

BushBlitz

SPECIES DISCOVERY PROGRAM



BUSH BLITZ SPECIES DISCOVERY PROGRAM



Egg Islands, Flat Rock,
Lower Porter Hill and Porter Hill,
Murphys Flat, Seventeen Mile Plain,
Vale of Belvoir Reserves
Tasmania

March 2010



CARING FOR
OUR COUNTRY



What is Bush Blitz?

Bush Blitz is a four-year, 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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Abbreviations

EPBC Act

Environment Protection and Biodiversity Conservation Act 1999 (Commonwealth)

NRS

National Reserve System

TSP Act

Threatened Species Protection Act 1995 (Tasmania)

WoNS

Weed of National Significance



Summary

A two week Bush Blitz was conducted at Egg Islands, Flat Rock, Lower Porter Hill and Porter Hill, Murphys Flat, Seventeen Mile Plain and the Vale of Belvoir reserves during March 2010. In total, 1,197 species were identified, of which 898 had not previously been recorded at the reserves. Added to previous records, 1,217 species are now known from these areas. Of these, 21 are putative species new to science, including a miturgid spider, a group previously known only from mainland Australia.

Ten rare and threatened animal species were recorded in the reserves. The Tasmanian devil (*Sarcophilus harrisi*) was a new record for the Vale of Belvoir and Flat Rock reserves: it is listed as endangered under both the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) and *Tasmania's Threatened Species Protection Act 1995* (TSP Act). A sighting of tussock skink (*Pseudemoia pagenstecheri*) at the Vale of Belvoir represents a major range extension for this species which is listed under the TSP Act as vulnerable. It was previously known only from a few sites in the Tasmanian midlands. Nine flora species listed under either the EPBC Act or the TSP Act were also found in the reserves.

Exotic vertebrate pest fauna in most of the reserves included the house mouse (*Mus musculus*), black rat (*Rattus rattus*), cat (*Felis catus*), rabbit (*Oryctolagus cuniculus*) and brown hare (*Lepus capensis*). Exotic invertebrate species included nine snails and slugs, two millipedes, the cabbage white butterfly (*Pieris rapae*), large earth bumblebee (*Bombus terrestris*) and several introduced spider



Tasmanian Swamp Tiger-tail (*Synthemis tasmanica*) found at Vale of Belvoir Reserve © C Young

species including what appeared to be a black widow (*Latrodectus* sp.) recorded at Flat Rock Reserve.

Fifty-one weed species were identified across the reserves. The western boundary of the Murphys Flat Reserve has a considerable weed burden posing a high risk to the reserve. The Egg Islands and Seventeen Mile Plain reserves contained very few weed species. Blackberry (exotic *Rubus* of the *R. fruticosus* aggregate), a Weed of National Significance (WoNS), was recorded growing in the south of Seventeen Mile Plain Reserve. On the Porter Hill reserves, boneseed (*Chrysanthemoides monilifera* subsp. *monilifera*), also a WoNS, is common and widespread throughout.

The introduced ectomycorrhizal fungus¹ *Thelephora terrestris* was found on the road verge in the Vale of Belvoir, potentially occupying the niche of a native fungus.

As part of this Bush Blitz, critical areas of Seventeen Mile Plain Reserve were assessed for infestation by *Phytophthora cinnamomi*: no infestations were found.

1 An ectomycorrhizal fungus forms a symbiotic relationship with a host plant, living in a sheath around the roots.



Introduction

This is a report for the Bush Blitz program, which aims to survey recent additions to the National Reserve System (NRS). Bush Blitz is an initiative of the Australian Government, through the Australian Biological Resources Study, 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 science, 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 project.

This survey was undertaken during March 2010 under the aegis of the Tasmanian Museum and Art Gallery who were contracted to run the fieldwork component. Seven reserves were visited, though not all groups were collected on every reserve. [Table 1](#) indicates which groups were collected on each reserve.



Dr David de Little collecting beetles © R Mollinson





Table 1: Groups surveyed in each reserve

Groups	Common name	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
Aves	Birds	X	X	X	X	X	X
Chrioptera	Bats	X	X	X	X	X	X
Mammalia	Mammals	X	X	X	X	X	X
Bryophytes	Liverworts and Mosses	X				X	X
Fungi	Fungi	X					X
Vascular Plants	Vascular Plants	X		X	X	X	X
Arachnida	Spiders	X	X	X	X	X	X
Coleoptera	Beetles	X	X	X	X	X	X
Diplopoda	Millipedes	X	X	X	X	X	
Heteroptera	True Bugs					X	X
Lepidoptera	Butterflies and Moths	X	X	X	X	X	X
Odonata	Dragonflies and Damselflies	X	X		X		X
Pulmonata	Snails	X	X	X	X	X	X
Trichoptera	Caddisflies	X	X	X	X	X	X



Reserves Overview²



Egg Islands Reserve

Tasmanian Land Conservancy

Date of purchase

2006–2007

Area

150.5 ha

Description

Egg Islands Reserve is situated in the Huon Channel opposite the town of Franklin. Historically, the islands were used for bush run cattle grazing and, prior to the early 1980s, some small areas were cleared and used for crops.

National Reserve System conservation values

Egg Islands Reserve protects an ecosystem that is otherwise unrepresented within the NRS — freshwater aquatic herbland — which is listed as threatened under Tasmania's *Threatened Species Protection Act 1995* (TSP Act). The reserve also supports threatened (TSP Act) freshwater wetland communities and endangered (TSP Act) black gum (*Eucalyptus ovata*) shrubby forests. The latter are foraging habitat for the swift parrot (*Lathamus discolor*), listed as endangered under the *Environmental Protection and Biodiversity Conservation Act 1999* (EPBC Act). The wetlands, marshes and riparian areas are foraging and nesting habitat for waterbirds, including the Australasian bittern (*Botaurus poiciloptilus*), which is listed by the International Union for the Conservation of Nature as declining internationally.



Eucalyptus ovata woodland, Egg Islands Reserve © C Young

² Information from the National Reserve System applications and assessments and from the report submitted by the Tasmanian Museum and Art Gallery.





Flat Rock Reserve

Tasmanian Land Conservancy

Date of purchase

2005–2006

Area

455 ha

Description

The reserve adjoins the Chauncy Vale Wildlife Sanctuary and the Alpha Pinnacle Conservation Area. Eleven vegetation communities occur across this reserve as well as significant karst areas. Some parts of the forest and woodland are considered to be old growth.

National Reserve System conservation values

Flat Rock Reserve provides a key link between the conservation areas and protects two priority vegetation communities as well as habitat for several threatened species. The property includes 2 ha of an endangered lowland grassland complex, 41 ha of vulnerable grassy blue gum (*Eucalyptus globulus*) forest and 38 ha of vulnerable silver peppermint (*E. tenuiramis*) forest. The reserve contains habitat suitable for several species listed under the EPBC Act, such as the swift parrot (*Lathamus discolor*), Tasmanian wedge-tailed eagle (*Aquila audax fleayi*), masked owl (*Tyto novaehollandiae castanops*), eastern barred bandicoot (*Perameles gunnii gunnii*) and clasping leaf heath (*Epacris acuminata*).



E. tenuiramis davesia latifolia woodland, Flat Rock Reserve © C Young



Lower Porter Hill and Porter Hill Reserves

Hobart City Council

Date of purchase

Lower Porter Hill: 2002–2003

Porter Hill: 2005–2006

Area

Lower Porter Hill: 7.3 ha

Porter Hill: 30.9 ha

Description

These reserves are part of an unbroken corridor of reserves around the slopes of Mt Nelson within the city of Hobart. They contain colonies of the forty-spotted pardalote and are breeding grounds for the swift parrot.

National Reserve System conservation values

Lower Porter Hill contains habitat for the EPBC-listed forty-spotted pardalote (*Pardalotus quadragintus*) and eastern barred bandicoot (*Perameles gunnii gunnii*). The reserve also includes forest communities of high conservation priority, including white gum grassy woodland, white peppermint grassy forest and she-oak closed forest. Porter Hill also supports five forest and woodland communities that are of high conservation value and habitat for the eastern barred bandicoot and the EPBC-listed endangered swift parrot (*Lathamus discolor*).



Southern Brown Bandicoot (*Isoodon obesulus*) from Porter Hill Reserve, B Glasser





Murphys Flat Reserve

Department of Primary Industries, Parks, Water and Environment

Date of purchase

2000–2001

Area

66 ha

Description

The Murphys Flat wetlands are located near the Derwent River and form part of a larger wetland complex extending from New Norfolk to Granton. They consist of a mosaic of sedgeland, wet scrub and open tussock grasslands with large pools of standing water in the western portion and a system of artificial drains that have been excavated across much of the wetlands.

National Reserve System conservation values

Murphys Flat Reserve provides wildlife habitat, fish-spawning grounds and nurseries, flood and erosion control, pollution abatement and visual amenity. Wetlands in the Derwent Estuary are largely restricted to the area between New Norfolk and the Bridgewater causeway, and this site constitutes a substantial proportion (25–35%) of these wetlands. As water quality in the Derwent Estuary improves through better treatment of sewage and industrial discharges, the wetlands of the upper Derwent play a vital role in the rehabilitation of the estuary as a whole.



Murphys Flat sedgeland © C Young



Seventeen Mile Plain Reserve

Department of Primary Industries, Parks, Water and Environment

Date of purchase

2000–2001

Area

880 ha

Description

Located on the original 'Woolnorth' land grant made to the Van Diemens Land Company in 1824, this was the site of an intensive insect collection in the 1830s by the overseer, Adolphus Schayer, from which many new species were described by W.F. Erichson (1842). Consequently, it is an important type locality. The reserve also encompasses important karst formations, including the Montagu caves from which a collection of Pleistocene megafauna is known.

National Reserve System conservation values

The reserve protects communities of high priority including buttongrass moorland supporting vegetation types currently under-represented in the reserve system. It also protects the long term viability of the surrounding high priority *Eucalyptus brookeriana* old growth forest as well as significant areas of blackwood swamp forest. It includes habitat for several species listed under the TSP Act and the EPBC Act, such as the grey goshawk (*Accipiter novaehollandiae*), keeled snail (*Tasmaphena lamproides*), wedge-tailed eagle (*Aquila audax fleayi*), Tasmanian devil (*Sarcophilus harrisii*), eastern quoll (*Dasyurus viverrinus*) and spotted-tail quoll (*Dasyurus maculatus maculatus*). Another species, the northwest velvet worm (*Ooperipatellus cryptus*), is also considered to be at risk.



Collecting at Seventeen Mile Plain, B Glasser





Vale of Belvoir Reserve

Tasmanian Land Conservancy

Date of purchase

2007–2008

Area

474 ha

Description

Vale of Belvoir Reserve lies directly south of Lake Lea and 12 km to the north-west of Cradle Mountain-Lake St Clair National Park. It was purchased by the NRS under the biodiversity hotspot program and is surrounded on all sides by the Vale of Belvoir Conservation Area. The reserve has been used for summer cattle grazing and the purchase agreement allows up to 300 cattle on the property from December to June. Regular disturbance caused by grazing is considered to increase the biodiversity of the grassland, moorland and heath communities. Sensitive wetland and karst areas are protected from grazing.

National Reserve System conservation values

Ten vegetation communities occur in the reserve, four of which are rare, endangered or vulnerable; these include highland poa grassland, highland sedgy grassland, wetland and subalpine *Diplarrena* rushland. The Vale of Belvoir has the most extensive montane grassland in Tasmania, a community that is rare in Australia. The reserve also provides habitat for a number of species listed under the EPBC Act and the TSP Act, such as the spotted-tail quoll (*Dasyurus maculatus maculatus*), Tasmanian devil (*Sarcophilus harrisii*), grassland paperdaisy (*Leucochrysum albicans* var. *tricolor*), alpine appleberry (*Rhytidosporum inconspicuum*), velvet wheatgrass (*Australopyrum velutinum*), chamomile sunray (*Rhodanthe anthemoides*), alpine violet (*Viola cunninghamii*) and alpine candles (*Stackhousia pulvinaris*). It is also one of few areas of crown land where the vulnerable Ptunarra brown butterfly (*Oreixenica ptunarra*) occurs. The Vale River is the type locality of two aquatic lichen species (*Verrucaria inconstans* and *V. tholocarpa*).



Vale of Belvoir Creek © R Mollison



Methods

Collection and observation sites were selected based on land classes, supplemented by identification of suitable microhabitat during the field visit.

A number of taxonomic groups were identified as targets for study. Table 2 lists the specialists who undertook the fieldwork for each taxonomic group. Other non-target groups were opportunistically sampled, including reptiles, frogs, bees, flies, wasps, grasshoppers, millipedes, mantids, thrips and crustaceans.

A standard suite of survey techniques was used:

- + Vascular plants, bryophytes and fungi were collected by hand. Specimens were placed in presses or bryophyte envelopes and dried. Selected taxa, such as Orchidaceae, were placed in 70% ethanol.
- + Spiders were collected in pit-fall traps set at least six weeks prior to the survey, and also by hand-searching and excavation of burrows, vibration to attract animals (idling of a diesel vehicle or portable generator) and observation of marked burrows at night. Bucket light traps used to take moths also attracted spider species.

Table 2: Groups surveyed and personnel

Group	Expert	Affiliation
Aves	Nick Mooney	Tasmanian Museum and Art Gallery
Aves	Sally Bryant	Tasmanian Land Conservancy
Chiroptera	Lisa Cawthen	University of Tasmania
Terrestrial Mammals	Mike Driessen	Department of Primary Industries, Parks, Water and Environment
Terrestrial Mammals	Nick Mooney	Tasmanian Museum and Art Gallery
Bryophyta	Lyn Cave	Tasmanian Museum and Art Gallery
Fungi	Genevieve Gates, David Ratkowsky	University of Tasmania
Vascular Plants	Marco Duretto, Matthew Baker, Alex Buchanan, Alan Gray	Tasmanian Museum and Art Gallery
Pulmonata	Kevin Bonham	Tasmanian Museum and Art Gallery
Coleoptera	David de Little	Tasmanian Museum and Art Gallery
Arachnida	Robert Raven	Queensland Museum
Heteroptera	Celia Symonds	University of New South Wales
Lepidoptera (Geometridae)	Cathy Byrne	Tasmanian Museum and Art Gallery
Papilionoidea and Odonata	Abbey Throssell	Tasmanian Museum and Art Gallery
Trichoptera	Alice Wells	Australian Biological Resources Study
Assistants	Ruth Mollison, Belinda Bauer	Tasmanian Museum and Art Gallery





Dr C Young sorting moth and butterfly specimens © R Mollison

- + Snails were collected by hand searching, particularly in karst.
- + Moths were captured using light traps deployed nightly, and beat-sampling of vegetation was used to collect larvae; which were then reared to the adult stage on the host plant.
- + Butterflies and dragonflies were collected opportunistically using hand-held butterfly nets.
- + True bugs were collected by beat-sampling vegetation, and sweeping grasses and low annual herbs in the alpine grassland of the Vale of Belvoir. Host plant voucher specimens were collected. Light traps and malaise traps, used for other invertebrate species, also captured true bugs.
- + Caddisflies were collected and preserved immediately in 95% ethanol. Water bodies were sampled for larvae and pupae by using a mixture of kick-net sampling and hand collection from rocks, litter and aquatic macrophytes. Adults were collected from sheet or bucket light traps.
- + Bats were surveyed using harp traps, mist nets and recording of calls. All captured bats were released following identification, measuring, weighing and assessment of age and reproductive condition. Tissue samples were collected from the tail membrane, and calls were recorded.

