Australian Alps 2023 Bush Blitz

Mosses, Liverworts and Vascular Plants

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Val Stajsic, Andre Messina, Daniel Ohlsen, David Cantrill & Megan Hirst

Nomenclature and taxonomy used in this report is consistent with:

The Australian Plant Census (APC)

http://www.anbg.gov.au/chah/apc/about-APC.html

VicFlora (2023). Flora of Victoria, Royal Botanic Gardens Victoria. Available online: https://vicflora.rbg.vic.gov.au (accessed on: 13 Jul. 2023).

AusMoss

http://data.rbg.vic.gov.au/cat/mosscatalogue

The Catalogue of Australian Liverworts and Hornworts

http://www.anbg.gov.au/abrs/liverwortlist/liverworts_intro.html

McCarthy, P.M. (2023), *Checklist of the Lichens of Australia and its Island Territories.* Australian Biological Resources Study, Canberra. Version 7 March 2023.

http://www.anbg.gov.au/abrs/lichenlist/introduction.html

Contents

List of contributors

List of contributors to this report.			
Name	**Institution/affiliation**	**Qualifications/area of expertise**	**Level/form of contribution**
Val Stajsic	***Royal Botanic Gardens Victoria***	***Botanist***	***Participant and co-author***
Andre Messina	***Royal Botanic Gardens Victoria***	***Botanist***	***Participant and co-author***
Daniel Ohlsen	***Royal Botanic Gardens Victoria***	***Botanist***	***Participant and co-author***
David J Cantrill	***Royal Botanic Gardens Victoria***	***Botanist***	***Participant and co-author***
Megan Hirst	***Royal Botanic Gardens Victoria***	***Botanist***	***Participant and co-author***

Abstract

598 collections were made during botanical surveys of the Alpine National Park, Willis and Suggan Buggan over a nine-day period. These collections included 240 angiosperm, 1 gymnosperm, 5 fern, 1 lycopod, 70 bryophyte, 4 species of lichen, and 1 smut fungus. Fifty-nine of these species are State listed as threatened, with one Environment Protection and Biodiversity Conservation (EPBC) listed species (*Zieria citriodora*). Twenty-two weed species were collected. Specimens of two undescribed *Lachnagrostis* species were collected from Davies Plain, Emu Plain Swamp, Forlorn Hope Plain, and Rocky Plain. Specimens of *Dianella* sp. aff. *tasmanica* (Snowfields) and *Muehlenbeckia diclina* subsp*. Gippsland* (R.O.Makinson 1007) were also collected. *Carex buxbaumii* (a species of uncertain origin status) was collected from Rocky Plain, which was the last known site for the species in Victoria, where last collected in the 1949. Two bryophyte species (i.e., *Bryostreimannia turgida*, and *Kurzia pallescens*) were recorded for the first time in Victoria. Images taken of many vascular plants and bryophytes will be added to the online Victorian flora, VicFlora. The *Entorrhiza* sp. (on *Isolepis* sp.) specimen was collected incidentally, and the genus was unrepresented in the MEL (National Herbarium of Victoria) collection.

1. Introduction

The Victorian aspect of the Alpine Bushblitz expedition was focussed on general documentation of the flora in areas within the alpine zone that have proven difficult to access. Areas such as Davies Plain, Forlorn Hope Plain to Willis have limited botanical survey effort. The logistic support and helicopter access was critical but unfortunately suitable landing sites or permissions were not achieved from some key areas such as the Cobberas peak 1 and 2, and Mount Gibbo.

The team was also interested in areas that had been impacted by the 2019/20 fires (e.g., Forlorn Hope Plain) and were of interest to document recovery of vegetation. The team included botanists with expertise in bryophytes, ferns, seed plants and lichens. We were particularly interested in the bryophyte flora as we are currently developing an online component to VicFlora for this group.

2. Methods

2.1 Site selection

Sites were chosen from Davies Plain, Forlorn Hope Plain to Willis and Suggan Buggan. This broad sampling range enabled collection from across most of the section of the park and botanically interesting areas outside of the park was the focus of this BushBlitz. In this range a variety of vegetation types were sampled from (e.g., subalpine bogs, subalpine grassland, riparian vegetation, *Eucalyptus pauciflora* woodland, tall open forest, rocky plain, limestone escarpment, and disturbed roadsides). Collecting from across most of the designated survey area in all vegetation types was expected to be the most effective way to uncover the maximum amount of diversity that could be encountered in the park in the time period available.

Some sites were chosen to survey known occurrences of rarely collected or threatened taxa (e.g., *Racomitrium pruinosum, and Carex buxbaumii,* both at Rocky Plain). Other sites were visited as there were known occurrences of plant species that have not been photographed for the BushBlitz funded online Victorian Flora, VicFlora.

Areas near the New South Wales/Victorian border were also targeted. Such areas were expected to be the most likely places to find new Victorian records or range extensions.

Fig. 1. Rocky Plain, with waterfall below the outcrop (see Fig.3.).

Fig. 2. Rocky Plain, showing wetland dominated by *Baloskion australe* and *Carex gaudichaudiana*. This is the site where *Carex buxbaumii* was collected.

