was exceptional with 25% of species unformalised or new to science. QVMAG will continue to work with the taxonomic community to describe these new species.

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Appendix 1. List of insects and spiders recorded during the Stony Head Bush Blitz						
Family	Species	Common name	Putative new species	Threatened (EPBC Act)	Threatened (State Act)	Exotic / pest
Spiders						
Amaurobiidae	? <i>Tasmabrochus</i> sp.	forest hunter spider	No	No	No	No
Amaurobiidae	? <i>Tasmarubrius</i> sp.	forest hunter spider	No	No	No	No
Amaurobiidae	Amaurobiidae QVMAG sp. 1	forest hunter spider	Yes	No	No	No
Araneidae	Araneidae sp. nov. <i>Novakiella boletus</i> (in print)	orb-weaving spider	No	No	No	No
Araneidae	<i>Araneus circuliisparsus</i> (Keyserlingi, 1887)	orb-weaving spider	No	No	No	No
Araneidae	<i>Araneus hamiltoni</i> (Rainbow, 1893)	orb-weaving spider	No	No	No	No
Araneidae	<i>Araneus lodicula</i> (Keyserlingi, 1887)	orb-weaving spider	No	No	No	No
Araneidae	<i>Araneus sydneyicus</i> (Keyserlingi, 1887)	orb-weaving spider	No	No	No	No
Araneidae	<i>Austracantha minax</i> (Thorell, 1859)	orb-weaving spider	No	No	No	No
Araneidae	<i>Backobourkia brouni</i> (Urquhart, 1885)	orb-weaving spider	No	No	No	No
Araneidae	<i>Celaenia excavata</i> (L. Koch, 1867)	orb-weaving spider	No	No	No	No
Araneidae	<i>Cyclosa fuliginata</i> (L. Koch, 1872)	orb-weaving spider	No	No	No	No
Araneidae	<i>Eriophora pustulosa</i> (Walckenaer, 1842)	orb-weaving spider	No	No	No	No
Araneidae	<i>Eriophora transmarina</i> (Keyserlingi 1865)	orb-weaving spider	No	No	No	No
Araneidae	<i>Phonognatha graeffei</i> (Keyserlingi 1865)	orb-weaving spider	No	No	No	No
Araneidae	<i>Plebs bradleyi</i> (Keyserlingi, 1887)	orb-weaving spider	No	No	No	No
Arkyidae	<i>Arkys walckenaeri</i> Simon, 1879	orb-weaving spider	No	No	No	No
Bothriuridae	<i>Cercophonius squama</i> (Gervais, 1844)	scorpion	No	No	No	No
Clubionidae	<i>Clubiona elaphines</i> Urquhart, 1893	sac spider	No	No	No	No
Clubionidae	<i>Clubiona</i> QVMAG sp. 1	sac spider	No	No	No	No
Corinnidae	<i>Battalus byrneae</i> Raven, 2015	ant-mimic spider	No	No	No	No
Corinnidae	<i>Nyssus albopunctatus</i> (Hogg, 1896)	ant-mimic spider	No	No	No	No
Corinnidae	<i>Nyssus coloripes</i> (Walckenaer, 1805)	ant-mimic spider	No	No	No	No
Corinnidae	<i>Poecilopta zbigniewi</i> Raven, 2015	ant-mimic spider	No	No	No	No
Deinopidae	<i>Menneus</i> QVMAG sp. 1	net-casting spider	Yes	No	No	No
Desidae	<i>Badumna insignis</i> (L. Koch, 1872)	lace-web spider	No	No	No	No
Desidae	<i>Badumna longinqua</i> (L. Koch, 1867)	lace-web spider	No	No	No	No

Family	Species	Common name	Putative new species	Threatened (EPBC Act)	Threatened (State Act)	Exotic / pest
Desidae	<i>Corasoides australis</i> Butler, 1929	lace-web spider	No	No	No	No
Desidae	Desidae QVMAG gen. 1 sp. nov. 1	lace-web spider	Yes	No	No	No
Desidae	Desidae QVMAG sp. 1	lace-web spider	Yes	No	No	No
Desidae	Desidae QVMAG sp. 2	lace-web spider	Yes	No	No	No
Desidae	Desidae QVMAG sp. 3	lace-web spider	Yes	No	No	No
Desidae	<i>Phryganoporus candidus</i> (L. Koch, 1872)	lace-web spider	No	No	No	No
Eutichuridae	<i>Cheiracanthium mordax</i> L. Koch, 1866	sac spider	No	No	No	No
Gnaphosidae	<i>Ariadne segmentata</i> Simon, 1893	ground spider	No	No	No	No
Gnaphosidae	<i>Encoptarthria griseus</i> (L. Koch, 1873)	ground spider	No	No	No	No
Gnaphosidae	Gnaphosidae QVMAG sp. 1	ground spider	No	No	No	No
Gnaphosidae	<i>Intruda signata</i> (Hogg, 1900)	ground spider	No	No	No	No
Lamponidae	<i>Lampona lomond</i> Platnick, 2000	white-tailed spider	No	No	No	No
Linyphiidae	<i>Laperousea</i> QVMAG sp. 1	dwarf spider	Yes	No	No	No
Lycosidae	<i>Artoria albopilata</i> (Urquhart, 1893)	wolf spider	No	No	No	No
Lycosidae	<i>Artoria berenice</i> (L. Koch, 1877)	wolf spider	No	No	No	No
Lycosidae	<i>Artoria quadrata</i> Framenau, 2002	wolf spider	No	No	No	No
Lycosidae	<i>Artoria</i> QVMAG sp. 1	wolf spider	Yes	No	No	No
Lycosidae	<i>Artoria victoriensis</i> Framenau, Gotch & Austin, 2006	wolf spider	No	No	No	No
Lycosidae	<i>Artoriopsis expolita</i> (L. Koch, 1877)	wolf spider	No	No	No	No
Lycosidae	<i>Artoriopsis joergi</i> Framenau, 2007	wolf spider	No	No	No	No
Lycosidae	<i>Artoriopsis melissae</i> Framenau, 2007	wolf spider	No	No	No	No
Lycosidae	Lycosidae QVMAG sp. 7	wolf spider	Yes	No	No	No
Lycosidae	<i>Tasmanicosa subrufa</i> (Karsch, 1878)	wolf spider	No	No	No	No
Lycosidae	<i>Tetrallycosa oraria</i> (L. Koch, 1876)	wolf spider	No	No	No	No
Lycosidae	<i>Venator spenceri</i> Hogg, 1900	wolf spider	No	No	No	No
Lycosidae	<i>Venatrix funesta</i> (C.L. Koch, 1847)	wolf spider	No	No	No	No
Lycosidae	<i>Venatrix penola</i> Framenau & Vink, 2001	wolf spider	No	No	No	No
Lycosidae	<i>Venatrix pseudospeciosa</i> Framenau & Vink, 2001	wolf spider	No	No	No	No
Miturgidae	<i>Argoctenus</i> QVMAG sp. 1	prowling spider	No	No	No	No
Miturgidae	<i>Argoctenus</i> QVMAG sp. 2	prowling spider	No	No	No	No