- + Mammals were surveyed at Egg Islands, Murphys Flat, Flat Rock, Porter Hill and Lower Porter Hill reserves using nocturnal spotlight searches, automatic cameras paired with hair tubes and sand pads (local sand). At Seventeen Mile Plain and the Vale of Belvoir reserves, mammals were surveyed using cage and Elliott traps, nocturnal spotlight searches and daytime observation of scats, tracks and other signs. All animals were identified, measured and released.
- + Birds were surveyed following the Birds Australia methodology for the *Atlas of Australian Birds* project. All species were identified by sight and sound within a 2 ha area searched over a 20 minute period. Targeted searches were conducted for the swift parrot (*Lathamus discolor*), the forty-spotted pardalote (*Pardalotus quadragintus*) and the Australasian bittern (*Botaurus poiciloptilus*).
- + Reptiles and amphibians were recorded as incidental observations, and crustaceans were opportunistically sampled.

Fauna specimens were lodged with the Tasmanian Museum and Art Gallery, and plant specimens were lodged with the Tasmanian Herbarium. Final species lists were compiled using data provided by the Australian Natural Heritage Assessment Tool and the results of this Bush Blitz.



Results

The locational data are available to reserve managers.

Species Lists

Appendix A provides updated species lists for each reserve. Names in **bold brown text** are putative new species. Species marked with an asterisk (*) have not been previously recorded in that reserve. Species without an asterisk have been recorded previously and found again during this survey. Species with **blue squares** were not recorded on this survey, but are known from previous studies. **Table 3** provides a summary of the number of new records and putative new species for each reserve. **Table 4** provides a summary of the number of species newly recorded on this survey for each reserve by taxonomic group.



Tingis n. sp. © C Symonds

Table 3: Summary of new records and putative new species

Reserve	Species new to the reserve	Species new to science
Egg Islands	150	1
Flat Rock	177	5
Lower Porter Hill and Porter Hill	140	1
Murphys Flat	108	2
Seventeen Mile Plain	397	10
Vale of Belvoir	403	6





Discocharopa 'mimic' (1.84mm) © K Bonham



New genus of Grey Wolf spider Lycosidae © R Raven

Table 4: Number of species newly recorded on this survey for each reserve by group, including non-target groups

Group	Common name	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
Amphibia	Frogs	1	–	–	–	3	–
Aves	Birds	24	2	1	1	40	36
Mammalia	Mammals	5	20	17	5	15	12
Reptilia	Reptiles	–	–	–	–	2	5
Bryophytes	Mosses and Liverworts	30	–	–	–	66	94
Fungi	Fungi	9	–	–	–	–	87
Vascular Plants	Vascular Plants	26	–	46	45	114	16
Apoidea	Bees	–	–	–	–	–	1
Arachnida	Spiders	19	61	36	18	27	24
Caelifera	Grasshoppers	1	4	2	1	10	6
Coleoptera	Beetles	2	10	–	–	4	12
Crustacea	Crustaceans	3	–	–	–	2	3
Diplopoda	Millipedes	5	6	3	–	6	13
Diptera	Flies	–	–	–	–	–	1
Heteroptera	True Bugs	–	3	1	3	25	20
Lepidoptera	Butterflies and Moths	13	49	25	20	44	26
Mantidae	Praying Mantises	–	–	–	–	1	–
Odonata	Dragonflies	1	–	–	1	5	3
Gastropoda	Snails and Slugs	11	18	8	8	18	18
Thysanoptera	Thrips	–	–	–	–	15	–
Trichoptera	Caddisflies	–	4	1	6	–	26



Rare and Threatened Species

Appendix B lists the threatened species known from the reserves. Species marked with an asterisk (*) have not been previously recorded.

Exotic and Pest Species

Appendix C lists the exotic and pest species known from the reserves. A summary of exotic and pest flora and fauna species recorded for each reserve is provided in Table 5.

Table 5: Total number of exotic and pest species encountered in each reserve

Reserve	Flora	Fauna
Egg Islands	5	9
Flat Rock	–	11
Lower Porter Hill and Porter Hill	13	12
Murphys Flat	30	8
Seventeen Mile Plain	9	3
Vale of Belvoir	1	6

Buttongrass (*Gymnoschoenus sphaerocephalus*) at Vale of Belvoir © R Mollison





Discussion

A total of 898 species were added to those known across the reserves and 21 putative species new to science were discovered — these await assessment and, possibly description and publication for those confirmed as new species. A breakdown of the groups in which putative new species have been discovered is provided in Table 6.

Table 6: Putative new species by group

Group	Common name	Number of possible new species
Arachnida	Spiders	2
Diplopoda	Millipedes	6
Fungi	Fungi	1
Gastropoda	Snails	2
Heteroptera	True Bugs	9
Trichoptera	Caddisflies	1

Rare and Threatened Species

The swift parrot (*Lathamus discolor*) was sighted at Porter Hill and Egg Islands. This bird is listed as endangered under the EPBC Act, and its presence in these reserves indicates that they contain foraging habitat used by local populations. State and nationally listed threatened species, the wedge-tailed eagle (*Aquila audax*), white-bellied seaeagle (*Haliaeetus leucogaster*) and masked owl (*Tyto novaehollandiae*) were also sighted in the reserves. No forty-spotted pardalotes (*Pardalotus quadragintus*) were observed, despite targeted searches and apparently suitable habitat on Porter Hill. The Australasian bittern (*Botaurus poiciloptilus*) was also not found on Egg Islands; however, the weather was unfavourable and conditions were unsuitable for detecting calls. Repeated surveys in spring and summer are more likely to detect this species.

The spotted-tailed quoll (*Dasyurus maculatus*) was found at Flat Rock and Seventeen Mile Plain reserves. This is listed as threatened under the EPBC Act and rare under the TSP Act. The Tasmanian devil (*Sarcophilus harrisii*) was found at Seventeen Mile Plain Reserve and was a new record for the Vale of Belvoir and Flat Rock reserves. The Tasmanian devil is also listed as endangered under the EPBC Act and the TSP Act. The eastern barred bandicoot (*Perameles gunnii*), listed under the TSP Act as requiring monitoring, was found at Porters Hill Reserve. Although the eastern barred bandicoot (*P. gunnii gunnii*) is common in most of Tasmania, it is listed as vulnerable under the EPBC Act and it is now extinct in South Australia and critically endangered in Victoria. A sighting of the tussock skink (*Pseudemoia pagenstecheri*) at the Vale of Belvoir represents a major range extension. This species is listed under the TSP Act as vulnerable since it is known from only a few sites in the Tasmanian midlands; confirmation of a population here could affect its status.



McLeays Swallowtail (*Graphium macleayanum*)
© C Young



The keeled snail (*Tasmaphena lamproides*), a carnivorous predatory land snail, was found at Seventeen Mile Plain Reserve. Listed as rare under the TSP Act, it was common within its primary habitat in the reserve as well as being easy to find in suboptimal habitat near the edge of the forest. The keeled snail is likely to occur in forested areas throughout the reserve. Another snail, *Bischoffena bischoffensis* is an enigmatic species listed as data-deficient by the International Union for Conservation of Nature. Although common at some sites it is generally scarce and exceptionally hard to find. A single shell was found at the Vale of Belvoir inside the bark of a myrtle tree; the first time this snail has been collected arboreally.

One specimen of the rare damselfly, ancient greenling (*Hemiphysalia mirabilis*), was collected at Seventeen Mile Plain. This record represents an extension of its range. Until recently it was thought to only occur in a few areas in Victoria, as well as King Island and north-east Tasmania. This species is the only living representative of the Hemiphysaliidae, a family that is otherwise known only from the fossil record. A specimen of the beetle *Paropsides nigrolineata* was collected from the Vale of Belvoir. Specimens of this rare species are also known from Lake St Clair and Lake Pedder. Likewise, a *Trachymela acclivis* collected at Flat Rock is another range extension: this beetle was previously known only from King Island and north-west Tasmania. A collection of *Trachymela acclivis* from Flat Rock represents a southwards extension of its range from King Island and north-western Tasmania.

Exotic and Pest Species

Common exotic vertebrate species such as the house mouse (*Mus musculus*), black rat (*Rattus rattus*), cat (*Felis catus*), rabbit (*Oryctolagus cuniculus*) and brown hare (*Lepus capensis*) were found on most of the reserves, the only exception being the Vale of Belvoir. Three exotic bird species were found in the reserves, which was expected given their proximity to rural and urban environments.

A number of exotic invertebrates were also found on all of the reserves although none are listed under the *Plant Quarantine Act 1997*. Only one species of exotic Lepidoptera was recorded, the cabbage white butterfly (*Pieris rapae*), found at the Vale of Belvoir, Murphys Flat and Seventeen Mile Plain. The most common exotic slug, the hedgehog slug (*Arion intermedius*), was found on all reserves except Murphys Flat; while the most common exotic snail, the cellar snail (*Oxychilus cellarius*), occurred in all reserves except Seventeen Mile Plain. Several introduced species of spider, including what appeared to be a black widow (*Latrodectus* sp.), were observed at Flat Rock Reserve. The common pillbug (*Armadillidium vulgare*) was also noted at Flat Rock Reserve. The European wasp (*Vespula germanica*) was seen at Seventeen Mile Plain Reserve and Murphys Flat Reserve. The large earth bumblebee (*Bombus terrestris*) was also recorded at Flat Rock Reserve.

Seventeen Mile Plain is a relatively weed-free reserve with only the occasional patch of minor herbaceous and grassy weeds, such as common centaury (*Centaureum erythraea*) and squirrel-tailed fescue (*Vulpia bromoides*), found on the side of tracks and most likely introduced by contaminated vehicles. Blackberry (exotic *Rubus* of the *R. fruticosus* aggregate), a WoNS, was recorded in the understorey of *Melaleuca*





forest in the south of the reserve. Recreational quad bikes, which enter the reserve from adjacent farmland, risk introducing exotic plants. Spanish heath (*Erica lusitanica*) and spear thistle (*Cirsium vulgare*) are found in the plantation forests adjacent to the northern boundary of the reserve. The spread of these weeds is highly likely, particularly by vehicles travelling through infected areas before entering the reserve.

Seventeen Mile Plain Reserve was designated a *Phytophthora cinnamomi* Management Area in 2003. This signifies vegetation communities that are highly susceptible to damage by *P. cinnamomi*, a plant pathogen that causes damage commonly known as root rot or dieback. The most susceptible vegetation, moorland and *Eucalyptus nitida* woodland, occur primarily in the south of the reserve. The reserve was surveyed for *P. cinnamomi* in 2001 and none was detected. As part of this Bush Blitz, the reserve was re-surveyed for symptoms and appropriate hygiene procedures were followed. Critical areas assessed included tracks, drains and drainage lines that might indicate infestation in the reserve as well as higher in the catchment; no infestations were detected.



Forest at Vale of Belvoir © R Mollison

The western boundary of the Murphys Flats Reserve has a staggering weed burden in terms of diversity and abundance. This poses a considerable risk to the reserve, especially if the reserve undergoes a significant disturbance event such as fire or land clearing. The range of weeds includes herbaceous plants, grasses, shrubs and trees. Of these, the most significant are blackberry and boneseed (*Chrysanthemoides monilifera* subsp. *monilifera*), a WoNS. On the Porter Hill reserves boneseed is common and widespread throughout. As with most reserves that border residential areas, invasive garden plants are a threat to the bushland. This is evident along the reserve boundary where many garden plants and weeds are present. Egg Islands Reserve contains very few weed species, with New Zealand flax (*Phormium tenax*) the most common and widespread.

The introduced ectomycorrhizal fungus³ *Thelephora terrestris* was found on the road verge in the Vale of Belvoir. This is surprising because there were no radiata pine trees (*Pinus radiata*), under which it has been found previously in Tasmania, or other introduced host trees in close proximity. This suggests that *T. terrestris* is forming an ectomycorrhizal association with a native tree and could be occupying the niche of a native fungus. The spread of *Amanita muscaria* — an ectomycorrhizal symbiont associated with Northern Hemisphere ornamentals such as silver birch and pine — to native forests in Australia, is being carefully monitored.

3 An ectomycorrhizal fungus is one which forms a symbiotic relationship with a host plant, living in a sheath around the roots.



Grazing at the Vale of Belvoir

Summer grazing of cattle has occurred at the Vale of Belvoir since the 1890s. In addition to summer grazing, a mosaic burning regime of the grasslands has been used to maintain their condition for grazing. The Tasmanian Land Conservancy, since purchasing the property for conservation in 2008, has maintained the practice of moderate summer grazing. The grasslands, moorlands and heath ecosystems require regular disturbance to maintain plant diversity. It is thought that moderate grazing provides the necessary disturbance to maintain the gaps between *Poa* tussocks and allow other species to grow. However, the differences between the effects of fire and grazing, and the role of grazing in shaping and maintaining the current values of the grasslands is not well understood. Long-term monitoring is required before the effects of cattle grazing can be properly assessed and a decision made about the most appropriate management approach.

During this Bush Blitz, the pasture site was found to have a distinctive fungal assemblage including *Entoloma percrinitum*, *Entoloma melanocephalum*, *Stropharia semiglobata*, *Panaeolus* and *Psilocybe* spp., including a *Psilocybe* species found on dung. It was also found that ongoing grazing by cattle has removed most of the *Poa* tussocks from the Vale, thus reducing the complexity of the plant community. The resulting habitat fragmentation might have affected insect diversity: sweeping conducted in these grasslands yielded one or two individuals of four true bug species. Further sweeping of ungrazed *Poa* grasslands just outside the reserve yielded an additional bug species, *Tholosanus proximus* (Pentatomidae), in relatively high abundance. For the most part, there is no detectable impact on the land snail communities as a result of grazing. Sites

in open pasture, however, produced very few native snails and those collected were all dead. It is uncertain if these areas ever supported many native snails.

Where native forest occurred patchily and past clearing and grazing impacts were obvious, leaf litter that would normally provide habitat for native snails produced many exotic and invasive *Arion* slugs but no native snails. The diversity of land snails in forested areas on the Vale of Belvoir is generally exceptionally high for Tasmania.

Other Points of Interest

Range extensions were recorded for two snail species, *Planilaoma luckmanii* and *Paralaoma* sp. "Knocklofty", both with broad northern and eastern distributions in Tasmania. The potential new species of racing stripe spider (Miturgidae) was a great surprise. The species belongs to a new genus within the Miturgidae family, which contains members that are usually up to a hand span in size and are known predators of cane toads. The Miturgidae are large ground hunting spiders that occur in dry areas of Australia and until now Tasmania was not considered suitable habitat for them.