Fig. 3. Waterfall on the Rocky Plains Creek. Riparian area dominated by *Leptospermum grandifolium.*

Fig. 4. Forlorn Hope Plain

Fig. 5. Davies Plain: showing creek and extensive *Poa*-dominated grassland.

Fig. 6. Suggan Buggan: dry open woodland dominated by *Eucalyptus albens* and *Callitris* sp., with understorey dominated by *Austrostipa* sp.

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Fig. 7. Willis: weedy flats on the Snowy River.

Fig. 8. Willis, *Bolboschoenus medianus* stand along the Snowy River.

Fig 9. Cobberas, near Moscow Peak.

Fig. 10. Cobberas, near Moscow Peak, showing *Eucalyptus pauciflora*-dominated woodland.

2.2 Survey techniques

Collections were made of individuals bearing fertile structures (buds, flowers, fruits, sporangia, apothecia). Specimens were photographed in situ to record key features and habitat and to contribute to the online Victorian flora, VicFlora. Gatherings were made either of one or more entire individuals (small herbaceous plants) or portions of stems bearing representative foliage, flowers etc. Where possible, sufficient material was collected to prepare duplicate specimens to be sent to other herbaria. Bryophytes were collected by removing a portion of substrate including the specimen. Plant specimens and pathogenic fungi were dried in plant presses. To preserve 3-D structure of flowers, specimens of some groups (Orchidaceae) were preserved in alcohol (70% Ethanol with 5% Glycerol). When plants of phylogenetic interest were collected for research, portions of vegetative material were placed in silica gel to rapidly dry this tissue, increasing the likelihood of DNA being preserved.

2.2.1 Methods used at standard survey sites

This section is not applicable as botanical surveys of the standard survey sites were undertaken by NSW botanists.

2.3 Identifying the collections

Specimens were identified using botanical and mycological literature – monographs, taxonomic revisions and flora treatments containing keys and descriptions for the groups collected - especially VicFlora. Identifications were confirmed by comparing collected specimens with reference specimens in the State Botanical Collection in the National Herbarium of Victoria (MEL). Some grass specimens were identified with assistance from Dr. Austin Brown (Honorary Associate, RBGV) who is as an authority on *Lachnagrostis* and related genera.

3. Results and Discussion

Appendix 1 lists all Mosses, Liverworts and Vascular Plants recorded during the Bush Blitz. Collections made during this Bush Blitz will result in 598 specimens being added to public collections and 598 records being added to publicly accessible databases.

3.1 Un-named or not formalised taxa

Table 1. Putatively un-named or not formalised taxa	
Taxon	**Comment**
Dianella sp. aff. *tasmanica* (Snowfields)	A distinctly green-fruited taxon affiliated with *Dianella tasmanica* was collected from Nunniong Plateau during this survey. This is a known undescribed taxon.
Lachnagrostis. sp. (Gow Plain)	This unnamed species was recorded at Forlorn Hope Plain, Emu Plain and Rocky Plain. It was previously only known from the Dargo area in Victoria.
Muehlenbeckia diclina subsp. Gippsland (R.O.Makinson 1007)	Two subspecies are recognised in VicFlora within *Muehlenbeckia diclina* but both currently lack names.
Lachnagrostis. sp. (Thredbo)	Unpublished species. Collected from Cowombat Flat track in open heathland (Cobberas Wilderness Zone)

3.2 Putative new species (new to science)

In this report, 'putative new species' means an unnamed species that, as far as can be ascertained, was identified as a new species as a direct result of this Bush Blitz.

None identified.

3.3 Exotic and pest species

Table 3. Exotic and pest species recorded			
Exotic/pest species	**Location sighted/observed**	**Indication of abundance**	**Comments**
Lotus uliginosus	Limestone Rd, at crossing of Little River.	Localised	A relatively widespread weed throughout south-eastern Australia, occurring near margins of water bodies.

Linaria arvensis	Alpine National Park, northern foot of large granite torr c. 400 m W of Moscow Peak.	1 plant	An uncommon weed in south-eastern Australia, typically associated with disturbance (e.g. along roads and railway lines). Unusual to observe in intact vegetation.
Calliergonella cuspidata	Limestone Creek Track and Forlorn Hope Creek	Restricted to inundated depressions and on sandy banks of flowing creek and occasional in bog along Forlorn Hope Creek.	First record in the Victorian high country. Weed of lower altitude pastures and grassy areas. Collected in wet inundated areas disturbed by horses. Possibly introduced to Native Dog Flat in hay brough in for horse feed.
Brachythecium mildeanum	Native Dog Flat and Emu Plain	On trunk of *Hakea macrocarpa*. Abundant and the most common moss species at Emu Plain.	First record in the Victorian high country. Weed of lower altitude pastures and grassy areas. Collected in wet inundated areas disturbed by horses. Possibly introduced to Native Dog Flat in hay brough in for horse feed. In Victoria, this species tends to favour wetlands and damp sites, where it can form extensive carpets to the exclusion of smaller ground flora (V. Stajsic pers.obser.).
Kindbergia praelonga	Native Dog Flat	Restricted to and sparse around campground.	Typically found in disturbed urban areas (e.g., lawns, roadsides etc.).
Acetosella vulgaris	Davies Plain	Common.	In areas degraded by horses.
Alternanthera pungens	Willis	Ca. 10 plants.	Uncommon weed in Victoria. Typically, degraded roadsides.
Carex buxbaumii	Rocky Plain	Occasional.	Based on MEL specimen holdings, last collected in Victoria 1949. Origin status uncertain.
Eschscholzia californica	Willis	Scattered along roadside, and riverbed.	Locally common along sandy banks of the Snowy River near the