Family	Species	Common name	Putative new species	Threatened (EPBC Act)	Threatened (State Act)	Exotic / pest
Miturgidae	<i>Argoctenus</i> QVMAG sp. 3	prowling spider	No	No	No	No
Miturgidae	<i>Elassoctenus harpax</i> Simon, 1909	prowling spider	No	No	No	No
Miturgidae	<i>Elassoctenus</i> QVMAG sp. 1	prowling spider	No	No	No	No
Miturgidae	<i>Mituliodon tarantulus</i> (L. Koch, 1873)	prowling spider	No	No	No	No
Miturgidae	<i>Miturga agelenina</i> Simon, 1909	prowling spider	No	No	No	No
Miturgidae	Miturgidae QVMAG gen. nov. 1 sp. nov. 1	prowling spider	Yes	No	No	No
Miturgidae	Miturgidae QVMAG sp. 1	prowling spider	Yes	No	No	No
Miturgidae	Miturgidae QVMAG sp. 3	prowling spider	Yes	No	No	No
Miturgidae	Miturgidae QVMAG sp. 4	prowling spider	Yes	No	No	No
Miturgidae	Miturgidae QVMAG sp. 5	prowling spider	Yes	No	No	No
Nemesiidae	<i>Chenistonia trevallynia</i> Hickman, 1926	wishbone trapdoor spider	No	No	No	No
Nicodamidae	<i>Ambicodamus crinitus</i> (L. Koch, 1872)	black and red spider	No	No	No	No
Nicodamidae	<i>Ambicodamus sororius</i> Harvey, 1995	black and red spider	No	No	No	No
Salticiade	<i>Apricia jovialis</i> (L. Koch, 1879)	jumping spider	No	No	No	No
Salticiade	<i>Helpis minitabunda</i> (L. Koch, 1880)	jumping spider	No	No	No	No
Salticiade	<i>Jotus braccatus</i> (L. Koch, 1881)	jumping spider	No	No	No	No
Salticiade	<i>Jotus frosti</i> Peckham & Peckham, 1901	jumping spider	No	No	No	No
Salticiade	<i>Jotus</i> QVMAG sp. 1	jumping spider	No	No	No	No
Salticiade	<i>Jotus</i> QVMAG sp. 2	jumping spider	No	No	No	No
Salticiade	<i>Jotus</i> QVMAG sp. 3	jumping spider	No	No	No	No
Salticiade	<i>Maratus pavonis</i> (Dunn, 1947)	jumping spider	No	No	No	No
Salticiade	<i>Maratus plumosus</i> Otto & Hill, 2013	jumping spider	No	No	No	No
Salticiade	<i>Maratus prozinskii</i> Waldock, 2015	jumping spider	No	No	No	No
Salticiade	<i>Myrmarachne luctuosa</i> (L. Koch, 1879)	jumping spider	No	No	No	No
Salticiade	<i>Ocrisiona leucocomis</i> (L. Koch, 1879)	jumping spider	No	No	No	No
Salticiade	<i>Opisthoncus unicolor</i> L. Koch, 1881	jumping spider	No	No	No	No
Salticiade	<i>Prostheclina</i> QVMAG sp. 1	jumping spider	No	No	No	No
Salticiade	<i>Prostheclina amplior</i> Richardson & Zabka, 2007	jumping spider	No	No	No	No
Salticiade	<i>Prostheclina basilonesa</i> Richardson & Zabka, 2007	jumping spider	No	No	No	No
Salticiade	<i>Saitis mutans</i> Otto & Hill, 2012	jumping spider	No	No	No	No

Family	Species	Common name	Putative new species	Threatened (EPBC Act)	Threatened (State Act)	Exotic / pest
Salticiade	<i>Saitis</i> QVMAG sp. 1	jumping spider	No	No	No	No
Salticiade	<i>Saitis</i> QVMAG sp. 2	jumping spider	No	No	No	No
Salticiade	Salticidae QVMAG gen. 1 sp. nov. 1	jumping spider	Yes	No	No	No
Salticiade	Salticidae QVMAG gen. nov. 2 sp. nov 1	jumping spider	Yes	No	No	No
Salticiade	Salticidae QVMAG sp. 1	jumping spider	Yes	No	No	No
Salticiade	Salticidae QVMAG sp. 3	jumping spider	Yes	No	No	No
Salticiade	Salticidae QVMAG sp. 4	jumping spider	Yes	No	No	No
Salticiade	<i>Servaea incana</i> (Karsch, 1878)	jumping spider	No	No	No	No
Salticiade	<i>Simaethula</i> QVMAG sp. 1	jumping spider	Yes	No	No	No
Salticiade	<i>Sondra aurea</i> (L. Koch, 1880)	jumping spider	No	No	No	No
Segestriidae	<i>Gippsicola</i> QVMAG sp. 1	tube-dwelling spider	Yes	No	No	No
Sparassidae	<i>Neosparassus diana</i> (L. Koch, 1875)	huntsman spider	No	No	No	No
Sparassidae	<i>Delena cancerides</i> Walckenaer, 1837	huntsman spider	No	No	No	No
Sparassidae	<i>Delena spenceri</i> (Hogg, 1903)	huntsman spider	No	No	No	No
Sparassidae	<i>Neosparassus patellatus</i> (Karsch, 1878)	huntsman spider	No	No	No	No
Sparassidae	<i>Neosparassus</i> QVMAG sp. 2	huntsman spider	No	No	No	No
Stiphidiidae	<i>Stiphidion facetum</i> Simon, 1902	sheet-web spider	No	No	No	No
Theridiidae	<i>Cryptachaea veruculata</i> (Urquhart, 1886)	comb-footed spider	No	No	No	No
Theridiidae	<i>Emertonella</i> QVMAG sp. 1	comb-footed spider	No	No	No	No
Theridiidae	<i>Steatoda nasata</i> (Chrysanthus, 1975)	comb-footed spider	No	No	No	No
Theridiidae	Theridiidae QVMAG gen. nov 1 sp. nov 1	comb-footed spider	Yes	No	No	No
Thomasidae	<i>Sidymella longipes</i> (L. Koch, 1874)	crab spider	No	No	No	No
Thomasidae	<i>Sidymella</i> QVMAG sp. 1	crab spider	No	No	No	No
Thomasidae	<i>Stephanopis cambridgei</i> Thorell, 1870	crab spider	No	No	No	No
Thomasidae	<i>Stephanopis lata</i> O.Pl.-Cambridge, 1869	crab spider	No	No	No	No
Thomasidae	<i>Stephanopis nigra</i> O.Pl.-Cambridge, 1869	crab spider	No	No	No	No
Thomasidae	<i>Stephanopis similis</i> Machado, Teixeira & Milledge, 2019	crab spider	No	No	No	No
Thomasidae	<i>Tmarus marmoreus</i> (L. Koch, 1876)	crab spider	No	No	No	No
Toxopidae	<i>Laestrygones setosus</i> Hickman, 1969	toxopsoides spider	No	No	No	No
Trochanteriidae	<i>Hemicloea tasmani</i> Dalmas, 1917	trochanter spider	No	No	No	No

Family	Species	Common name	Putative new species	Threatened (EPBC Act)	Threatened (State Act)	Exotic / pest
Trochanteriidae	<i>Trachycosmus sculptilis</i> Simon, 1893	trochanter spider	No	No	No	No
Zodariidae	<i>Habronestes</i> QVMAG sp. 1	ant spider	Yes	No	No	No
Zodariidae	<i>Habronestes tasmaniensis</i> Baehr & Raven, 2009	ant spider	No	No	No	No
Zodariidae	<i>Neostorena</i> QVMAG sp. 1	ant spider	Yes	No	No	No
Zodariidae	<i>Neostorena</i> QVMAG sp. 2	ant spider	No	No	No	No
Zodariidae	Zodariidae QVMAG sp. 1	ant spider	No	No	No	No
Insects						
Blattodea						
Blaberidae	<i>Calolampra</i> QVMAG sp. 1	cockroach	No	No	No	No
Blattidae	<i>Platyzosteria biglumis</i> (Saussure, 1864)	cockroach	No	No	No	No
Blattidae	<i>Platyzosteria melanaria</i> (Erichson, 1842)	cockroach	No	No	No	No
Blattidae	<i>Temnelytra</i> QVMAG sp. 1	cockroach	No	No	No	No
Ectobiidae	<i>Balta</i> QVMAG sp. 1	cockroach	No	No	No	No
Ectobiidae	<i>Balta</i> QVMAG sp. 2	cockroach	No	No	No	No
Ectobiidae	<i>Choristima</i> QVMAG sp. 1	cockroach	No	No	No	No
Coleoptera						
Aradidae	<i>Aneurus</i> QVMAG sp. 1	flat bug	No	No	No	No
Bothriideridae	Bothriideridae QVMAG sp. 1	dry bark beetle	No	No	No	No
Bothriideridae	Bothriideridae QVMAG sp. 2	dry bark beetle	No	No	No	No
Carabidae	<i>Adelotopus</i> QVMAG sp. 1	ground beetle	No	No	No	No
Carabidae	<i>Agonocheila antipodum</i> (Bates, 1867)	ground beetle	No	No	No	No
Carabidae	<i>Amblytelus curtus</i> (Fabricius, 1801)	ground beetle	No	No	No	No
Carabidae	<i>Anomotarus illawarrae</i> (Macleay, 1873)	ground beetle	No	No	No	No
Carabidae	<i>Chlaenius australis</i> Dejean, 1831	ground beetle	No	No	No	No
Carabidae	Harpalinae QVMAG sp. 1	ground beetle	No	No	No	No
Carabidae	Harpalinae QVMAG sp. 10	ground beetle	No	No	No	No
Carabidae	Harpalinae QVMAG sp. 11	ground beetle	No	No	No	No
Carabidae	Harpalinae QVMAG sp. 2	ground beetle	No	No	No	No
Carabidae	Harpalinae QVMAG sp. 3	ground beetle	No	No	No	No
Carabidae	Harpalinae QVMAG sp. 4	ground beetle	No	No	No	No