Spotted Skink (*Niveoscincus ocellatus*) © M Driessen





Appendix A: Species Lists

Additional supplements containing the appendices for individual reserves are available to download from:

www.bushblitz.org.au

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 April 2012



Fauna

Vertebrates

Birds							
Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
Acanthizidae	<i>Acanthiza ewingii</i>	X *				X *	X
	<i>Acanthiza pusilla</i>	X *		X			X *
	<i>Acanthornis magna</i>						X
	<i>Calamanthus fuliginosus</i>					X *	X *
	<i>Sericornis frontalis</i>			X		X *	X *
	<i>Sericornis humilis</i>	X		X *		X *	X *
Accipitridae	<i>Accipiter novaehollandiae</i> ~	■					
	<i>Aquila audax</i> # ~	■	X *			X	X *
	<i>Circus approximans</i>	X			■	X *	X *
	<i>Haliaeetus leucogaster</i> ~	X					
Alaudidae	<i>Alauda arvensis</i>					X *	X *
Anatidae	<i>Anas castanea</i>	X					
	<i>Anas platyrhynchos</i>	■					
	<i>Anas superciliosa</i>	X					
	<i>Cygnus atratus</i>	■					
Apodidae	<i>Hirundapus caudacutus</i>						X *
Ardeidae	<i>Egretta novaehollandiae</i>	X *				X *	X
Artamidae	<i>Artamus cyanopterus</i>	X *		X		X *	X *
	<i>Cracticus torquatus</i>				■	X *	
	<i>Strepera fuliginosa</i>						X
	<i>Strepera versicolor</i>	X *					
Cacatuidae	<i>Cacatua galerita</i>						X
	<i>Calyptorhynchus funereus</i>	X *				X *	X *
Campephagidae	<i>Coracina novaehollandiae</i>	■		X		X *	X *

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Birds							
Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
Charadriidae	<i>Vanellus miles</i>	X		X		X *	X *
Columbidae	<i>Phaps chalcoptera</i>			X		X *	X *
	<i>Phaps elegans</i>	X *		X			
Corvidae	<i>Corvus tasmanicus</i>	X		X		X *	X *
Cuculidae	<i>Cacomantis flabelliformis</i>	■		X		X *	X
	<i>Cacomantis pallidus</i>			X			
Estrildidae	<i>Stagonopleura bella</i>	X *				X *	X *
Falconidae	<i>Falco berigora</i>	X *				X *	X *
	<i>Falco peregrinus</i>		X				
Fringillidae	<i>Carduelis carduelis</i> ^	X *				X *	X *
	<i>Chloris chloris</i> ^	X *					
Haematopidae	<i>Haematopus longirostris</i>			X			
Halcyonidae	<i>Dacelo novaeguineae</i>	X				X *	X
Hirundinidae	<i>Hirundo neoxena</i>						X
	<i>Petrochelidon nigricans</i>	X *				X *	X *
Laridae	<i>Chroicocephalus novaehollandiae</i>	X		X			
	<i>Larus pacificus</i>	X					
Maluridae	<i>Malurus cyaneus</i>	X		X		X *	X *
	<i>Stipiturus malachurus</i>	■				X *	X *
Meliphagidae	<i>Acanthorhynchus tenuirostris</i>	X				X *	X *
	<i>Anthochaera chrysoptera</i>			X			
	<i>Anthochaera paradoxa</i>	X		X			X
	<i>Epthianura albifrons</i>						X *
	<i>Glycichaera fallax</i>	X *				X *	
	<i>Lichenostomus flavicollis</i>	X		X		X *	X *
	<i>Melithreptus affinis</i>	■		X			
	<i>Melithreptus validirostris</i>	X				X *	X *
Phylidonyris	<i>Phylidonyris novaehollandiae</i>	■		X		X *	X *
	<i>Phylidonyris pyrrhoptera</i>	X		X	■	X *	X *
Monarchidae	<i>Myiagra cyanoleuca</i>				X *	X *	
Motacillidae	<i>Anthus novaeseelandiae</i>						X *



Birds							
Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
Pachycephalidae	<i>Colluricincla harmonica</i>	■		X		X*	X
	<i>Pachycephala olivacea</i>	X					X*
	<i>Pachycephala pectoralis</i>	X*		X			
Pardalotidae	<i>Pardalotus punctatus</i>	X			■		X*
	<i>Pardalotus striatus</i>	X		X		X*	
Petroicidae	<i>Melanodryas vittata</i>						X*
	<i>Petroica multicolor</i>	X*		X			
	<i>Petroica phoenicea</i>				■		X
	<i>Petroica rodinogaster</i>	X*				X*	X*
Phalacrocoracidae	<i>Microcarbo melanoleucos</i>	X*					
	<i>Phalacrocorax sulcirostris</i>	X					
	<i>Phalacrocorax varius</i>	■					
Phasianidae	<i>Coturnix ypsilophora ypsilophora</i>	■		X			
Psittacidae	<i>Glossopsitta concinna</i>	X*					
	<i>Lathamus discolor</i> # ~	X		X			
	<i>Pezoporus wallicus</i>					X*	X
	<i>Platycercus caledonicus</i>	X	X*	X	■	X*	X
	<i>Platycercus eximius</i>	X*					
Rallidae	<i>Porphyrio porphyrio</i>				■		
	<i>Porzana tabuensis</i>	X*					
	<i>Tribonyx mortierii</i>	X*			■	X*	X*
Recurvirostridae	<i>Cladorhynchus leucocephalus</i>			X			
Rhipiduridae	<i>Rhipidura fuliginosa</i>	X		X		X*	X*
Scolopacidae	<i>Gallinago hardwickii</i>	■					
Strigidae	<i>Ninox novaseelandiae</i>					X*	X*
Timaliidae	<i>Zosterops lateralis</i>	X*		X		X*	X*
Turdidae	<i>Turdus merula</i> ^	X*				X*	
	<i>Zoothera lunulata</i>	X*				X*	
Turnicidae	<i>Turnix varius</i>			X			
Tytonidae	<i>Tyto novaehollandiae</i> ~						X*

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Fishes							
Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
Anguillidae	<i>Anguilla australis</i>				■		
Bovichtidae	<i>Pseudaphritis urvillii</i>				■		
Eleotridae	<i>Philypnodon grandiceps</i>				■		
Galaxiidae	<i>Galaxias maculatus</i>				■		
	<i>Lovettia sealii</i>				■		
Gobiidae	<i>Afurcagobius tamarensis</i>				■		
	<i>Pseudogobius olorum</i>	■					
Retropinnidae	<i>Prototroctes maraena</i> # ~	■					
	<i>Retropinna tasmanica</i>				■		
Salmonidae	<i>Salmo trutta</i>				■		■

Frogs							
Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
Hylidae	<i>Litoria ewingii</i>					X *	X
Myobatrachidae	<i>Crinia signifera</i>				X	X *	X
	<i>Crinia tasmaniensis</i>						X
	<i>Geocrinia laevis</i>					X *	X
	<i>Pseudophryne semimarmorata</i>	X *					



Cleaning boots to protect habitats © R Mollison



Whistling Tree Frog (*Litoria ewingi*) from Vale of Bevoir © M Driessen



Mammals							
Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
Dasyuridae	<i>Antechinus minimus</i>					X *	X *
	<i>Dasyurus maculatus</i> # ~		X *			X	■
	<i>Dasyurus viverrinus</i>		X *	X *			■
	<i>Sarcophilus harrisii</i> # ~		X *			X	X *
Felidae	<i>Felis catus</i> ^		X *	X *	■		
Leporidae	<i>Lepus capensis</i> ^		X *	X *			
	<i>Oryctolagus cuniculus</i> ^		X *	X *	■	X *	
Macropodidae	<i>Macropus giganteus</i>		X *				
	<i>Macropus rufogriseus</i>	■		X *	■	X *	X *
	<i>Thylogale billardieri</i>	X	X	X *	X *		X *
Muridae	<i>Hydromys chrysogaster</i>	X *	X		X *		
	<i>Mus musculus</i> ^	X *	X *	X *	X		
	<i>Rattus lutreolus</i>	X *	X *	X *	X *	X *	X
	<i>Rattus norvegicus</i> ^				■		
	<i>Rattus rattus</i> ^	X	X	X *	X		
Ornithoryhynchidae	<i>Ornithorynchus anatinus</i>	■			X *		■
Peramelidae	<i>Isoodon obesulus</i> #		X *	X	X *	X *	
	<i>Perameles gunnii</i> #		X *	X	X		
Phalangeridae	<i>Trichosurus vulpeca</i>	X	X *	X	X		
Potoroidae	<i>Bettongia gaimardi</i>	X *	X *	X *	X		
	<i>Potorous tridactylus</i>	X *	X	X *	X	X *	
Pseudocheiridae	<i>Pseudocheirus peregrinus</i>	X	X *	X		X *	
Tachyglossidae	<i>Tachyglossus aculeatus</i>		X *	X *		X *	
Thylacinidae	<i>Thylacinus cynocephalus</i> # ~						■
Vespertilionidae	<i>Chalinolobus gouldii</i>		X *	X *		X *	X *
	<i>Chalinolobus morio</i>					X *	X *
	<i>Falsistrellus tasmaniensis</i>						X *
	<i>Nyctophilus geoffroyi</i>		X *			X *	X *
	<i>Nyctophilus</i> sp.		X *			X *	X *
	<i>Vespadelus darlingtoni</i>			X *			X *
	<i>Vespadelus regulus</i>					X *	
	<i>Vespadelus</i> sp.		X *	X *		X *	X *
<i>Vespadelus vulturnus</i>			X *				
Vombatidae	<i>Vombatus ursinus</i>		X *	X *		X *	X *

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Lesser Long-Eared Bat (*Nyctophilus geoffroyi*), B Glasser

Reptiles

Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
Elapidae	<i>Drysdalia coronoides</i>						X *
	<i>Notechis scutatus</i>	■					
Scincidae	<i>Liopholis whitii</i>					X *	
	<i>Niveoscincus metallicus</i>			■			X *
	<i>Niveoscincus ocellatus</i>						X *
	<i>Niveoscincus pretiosus</i>					X *	X *
	<i>Pseudemoia entrecasteauxii</i>						X *



Whites skink (*Liopholis whitii*) © Museum Victoria



Invertebrates

Bees							
Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
Apidae	<i>Bombus terrestris</i> ^						X *

Butterflies and Moths								
Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir	
Geometridae	<i>Amelora leucaniata</i>					X *		
	<i>Amelora nebulosa</i>					X *		
	<i>Amelora sparsularia</i>					X *		
	<i>Anachloris subochraria</i>		X *					
	<i>Anachloris uncinata</i>						X *	
	<i>Androchela milvaria</i>		X *					
	<i>Androchela newmannaria</i>					X *		
	<i>Androchela smithi</i>		X *				X *	
	<i>Aponotoreas epicrossa</i>		X *			X *		
	<i>Archephanes zalosema</i>						X *	
	<i>Authaemon stenonipha</i>	X *	X *					
	<i>Bradycytena trychnoptila</i>					X *	X *	
	<i>Capusa senilis</i>					X *		
	<i>Casbia crataea</i>			X *				X *
	<i>Casbia farinalis</i>	X *	X *	X *			X *	
	<i>Casbia melanops</i>			X *			X *	
	<i>Chaetolopha leucophragma</i>						X *	
	<i>Chlenias</i> sp.			X *	X *			
	<i>Chlorocoma cadmaria</i>					X *	X *	X *
	<i>Chlorocoma carenaria</i>						X *	
	<i>Chlorocoma dichloraria</i>	X *	X *			X *		
	<i>Chlorocoma externa</i>			X *	X *			
	<i>Chlorocoma melocrossa</i>						X *	
	<i>Chlorocoma tetraspila</i>						X *	X *
<i>Chlorocoma vertumnaria</i>			X *					
<i>Chlorodes boisduvalaria</i>						X *		
<i>Chrysolarentia interruptata</i>			X *		X *		X *	

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Butterflies and Moths								
Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir	
Geometridae	<i>Chrysolarentia mecnata</i>	X *			X *			
	<i>Chrysolarentia severata</i>					X *	X *	
	<i>Ciampa arietaria</i>		X *		X *			
	<i>Conosara castanea</i>	X *					X *	
	<i>Crypsiphona tasmanica</i>		X *			X *		
	<i>Dasybela</i> sp. 1		X *	X *				
	<i>Dichromodes</i> sp. 1			X *				
	<i>Dichromodes</i> sp. 2					X *	X *	
	<i>Dichromodes</i> sp. 3						X *	
	<i>Dichromodes stilbiata</i>					X *	X *	
	<i>Didymoctenia exsuperata</i>			X *				
	<i>Ectropis excursaria</i>			X *			X *	
	<i>Ectropis fractaria</i>			X *		X *	X *	
	<i>Epicyme rubropunctaria</i>						X *	X *
	<i>Epyaxa epia</i>			X *			X *	X *
	<i>Epyaxa</i> sp.	X *						X *
	<i>Epyaxa subidaria</i>	X *	X *	X *			X *	X *
	<i>Euphronarcha epiphloea</i>						X *	
	<i>Fisera eribola</i>			X *				
	<i>Fisera perplexata</i>			X *				
	<i>Furcatrox australis</i>			X *	X *			
	<i>Gastrinodes bitaeniaria</i>			X *	X *			
	<i>Horisme mortuata</i>				X *			
	<i>Hypobapta percomptaria</i>			X *	X *	X *		
	<i>Hypocnopa</i> sp.			X *	X *			
	<i>Idaea inversata</i>			X *				
	<i>Melitulias glandulata</i>	X *				X *		
	'Metrocampa' ada						X *	



Ptunarra brown butterfly (*Oreixenica ptunarra*) © C Symonds

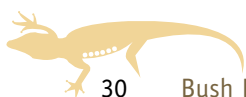
Butterflies and Moths

Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
Geometridae	<i>Microdes</i> sp.				X *	X *	X *
	<i>Microdes squamulata</i>					X *	X *
	<i>Microdes villosata</i>		X *	X *		X *	X *
	<i>Mictodoca toxauta</i>	X *					X *
	<i>Mnesampela comarcha</i>		X *				
	<i>Mnesampela heliochrysa</i>		X *				X *
	<i>Monoctenia falernaria</i>		X *				
	<i>Nearcha nullata</i>					X *	
	<i>Nisista</i> sp.		X *				
	<i>Oenochroma</i> sp.					X *	
	<i>Palleopa innotata</i>		X *				
	<i>Paralaea chionopasta</i>						X *
	<i>Paralaea porphyrinaria</i>	X *					
	<i>Parosteodes fictiliaria</i>		X *	X *	X *		
	<i>Phelotis cognata</i>		X *	X *	X *		
	<i>Pingasa cinerea</i>			X *			
	<i>Plesanemma altafucata</i>						X *
	<i>Plesanemma fucata</i>		X *				
	<i>Poecilasthena pulchraria</i>		X *	X *	X *		X *
	<i>Prasinocyma semicrocea</i>		X *		X *		
<i>Psilosticha attacta</i>						X *	
<i>Psilosticha mactaria</i>					X *		
<i>Psilosticha pristis</i>					X *		
<i>Rhinodia rostraria</i>		X *	X *				
<i>Rhynchopsota delogramma</i>			X *		X *		