Family	Species	Common name	Putative new species	Threatened (EPBC Act)	Threatened (State Act)	Exotic / pest
Carabidae	Harpalinae QVMAG sp. 5	ground beetle	No	No	No	No
Carabidae	Harpalinae QVMAG sp. 6	ground beetle	No	No	No	No
Carabidae	Harpalinae QVMAG sp. 7	ground beetle	No	No	No	No
Carabidae	Harpalinae QVMAG sp. 8	ground beetle	No	No	No	No
Carabidae	Harpalinae QVMAG sp. 9	ground beetle	No	No	No	No
Carabidae	<i>Homethes guttifer</i> Germar, 1848	ground beetle	No	No	No	No
Carabidae	<i>Notiobia (Anisotarsus) rugosipennis</i> (Castelnau, 1867)	ground beetle	No	No	No	No
Carabidae	<i>Notonomus politulus</i> (Chaudoir, 1865)	ground beetle	No	No	No	No
Carabidae	<i>Oodes modestus</i> Castelnau, 1867	ground beetle	No	No	No	No
Carabidae	<i>Promecoderus</i> QVMAG sp. 1	ground beetle	No	No	No	No
Carabidae	<i>Prosopogmus chalybeipennis</i> (Chaudoir, 1843)	ground beetle	No	No	No	No
Carabidae	<i>Sarothrocrepis corticalis</i> (Fabricius, 1801)	ground beetle	No	No	No	No
Carabidae	<i>Sarothrocrepis gravis</i> (Blackburn, 1901)	ground beetle	No	No	No	No
Carabidae	<i>Sarothrocrepis inquinata</i> (Erichson, 1842)	ground beetle	No	No	No	No
Carabidae	<i>Sarothrocrepis</i> QVMAG sp. 1	ground beetle	No	No	No	No
Carabidae	<i>Scaraphites rotundipennis</i> (Dejean, 1825)	ground beetle	No	No	No	No
Carabidae	<i>Scopodes ovipennis</i> Baehr, 2010	ground beetle	No	No	No	No
Carabidae	<i>Scopodes sexpunctus</i> (Newman, 1842)	ground beetle	No	No	No	No
Carabidae	<i>Trigonothops</i> QVMAG sp. 1	ground beetle	No	No	No	No
Cerambycidae	<i>Ancita</i> cf. <i>crocogaster</i> (Boisduval, 1835)	longhorn beetle	No	No	No	No
Cerambycidae	<i>Ancita marginicollis</i> (Boisduval, 1835)	longhorn beetle	No	No	No	No
Cerambycidae	<i>Aphanosperma orientalis</i> Britton, 1969	longhorn beetle	No	No	No	No
Cerambycidae	<i>Bethelium diversicorne</i> (White, 1846)	longhorn beetle	No	No	No	No
Cerambycidae	<i>Disterna canosa</i> (Erichson, 1842)	longhorn beetle	No	No	No	No
Cerambycidae	<i>Dorcadida bilocularis</i> White, 1846	longhorn beetle	No	No	No	No
Cerambycidae	<i>Enchoptera apicalis</i> Saunders, 1850	longhorn beetle	No	No	No	No
Cerambycidae	<i>Hesthesis cingulatus</i> (Kirby, 1818)	longhorn beetle	No	No	No	No
Cerambycidae	<i>Phacodes personatus</i> Erichson, 1842	longhorn beetle	No	No	No	No
Cerambycidae	<i>Phlyctaenodes pustulosa</i> Newman, 1840	longhorn beetle	No	No	No	No
Cerambycidae	<i>Probatodes plumula</i> (Newman, 1851)	longhorn beetle	No	No	No	No

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Cerambycidae	<i>Stenoderus suturalis</i> (Olivier, 1795)	longhorn beetle	No	No	No	No
Cerambycidae	<i>Strongylurus</i> QVMAG sp. 1	longhorn beetle	No	No	No	No
Chrysomelidae	<i>Aporocera</i> QVMAG sp. 1	leaf beetle	No	No	No	No
Chrysomelidae	<i>Cadmus (Cadmus) crucicollis</i> (Boisduval, 1835)	leaf beetle	No	No	No	No
Chrysomelidae	<i>Chaetocnema</i> QVMAG sp. 1	leaf beetle	No	No	No	No
Chrysomelidae	<i>Dermestes (Dermestinus) maculatus</i> DeGeer, 1774	leaf beetle	No	No	No	No
Chrysomelidae	Galerucinae QVMAG sp. 1	leaf beetle	No	No	No	No
Chrysomelidae	<i>Paropsides</i> QVMAG sp. 1	leaf beetle	No	No	No	No
Chrysomelidae	<i>Paropsis aegrota</i> Boisduval, 1835	leaf beetle	No	No	No	No
Chrysomelidae	<i>Paropsis deboeri</i> Selman, 1983	leaf beetle	No	No	No	No
Chrysomelidae	<i>Paropsisterna lineata</i> (Marsham, 1808)	leaf beetle	No	No	No	No
Chrysomelidae	<i>Paropsisterna morio</i> (Fabricius, 1787)	leaf beetle	No	No	No	No
Chrysomelidae	<i>Peltoschema orphana</i> (Erichson, 1842)	leaf beetle	No	No	No	No
Cleridae	<i>Eleale</i> QVMAG sp. 1	checkered beetle	No	No	No	No
Cleridae	<i>Eunatalis porcata</i> (Fabricius, 1787)	checkered beetle	No	No	No	No
Cleridae	<i>Heteronyx</i> QVMAG sp. 1	checkered beetle	No	No	No	No
Cleridae	<i>Heteronyx</i> QVMAG sp. 2	checkered beetle	No	No	No	No
Cleridae	<i>Neoscrobiger patricius</i> (Klug, 1842)	checkered beetle	No	No	No	No
Cleridae	<i>Pylus fatuus</i> (Newman, 1841)	checkered beetle	No	No	No	No
Coccinellidae	<i>Coccinella transversalis</i> Fabricius, 1781	ladybug	No	No	No	No
Coccinellidae	<i>Harmonia conformis</i> (Boisduval, 1835)	ladybug	No	No	No	No
Coleoptera	Coleoptera unplaced QVMAG 1	beetle	No	No	No	No
Coleoptera	Coleoptera unplaced QVMAG 2	beetle	No	No	No	No
Coleoptera	Coleoptera unplaced QVMAG 3	beetle	No	No	No	No
Coleoptera	Coleoptera unplaced QVMAG 4	beetle	No	No	No	No
Curculionidae	<i>Acantholophus</i> QVMAG sp. 1	weevil	No	No	No	No
Curculionidae	<i>Acantholophus</i> QVMAG sp. 2	weevil	No	No	No	No
Curculionidae	<i>Aoplocnemis rufipes</i> Boheman, 1845	weevil	No	No	No	No
Curculionidae	<i>Cossonus praeustus</i> Redtenbacher, 1868	weevil	No	No	No	No
Curculionidae	<i>Cossonus</i> QVMAG sp. 1	weevil	No	No	No	No