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Butterflies and Moths							
Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
Geometridae	<i>Scioglyptis lyciaria</i>	X *	X *	X *	X *	X *	
	<i>Scioglyptis</i> sp.		X *	X *	X *		
	<i>Scopula megalocentra</i>		X *	X *			
	<i>Scopula optivata</i>	X *	X *	X *	X *	X *	
	<i>Scopula rubraria</i>			X *		X *	
	<i>Smyriodes aplectaria</i>		X *				
	<i>Stibaroma melanotoxa</i>	X *	X *				
	<i>Syneora cheleuta</i>					X *	
	<i>Syneora mundifera</i>		X *	X *	X *	X *	X *
	<i>Thalaina inscripta</i>		X *				
<i>Thalaina selenaea</i>		X *					
Lycaenidae	<i>Lampides boeticus</i>			■			
Nymphalidae	<i>Heteronympha merope</i>			X *		X *	
	<i>Heteronympha penelope</i>					X *	
	<i>Junonia villida</i>						X *
	<i>Nymphula nitens</i>				■		
	<i>Oreixenica ptunarra</i> ~						X
	<i>Vanessa itea</i>					X *	
Papilionidae	<i>Graphium macleayanus</i>					X *	
Pieridae	<i>Pieris rapae</i> ^				X *		X *



Chlorocoma carenaria © C Young



Satin Moth (*Thalaina selenaea*) © C Young

Flies							
Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
Keroplatidae	<i>Arachnocampa tasmaniensis</i>						X *



Beetles							
Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
Carabidae	<i>Notonomus politulus</i>						X *
Chrysomelidae	<i>Ewanius nothofagi</i>						X *
	<i>Faex subfasciata</i>						X *
	<i>Paropsides catherinae</i>						X *
	<i>Paropsides nigrolineata</i>						X *
	<i>Paropsides umbrosa</i>						X *
	<i>Paropsis aegrota ellioti</i>		X *				
	<i>Paropsis delittlei</i>		X *				
	<i>Paropsis rubidipes</i>		X *				
	<i>Paropsisterna agricola</i>					X *	X *
	<i>Paropsisterna bimaculata</i>	X *	X *			X *	
	<i>Paropsisterna decolorata</i>		X *			X *	
	<i>Paropsisterna laesa</i>		X *				
	<i>Paropsisterna lignea</i>					X *	
	<i>Paropsisterna obliterated</i>						X *
	<i>Paropsisterna</i> sp. (ch 10)						X *
	<i>Paropsisterna</i> sp. (ch 8)						X *
	<i>Paropsisterna subcostata</i>	X *					
	<i>Paropsisterna trimaculata</i>		X *				
	<i>Peltoschema hamadryas</i>		X *				
	<i>Peltoschema orphana</i>		X *				
<i>Trachymela acclivis</i>		X *					
<i>Trachymela serpiginosa</i>						X *	
<i>Trachymela</i> sp. 1						X *	



Rove Beetles *Staphylinids* © A Throssell



Dr C Symonds processing bug samples © B Bauer

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Thrips							
Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
Phlaeothripidae	<i>Baenothrips moundi</i>					X *	
	<i>Carentothrips badius</i>					X *	
	<i>Carentothrips</i> sp.					X *	
	<i>Cartomothrips</i> sp.					X *	
	<i>Hoplandrothrips</i> sp.					X *	
	<i>Hoplothrips</i> sp.					X *	
	<i>Idolothrips spectrum</i>					X *	
	<i>Lasiothrips</i> sp.					X *	
	<i>Nesothrips</i> sp.					X *	
	<i>Phaulothrips</i> sp.					X *	
	<i>Phlaeothripidae</i> sp.					X *	
	<i>Sophiothrips</i> sp.					X *	
Thripidae	<i>Pseudanaphothrips achaetus</i>					X *	
	<i>Pseudanaphothrips</i> sp.					X *	
	<i>Thrips imaginis</i>					X *	

True Bugs							
Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
Acanthosomatidae	<i>Duadicus pallidus</i>					X *	
	<i>Eupolemus</i> sp. 1						X *
	<i>Eupolemus tasmanicus</i>					X *	
	<i>Eupolemus venustus</i>						X *
	nr <i>Amphaces/Hiarchas</i> sp. 1						X *
	nr <i>Amphaces/Hiarchas</i> sp. 2						X *
	nr <i>Anischys</i> sp. 1						X *
	nr <i>Stauralia</i> sp. 1					X *	
	nr <i>Stauralia</i> sp. 2					X *	
	nr <i>Stauralia</i> sp. 3						X *
Artheneidae	<i>Dilompus robustus</i>					X *	X *
Coreidae	Colpurinid sp.						X *
Cryptorhamphidae	<i>Gonystus</i> sp.						X *
Cydnidae	nr <i>Adrisa</i> sp. 1					X *	
	nr <i>Adrisa</i> sp. 2					X *	
	<i>Ontiscus</i> sp. 1						X *
	<i>Ontiscus</i> sp. 2					X *	
Lygaeidae	<i>Nysius vinitor</i>						X *



Orthotylini n. sp. © C Symonds



True Bugs							
Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
Miridae	<i>Coridromius monotocopsis</i>					X *	X *
	Mirinid gen. et n. sp.					○ *	
	Orthotylinid gen. et n. sp. nov. 1					○ *	
	Orthotylinid gen. et n. sp. nov. 2					○ *	
	<i>Sejanus albignatus</i>						X *
	<i>Wallabioris tasmaniensis</i>						X *
	Zanchinid gen. et n. sp.					○ *	
Nabidae	<i>Nabis biformis/fraternus</i>					X *	X *
	<i>Nabis kinbergii</i>						X *
Pentatomidae	<i>Cuspicona stenuella</i>				X *	X *	
	<i>Diaphyta</i> sp.					X *	
	<i>Omyta centrolineata</i>					X *	
	Pentatominid gen. et n. sp. nov. 1				○ *		
	Pentatominid gen. et n. sp. 2		○ *				○ *
	<i>Platycoris rugosus</i>		X *			X *	
	<i>Tholosanus proximus</i>						X *
Reduviidae	<i>Dicrotelus prolixus</i>						X *
	Emesinae sp.					X *	
	<i>Peirates fuliginosus</i>		X *				
	<i>Peirates</i> sp.				X *		
Rhyparochromidae	nr <i>Aristaenetus</i> sp.					X *	
	Rhyparochromid gen. et n. sp. 1					○ *	

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True Bugs							
Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
Scutelleridae	<i>Choerocoris paganus</i>			X *			
Tingidae	<i>Epimixia veteris</i>					X *	
	<i>Eritingis</i> sp.					X *	
	<i>Oncophysa vesiculata nigra</i>						X *
	<i>Tingis</i> n. sp. nov. 1					○ *	
	<i>Tingis</i> n. sp. nov. 2					○ *	

Grasshoppers							
Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
Acrididae	<i>Kosciuskola tasmanicus</i>						X *
	<i>Minyacris nana</i>					X *	
	<i>Phaulacridium vittatum</i>		X *			X *	X *
	<i>Russalpia</i> sp.						X *
	<i>Tasmaniacris tasmaniensis</i>		X *			X *	X *
Gryllacrididae	<i>Kinemanina ambulans</i>					X *	
	<i>Kinemanina</i> sp.			X *		X *	X *
Pyrgomorphidae	<i>Pseudnura pedestris</i>					X *	
Rhopidophoridae	<i>Parvotettix domesticus</i>		X *	X *			
	<i>Parvotettix goedei</i>					X *	
Tettigoniidae	<i>Anelytra lateralis</i>		X *			X *	
Trigonidiidae	<i>Bobilla poene</i>						X *
	<i>Bobilla</i> sp.	X *			X *	X *	
	<i>Trigonidium canberra</i>					X *	

Preying Mantises							
Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
Mantidae	<i>Tenodera australasiae</i>					X *	



Dragonflies							
Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
Coenagrionidae	<i>Ischnura aurora</i>	X *			X *		X *
	<i>Ischnura heterosticta tasmanica</i>				■		
Hemicorduliidae	<i>Hemicordulia australiae</i>				■	X *	
	<i>Hemicordulia tau</i>					X *	
	<i>Procordulia jacksoniensis</i>						X
Hemiphlebiidae	<i>Hemiphlebia mirabilis</i>					X *	
Lestidae	<i>Austrolestes analis</i>					X *	
	<i>Austrolestes psyche</i>					X *	X *
Synthemistidae	<i>Synthemis tasmanica</i>						X
Telephlebiidae	<i>Austroaeschna hardyi</i>						X
	<i>Austroaeschna parvistigma</i>						X *
	<i>Austroaeschna tasmanica</i>						X

Caddisflies							
Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
Calocidae	Calocidae						X *
Conoesucidae	Conoesucidae sp. 1						X *
	Conoesucidae sp. 2						X *
Hydrobiosidae	<i>Apsilochorema obliquum</i>						X *
	<i>Ethochorema kelion</i>						X *
	<i>Hydrobiosella waddama</i>						X *
	Hydrobiosidae				X *		X *
	<i>Ipsebiosis spicula</i>						X *
	<i>Taschorema apobamum</i>						X *
	<i>Taschorema asmanum</i>						X *
	<i>Taschorema ferulum</i>					X *	
	<i>Taschorema</i> sp.						X *
? <i>Taschorema</i> sp.						X *	
Hydropsychidae	? <i>Diplectronea</i> sp.						X *

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Caddisflies							
Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
Leptoceridae	indet. genus, sp. (<i>Notalina</i> sp. 1 ?)						X *
	indet. genus, sp. (<i>Notalina</i> sp. 2 ?)				X *		
	indet. genus, sp. (<i>Symphitoneuria</i> sp. ?)						X *
	Leptoceridae						X *
	<i>Notalina parkeri</i>				X *		
	<i>Notalina</i> sp. 3						X *
	? <i>Notalina</i> sp.						X *
	<i>Oecetis laustra</i>		X *				
	<i>Oecetis</i> n. sp.		○ *				
	<i>Oecetis pechana</i>				X *		
	<i>Oecetis</i> sp.		X *		■		
	<i>Symphitoneuria opposita</i>					X *	
	<i>Triplectides magnus</i>						X *
	<i>Triplectides</i> sp.						X *
<i>Westripectes pedderensis</i>						X *	
Limnephilidae	<i>Archaeophylax ochreus</i>		X *				X *
	<i>Archaeophylax</i> sp.						X *
Philorheithridae	?Philorheithridae						X *
	<i>Kosrheithrus</i> sp.						X *
Polycentropodidae	<i>Plectrocnemia spilota</i>						X *
Tasimiidae	Tasimiidae sp.			X *			

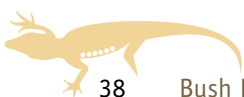
Millipedes							
Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
Dalodesmidae	<i>Atrophotergum silvaticum</i>						X *
	<i>Gasterogramma imber</i>						X *
	<i>Gasterogramma psi</i>					X *	X *
	<i>Ginglymodesmus tasmanianus</i>						X *
	<i>Lissodesmus hamatus</i>		X *				
	<i>Lissodesmus latus</i>						X *
	<i>Lissodesmus perporosus</i>						X *
	<i>Tasmaniosoma armatum</i>		X *	X *			
	<i>Tasmaniosoma compitale</i>					X *	X *



Millipedes							
Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
Julidae	<i>Cylindroiulus</i> sp. ^	X *					
	<i>Ommatoiulus moreleti</i> ^			X *			
Metopidiotrichidae	<i>Austroleuma jeekeli</i>	X *	X *			X *	X *
	<i>Austroleuma mauriesi</i>						■
Paradoxosomatidae	<i>Aethalosoma solum</i>	X *	X *				
	<i>Notodesmus scotius</i>		X *				
	<i>Somethus mesibovi</i>					X *	
	<i>Somethus tasmani</i>						X *
Peterjohnsiidae	<i>Peterjohnsia titan</i>						X *
Polydesmidae	<i>Polydesmid</i> n. sp. ER3			○ *			
	<i>Polydesmid</i> n. sp. F1						○ *
	<i>Polydesmid</i> n. sp. T10		○ *				
	<i>Polydesmid</i> n. sp. T'x'						○ *
Siphonotidae	<i>Polyzoniid</i> n. sp. HetAus	○ *				○ *	
	<i>Polyzoniid</i> n. sp. SipTas						○ *
Unplaced	<i>Paredrodesmus purpureus</i>	X *					
Unplaced	<i>Procophorella innupta</i>					X *	

Spiders							
Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
Amaurobiidae	Amaurobiidae unid. genus, sp.		X *				X *
	<i>Protohahniid</i> unid. sp.		X *				X *
	<i>Tasmidgee</i> n. genus, unid. sp.					X *	
Amphinectidae	Amphinectidae unid. genus, sp.					X *	X *
	Tasmarubriinae unid. genus, sp.	X *	X *				X *
	<i>Tasmarubrius</i> unid. sp.		X *			X *	X *
	<i>Teatta</i> unid. sp.					X *	
Araneae	<i>Chenistonia</i> sp.		X *	X *			
Araneidae	Araneidae unid. genus, sp. (green)		X *				
	<i>Araneus arenaceus</i>				X *		
	<i>Deliochus</i> unid. sp. (<i>humili?</i>)			X *			

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Spiders							
Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
Araneidae	<i>Dolophones</i> unid. sp.			X *			
	<i>Eriophora pustulosa</i>		X *				
	<i>Eriophora</i> unid. sp.			X *			
	<i>Heurodes</i> unid. sp.	X *					
Clubionidae	<i>Cheiracanthium</i> unid. sp.		X *				
	<i>Clubiona</i> n. sp. 1 (Megapo)		X *				
	<i>Clubiona</i> unid. sp.	X *	X *	X *			
Corinnidae	<i>Battalus</i> n. sp.		X *				
	<i>Poecilipta</i> n. sp.		X *				
	<i>Supunna funerea</i>		X *	X *			
Cycloctenidae	<i>Cycloctenus</i> sp. 1					X *	X *
Desidae	<i>Badumna</i> unid. sp.	X *	X *				
	<i>Neodesis</i> n. genus, n. sp.		X *			X *	
	<i>Paramatachia</i> unid. sp.		X *				
Dictynidae	<i>Arangina</i> sp. 1		X *				
Gnaphosidae	<i>Eilica</i> sp. 1		X *	X *			
	Gnaphosidae (MegaApo1)		X *				
	Gnaphosidae (Q-jewel)		X *				
	Gnaphosidae sp. 1			X *			
	Gnaphosidae sp. 2			X *			
	Gnaphosidae unid. sp.		X *	X *		X *	X *
	<i>Hemicloea</i> unid. sp.		X *				
	<i>Megamyrmekion</i> unid. sp.		X *	X *			