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Curculionidae	Curculionidae QVMAG sp. 1	weevil	No	No	No	No
Curculionidae	Curculionidae QVMAG sp. 10	weevil	No	No	No	No
Curculionidae	Curculionidae QVMAG sp. 2	weevil	No	No	No	No
Curculionidae	Curculionidae QVMAG sp. 3	weevil	No	No	No	No
Curculionidae	Curculionidae QVMAG sp. 4	weevil	No	No	No	No
Curculionidae	Curculionidae QVMAG sp. 5	weevil	No	No	No	No
Curculionidae	Curculionidae QVMAG sp. 6	weevil	No	No	No	No
Curculionidae	Curculionidae QVMAG sp. 7	weevil	No	No	No	No
Curculionidae	Curculionidae QVMAG sp. 8	weevil	No	No	No	No
Curculionidae	Curculionidae QVMAG sp. 9	weevil	No	No	No	No
Curculionidae	Gonipterus QVMAG sp. 1	weevil	No	No	No	No
Curculionidae	<i>Gonipterus</i> QVMAG sp. 2	weevil	No	No	No	No
Curculionidae	<i>Leptopius duponti</i> (Boisduval, 1835)	weevil	No	No	No	No
Curculionidae	<i>Merimnetes</i> QVMAG sp. 1	weevil	No	No	No	No
Curculionidae	<i>Meriphys</i> QVMAG sp. 1	weevil	No	No	No	No
Curculionidae	<i>Naupactus leucoloma</i> Boheman, 1840	weevil	No	No	No	Yes
Curculionidae	<i>Pelororhinus margaritaceus</i> Erichson, 1842	weevil	No	No	No	No
Curculionidae	<i>Rhinaria granulosa</i> (Fåhraeus, 1842)	weevil	No	No	No	No
Curculionidae	<i>Sphinctobelus</i> QVMAG sp. 1	weevil	No	No	No	No
Dyticidae	<i>Cybister tripunctatus</i> (Olivier, 1795)	diving beetle	No	No	No	No
Dyticidae	<i>Hyderodes schuckardi</i> Hope, 1838	diving beetle	No	No	No	No
Dyticidae	<i>Rhantus suturalis</i> (W.S. Macleay, 1825)	diving beetle	No	No	No	No
Dyticidae	<i>Sternopriscus</i> QVMAG sp. 1	diving beetle	No	No	No	No
Elatridae	<i>Agrypnus</i> QVMAG sp. 1	click beetle	No	No	No	No
Elatridae	<i>Agrypnus</i> QVMAG sp. 2	click beetle	No	No	No	No
Elatridae	<i>Agrypnus variabilis</i> (Candèze, 1857)	click beetle	No	No	No	No
Elatridae	<i>Conoderus</i> QVMAG sp. 1	click beetle	No	No	No	No
Elatridae	<i>Conoderus</i> QVMAG sp. 2	click beetle	No	No	No	No
Elatridae	<i>Conoderus</i> QVMAG sp. 3	click beetle	No	No	No	No
Elatridae	<i>Conoderus</i> QVMAG sp. 4	click beetle	No	No	No	No

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Elatridae	<i>Elatichrosis exarata</i> (Candèze, 1863)	click beetle	No	No	No	No
Eucnemidae	Eucnemidae QVMAG sp. 1	click beetle	No	No	No	No
Geotrupidae	<i>Geotrupes spiniger</i> Marsham, 1802	dung beetle	No	No	No	No
Histeridae	<i>Saprinus</i> QVMAG sp. 1	clown beetle	No	No	No	No
Hydrophilidae	Hydrophilidae QVMAG sp. 1	water beetle	No	No	No	No
Hydrophilidae	<i>Limnoxenus zealandicus</i> (Broun, 1880)	water beetle	No	No	No	No
Lucanidae	<i>Ceratognathus niger</i> Westwood, 1838	stag beetle	No	No	No	No
Lucanidae	<i>Lamprima aurata</i> Latreille, 1817	stag beetle	No	No	No	No
Lucanidae	<i>Lissotes launcestoni</i> Westwood, 1871	stag beetle	No	No	No	No
Lucanidae	<i>Syndesus cornutus</i> (Fabricius, 1801)	stag beetle	No	No	No	No
Meloidae	<i>Palaestra cyanipennis</i> (Pascoe, 1860)	blister beetle	No	No	No	No
Melyridae	<i>Dicranolaius cinctus</i> (Redtenbacher, 1867)	soft-wing flower beetle	No	No	No	No
Mordellidae	<i>Mordella</i> QVMAG sp. 1	pin-tail beetle	No	No	No	No
Passalidae	<i>Pharochilus rugiceps</i> (Hope & Westwood, 1845)	bess beetle	No	No	No	No
Ptinidae	<i>Ptinus</i> QVMAG sp. 1	spider beetle	No	No	No	No
Rhipiceridae	<i>Rhipicerca (Agathorhipis) femorata</i> Kirby, 1818	fan horned beetle	No	No	No	No
Scarabaeidae	<i>Adoryphorus coulonii</i> (Burmeister, 1847)	scarab beetle	No	No	No	No
Scarabaeidae	Aphodiinae QVMAG sp. 1	scarab beetle	No	No	No	No
Scarabaeidae	<i>Cheiroplatys latipes</i> (Guérin-Méneville, 1831)	scarab beetle	No	No	No	No
Scarabaeidae	<i>Colpochila obesa</i> (Blanchard, 1850)	scarab beetle	No	No	No	No
Scarabaeidae	<i>Cryptodus tasmannianus</i> Westwood, 1841	scarab beetle	No	No	No	No
Scarabaeidae	<i>Heteronyx nigella</i> (Erichson, 1842)	scarab beetle	No	No	No	No
Scarabaeidae	<i>Liparetrus atratus</i> Burmeister, 1855	scarab beetle	No	No	No	No
Scarabaeidae	<i>Omorgus (Omorgus) australasiae</i> (Erichson, 1842)	scarab beetle	No	No	No	No
Scarabaeidae	<i>Onthophagus australis</i> Guérin-Méneville, 1838	scarab beetle	No	No	No	No
Scarabaeidae	<i>Onthophagus binodis</i> Thunberg, 1818	scarab beetle	No	No	No	No
Scarabaeidae	<i>Onthophagus posticus</i> Erichson, 1842	scarab beetle	No	No	No	No
Scarabaeidae	<i>Onthophagus pronus</i> Erichson, 1842	scarab beetle	No	No	No	No
Scarabaeidae	<i>Onthophagus</i> QVMAG sp. 1	scarab beetle	No	No	No	No
Scarabaeidae	<i>Scitala</i> QVMAG sp.1	scarab beetle	No	No	No	No

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Scarabaeidae	<i>Scitala</i> QVMAG sp.2	scarab beetle	No	No	No	No
Scarabaeidae	<i>Scitala</i> QVMAG sp.3	scarab beetle	No	No	No	No
Scarabaeidae	<i>Scitala</i> QVMAG sp.4	scarab beetle	No	No	No	No
Scirtidae	<i>Pictacara crassus</i> (Blackburn, 1892)	marsh beetle	No	No	No	No
Silphidae	<i>Ptomaphila lacrymosa</i> (Schreibers, 1802)	carrion beetle	No	No	No	No
Silvanidae	<i>Macrohyliota militaris</i> (Erichson, 1842)	Silvanid flat bark beetle	No	No	No	No
Silvanidae	<i>Macrohyliota</i> QVMAG sp. 1	Silvanid flat bark beetle	No	No	No	No
Staphylinidae	<i>Paederus</i> QVMAG sp. 1	rove beetle	No	No	No	No
Staphylinidae	Staphylinidae QVMAG sp. 1	rove beetle	No	No	No	No
Staphylinidae	Staphylinidae QVMAG sp. 2	rove beetle	No	No	No	No
Staphylinidae	Staphylinidae QVMAG sp. 3	rove beetle	No	No	No	No
Staphylinidae	Staphylinidae QVMAG sp. 4	rove beetle	No	No	No	No
Tenebrionidae	<i>Adelium abbreviatum</i> Boisduval, 1835	darkling beetle	No	No	No	No
Tenebrionidae	<i>Adelium brevicorne</i> Blessig, 1861	darkling beetle	No	No	No	No
Tenebrionidae	<i>Adelium licinoides</i> Kirby, 1819	darkling beetle	No	No	No	No
Tenebrionidae	<i>Adelium tenebroides</i> Erichson, 1842	darkling beetle	No	No	No	No
Tenebrionidae	<i>Atoichus bicolor</i> (Blackburn, 1893)	darkling beetle	No	No	No	No
Tenebrionidae	<i>Celibe infelix</i> (Pascoe, 1866)	darkling beetle	No	No	No	No
Tenebrionidae	<i>Coripera deplanata</i> (Boisduval, 1835)	darkling beetle	No	No	No	No
Tenebrionidae	<i>Ecnolagria rufescens</i> (Boisduval, 1835)	darkling beetle	No	No	No	No
Tenebrionidae	<i>Hyocis (Hyocis) bakewelli</i> Pascoe, 1866	darkling beetle	No	No	No	No
Tenebrionidae	<i>Isopteron aversum</i> (Pascoe, 1869)	darkling beetle	No	No	No	No
Tenebrionidae	<i>Isopteron obscurum</i> (Erichson, 1842)	darkling beetle	No	No	No	No
Tenebrionidae	<i>Lepispilus sulcicollis</i> (Boisduval, 1835)	darkling beetle	No	No	No	No
Tenebrionidae	<i>Meneristes australis</i> (Boisduval, 1835)	darkling beetle	No	No	No	No
Tenebrionidae	<i>Olisthaena nitida</i> Erichson, 1842	darkling beetle	No	No	No	No
Tenebrionidae	<i>Promethis angulata</i> (Erichson, 1842)	darkling beetle	No	No	No	No
Tenebrionidae	<i>Pterohelaeus peltatus</i> (Erichson, 1842)	darkling beetle	No	No	No	No
Tenebrionidae	<i>Saragus costatus</i> (Solier, 1848)	darkling beetle	No	No	No	No
Tenebrionidae	<i>Seirottrana elongata</i> (Erichson, 1842)	darkling beetle	No	No	No	No

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Tenebrionidae	<i>Sphargeris physodes</i> Pascoe, 1860	darkling beetle	No	No	No	No
Tenebrionidae	<i>Titaena columbina</i> Erichson, 1842	darkling beetle	No	No	No	No
Tenebrionidae	<i>Titaena tasmanica</i> Champion, 1894	darkling beetle	No	No	No	No
Tenebrionidae	<i>Zophophilus nigerrimus</i> (Boisduval, 1835)	darkling beetle	No	No	No	No
Ulodidae	<i>Meryx rugosa</i> Latreille, 1807	Ulolid beetle	No	No	No	No
Ulodidae	<i>Notocerastes tricornis</i> Carter, 1928	Ulolid beetle	No	No	No	No
Zopheridae	<i>Docalis funerosa</i> (Hope, 1843)	iron-clad beetle	No	No	No	No
Dermaptera						
Anisolabididae	Anisolabididae QVMAG sp. 1	earwig	No	No	No	No
Labiduridae	<i>Labidura riparia</i> (Pallas, 1773)	earwig	No	No	No	No
Diptera						
Asilidae	Asilidae QVMAG sp. 1	robber fly	No	No	No	No
Asilidae	<i>Cabasa pulchella</i> (Macquart, 1846)	robber fly	No	No	No	No
Asilidae	<i>Leptogaster</i> QVMAG sp. 1	robber fly	No	No	No	No
Bittacidae	<i>Harpobittacus</i> QVMAG sp. 1	scorpionfly	No	No	No	No
Bombyliidae	<i>Geron</i> QVMAG sp. 1	bee fly	No	No	No	No
Bombyliidae	<i>Meomyia fasciculata</i> (Macquart, 1840)	bee fly	No	No	No	No
Calliphoridae	<i>Calliphora (Neocalliphora) stygia</i> (Fabricius, 1782)	fly	No	No	No	No
Calliphoridae	Calliphoridae QVMAG sp. 1	fly	No	No	No	No
Calliphoridae	Calliphoridae QVMAG sp. 2	fly	No	No	No	No
Calliphoridae	Calliphoridae QVMAG sp. 3	fly	No	No	No	No
Calliphoridae	Calliphoridae QVMAG sp. 4	fly	No	No	No	No
Calliphoridae	<i>Chyrsomia</i> QVMAG sp. 1	fly	No	No	No	No
Calliphoridae	<i>Lucilia sericata</i> (Meigen, 1826)	fly	No	No	No	No
Chloropidae	<i>Apotropina</i> QVMAG sp. 1	grass fly	No	No	No	No
Coelopidae	<i>Gluma</i> QVMAG sp. 1	kelp fly	No	No	No	No
Culicidae	<i>Aedes</i> QVMAG sp. 1	mosquito	No	No	No	No
Dilocho podidae	<i>Heteropsilopus</i> QVMAG sp. 1	Long-legged fly	No	No	No	No
Dilocho podidae	<i>Heteropsilopus</i> QVMAG sp. 2	Long-legged fly	No	No	No	No
Diptera	Diptera unplaced QVMAG sp. 1	fly	No	No	No	No

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Diptera	Diptera unplaced QVMAG sp. 10	fly	No	No	No	No
Diptera	Diptera unplaced QVMAG sp. 11	fly	No	No	No	No
Diptera	Diptera unplaced QVMAG sp. 12	fly	No	No	No	No
Diptera	Diptera unplaced QVMAG sp. 13	fly	No	No	No	No
Diptera	Diptera unplaced QVMAG sp. 14	fly	No	No	No	No
Diptera	Diptera unplaced QVMAG sp. 15	fly	No	No	No	No
Diptera	Diptera unplaced QVMAG sp. 16	fly	No	No	No	No
Diptera	Diptera unplaced QVMAG sp. 17	fly	No	No	No	No
Diptera	Diptera unplaced QVMAG sp. 18	fly	No	No	No	No
Diptera	Diptera unplaced QVMAG sp. 19	fly	No	No	No	No
Diptera	Diptera unplaced QVMAG sp. 2	fly	No	No	No	No
Diptera	Diptera unplaced QVMAG sp. 20	fly	No	No	No	No
Diptera	Diptera unplaced QVMAG sp. 21	fly	No	No	No	No
Diptera	Diptera unplaced QVMAG sp. 22	fly	No	No	No	No
Diptera	Diptera unplaced QVMAG sp. 23	fly	No	No	No	No
Diptera	Diptera unplaced QVMAG sp. 24	fly	No	No	No	No
Diptera	Diptera unplaced QVMAG sp. 25	fly	No	No	No	No
Diptera	Diptera unplaced QVMAG sp. 3	fly	No	No	No	No
Diptera	Diptera unplaced QVMAG sp. 4	fly	No	No	No	No
Diptera	Diptera unplaced QVMAG sp. 5	fly	No	No	No	No
Diptera	Diptera unplaced QVMAG sp. 6	fly	No	No	No	No
Diptera	Diptera unplaced QVMAG sp. 7	fly	No	No	No	No
Diptera	Diptera unplaced QVMAG sp. 8	fly	No	No	No	No
Diptera	Diptera unplaced QVMAG sp. 9	fly	No	No	No	No
Hybotidae	<i>Hybos</i> QVMAG sp. 1	Hybotid fly	No	No	No	No
Lauxaniidae	Lauxaniidae QVMAG sp. 1	fly	No	No	No	No
Lauxaniidae	Lauxaniidae QVMAG sp. 2	fly	No	No	No	No
Lauxaniidae	Lauxaniidae QVMAG sp. 3	fly	No	No	No	No
Muscidae	<i>Australophyra rostrata</i> (Robineau-Desvoidy, 1830)	house fly	No	No	No	No
Muscidae	<i>Villa</i> QVMAG sp. 1	house fly	No	No	No	No

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Mycetophilidae	<i>Exechia</i> QVMAG sp. 1	fungus gnat	No	No	No	No
Platystomatidae	<i>Duomyia decora</i> (Macquart, 1846)	signal fly	No	No	No	No
Platystomatidae	Platystomatinae QVMAG sp. 1	signal fly	No	No	No	No
Pyrgotidae	<i>Cardiacera</i> QVMAG sp. 1	fly	No	No	No	No
Sarcophagidae	<i>Protomiltogramma</i> QVMAG sp. 1	fleshfly	No	No	No	No
Saturniidae	<i>Opodiphthera helena</i> (White, 1843)	saturniid moth	No	No	No	No
Sciaridae	Sciaridae QVMAG sp. 1	dark-winged fungus gnat	No	No	No	No
Stratiomyidae	<i>Octarthria brunnipennis</i> (Fuller, 1934)	soldier fly	No	No	No	No
Stratiomyidae	<i>Odontomyia</i> QVMAG sp. 1	soldier fly	No	No	No	No
Syrphidae	<i>Eumerus</i> QVMAG sp. 1	hoverfly	No	No	No	No
Syrphidae	<i>Melangyna</i> QVMAG sp. 1	hoverfly	No	No	No	No
Syrphidae	Syrphidae QVMAG sp. 1	hoverfly	No	No	No	No
Tabanidae	<i>Dasybasis</i> QVMAG sp. 1	horse fly	No	No	No	No
Tachinidae	<i>Chetogena</i> QVMAG sp. 1	Tachinid fly	No	No	No	No
Tachinidae	<i>Cylindromyia</i> QVMAG sp. 1	Tachinid fly	No	No	No	No
Tachinidae	Dexiini QVMAG sp. 1	Tachinid fly	No	No	No	No
Tachinidae	<i>Eurygastropsis tasmaniae</i> (Walker, 1858)	Tachinid fly	No	No	No	No
Tachinidae	<i>Pygidimya</i> QVMAG sp. 1	Tachinid fly	No	No	No	No
Tachinidae	<i>Rutilia</i> QVMAG sp. 1	Tachinid fly	No	No	No	No
Tachinidae	<i>Rutilia</i> QVMAG sp. 2	Tachinid fly	No	No	No	No
Tachinidae	<i>Rutilotrix</i> QVMAG sp. 1	Tachinid fly	No	No	No	No
Tachinidae	<i>Senostoma</i> QVMAG sp. 1	Tachinid fly	No	No	No	No
Tachinidae	Tachinidae unplaced QVMAG 1	Tachinid fly	No	No	No	No
Tachinidae	Tachinidae unplaced QVMAG 2	Tachinid fly	No	No	No	No
Tachinidae	Tachinidae unplaced QVMAG 3	Tachinid fly	No	No	No	No
Tachinidae	Tachinidae unplaced QVMAG 4	Tachinid fly	No	No	No	No
Tachinidae	<i>Trigonospila</i> QVMAG sp. 1	Tachinid fly	No	No	No	No
Tipulidae	<i>Ischnotoma</i> QVMAG sp. 1	crane fly	No	No	No	No
Tipulidae	Tipulidae QVMAG sp. 1	crane fly	No	No	No	No
Hemiptera						