Tasmanicosa sp. © R Raven



Spiders							
Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
Hexathelidae	<i>Hadronyche venenata</i>		X *	X		X *	X *
	<i>Teranodes</i> (sp.1?)			X *		X *	X *
	<i>Teranodes</i> n. sp. (?)					X *	X *
Idiopidae	<i>Euoplos</i> (sp.1?)		X *	X *			
	<i>Euoplos</i> n. sp. (?)		X *	X *			
	<i>Euoplos</i> pr1			X *			
	<i>Euoplos</i> sp. 2 (pr1)			X *			
Lamponidae	<i>Paralampona domain</i>		X *	X *			
Linyphiidae	<i>Araeoncus</i> unid. sp.	X *					
	<i>Bathyphantes quinquidecimpunctata</i>						X *
	<i>Laperousea</i> unid. sp.		X *				
	Linyphiidae unid. sp.	X *	X *			X *	X *
	Linyphiidae unid. sp (1)				X *		
	Linyphiidae unid. sp (2)				X *		
	<i>Ostearius melanopygus</i>		X *				
Lycosidae	<i>Artoria</i> (sp. 2?)				X *		X *
	<i>Artoria albopilata</i>	X *	X *	X *	X *	X *	X *
	<i>Artoria flavimanus</i>	X *		X *			X *
	<i>Artoria</i> n. sp. (<i>Artoria cingulipes</i> group)				X *	X *	X *



New species of Funnel Web Spider, Hexathelidae, *Teranodes* sp. nov. (male) © R Raven



New species of Funnel Web Spider, Hexathelidae, *Teranodes* sp. nov. (female) © R Raven

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Spiders							
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Lycosidae	<i>Artoria</i> sp.					X *	
	<i>Artoria victoriensis</i>				X *		
	<i>Kangarosa tasmaniensis</i>	X *			X *		
	<i>Lycosa</i> sp. 1 (juvenile)			X *			
	Lycosidae n. gen, n. sp. "Grey Wolf Spider"		○ *		○ *		
	<i>Tasmanicosa</i> sp.						X *
	<i>Tasmanicosa</i> unid. sp. (<i>T. godeffroyi</i> or <i>T. subrufa</i>)						X *
	<i>Venatrix funesta</i>		X *				X *
	<i>Venatrix pictiventris</i>		X *	X *	X *		
	<i>Venatrix pseudospeciosa</i>					X *	X *
	<i>Venatrix</i> unid. sp. (<i>pseudospeciosa</i> ?)					X *	
Micropholcommatidae	<i>Micropholcomma</i> unid. sp.					X *	X *
Migidae	<i>Migas</i> sp 1			X *			
	<i>Migas</i> sp. 2					X *	
	<i>Migas</i> unid. sp. (n. sp ?)			X *		X *	
Miturgidae	<i>Mituliodon tarantulina</i>	X *					
	<i>Miturga agelinina</i>	X *	X *				X *
	Miturgidae n. genus, n. sp. 1		○ *			○ *	
Mysmenidae	<i>Mysmena</i> unid. sp.	X *					
Nemesiidae	<i>Chenistonia</i> unid. sp. (<i>trevallynia</i> ?)		X *	X *			
	<i>Stanwellia</i> n. sp.					X *	
	<i>Stanwellia</i> sp.					X *	
Nicodamidae	<i>Ambicodamus crinitus</i>	X *	X *	X *		X *	
Oxyopidae	<i>Oxyopes</i> unid. sp.				X *		
Pisauridae	<i>Dolomedes</i> n. sp. 1				X *		
Salticidae	<i>Opisthoncus</i> unid. sp.	X *	X *				
	<i>Opisthoncus</i> unid. sp. (<i>magnidens</i> ?)				X *		
	<i>Rhene</i> unid. sp.				X *		
	Salticidae sp. "Longtrocs"		X *				
	Salticidae unid. sp.	X *	X *	X *		X *	X *
	unid. genus ("Longtrocs"), sp.		X *		X *		
Segestriidae	<i>Ariadna</i> n. sp. 1		X *				
	<i>Ariadna</i> unid. sp. (<i>segmentata</i> ?)		X *	X *			



Spiders							
Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
Sparassidae	<i>Delena cancerides</i>		X *				
	<i>Neosparassus</i> unid. sp.		X *				
Stiphidiidae	<i>Stiphidion</i> unid. sp.		X *				
Tetragnathidae	<i>Tetragnatha</i> unid. sp.				X *		
Theridiidae	<i>Crustulina</i> sp. 1			X *			
	<i>Hadrotarsus</i> unid. sp.		X *				
	<i>Latrodectus hasseltii</i>			X *			
	<i>Latrodectus</i> unid. sp. ^		X *				
	<i>Steatoda</i> sp. 1			X *			
	Theridiidae unid. sp. " <i>Pseudonicodamus</i> "						X *
Thomisidae	<i>Diaea brown</i>			X *			
	<i>Diaea rosea</i>			X *			
	<i>Diaea</i> sp. 1	X *					
	<i>Sidymella</i> sp. 1		X *		X *	X *	
	<i>Stephanopis</i> sp. 1	X *	X *				
Trochanteriidae	<i>Trachycosmus sculptilis</i>		X *				
Zodariidae	<i>Habronestes tasmeniensis</i>		X *				
	<i>Habronestes</i> unid. (sp. 1?)	X *	X *	X *		X *	
	<i>Habronestes</i> unid. sp. (17?)					X *	
	<i>Habronestes</i> unid. sp. 1		X *				
	Zodariidae unid. genus, sp. (<i>Hetaerica</i> sp. 1?)		X *				
	Zodariidae unid. sp. (3spot)			X *			
	Zodariidae unid. sp. (small1)			X *			
Zoridae	<i>Argoctenus</i> n. sp. cf (pictus?)		X *				
	<i>Argoctenus</i> unid. sp. (picta?)		X *				
	<i>Elassoctenus</i> n. sp. (TasBlk5.2)		X *				
	<i>Hestimodema</i> sp. 1		X *				
	<i>Hestimodema</i> unid. sp. (twoplus2)	X *	X *	X *			
	<i>Thasyrhea</i> unid. sp.				X *		

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Mountain shrimp (*Anaspides tasmaniae*) © N Doran

Crustaceans

Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
Anaspididae	<i>Anaspides tasmaniae</i>						X *
Paramelitidae	<i>Austrogammarus</i> sp.						X *
Parastacidae	<i>Geocharax gracilis</i>					X *	
Talitridae	<i>Keratroides vulgaris</i>	X *					X *
	<i>Mysticotalitrus cryptus</i>	X *					
	<i>Mysticotalitrus tasmaniae</i>	X *					
	<i>Tasmanorchestia annulata</i>					X *	

Snails and Slugs

Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
Agriolimacidae	<i>Deroceras panormitanum</i>	X *					
	<i>Deroceras reticulatum</i>	X *	X *		X *		X *
Arionidae	<i>Arion hortensis</i> ^			X *			
	<i>Arion intermedius</i> ^	X *	X *	X *		X *	X *
Caryodidae	<i>Caryodes dufresnii</i>		X *	X *			



Snails and Slugs

Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
Charopidae	<i>Allocharopa "Legrandi"</i>	X *					
	<i>Allocharopa n. sp. "Belvoir"</i>						○ *
	<i>Allocharopa sp. "Christ College"</i>		X *				
	<i>Allocharopa tarravillensis</i>					X *	
	<i>Bischoffena bischoffensis</i>						X *
	<i>Dentherona dispar</i>						X
	<i>Discocharopa mimosa</i>	X *				X *	
	<i>Discocharopa n. sp. "Mimic"</i>					○ *	
	<i>Discocharopa vigens ~</i>			■			
	<i>Elsothera ricei</i>			X *			
	<i>Oreomava johnstoni</i>					X *	
	<i>Pernagera kingstonensis</i>					X *	X *
	<i>Planilaoma luckmanii</i>	X *	X *	■		X *	
	<i>Planilaoma sp. (cf. truncanini unallocated)</i>		X *				
	<i>Roblinella gadensis</i>					X *	
	<i>Roblinella sp. "Tahune"</i>						X *
	<i>Stenacapha ducani</i>					X	X
<i>Stenacapha hamiltoni</i>						X	
<i>Stenacapha sp. "St Clair"</i>						X *	
<i>Thryasona diemenensis</i>					X *	X *	
Cystopeltidae	<i>Cystopelta bicolor</i>						X
Helicarionidae	<i>Helicarion cuvieri</i>						■
	<i>Helicarion sp. cf. cuvieri</i>		X *			X *	X *
Helicidae	<i>Cantareus aspersa</i> ^				X *		X *
Hygromiidae	<i>Microxeromagna armillata</i> ^				X *		
	<i>Prietocella barbara</i> ^				X *		
Limacidae	<i>Lehmannia nyctelia</i> ^	X *	X *	X *			
	<i>Limax maximus</i> ^		X *				
Punctidae	<i>Laomavix collisi</i>	X *	X *			X *	
	<i>Magilaoma penolensis</i>					X *	
	<i>Paralaoma caputspinulae</i>	X *	X *	X			X *
	<i>Paralaoma servilis</i>	X *	X *	X *	X *		
	<i>Paralaoma sp. "Knocklofty"</i>			X *	X *	X *	

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Snails and Slugs							
Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
Punctidae	<i>Pasmaditta</i> sp. "Pepper"						X *
	<i>Pedicamista</i> sp. "Chisholm"					X *	
	<i>Punctidae</i> sp. "Micro Cripps"						X *
	<i>Trocholaoma parvissimia</i>		X *			X *	X *
Rhytididae	<i>Prolesophanta dyeri</i>					X *	X *
	<i>Prolesophanta nelsonensis</i>		X *	X			
	<i>Tasmaphena lamproides</i> ~					X *	
	<i>Tasmaphena ruga</i>		X *	■			
	<i>Tasmaphena sinclairi</i>						X *
	<i>Victaphanta milligani</i>					X *	X *
Vitrinidae	<i>Vitrina pellucida</i> ^		X *	X *	X *		
Zonitidae	<i>Oxychilus cellarius</i> ^	X *	X *	X *	X *		X *



Milligan's Carnivorous Land Snail (*Victaphanta milligani*),
16 mm long © K Bonham



Flora

Flowering Plants							
Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
Aizoaceae	<i>Aptenia cordifolia</i> ^			X *			
	<i>Carpobrotus rossii</i>				X *		
Amaranthaceae	<i>Ptilotus spathulatus</i>				X		
Apiaceae	<i>Foeniculum vulgare</i> ^				X *		
	<i>Hydrocotyle hirta</i>					X *	
Apocynaceae	<i>Vinca major</i> ^			X *			
Asparagaceae	<i>Arthropodium milleflorum</i>			X			
	<i>Lomandra longifolia</i>	X *		X *			
Asphodelaceae	<i>Bulbine glauca</i>			X			
Asteraceae	<i>Bedfordia salicina</i>			X		X *	
	<i>Brachyscome aculeata</i>			X			X
	<i>Brachyscome decipiens</i>						X
	<i>Brachyscome rigidula</i> ~				X		
	<i>Brachyscome spathulata</i>						X
	<i>Carduus pycnocephalus</i> ^					X *	
	<i>Cassinia aculeata</i>			X			X
	<i>Celmisia asteliifolia</i>						X
	<i>Celmisia saxifraga</i>						X
	<i>Centaurea melitensis</i> ^					X *	
	<i>Centipeda elatinoides</i>					X *	
	<i>Chrysanthemoides monilifera</i> subsp. <i>monilifera</i> ^					X *	
	<i>Chrysocephalum apiculatum</i>					X	
	<i>Chrysocephalum semipapposum</i>				X *		
	<i>Cirsium arvense</i> ^						X *

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Banyalla (*Pittosporum bicolour*) © Tasmanian Herbarium

Flowering Plants

Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
Asteraceae	<i>Cirsium vulgare</i> ^					X *	
	<i>Conyza bonariensis</i> ^				X *		
	<i>Coronidium scorpioides</i>			X			X *
	<i>Cotula alpina</i>						X
	<i>Cotula australis</i>				X		X
	<i>Craspedia glauca</i>						X
	<i>Dittrichia graveolens</i> ^				X *		
	<i>Erigeron bellidioides</i>						X
	<i>Erigeron gunnii</i>						X
	<i>Erigeron stellatus</i>						X
	<i>Euchiton collinus</i>						X
	<i>Euchiton involucratus</i>				X *		
	<i>Euchiton traversii</i>						X
	<i>Helichrysum luteoalbum</i>					X	X *
	<i>Hypochaeris radicata</i> ^						X *
<i>Lagenophora stipitata</i>					X	X	



Flowering Plants

Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
Asteraceae	<i>Leontodon saxatilis</i> ^			X *			
	<i>Leptinella reptans</i>						X
	<i>Leptorhynchos nitidulus</i>			X			
	<i>Leptorhynchos squamatus</i>			X	X		X
	<i>Leucochrysum albicans</i> var. <i>tricolor</i> # ~						X
	<i>Microseris lanceolata</i>			X			X
	<i>Millotia tenuifolia</i>					X	
	<i>Olearia algida</i>						X
	<i>Olearia argophylla</i>						X *
	<i>Olearia ericoides</i>				X		
	<i>Olearia erubescens</i>				X		X
	<i>Olearia floribunda</i>				X		
	<i>Olearia glandulosa</i>				X	X *	
	<i>Olearia obcordata</i>						X
	<i>Olearia phlogopappa</i>				X		X
	<i>Olearia pinifolia</i>						X
	<i>Olearia ramulosa</i>				X	X	
	<i>Ozothamnus ferrugineus</i>				X		
	<i>Ozothamnus hookeri</i>						X
	<i>Ozothamnus obcordatus</i>				X	X	
	<i>Ozothamnus scutellifolius</i>				X		
	<i>Picris angustifolia</i> subsp. <i>merxmulleri</i>				X		
	<i>Podolepis jaceoides</i>						X
	<i>Rhodanthe anthemoides</i> ~						X
	<i>Senecio glomeratus</i>				X		
	<i>Senecio hispidulus</i>				X		
	<i>Senecio minimus</i>				X *		X *
	<i>Senecio pinnatifolius</i>						X *
	<i>Senecio quadridentatus</i>				X	X	
	<i>Solenogyne dominii</i>				X		
	<i>Solenogyne gunnii</i>					X	
	<i>Sonchus oleraceus</i> ^					X *	
	<i>Vellereophyton dealbatum</i> ^					X *	
<i>Xerochrysum subundulatum</i>						X *	

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Flowering Plants							
Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
Atherospermataceae	<i>Atherosperma moschatum</i>					X *	X
Brassicaceae	<i>Cardamine paucijuga</i>			X *			
	<i>Hirschfeldia incana</i> ^				X *		
Campanulaceae	<i>Lobelia anceps</i>	X *			X *		
	<i>Wahlenbergia stricta</i>			X *			
Campynemataceae	<i>Campynema lineare</i>						X
Caprifoliaceae	<i>Sambucus gaudichaudiana</i>					X *	
Caryophyllaceae	<i>Colobanthus affinis</i>						X
	<i>Scleranthus biflorus</i>						X
	<i>Scleranthus brockiei</i> ~			X			X
	<i>Scleranthus fasciculatus</i> ~			X			X
Casuarinaceae	<i>Allocasuarina littoralis</i>			X			
	<i>Allocasuarina monilifera</i>					X *	
	<i>Allocasuarina verticillata</i>			X	X		