Family	Species	Common name	Putative new species	Threatened (EPBC Act)	Threatened (State Act)	Exotic / pest
Acanthosomatidae	<i>Amphaces</i> QVMAG sp. 1	shield bug	No	No	No	No
Acanthosomatidae	<i>Amphaces</i> QVMAG sp. 2	shield bug	No	No	No	No
Acanthosomatidae	<i>Anischys</i> QVMAG sp. 1	shield bug	No	No	No	No
Acanthosomatidae	<i>Dictyotus</i> QVMAG sp. 1	shield bug	No	No	No	No
Acanthosomatidae	<i>Duadicus pallidus</i> Dallas, 1851	shield bug	No	No	No	No
Acanthosomatidae	<i>Stauralia chloracantha</i> Dallas, 1851	shield bug	No	No	No	No
Acanthosomatidae	<i>Stauralia compuncta</i> Bergroth, 1895	shield bug	No	No	No	No
Cercopidae	<i>Philagra parva</i> (Donovan, 1805)	spittlebug	No	No	No	No
Cicadellidae	Cicadellidae QVMAG sp. 1	leafhopper	No	No	No	No
Cicadellidae	Cicadellidae QVMAG sp. 2	leafhopper	No	No	No	No
Cicadellidae	Cicadellidae QVMAG sp. 3	leafhopper	No	No	No	No
Cixiidae	Cixiidae QVMAG sp. 1	Fulgoroid planthopper	No	No	No	No
Coreidae	<i>Agriopocoris</i> QVMAG sp. 1	leather bug	No	No	No	No
Coreidae	<i>Amorbus obscuricornis</i> (Westwood, 1842)	leather bug	No	No	No	No
Coreidae	<i>Mictis profana</i> (Fabricius, 1803)	leather bug	No	No	No	Yes
Corixidae	<i>Agraptocorixa parvipunctata</i> (Hale, 1922)	water boatman	No	No	No	No
Dictyopharidae	<i>Thanatodictya</i> QVMAG sp. 1	Dictyopharid planthopper	No	No	No	No
Hemiptera	Hemiptera unplaced QVMAG 1	true bug	No	No	No	No
Hemiptera	Hemiptera unplaced QVMAG 2	true bug	No	No	No	No
Hemiptera	Hemiptera unplaced QVMAG 3	true bug	No	No	No	No
Hemiptera	Hemiptera unplaced QVMAG 4	true bug	No	No	No	No
Membracidae	<i>Ceraon tasmaniae</i> (Fairmaire, 1846)	treehopper	No	No	No	No
Miridae	<i>Stenotus</i> QVMAG sp. 1	Mirid bug	No	No	No	No
Pentatomidae	<i>Anaxilaus oliva</i> (Van Duzee, 1905)	shield bug	No	No	No	No
Pentatomidae	<i>Cuspicona</i> QVMAG sp. 1	shield bug	No	No	No	No
Pentatomidae	<i>Omyta centrolineata</i> (Westwood, 1837)	shield bug	No	No	No	No
Pentatomidae	<i>Platycoris rugosus</i> (Spinola, 1850)	shield bug	No	No	No	No
Reduviidae	<i>Coranus trabeatus</i> Horváth, 1902	assassin bug	No	No	No	No
Rhyparochronidae	Rhyparochronidae QVMAG sp. 1	seed bug	No	No	No	No
Rhyparochronidae	Rhyparochronidae QVMAG sp. 2	seed bug	No	No	No	No

Family	Species	Common name	Putative new species	Threatened (EPBC Act)	Threatened (State Act)	Exotic / pest
Ricaniidae	<i>Scolypopa australis</i> (Walker, 1851)	planthopper	No	No	No	No
Hymenoptera						
Apidae	<i>Exoneura</i> QVMAG sp. 1	bee	No	No	No	No
Bethylidae	<i>Eupsenella</i> QVMAG sp. 1	aculeate wasp	No	No	No	No
Braconidae	Braconidae QVMAG sp. 1	Braconid wasp	No	No	No	No
Braconidae	Braconidae QVMAG sp. 2	Braconid wasp	No	No	No	No
Braconidae	Braconidae QVMAG sp. 3	Braconid wasp	No	No	No	No
Braconidae	Braconidae QVMAG sp. 4	Braconid wasp	No	No	No	No
Braconidae	Braconidae QVMAG sp. 5	Braconid wasp	No	No	No	No
Chalcididae	<i>Brachymeria</i> QVMAG sp. 1	Chalcidid wasp	No	No	No	No
Chalcididae	<i>Brachymeria</i> QVMAG sp. 2	Chalcidid wasp	No	No	No	No
Chalcididae	Chalcididae QVMAG sp. 1	Chalcidid wasp	No	No	No	No
Colletidae	Colletidae QVMAG sp. 1	short-tongued bee	No	No	No	No
Colletidae	Colletidae QVMAG sp. 2	short-tongued bee	No	No	No	No
Crabronidae	<i>Bembix furcata</i> Erichson, 1842	digger wasp	No	No	No	No
Crabronidae	<i>Tachysphex</i> QVMAG sp. 1	digger wasp	No	No	No	No
Crabronidae	<i>Tachysphex</i> QVMAG sp. 2	digger wasp	No	No	No	No
Dryinidae	<i>Dryinus</i> QVMAG sp. 1	pincer wasp	No	No	No	No
Eucharitidae	Eucharitidae QVMAG sp. 1	ant parasite wasp	No	No	No	No
Formicidae	<i>Amblyopone australis</i> Erichson, 1842	southern Michelin ant	No	No	No	No
Formicidae	<i>Camponotus consobrinus</i> (Erichson, 1842)	banded sugar ant	No	No	No	No
Formicidae	<i>Camponotus hartogi</i> Forel, 1902	sugar ant	No	No	No	No
Formicidae	<i>Camponotus</i> QVMAG sp. 1	sugar ant	No	No	No	No
Formicidae	<i>Camponotus</i> QVMAG sp. 2	sugar ant	No	No	No	No
Formicidae	<i>Iridomyrmex bicknelli</i> Emery, 1898	ant	No	No	No	No
Formicidae	<i>Iridomyrmex</i> QVMAG sp. 1	ant	No	No	No	No
Formicidae	<i>Myrmecia forficata</i> (Fabricius, 1787)	inchman (ant)	No	No	No	No
Formicidae	<i>Myrmecia fulvipes</i> Roger, 1861	bull ant	No	No	No	No
Formicidae	<i>Myrmecia pilosula</i> Smith, 1858	jack jumper ant	No	No	No	No
Formicidae	<i>Myrmecia urens</i> Lowne, 1865	jack jumper ant	No	No	No	No

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Formicidae	<i>Polyrhachis (Campomyrma) femorata</i> Smith, 1858	ant	No	No	No	No
Formicidae	<i>Polyrhachis</i> QVMAG sp. 1	ant	No	No	No	No
Formicidae	<i>Rhytidoponera victoriae</i> (E. André, 1896)	ant	No	No	No	No
Gasteruptiidae	<i>Pseudofoenus spinitarsis</i> (Westwood, 1851)	wasp	No	No	No	No
Halictidae	<i>Lasioglossum</i> QVMAG sp. 1	sweat bee	No	No	No	No
Halictidae	<i>Lasioglossum</i> QVMAG sp. 2	sweat bee	No	No	No	No
Halictidae	<i>Lasioglossum</i> QVMAG sp. 3	sweat bee	No	No	No	No
Halictidae	<i>Lasioglossum</i> QVMAG sp. 4	sweat bee	No	No	No	No
Halictidae	<i>Lasioglossum</i> QVMAG sp. 5	sweat bee	No	No	No	No
Hymenoptera	Hymenoptera unplaced QVMAG 1	wasp	No	No	No	No
Hymenoptera	Hymenoptera unplaced QVMAG 2	wasp	No	No	No	No
Hymenoptera	Hymenoptera unplaced QVMAG 3	wasp	No	No	No	No
Hymenoptera	Hymenoptera unplaced QVMAG 4	wasp	No	No	No	No
Hymenoptera	Hymenoptera unplaced QVMAG 5	wasp	No	No	No	No
Hymenoptera	Hymenoptera unplaced QVMAG 6	wasp	No	No	No	No
Hymenoptera	Hymenoptera unplaced QVMAG 7	wasp	No	No	No	No
Ichneumonidae	<i>Echthromorpha intricatoria</i> (Fabricius, 1804)	cream-spotted ichneumon	No	No	No	No
Ichneumonidae	<i>Heteropelma scaposum</i> (Morley, 1913)	two-toned caterpillar parasite wasp	No	No	No	No
Ichneumonidae	Ichneumonidae QVMAG sp. 1	parasitic wasp	No	No	No	No
Ichneumonidae	Ichneumonidae QVMAG sp. 10	parasitic wasp	No	No	No	No
Ichneumonidae	Ichneumonidae QVMAG sp. 11	parasitic wasp	No	No	No	No
Ichneumonidae	Ichneumonidae QVMAG sp. 12	parasitic wasp	No	No	No	No
Ichneumonidae	Ichneumonidae QVMAG sp. 13	parasitic wasp	No	No	No	No
Ichneumonidae	Ichneumonidae QVMAG sp. 14	parasitic wasp	No	No	No	No
Ichneumonidae	Ichneumonidae QVMAG sp. 15	parasitic wasp	No	No	No	No
Ichneumonidae	Ichneumonidae QVMAG sp. 16	parasitic wasp	No	No	No	No
Ichneumonidae	Ichneumonidae QVMAG sp. 17	parasitic wasp	No	No	No	No
Ichneumonidae	Ichneumonidae QVMAG sp. 2	parasitic wasp	No	No	No	No
Ichneumonidae	Ichneumonidae QVMAG sp. 3	parasitic wasp	No	No	No	No
Ichneumonidae	Ichneumonidae QVMAG sp. 4	parasitic wasp	No	No	No	No

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Ichneumonidae	Ichneumonidae QVMAG sp. 5	parasitic wasp	No	No	No	No
Ichneumonidae	Ichneumonidae QVMAG sp. 6	parasitic wasp	No	No	No	No
Ichneumonidae	Ichneumonidae QVMAG sp. 7	parasitic wasp	No	No	No	No
Ichneumonidae	Ichneumonidae QVMAG sp. 8	parasitic wasp	No	No	No	No
Ichneumonidae	Ichneumonidae QVMAG sp. 9	parasitic wasp	No	No	No	No
Ichneumonidae	<i>Labium</i> QVMAG sp. 1	parasitic wasp	No	No	No	No
Ichneumonidae	<i>Lissopimpla excelsa</i> (Costa, 1864)	orchid dupe wasp	No	No	No	No
Ichneumonidae	<i>Theronia maculosa</i> Krieger, 1906	parasitic wasp	No	No	No	No
Ichneumonidae	<i>Theronia</i> QVMAG sp. 1	parasitic wasp	No	No	No	No
Ichneumonidae	<i>Trichomma</i> QVMAG sp. 1	parasitic wasp	No	No	No	No
Ichneumonidae	<i>Trichomma</i> QVMAG sp. 2	parasitic wasp	No	No	No	No
Ichneumonidae	<i>Trichomma</i> QVMAG sp. 3	parasitic wasp	No	No	No	No
Ichneumonidae	<i>Xanthocryptus</i> QVMAG sp. 1	parasitic wasp	No	No	No	No
Ichneumonidae	<i>Xanthopimpla</i> QVMAG sp. 1	parasitic wasp	No	No	No	No
Mutillidae	<i>Ephutomorpha amoenula</i> Turner, 1914	velvet ant (wasp)	No	No	No	No
Mutillidae	<i>Ephutomorpha cordatiformis</i> Turner, 1914	velvet ant (wasp)	No	No	No	No
Mutillidae	<i>Ephutomorpha lateralis</i> (Westwood, 1843)	velvet ant (wasp)	No	No	No	No
Pompilidae	<i>Auplopus provida</i> (Turner, 1910)	spider wasp	No	No	No	No
Pompilidae	Pompilidae QVMAG sp. 1	spider wasp	No	No	No	No
Pompilidae	Pompilidae QVMAG sp. 2	spider wasp	No	No	No	No
Pompilidae	Pompilidae QVMAG sp. 3	spider wasp	No	No	No	No
Pompilidae	Pompilidae QVMAG sp. 4	spider wasp	No	No	No	No
Pompilidae	Pompilidae QVMAG sp. 5	spider wasp	No	No	No	No
Torymidae	Torymidae QVMAG sp. 1	wasp	No	No	No	No
Typhiidae	<i>Diamma bicolor</i> Westwood, 1835	flower wasp	No	No	No	No
Typhiidae	Thynninae QVMAG sp. 1	flower wasp	No	No	No	No
Typhiidae	Thynninae QVMAG sp. 2	flower wasp	No	No	No	No
Typhiidae	Thynninae QVMAG sp. 3	flower wasp	No	No	No	No
Typhiidae	<i>Thynnus zonatus</i> Guérin-Méneville, 1838	flower wasp	No	No	No	No
Typhiidae	Typhiidae QVMAG sp. 1	flower wasp	No	No	No	No

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Typhiidae	Typhiidae QVMAG sp. 2	flower wasp	No	No	No	No
Typhiidae	Typhiidae QVMAG sp. 3	flower wasp	No	No	No	No
Vespidae	<i>Paralastor</i> QVMAG sp. 1	potter wasp	No	No	No	No
Lepidoptera						
Anthelidae	<i>Anthela ferruginosa</i> Walker, 1855	lappet moth	No	No	No	No
Anthelidae	<i>Pterolocera</i> QVMAG sp. 1	lappet moth	No	No	No	No
Cambridae	<i>Uresiphita ornithopteralis</i> (Guenée, 1854)	grass moth	No	No	No	No
Crambidae	<i>Hednota acantophora</i> (Meyrick, 1882)	Crambid snout moth	No	No	No	No
Crambidae	<i>Tipanaea patulella</i> Walker, 1863	Crambid snout moth	No	No	No	No
Erebidae	<i>Acyphas semiochrea</i> (Herrich-Schäffer, 1855)	tussock moth	No	No	No	No
Erebidae	<i>Aloa marginata</i> (Donovan, 1805)	lichen moth	No	No	No	No
Erebidae	<i>Castulo doubledayi</i> Newman, 1857	lichen moth	No	No	No	No
Erebidae	<i>Palaeosia bicosta</i> (Walker, 1854)	lichen moth	No	No	No	No
Erebidae	<i>Praxis edwardsii</i> Guenée, 1852	underwing moth	No	No	No	No
Erebidae	<i>Utetheisa pulchelloides</i> Hampson, 1907	tiger moth	No	No	No	No
Geometridae	<i>Androchela newmannaria</i> (Guenée, 1857)	geometer moth	No	No	No	No
Geometridae	<i>Authaemon stenonipha</i> Turner, 1919	geometer moth	No	No	No	No
Geometridae	<i>Casbia farinalis</i> (Rosenstock, 1885)	geometer moth	No	No	No	No
Geometridae	<i>Cassythaphaga macarta</i> (Turner, 1919)	geometer moth	No	No	No	No
Geometridae	<i>Chlenias auctaria</i> Guenée, 1857	geometer moth	No	No	No	No
Geometridae	<i>Chlenias</i> QVMAG sp. 1	geometer moth	No	No	No	No
Geometridae	<i>Chlorocoma assimilis</i> (Lucas, 1888)	geometer moth	No	No	No	No
Geometridae	<i>Chlorocoma cadmaria</i> (Guenée, 1857)	geometer moth	No	No	No	No
Geometridae	<i>Chlorocoma externa</i> (Walker, 1861)	geometer moth	No	No	No	No
Geometridae	<i>Chlorocoma vertumnaria</i> (Guenée, 1857)	geometer moth	No	No	No	No
Geometridae	<i>Chrysolarentia</i> QVMAG sp. 1	geometer moth	No	No	No	No
Geometridae	<i>Chrysolarentia mecynata</i> (Guenée, 1857)	geometer moth	No	No	No	No
Geometridae	<i>Crypsiphona oculitaria</i> (Donovan, 1805)	geometer moth	No	No	No	No
Geometridae	<i>Cyneoterpna wilsoni</i> (Felder & Rogenhofer, 1875)	geometer moth	No	No	No	No
Geometridae	<i>Dichromodes ainaria</i> Guenée, 1857	geometer moth	No	No	No	No