White daisies (*Rhodanthe anthemoides*) at Vale of Belvoir © R Mollison

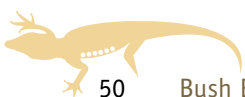


Flowering Plants							
Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
Centrolepidaceae	<i>Centrolepis aristata</i>					X *	
	<i>Centrolepis strigosa</i>					X *	
Chenopodiaceae	<i>Atriplex prostrata</i> ^	X *			X *		
	<i>Chenopodium glaucum</i> ^	X *			X *		
	<i>Dysphania pumilio</i> ^				X *		
	<i>Einadia nutans</i> subsp. <i>nutans</i>			X *	X		
	<i>Rhagodia candolleana</i> subsp. <i>candolleana</i>			X *			
Cunoniaceae	<i>Bauera rubioides</i>					X *	
Cyperaceae	<i>Baumea tetragona</i>					X *	
	<i>Gahnia grandis</i>	X *				X *	
	<i>Gahnia trifida</i>	X *					
	<i>Gymnoschoenus sphaerocephalus</i>					X *	
	<i>Isolepis cernua</i>				X *		
	<i>Isolepis limbata</i>					X *	
	<i>Isolepis setacea</i> ^			X *			
	<i>Isolepis</i> sp.	X *					
	<i>Lepidosperma concavum</i>					X *	
	<i>Lepidosperma curtisiae</i>			X *			
	<i>Lepidosperma elatius</i>					X *	
	<i>Lepidosperma filiforme</i>					X *	X *
	<i>Lepidosperma laterale</i>			X *			
	<i>Schoenoplectus pungens</i>				X *		
	<i>Schoenus lepidosperma</i> subsp. <i>lepidosperma</i>					X *	
	<i>Schoenus maschalinus</i>					X *	
	<i>Schoenus nitens</i>				X *		
<i>Uncinia riparia</i>					X *		
<i>Uncinia tenella</i>					X *		
Dilleniaceae	<i>Hibbertia hirsuta</i>			X *			
	<i>Hibbertia procumbens</i>					X *	X
Dipsacaceae	<i>Dipsacus fullonum</i> ^				X *		

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Flowering Plants								
Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir	
Droseraceae	<i>Drosera auriculata</i>					X		
	<i>Drosera binata</i>						X	
	<i>Drosera pygmaea</i>					X *		
Ericaceae	<i>Acrothamnus hookeri</i>						X	
	<i>Acrothamnus montanus</i>						X	
	<i>Acrotriche serrulata</i>			X				
	<i>Astroloma humifusum</i>			X	X			
	<i>Astroloma pinifolium</i>					X *		
	<i>Cyathodes glauca</i>		X					
	<i>Epacris acuminata</i>		X					
	<i>Epacris gunnii</i>						X	
	<i>Epacris impressa</i>			X	X			
	<i>Epacris lanuginosa</i>					X *	X	
	<i>Epacris obtusifolia</i>					X		
	<i>Epacris serpyllifolia</i>						X	
	<i>Erica lusitanica</i> ^	X *					X *	
	<i>Gaultheria tasmanica</i>							X
	<i>Leptecophylla divaricata</i>				X			
	<i>Leptecophylla juniperina</i>							X
	<i>Leptecophylla juniperina</i> subsp. <i>parvifolia</i>							X
	<i>Leptecophylla pogonocalyx</i>							X
	<i>Leucopogon australis</i>						X	
	<i>Leucopogon collinus</i>						X *	X
	<i>Leucopogon fraseri</i>							X
	<i>Leucopogon pilifer</i>							X
	<i>Leucopogon virgatus</i>				X			
	<i>Lissanthe strigosa</i>				X			
	<i>Monotoca empetrifolia</i>							X
	<i>Monotoca glauca</i>	X *					X *	X
	<i>Monotoca linifolia</i> subsp. <i>algida</i>							X
	<i>Monotoca submutica</i> var. <i>submutica</i>						X *	X
	<i>Pentachondra pumila</i>							X
	<i>Richea acerosa</i>							X
<i>Richea gunnii</i>							X	
<i>Richea procera</i>							X	



Allocasuarina monilifera © Tasmanian Herbarium

Flowering Plants

Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
Ericaceae	<i>Richea scoparia</i>						X
	<i>Sprengelia incarnata</i>					X *	X
	<i>Trochocarpa cunninghamii</i>						X
	<i>Trochocarpa gunnii</i>						X
Euphorbiaceae	<i>Beyeria viscosa</i>						X *
	<i>Euphorbia lathyris</i> ^				X *		
	<i>Phyllanthus australis</i>			X			
	<i>Poranthera microphylla</i>			X	X		X
Fabaceae	<i>Acacia dealbata</i>			X	X		X
	<i>Acacia genistifolia</i>			X			
	<i>Acacia mearnsii</i>			X	X		
	<i>Acacia melanoxylon</i>			X		X *	
	<i>Acacia mucronata</i>					X *	X
	<i>Acacia parvissima</i>			X			
	<i>Acacia riceana</i>		X				
	<i>Acacia stricta</i>			X			
<i>Acacia verticillata</i>	X *				X	X *	X *

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Flowering Plants							
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Fabaceae	<i>Acacia verticillata</i> subsp. <i>verticillata</i>			X			
	<i>Almaleea subumbellata</i>						X
	<i>Bossiaea cordigera</i>						X
	<i>Bossiaea prostrata</i>			X			
	<i>Daviesia latifolia</i>			X			
	<i>Daviesia ulicifolia</i>			X			
	<i>Dillwynia glaberrima</i>					X *	
	<i>Gompholobium huegelii</i>					X *	
	<i>Lotus angustissimus</i> ^				X *		
	<i>Pultenaea daphnoides</i> var. <i>obcordata</i>				X *		
	<i>Pultenaea dentata</i>					X *	
	<i>Pultenaea juniperina</i>				X		X
	<i>Pultenaea pedunculata</i>				X		
<i>Sphaerolobium minus</i>				X			
Gentianaceae	<i>Centaurium erythraea</i> ^					X *	
	<i>Centaurium tenuiflorum</i> ^			X *			
Geraniaceae	<i>Erodium cicutarium</i>				X *		
	<i>Geranium potentilloides</i>						X *
	<i>Geranium</i> sp.				X *		
Goodeniaceae	<i>Goodenia ovata</i>			X *	X *		
	<i>Selliera radicans</i>				X *		
Hemerocallidaceae	<i>Dianella brevicaulis</i>			X			
	<i>Dianella revoluta</i>			X	X *		
	<i>Dianella tasmanica</i>			X		X *	X
	<i>Herpolirion novae-zelandiae</i>						X
	<i>Phormium tenax</i> ^	X *					
Iridaceae	<i>Diplarrena latifolia</i>						X *
	<i>Diplarrena moraea</i>			X			X
	<i>Libertia pulchella</i>						X
	<i>Patersonia fragilis</i>					X *	
Juncaceae	<i>Juncus australis</i>	X *					
	<i>Juncus bassianus</i>					X *	
	<i>Juncus kraussii</i> subsp. <i>australiensis</i>	X *			X *		
	<i>Juncus pallidus</i>	X *		X *			
	<i>Juncus planifolius</i>					X *	
	<i>Juncus procerus</i>					X *	



Flowering Plants							
Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
Juncaceae	<i>Juncus sarophorus</i>	X *					
	<i>Juncus</i> sp.	X *		X *			
Lamiaceae	<i>Prunella vulgaris</i> ^			X *			
Lauraceae	<i>Cassytha pubescens</i>			X		X *	
Lentibulariaceae	<i>Utricularia dichotoma</i>					X *	
	<i>Utricularia lateriflora</i>					X *	
Linaceae	<i>Linum trigynum</i> ^			X *			
Loganiaceae	<i>Mitrasacme pilosa</i>					X *	
Luzuriagaceae	<i>Drymophila cyanocarpa</i>					X *	
Malvaceae	<i>Malva sylvestris</i> ^				X *		
Menyanthaceae	<i>Nymphoides exigua</i>						X
	<i>Villarsia reniformis</i>				X		
Myrtaceae	<i>Eucalyptus amygdalina</i>			X	X		X
	<i>Eucalyptus archeri</i>						X
	<i>Eucalyptus coccifera</i>						X
	<i>Eucalyptus dalrympleana</i>						X
	<i>Eucalyptus delegatensis</i>						X
	<i>Eucalyptus globulus</i> subsp. <i>globulus</i>			X			
	<i>Eucalyptus globulus</i> subsp. <i>pseudoglobulus</i>			X			
	<i>Eucalyptus gunnii</i>						X
	<i>Eucalyptus nitida</i>					X *	
	<i>Eucalyptus obliqua</i>			X		X *	
	<i>Eucalyptus ovata</i>	X *		X			
	<i>Eucalyptus pulchella</i>			X			
	<i>Eucalyptus risdonii</i> ~			X			
	<i>Eucalyptus subcrenulata</i>						X
	<i>Eucalyptus tenuiramis</i>			X *			
	<i>Eucalyptus viminalis</i> subsp. <i>viminalis</i>			X	X		
	<i>Leptospermum glaucescens</i>						X *
	<i>Leptospermum lanigerum</i>	X *				X	X *
<i>Leptospermum rupestre</i>							X
<i>Leptospermum scoparium</i>	X *			X		X *	

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Flowering Plants							
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Myrtaceae	<i>Melaleuca ericifolia</i>					X *	
	<i>Melaleuca squamea</i>					X *	
Nothofagaceae	<i>Nothofagus cunninghamii</i>						X
Onagraceae	<i>Epilobium billardiereanum</i>				X		X
	<i>Epilobium billardiereanum</i> subsp. <i>intermedium</i>				X		
	<i>Epilobium ciliatum</i> ^				X *		
	<i>Epilobium curtisiae</i>						X
Orchidaceae	<i>Acianthus pusillus</i>		X				
	<i>Caladenia alpina</i>						X
	<i>Caladenia carnea</i>		X				
	<i>Caladenia fuscata</i>		X				
	<i>Caladenia gracilis</i>		X				
	<i>Chiloglottis cornuta</i>						X
	<i>Chiloglottis reflexa</i>		X				
	<i>Corybas diemenicus</i>		X			X	
	<i>Cyrtostylis reniformis</i>		X				
	<i>Cyrtostylis robusta</i> ~		X				
	<i>Diuris pardina</i>			X			
	<i>Eriochilus cucullatus</i>		X			X *	
	<i>Gastrodia sesamoides</i>				X		
	<i>Microtis unifolia</i>	X *			X		
	<i>Prasophyllum alpestre</i>						
	<i>Prasophyllum alpinum</i>						X
	<i>Prasophyllum australe</i>						X
	<i>Prasophyllum mimulum</i>						X
	<i>Pterostylis alata</i>		X	X			
	<i>Pterostylis nana</i>				X		
	<i>Pterostylis pedunculata</i>				X		
	<i>Sarcophilus australis</i>						X *
	<i>Thelymitra aristata</i>				X		
<i>Thelymitra ixioides</i>				X			
<i>Thelymitra peniculata</i>				X			
Oxalidaceae	<i>Oxalis corniculata</i> ^					X *	
	<i>Oxalis perennans</i>			X *			
	<i>Oxalis radicata</i>					X *	
Phrymaceae	<i>Mazus pumilio</i>					X *	
	<i>Mimulus repens</i>				X		



Flowering Plants							
Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
Proteaceae	<i>Grevillea australis</i>						X
	<i>Lomatia tinctoria</i>			X			
	<i>Orites acicularis</i>						X
	<i>Orites revolutus</i>						X
	<i>Persoonia juniperina</i>					X *	
	<i>Persoonia muelleri</i>						X
	<i>Telopea truncata</i>						X
Restionaceae	<i>Baloskion tetraphyllum</i> subsp. <i>tetraphyllum</i>			X *			
	<i>Calorophus elongatus</i>			X *			
	<i>Empodisma minus</i>					X *	
	<i>Eurychorda complanata</i>					X *	
	<i>Leptocarpus tenax</i>	X *			X *	X *	
	<i>Sporodanthus tasmanicus</i>					X *	
Rhamnaceae	<i>Pomaderris apetala</i> subsp. <i>apetala</i>	X *					
	<i>Pomaderris elliptica</i> var. <i>elliptica</i>			X *			



Jointed Rush (*Juncus kraussii*) at Murphys Flat © R Mollinson



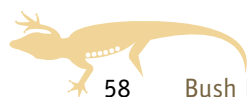
Flowering Plants

Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
Rosaceae	<i>Acaena montana</i>						X *
	<i>Acaena novae-zelandiae</i>					X *	
	<i>Crataegus monogyna</i> ^				X *		
	<i>Rosa rubiginosa</i> ^			X *	X *		
	<i>Rubus</i> sp. ^	X *				X *	
Rubiaceae	<i>Coprosma nitida</i>						X *
	<i>Galium divaricatum</i> ^			X *			
Rutaceae	<i>Boronia citriodora</i>						X
	<i>Boronia parviflora</i>					X *	
	<i>Boronia pilosa</i>			X			
	<i>Correa reflexa</i> var. <i>reflexa</i>			X			
	<i>Philotheca verrucosa</i>			X			
	<i>Zieria arborescens</i> subsp. <i>arborescens</i>					X *	
Santalaceae	<i>Exocarpos cupressiformis</i>			X *			
	<i>Exocarpos strictus</i>			X *			
	<i>Dodonaea viscosa</i> subsp. <i>spatulata</i>			X	X		
Scrophulariaceae	<i>Euphrasia collina</i>						X
	<i>Euphrasia collina</i> subsp. <i>diemenica</i>						X
	<i>Gratiola nana</i>						X
	<i>Veronica calycina</i>						X
	<i>Veronica formosa</i>			X			
	<i>Veronica gracilis</i>			X	X		X
	<i>Veronica serpyllifolia</i> ^						X
Solanaceae	<i>Lycium ferocissimum</i> ^				X *		
	<i>Solanum laciniatum</i>	X *				X *	
	<i>Solanum nigrum</i> ^				X *		
	<i>Solanum physalifolium</i> var. <i>nitidibaccatum</i> ^				X *		
Stylidiaceae	<i>Stylidium graminifolium</i>			X		X *	X
Thymelaeaceae	<i>Pimelea drupacea</i>					X *	
	<i>Pimelea glauca</i>			X	X		
	<i>Pimelea ligustrina</i>					X *	
	<i>Pimelea nivea</i>			X			

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Flowering Plants							
Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
Urticaceae	<i>Australina pusilla</i> subsp. <i>pusilla</i>					X *	
	<i>Urtica incisa</i>					X *	
Violaceae	<i>Melicytus dentatus</i>						X *
Xyridaceae	<i>Xyris marginata</i>					X *	
	<i>Xyris operculata</i>					X *	
	<i>Xyris tasmanica</i>					X *	