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Geometridae	<i>Dichromodes confluaria</i> (Guenée, 1857)	geometer moth	No	No	No	No
Geometridae	<i>Dichromodes euscia</i> Meyrick, 1890	geometer moth	No	No	No	No
Geometridae	<i>Dichromodes Stilbiata</i> (Guenée, 1857)	geometer moth	No	No	No	No
Geometridae	<i>Dysbatus stenodesma</i> (Lower, 1899)	geometer moth	No	No	No	No
Geometridae	<i>Gastrinodes bitaeniaria</i> (Le Guillou, 1841)	geometer moth	No	No	No	No
Geometridae	<i>Hypobapta percompatria</i> (Guenée, 1857)	geometer moth	No	No	No	No
Geometridae	<i>Melanodes anthracitaria</i> Guenée, 1857	geometer moth	No	No	No	No
Geometridae	<i>Mictodoca toxecta</i> Meyrick, 1892	geometer moth	No	No	No	No
Geometridae	<i>Mnesampela comarcha</i> Guest, 1887	geometer moth	No	No	No	No
Geometridae	<i>Monoctenia falenaria</i> Guenée, 1857	geometer moth	No	No	No	No
Geometridae	<i>Onycodes traumataria</i> Guenée, 1857	geometer moth	No	No	No	No
Geometridae	<i>Palleopa innotata</i> Walker, 1866	geometer moth	No	No	No	No
Geometridae	<i>Poecilasthena fragilis</i> Turner, 1942	geometer moth	No	No	No	No
Geometridae	<i>Poecilasthena pulchraria</i> (Doubleday, 1843)	geometer moth	No	No	No	No
Geometridae	<i>Prasinocyma semicrocea</i> (Walker, 1861)	geometer moth	No	No	No	No
Geometridae	<i>Rhynchopsota delogramma</i> Lower, 1903	geometer moth	No	No	No	No
Geometridae	<i>Scopula perlata</i> (Walker, 1861)	geometer moth	No	No	No	No
Geometridae	<i>Scopula rubraria</i> (Doubleday, 1843)	geometer moth	No	No	No	No
Geometridae	<i>Syneora cheleuta</i> (Meyrick, 1892)	geometer moth	No	No	No	No
Geometridae	<i>Syneora mundifera</i> (Walker, 1860)	geometer moth	No	No	No	No
Geometridae	Unplaced <i>biplaga</i> (Walker, 1869)	geometer moth	No	No	No	No
Geometridae	<i>Xylorictidae</i> QVMAG sp. 1	geometer moth	No	No	No	No
Hepialidae	<i>Abantiades hyalinatus</i> (Herrich-Schäffer, 1853)	swift moth	No	No	No	No
Hepialidae	<i>Abantiades latipennis</i> Tindale, 1932	swift moth	No	No	No	No
Hesperiidae	<i>Trapezites luteus</i> (Tepper, 1882)	skipper butterfly	No	No	No	No
Hypertrophidae	<i>Eupselia</i> QVMAG sp. 1	moth	No	No	No	No
Lasiocampidae	<i>Entometa fervens</i> (Walker, 1855)	gum snout moth	No	No	No	No
Lasiocampidae	<i>Paraguda nasuta</i> (Lewin, 1805)	wattle snout moth	No	No	No	No
Lecithoceridae	<i>Crocantes glycina</i> Meyrick, 1904	moth	No	No	No	No
Noctuidae	<i>Agrotis infusa</i> (Boisduval, 1832)	armyworm moth	No	No	No	No

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Noctuidae	<i>Agrotis porphyricollis</i> Guenée, 1852	armyworm moth	No	No	No	No
Noctuidae	<i>Chasmina pulchra</i> (Walker, 1858)	armyworm moth	No	No	No	No
Notodontidae	<i>Epicoma melanospila</i> (Wallengren, 1860)	moth	No	No	No	No
Notodontidae	<i>Phaeophlebosia phurcifera</i> (Walker, 1854)	moth	No	No	No	No
Oecophoridae	<i>Garrha demotica</i> (Meyrick, 1883)	concealer moth	No	No	No	No
Oecophoridae	<i>Idiodes apicata</i> Guenée, 1857	concealer moth	No	No	No	No
Oecophoridae	<i>Philobota ?olympias</i> Meyrick, 1889	concealer moth	No	No	No	No
Oenosandridae	<i>Oenosandra boisduvalii</i> Newman, 1856	moth	No	No	No	No
Psychidae	<i>Cebysa leucotelus</i> Walker, 1854	bagworm moth	No	No	No	No
Psychidae	<i>Lepidoscia</i> QVMAG sp. 1	bagworm moth	No	No	No	No
Psychidae	<i>Lepidoscia</i> QVMAG sp. 2	bagworm moth	No	No	No	No
Pyalidae	<i>Stericta bryomima</i> (Turner, 1913)	snout moth	No	No	No	No
Pyalidae	<i>Stericta carbonalis</i> (Guenée, 1854)	snout moth	No	No	No	No
Tineidae	<i>Moerarchis australasiella</i> (Donovan, 1805)	clothes moth	No	No	No	No
Mantodea						
Mantidae	<i>Orthodera ministralis</i> (Fabricius, 1775)	garden mantis	No	No	No	No
Mantidae	<i>Tenodera australasiae</i> (Leach, 1814)	purple-winged mantis	No	No	No	No
Neuroptera						
Myrmeleontidae	Myrmeleontidae QVMAG sp. 1	antlion	No	No	No	No
Osmylidae	<i>Stenosmylus tenuis</i> (Walker, 1853)	lacewing	No	No	No	No
Odonata						
Lestidae	<i>Austolestes analis</i> (Rambur, 1842)	damsel fly	No	No	No	No
Lestidae	<i>Austolestes</i> QVMAG sp. 1	damsel fly	No	No	No	No
Lestidae	<i>Austolestes</i> QVMAG sp. 2	damsel fly	No	No	No	No
Orthoptera						
Acrididae	<i>Acridinae</i> QVMAG sp. 1	grasshopper	No	No	No	No
Acrididae	<i>Austroicetes vulgaris</i> (Sjöstedt, 1931)	grasshopper	No	No	No	No
Acrididae	<i>Chortoicetes terminifera</i> (Walker, 1870)	grasshopper	No	No	No	No
Acrididae	<i>Cirphula pyrrhocnemis</i> (Stål, 1861)	grasshopper	No	No	No	No
Acrididae	<i>Gastrimargus musicus</i> (Fabricius, 1775)	grasshopper	No	No	No	No

Family	Species	Common name	Putative new species	Threatened (EPBC Act)	Threatened (State Act)	Exotic / pest
Acrididae	<i>Goniaea australasiae</i> (Leach, 1814)	grasshopper	No	No	No	No
Acrididae	<i>Macrotona australis</i> (Walker, 1870)	grasshopper	No	No	No	No
Acrididae	<i>Phaulacridium vittatum</i> (Sjöstedt, 1920)	grasshopper	No	No	No	No
Acrididae	<i>Schizobothrus flavovittatus</i> Sjöstedt, 1921	grasshopper	No	No	No	No
Acrididae	<i>Tasmaniacris tasmaniensis</i> (Bolívar, 1898)	grasshopper	No	No	No	No
Acrididae	<i>Urnisa</i> QVMAG sp. 1	grasshopper	No	No	No	No
Gryllidae	<i>Teleogryllus commodus</i> (Walker, 1869)	black field cricket	No	No	No	No
Pyrgomorphidae	<i>Psednura pedestris</i> Erichson, 1842	grasshopper	No	No	No	No
Rhaphidophoridae	<i>Parvotettix</i> QVMAG sp. 1	cricket	No	No	No	No
Tetrigidae	<i>Tetrix</i> QVMAG sp. 1	pygmy grasshopper	No	No	No	No
Tettigoniidae	<i>Caedicia simplex</i> (Walker, 1869)	bush cricket	No	No	No	No
Tettigoniidae	<i>Coptaspis lateralis</i> (Erichson, 1842)	bush cricket	No	No	No	No
Tettigoniidae	<i>Zaprochilus australis</i> (Brullé, 1835)	bush cricket	No	No	No	No
Trigonidiidae	<i>Bobilla</i> QVMAG sp. 1	cricket	No	No	No	No