Gymnosperms							
Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
Podocarpaceae	<i>Phyllocladus aspleniifolius</i>						X
	<i>Podocarpus lawrencei</i>						X



Pressing plant specimens, B Glasser

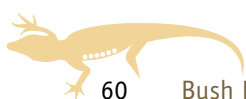


Ferns and Fern Allies							
Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
Aspleniaceae	<i>Asplenium flaccidum</i> subsp. <i>flaccidum</i>					X *	
Blechnaceae	<i>Blechnum pennamarina</i>					X *	
	<i>Blechnum watsii</i>					X *	
Dennstaedtiaceae	<i>Histiopteris incisa</i>					X *	
	<i>Hypolepis rugosula</i>					X *	
	<i>Pteridium esculentum</i>	X *				X *	
Dicksoniaceae	<i>Dicksonia antarctica</i>					X *	
Dryopteridaceae	<i>Lastreopsis hispida</i>					X *	
	<i>Polystichum proliferum</i>					X *	
	<i>Rumohra adiantiformis</i>					X *	
Gleicheniaceae	<i>Gleichenia dicarpa</i>					X *	
	<i>Gleichenia microphylla</i>					X *	
Hymenophyllaceae	<i>Hymenophyllum australe</i>					X *	
	<i>Hymenophyllum cupressiforme</i>					X *	
	<i>Hymenophyllum flabellatum</i>					X *	
	<i>Hymenophyllum rarum</i>					X *	
Lycopodiaceae	<i>Lycopodium deuterodensum</i>					X *	
	<i>Lycopodium fastigiatum</i>						X *



Flax Lily (*Dianella tasmanicus*) © Tasmanian Herbarium

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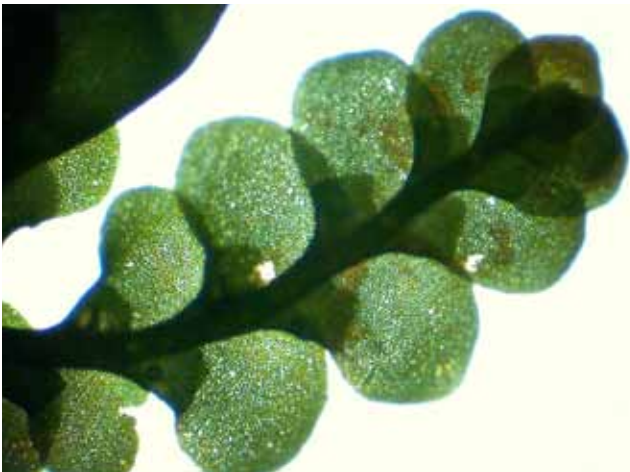


Ferns and Fern Allies							
Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
Polypodiaceae	<i>Ctenopteris heterophylla</i>					X *	
	<i>Grammitis billardierei</i>					X *	
	<i>Microsorium pustulatum</i> subsp. <i>pustulatum</i>					X *	
Psilotaceae	<i>Tmesipteris obliqua</i>					X *	
Pteridaceae	<i>Pellaea falcata</i>					X *	
	<i>Pteris tremula</i>					X *	
Schizaeaceae	<i>Schizaea fistulosa</i>					X *	
Selaginellaceae	<i>Selaginella uliginosa</i>					X *	
Woodsiaceae	<i>Diplazium australe</i>					X *	

Liverworts							
Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
Acrobolbaceae	<i>Marsupidium surculosum</i>						X *
	<i>Tylimanthus pseudosaccatus</i>						X *
	<i>Tylimanthus tenellus</i>					X *	X *
Aneuraceae	<i>Riccardia cochleata</i>						X *
	<i>Riccardia</i> sp.					X *	
Balantiopsidaceae	<i>Isotachis</i> sp.						X *
Frullaniaceae	<i>Frullania falciloba</i>	X *					
	<i>Frullania probosciphora</i>	X *					
	<i>Frullania rostrata</i>						X *
	<i>Frullania</i> sp.					X *	
	<i>Frullania</i> sp. (<i>falciloba</i> ?)	X *					
Geocalyceae	<i>Heteroscyphus</i> sp.						X *
Hymenophytaceae	<i>Hymenophyton flabellatum</i>					X *	X *
	<i>Hymenophyton spinnervium</i> subsp. <i>archeri</i>						X *
	<i>Hymenophyton vitense</i> subsp. <i>australe</i>						X *
Jungermanniaceae	<i>Chandonathus squarrosus</i>						X *
	<i>Jamesoniella colorata</i>						X *
Lejeuneaceae	<i>Lejeunea drummondii</i>					X *	
	<i>Lejeunea</i> sp.					X *	
Lepicoleaceae	<i>Lepicolea scolopendra</i>						X *



Liverworts							
Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
Lepidolaenaceae	<i>Bazzania adnexa</i>					X *	X *
	<i>Bazzania</i> sp. (<i>involuta</i> ?)	X *					
	<i>Gackstroemia weindorferi</i>					X *	X *
Lepidoziaceae	<i>Kurzia</i> sp.						X *
	<i>Lepidozia</i> sp. (<i>laevifolia</i> ?)						X *
	<i>Lepidozia glaucophylla</i>						X *
	<i>Lepidozia procera</i>						X *
	<i>Lepidozia ulothrix</i>						X *
	<i>Telaranea patentissima</i>	X *					
	<i>Telaranea pulcherrima</i> var. <i>mooreana</i>						X *
	<i>Telaranea</i> sp.						X *
Lophocoleaceae	<i>Chiloscyphus semiteres</i> var. <i>semiteres</i>	X *				X *	
	<i>Chiloscyphus</i> sp.	X *					X *
	<i>Cyanolophocolea echinella</i>					X *	
Lunulariaceae	<i>Lunularia cruciata</i>					X *	
Marchantiaceae	<i>Marchantia berteroana</i>					X *	X *
Metzgeriaceae	<i>Metzgeria</i> sp.	X *				X *	X *

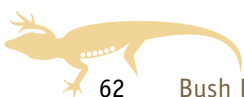


A close up view of Liverwort *Radula buccinifera* © Tasmanian Herbarium



Chiloscyphus semiteres © Tasmanian Herbarium

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Liverworts							
Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
Pallaviciniaceae	<i>Podomitrium phyllanthus</i>						X *
	<i>Symphyogyna podophylla</i>						X *
Plagiochilaceae	<i>Plagiochila circinalis</i>						X *
	<i>Plagiochila fasciculata</i>					X *	
	<i>Plagiochila</i> sp.						X *
Radulaceae	<i>Radula buccinifera</i>					X *	
Schistochilaceae	<i>Schistochila lehmanniana</i>					X *	X *
Trichocoleaceae	<i>Temnoma</i> sp.						X *
	<i>Trichocolea mollissima</i>					X *	

Mosses							
Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
Andreaeaceae	<i>Andreaea mutabilis</i>						X *
Bartramiaceae	<i>Bartramia robusta</i>						X *
	<i>Breutelia affinis</i>						X *
	<i>Breutelia pendula</i>					X *	X *
	<i>Philonotis tenuis</i>						X *
Brachytheciaceae	<i>Eurhynchium praelongum</i>	X *				X *	
	<i>Pseudoscleropodium purum</i>	X *					
Bryaceae	<i>Gemmabryum laevigatum</i>						X *
	<i>Ptychostomum</i> sp. (<i>pseudotriquetrum</i> ?)						X *
	<i>Rosulabryum billardierii</i>					X *	
	<i>Rosulabryum</i> sp. (<i>capillare</i> ?)	X *					
	<i>Rosulabryum</i> sp.	X *					
Dicranaceae	<i>Dicranella cardotii</i>						X *
	<i>Dicranoloma billardierii</i>	X *				X *	X *
	<i>Dicranoloma dicarpum</i>					X *	X *
	<i>Dicranoloma menziesii</i>					X *	X *
	<i>Dicranoloma platycaulon</i>						X *
Ditrichaceae	<i>Ceratodon purpureus</i>	X *				X *	
	<i>Distichium capillaceum</i>						X *
	<i>Ditrichum difficile</i>						X *
	<i>Ditrichum punctulatum</i>						X *
Echinodiaceae	<i>Echinodium hispidum</i>					X *	



Mosses							
Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
Encalyptaceae	<i>Encalypta vulgaris</i>						X *
Fissidentaceae	<i>Fissidens</i> sp. (<i>leptocladus</i> ?)					X *	
	<i>Fissidens leptocladus</i>					X *	
Funariaceae	<i>Funaria hygrometrica</i>	X *				X *	
Grimmiaceae	<i>Bucklandiella</i> sp. (<i>pycnotracha</i> ?)						X *
	<i>Racomitrium pruniosum</i>						X *
	<i>Schistidium</i> sp.						X *
Hookeriaceae	<i>Achrophyllum dentatum</i>					X *	X *
	<i>Calyptrochaeta</i> sp. (<i>apiculata</i> ?)	X *					
Hypnaceae	<i>Austrohondaella limata</i>	X *				X *	
	<i>Hypnum</i> sp. (<i>chrysogaster</i> ?)						X *
	<i>Hypnum cupressiforme</i>					X *	
	<i>Hypnum cupressiforme</i> var. <i>filiforme</i>	X *					
	<i>Hypnum cupressiforme</i> var. <i>mossmanianum</i>					X *	
Hypnodendraceae	<i>Hypnodendron spininervium</i> subsp. <i>archeri</i>						X *
	<i>Hypnodendron vitiense</i> subsp. <i>australe</i>						X *
	<i>Mniodendron comosum</i>					X *	X *
Hypopterygiaceae	<i>Cyathophorum bulbosum</i>					X *	X *
	<i>Hypopterygium didicyton</i>					X *	X *
	<i>Lopidium concinnum</i>					X *	
Lembophyllaceae	<i>Camptochaete arbuscula</i> var. <i>arbuscula</i>					X *	X *
	<i>Camptochaete deflexa</i>					X *	
	<i>Fallaciella gracilis</i>						X *
	<i>Lembophyllum clandestinum</i>	X *					
	<i>Weymouthia cochlearifolia</i>					X *	
	<i>Weymouthia mollis</i>					X *	

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Mosses							
Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
Leptostomataceae	<i>Leptostomum inclinans</i>					X *	X *
Leucobryaceae	<i>Campylopus acuminatus</i> var. <i>kirkii</i>					X *	
	<i>Campylopus bicolor</i>					X *	
	<i>Campylopus clavatus</i>						X *
	<i>Campylopus introflexus</i>	X *				X *	X *
	<i>Campylopus torquatus</i>					X *	
	<i>Leucobryum candidum</i>					X *	X *
Meteoriaceae	<i>Papillaria flexicaulis</i>					X *	
Mniaceae	<i>Pohlia cruda</i>						X *
	<i>Pohlia flexuosa</i>						X *
	<i>Pohlia nutans</i>						X *
Neckeraceae	<i>Thamnobryum pumilum</i>					X *	
Orthodontiaceae	<i>Orthodontium lineare</i>					X *	X *
Orthotrichaceae	<i>Macromitrium archeri</i>	X *				X *	
	<i>Orthotrichum rupestre</i> var. <i>rupestre</i>						X *
	<i>Orthotrichum tasmanicum</i> var. <i>tasmanicum</i>	X *					X *
	<i>Ulota lutea</i>						X *
	<i>Ulota</i> sp.	X *					X *
	<i>Zygodon intermedius</i>	X *				X *	X *
Plagiotheciaceae	<i>Acrocladium chlamydophyllum</i>	X *					X *
	<i>Plagiothecium lamprostachys</i>						X *
Polytrichaceae	<i>Atrichum androgynum</i>					X *	
	<i>Notoligotrichum crispulum</i>						X *
	<i>Polytrichadelphus magellanicus</i>						X *
	<i>Polytrichum commune</i>						X *
	<i>Polytrichum juniperinum</i>					X *	X *
Pottiaceae	unid. genus (<i>Barbula</i> sp?)					X *	
	<i>Barbula calycina</i>	X *					
	<i>Bryoerythrophyllum recurvirostre</i>						X *
	<i>Tortella knightii</i>					X *	
	<i>Weissia controversa</i>						X *
Ptychomniaceae	<i>Ptychomnion aciculare</i>	X *				X *	X *



Moss *Rosulabryum billardierei* © Tasmanian Herbarium



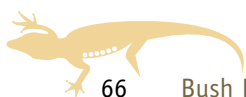
A close up view of *Calyptrochaeta apiculatus* © Tasmanian Herbarium

Mosses							
Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
Pylaisiadelphaceae	<i>Wijkia extenuata</i>	X *				X *	X *
Racopilaceae	<i>Racopilum cuspidigerum</i> var. <i>convolutaceum</i>	X *				X *	
Rhizogoniaceae	<i>Goniobryum subbasilare</i>					X *	X *
	<i>Hymenodon pilifer</i>					X *	
	<i>Leptotheca gaudichaudii</i>					X *	X *
	<i>Pyrrhobryum mnioides</i> subsp. <i>contortum</i>						X *
	<i>Rhizogonium distichum</i>					X *	
	<i>Rhizogonium novae-hollandiae</i>					X *	X *
Seligeriaceae	<i>Blindia robusta</i>						X *
Sematophyllaceae	<i>Rhaphidorrhynchium amoenum</i>						X *
	<i>Warburgiella leucocytus</i>						X *

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Mosses							
Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
Sphagnaceae	<i>Sphagnum australe</i>					X *	X *
	<i>Sphagnum cristatum</i>						X *
	<i>Sphagnum novo-zelandicum</i>					X *	
Splachnaceae	<i>Tayloria octoblepharum</i>						X *
Thuidiaceae	<i>Thuidiopsis furfurosa</i>					X *	X *
	<i>Thuidiopsis sparsa</i>	X *					X *

Fungi							
Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
Aleurodiscaceae	<i>Aleurodiscus limonisorus</i>						X *
Amanitaceae	<i>Amanita ochrophyloides</i>						X *
	<i>Amanita xanthocephala</i>	X *					
Bolbitiaceae	<i>Descolea phlebophora</i>						X *
	<i>Descolea recedens</i>						X *
Clavariaceae	<i>Clavaria amoena</i>						X *
Coprinaceae	<i>Psathyrella echinata</i>						X *
	<i>Psathyrella n. sp.</i>						○ *
	<i>Psathyrella sp. 1</i>						X *
	<i>Psathyrella sp. 2</i>						X *
Coriolaceae	<i>Antrodiella citrea</i>	X *					
	<i>Aurantiporus pulcherrimus</i>						X *
	<i>Australoporus tasmanicus</i>						X *
	<i>Piptoporus australiensis</i>	X *					
	<i>Postia pelliculosa</i>						X *
	<i>Postia punctata</i>						X *
	<i>Postia subcaesia</i>						X *
	<i>Pycnoporus coccineus</i>	X *					
Cortinariaceae	<i>Cortinarius sp. 1</i>						X *
	<i>Cortinarius sp. 2</i>						X *
	<i>Cortinarius sp. 3</i>						X *
	<i>Cortinarius sp. 4</i>						X *
	<i>Cortinarius sp. 5</i>						X *
	<i>Cortinarius sp. 6</i>						X *
	<i>Cortinarius sp. 7</i>						X *
	<i>Cortinarius sp. 8</i>						X *
	<i>Cortinarius sp. 9</i>						X *

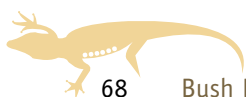


Fungi							
Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
Cortinariaceae	<i>Flammulaster</i> sp. 1						X *
	<i>Galerina hypnorum</i>						X *
	<i>Galerina</i> sp. 1						X *
	<i>Galerina</i> sp. 2						X *
	<i>Galerina</i> sp. 3						X *
	<i>Gymnopilus ferruginosus</i>						X *
	<i>Inocybe</i> sp. 1						X *
	<i>Inocybe</i> sp. 2						X *
	<i>Inocybe</i> sp. 3						X *
	<i>Inocybe</i> sp. 4						X *
	<i>Inocybe</i> sp. 5						X *
	<i>Setchelliogaster australiensis</i>						X *
Crepidotaceae	<i>Crepidotus variabilis</i>						X *
Dacrymycetaceae	<i>Calocera guepinioides</i>						X *
	<i>Heterotextus peziziformis</i>						X *
Entolomataceae	<i>Entoloma chrysopus</i>						X *
	<i>Entoloma cystidiosum</i>						X *
	<i>Entoloma fumosopruniosum</i>						X *
	<i>Entoloma maldea</i>						X *
	<i>Entoloma melanocephalum</i>						X *
	<i>Entoloma percrinitum</i>						X *
	<i>Entoloma porphyrescens</i>						X *
	<i>Entoloma readiae</i>						X *
Ganodermataceae	<i>Ganoderma australe</i>	X *					
Heliotaceae	<i>Bisporella citrina</i>						X *
	<i>Chlorociboria aeruginascens</i> subsp. <i>australis</i>	X *					
Hydnaceae	<i>Hydnum repandum</i>						X *
Hymenochaetaceae	<i>Coltricia cinnamomea</i>						X *
Lentinellaceae	<i>Lentinellus tasmanicus</i>						X *
Leotiaceae	<i>Leotia lubrica</i>						X *
Lycoperdaceae	<i>Bovista brunnea</i>						X *
Meruliaceae	<i>Mycoacia/Phlebia subceracea</i>	X *					

Key X = Previously recorded on the reserve and found on this survey
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^ = Exotic/Pest
= EPBC listed
~ = TSP listed

○ = **Putative new species**
■ = *Previously recorded on the reserve but not found on this survey*





Fungi							
Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
Polyporaceae	<i>Ryvardenia campyla</i>						X *
Russulaceae	<i>Russula persanguinea</i>						X *
	<i>Russula</i> sp. 1						X *
Stereaceae	<i>Stereum ostrea</i>	X *					
Strophariaceae	<i>Panaeolus</i> sp. 1						X *
	<i>Pholiota malicola</i>						X *
	<i>Pholiota pallidocaulis</i>						X *
	<i>Psathyroma</i> sp. 1						X *
	<i>Psilocybe fascicularis</i> var. <i>armeniaca</i>						X *
	<i>Psilocybe</i> sp. 1						X *
Tremellaceae	<i>Tremella sarcoides</i>						X *
Tricholomataceae	<i>Armillaria novaezealandiae</i>						X *
	<i>Collybia eucalyptorum</i>						X *
	<i>Conchomyces bursiformis</i>						X *
	<i>Gymnopus</i> sp. 1						X *
	<i>Gymnopus</i> sp. 2						X *
	<i>Hemimycena</i> sp. 1						X *
	<i>Laccaria</i> aff. <i>canaliculata</i>						X *
	<i>Laccaria masoniae</i>						X *
	<i>Laccaria</i> sp. 1						X *



Mushroom *Inocybe strigiceps* © B Matheny

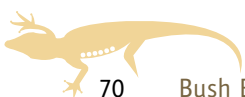


Fungus *Aleurodiscus limonispurus* © G Gates



Fungi							
Family	Species	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
Tricholomataceae	<i>Laccaria</i> sp. 2						X *
	<i>Mycena albidocapillaris</i>						X *
	<i>Mycena austrofilopes</i>						X *
	<i>Mycena epipterygia</i>						X *
	<i>Mycena interrupta</i>						X *
	<i>Mycena kuurkacea</i>						X *
	<i>Mycena lividorubra</i>						X *
	<i>Mycena maldea</i>						X *
	<i>Mycena mulawaestris</i>						X *
	<i>Mycena nargan</i>						X *
	<i>Mycena</i> sp. 1						X *
	<i>Mycena</i> sp. 2						X *
	<i>Mycena vinacea</i>						X *
	<i>Panellus longinquus</i>						X *
	<i>Rickenella fibula</i>	X *					
Xylariaceae	<i>Biscogniauxia nothofagi</i>						X *
	<i>Hypoxylon bovei</i>						X *

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 - ~ = TSP listed
 - = **Putative new species**
 - = *Previously recorded on the reserve but not found on this survey*





Appendix B: Rare and Threatened Species

Additional supplements containing the appendices for individual reserves are available to download from:

www.bushblitz.org.au

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 April 2012



Fauna

Species	Common name	Status	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
<i>Accipter novaehollandiae</i>	Grey Goshawk	TSP — Endangered	■					
<i>Aquila audax</i>	Wedge-tailed Eagle	EPBC — Endangered, TSP — Endangered	■	X *			X	X *
<i>Dasyurus maculatus</i>	Spotted-tailed quoll	EPBC — Vulnerable, TSP — Rare		X *			X	■
<i>Discocharopa vigens</i>	Ammonite Snail	TSP — Endangered			■			
<i>Haliaeetus leucogaster</i>	White-bellied Sea-Eagle	TSP — Vulnerable	X					
<i>Isoodon obesulus</i>	Southern Brown Bandicoot	EPBC — Endangered		X *	X	X *	X *	
<i>Lathamus discolor</i>	Swift Parrot	EPBC — Endangered, TSP — Endangered	X		X			
<i>Oreixenica ptunarra</i>	Ptunarra Brown Butterfly	TSP — Vulnerable						X
<i>Perameles gunnii</i>	Eastern Barred Bandicoot	EPBC — Vulnerable		X *	X	X		
<i>Prototroctes maraena</i>	Australian Grayling	EPBC — Vulnerable, TSP — Vulnerable	■					
<i>Sarcophilus harrisii</i>	Tasmanian Devil	EPBC — Endangered, TSP — Endangered		X *			X	X *
<i>Tasmaphena lamproides</i>	Keeled Snail	TSP — Rare					X *	
<i>Thylacinus cynocephalus</i>	Tasmanian Tiger	EPBC — Extinct, TSP — Extinct						■
<i>Tyto novaehollandiae</i>	Masked Owl	EPBC — Endangered, TSP — Endangered						X *

EPBC = Environment Protection and Biodiversity Conservation Act 1999 (Commonwealth)

TSP = Threatened Species Protection Act 1995 (Tasmania)

- Key
- X = Previously recorded on the reserve and found on this survey
 - X* = New record for this reserve
 - = Previously recorded on the reserve but not found on this survey





Flora

No rare and threatened species were recorded during this survey at Egg Islands and Seventeen Mile Plain reserves.

Species	Common name	Status	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
<i>Austrodanthonia induta</i>	Tall Wallabygrass	TSP — Rare			X *			
<i>Brachyscome rigidula</i>	Cutleaf Daisy	TSP — Vulnerable				X		
<i>Cyrtostylis robusta</i>	Large Gnat-orchid	TSP — Rare		X				
<i>Eucalyptus risdonii</i>	Risdon Peppermint	TSP — Rare			X			
<i>Leucochrysum albicans</i> var. <i>tricolor</i>	Grassland Paperdaisy	EPBC — Endangered, TSP — Endangered						X
<i>Muehlenbeckia axillaris</i>	Matted Lignum	TSP — Rare						X *
<i>Rhodanthe anthemoides</i>	Chamomile Sunray	TSP — Rare						X
<i>Scleranthus brockiei</i>	Mountain Knawel	TSP — Rare			X			X
<i>Scleranthus fasciculatus</i>	Spreading Knawel	TSP — Vulnerable			X			X

EPBC = Environment Protection and Biodiversity Conservation Act 1999 (Commonwealth)

TSP = Threatened Species Protection Act 1995 (Tasmania)



Tasmanian Devil (*Sarcophilus harrissii*), B Glasser



Geometrid caterpillar on *Acacia* © C Symmonds



Baloskion tetraphyllum © Tasmanian Herbarium



Cicada © C Symmonds





Appendix C: Exotic and Pest Species

Additional supplements containing the appendices for individual reserves are available to download from:

www.bushblitz.org.au

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 April 2012



Fauna

Species	Common name	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
<i>Arion hortensis</i>	Common Garden Slug			X *			
<i>Arion intermedius</i>	Hedgehog Slug	X *	X *	X *		X *	X *
<i>Bombus terrestris</i>	Large Earth Bumblebee						X *
<i>Cantareus aspersa</i>	Common Garden Snail				X *		X *
<i>Carduelis carduelis</i>	European Goldfinch	X *				X *	X *
<i>Chloris chloris</i>	European Greenfinch	X *					
<i>Cylindroiulus</i> sp.	Millipede	X *					
<i>Felis catus</i>	Cat		X *	X *	■		
<i>Lehmanna nyctelia</i>	Striped Field Slug	X *	X *	X *			
<i>Lepus capensis</i>	Brown Hare		X *	X *			
<i>Limax maximus</i>	Leopard Slug		X *				
<i>Microxeromagna armillata</i>	Small Brown Snail				X *		
<i>Mus musculus</i>	House Mouse	X *	X *	X *	X		
<i>Ommatoiulus moreletii</i>	Portugese Millipede			X *			
<i>Oryctolagus cuniculus</i>	Rabbit		X *	X *	■	X *	
<i>Oxychilus cellarius</i>	Cellar Snail	X *	X *	X *	X *		X *
<i>Pieris rapae</i>	Cabbage White Butterfly				X *		X *
<i>Prietocella barbara</i>	Small Pointed Snail				X *		
<i>Rattus norvegicus</i>	Brown Rat				■		
<i>Rattus rattus</i>	Black Rat	X	X	X *	X		
<i>Turdus merula</i>	Common Blackbird	X *	X *	X *			
<i>Vitrina pellucida</i>	Western Glass Snail		X *	X *	X *		

Key X = Previously recorded on the reserve and found on this survey
 X* = New record for this reserve
 ■ = Previously recorded on the reserve but not found on this survey





Large Earth Bumblebee (*Bombus terrestris*) © J Morris



Introduced House Mouse *Mus musculus* © M Norman

Flora

No exotic and pest species were recorded during this survey at Flat Rock Reserve.

Species	Common name	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
<i>Aptenia cordifolia</i>	Heart-leaf Ice-plant			X *			
<i>Atriplex prostrata</i>	–	X *			X *		
<i>Bromus diandrus</i>	Giant Brome			X *			
<i>Carduus pycnocephalus</i>	–				X *		
<i>Centaurea melitensis</i>	Malta Thistle					X *	
<i>Centaureum erythraea</i>	Common Centaury					X *	
<i>Centaureum tenuiflorum</i>	Branched Centaury			X *			
<i>Chenopodium glaucum</i>	Glaucous Goosefoot	X *			X *		
<i>Chrysanthemoides monilifera</i> subsp. <i>monilifera</i>	Boneseed				X *		
<i>Cirsium arvense</i>	Californian Thistle					X *	
<i>Cirsium vulgare</i>	Black Thistle					X *	
<i>Conyza bonariensis</i>	Cobbler's Pegs				X *		
<i>Crataegus monogyna</i>	Hawthorn				X *		
<i>Dactylis glomerata</i>	Cocksfoot			X *	X *		
<i>Digitaria sanguinalis</i>	Crab Grass				X *		
<i>Dipsacus fullonum</i>	Wild Teazle				X *		
<i>Dittrichia graveolens</i>	Camphor Inula				X *		
<i>Dysphania pumilio</i>	Clammy Goosefoot				X *		

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

X* = New record for this reserve



Species	Common name	Egg Islands	Flat Rock	Porter Hills	Murphys Flat	Seventeen Mile Plain	Vale of Belvoir
<i>Eleusine tristachya</i>	American Crowsfoot Grass				X *		
<i>Epilobium ciliatum</i>	–				X *		
<i>Erica lusitanica</i>	Heath	X *				X *	
<i>Euphorbia lathyris</i>	Caper Spurge				X *		
<i>Foeniculum vulgare</i>	Fennel				X *		
<i>Galium divaricatum</i>	Slender Bedstraw			X *			
<i>Gastridium ventricosum</i>	Nitgrass			X *			
<i>Hirschfeldia incana</i>	Buchan Weed				X *		
<i>Hypochaeris radicata</i>	–					X *	
<i>Isolepis setacea</i>	–			X *			
<i>Leontodon saxatilis</i>	–			X *			
<i>Linum trigynum</i>	French Flax			X *			
<i>Lotus angustissimus</i>	Slender Bird's-foot Trefoil				X *		
<i>Lycium ferocissimum</i>	African Boxthorn				X *		
<i>Lysimachia arvensis</i>	Scarlet Pimpernel			X *	X *		
<i>Malva sylvestris</i>	Tall Mallow				X *		
<i>Oxalis corniculata</i>	Sikup Dada					X *	
<i>Panicum hillmanii</i>	Witch-grass				X *		
<i>Paspalum dilatatum</i>	Paspalum				X *		
<i>Phormium tenax</i>	Flax	X *					
<i>Plantago lanceolata</i>	–				X *		
<i>Prunella vulgaris</i>	Selfheal			X *			
<i>Rosa rubiginosa</i>	Briar Rose			X *	X *		
<i>Rubus</i> sp.	Blackberry	X *				X *	
<i>Rumex crispus</i>	Curled Dock				X *		
<i>Setaria verticillata</i>	Bristle Pigeon Grass				X *		
<i>Solanum nigrum</i>	Black-berry Nightshade				X *		
<i>Solanum physalifolium</i> var. <i>nitidibaccatum</i>	–				X *		
<i>Sonchus oleraceus</i>	Sow Thistle				X *		
<i>Vellereophyton dealbatum</i>	White Cudweed				X *		
<i>Veronica serpyllifolia</i>	Thyme-leaved Speedwell						X
<i>Vinca major</i>	Blue Periwinkle			X *			
<i>Vulpia bromoides</i>	Hair Grass					X *	

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

X* = New record for this reserve





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Additional supplements available for this publication:

- + Egg Islands Reserve
- + Flat Rock Reserve
- + Lower Porter Hill and Porter Hill Reserves
- + Murphys Flat Reserve
- + Seventeen Mile Plain Reserve
- + Vale of Belvoir Reserve

Contributors

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FRONT COVER Clustered woodlover mushroom (*Hypholoma fasciculare* var. *armeniicum*) © F Karstedt



Bush Blitz survey report

Tasmania + March 2010



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