			New South Wales border and (probably) downstream to its mouth at Marlo, occasional near Omeo and Corryong, and formerly recorded from the Bendigo-Castlemaine area but possibly not persisting there.
Heliotropium amplexicaule	Willis	Common.	Known in Victoria from a 1973 collection from a farm paddock in the north-east near Yackandandah, and recent collections from the upper Snowy River in the far east, and near the You Yangs.
Myosotis laxa subsp. *caespitosa*	On west-facing embankment of Limestone Creek, 90 metres north of Limestone Creek Track, 2.2 km from its intersection with Limestone Road.	Common.	Uncommon weed in Victoria. A weed of stream banks and other moist places.
Ranunculus sardous	Native Dog Flat	Several patches to 2 metres x 2 metres.	No previous records from this part of Victoria. Seasonally abundant in irrigated and/or swampy lowlands mainly in the east (e.g., Foster, Maffra, Orbost districts).
Rubus leucostachys	On west-facing bank of Limestone Creek, 90 metres north of Limestone Creek Track, 2.2 km from its intersection with Limestone Road.	Common.	The species has noticeably spread since we were last at this location in 2018. This site is high conservation significance, with several endangered or uncommon species of plants, including M*uehlenbeckia axillaris, Aspenium trichomanes, Tortula dakinii, Pimelea pauciflora*. Priority weed for eradication at this location. If no control measures are implemented the above species are

			likely to disappear from this location.
Sedum album	Willis	One patch, ca. 50 x 50 cm.	Naturalised in Victoria at Ballarat, Barwon Heads, Mt Eliza, Orford, and Willis.
Solanum chenopodioides	Willis	One plant.	Found in a few scattered Victorian localities, mainly in disturbed sites in more mesic areas (e.g., riverbanks, winter-wet ditches). No previous collections from this part of Victoria.
Solanum sisymbriifolium	Willis	One plant.	Previously known only from Mortlake in western Victoria.
Tragopogon dubius	Suggan Buggan. Along Yellow Waterhole Creek, at the SE corner of a cleared paddock, ca. 300 metres SW (straight line) from Helipad Road, and 1.3 km SE (straight line) from intersection of Helipad Road and B.S. Link Track.	Scattered plants.	Naturalised in north-east Victoria on a roadside near Suggan Buggan, limestone outcrops at Limestone Creek and in a tree plantation near the Delegatate River.
Trifolium repens var. *repens*	Davies Plain. Adjacent to creek (on north side), 1.33 km E (straight line) of Davies Plain Track, and 2.34 km NE (straight line) from intersection of Davies Plain Track and Kings Plain Track.	Widely scattered, common.	Highly likely spread by horses.
Verbascum thapsus subsp. *thapsus*	Suggan Buggan. Along Yellow Waterhole Creek, at the SE corner of a cleared paddock, ca. 300 metres SW (straight line) from Helipad Road, and 1.3 km SE (straight line) from intersection of Helipad Road and B.S. Link Track.	Common.	No previous collections from this part of Victoria.
Calliergonella cuspidatum	Northern edge of Limestone Creek Track, 2.2 km from its		

	intersection with Limestone Road. Alpine National Park, 10 metres east of Forlorn Hope Creek, around 1.3 km upstream of its eastern most point on Forlorn Hope Plateau and around 420 metres south of Forlorn Hope Track.		
Cerastium glomeratum	Alpine National Park, 5 km south of Davies Plain Hut and circa 1 km south of Rough Creek.		
Prunella vulgaris	Alpine National Park, Davies Plain c. 500 m NE of Davies Plain Hut.		

3.4 Threatened species

Table 4. Threatened species

Species	Listing status and level (EBPC, State/Territory)	Location sighted/observed	Indication of abundance
Aciphylla simplicifolia	EN (Victoria)	Cowombat Flat Tk, Forlorn Hope Plain, and Davies Plain.	Locally common at Cowombat Flat Track, occasional/rare at Forlorn Hope Plain and Davies Plain.
Acrothamnus montanus	EN (Victoria)	Davies Plain	Uncommon
Acrotriche leucocarpa	EN (Victoria)	Mt Stradbroke	Rare
Agrostis australiensis	EN (Victoria)	Forlorn Hope Plain	Rare.
Agrostis bettyae	K (Victoria)	Forlorn Hope; Emu Plain Swamp	Localised
Agrostis propinqua	K (Victoria)	In swamp, ca. 115 metres NNE (straight line) from the intersection of Rams Horn Track and Limestone Road.	Localised.
Almaleea capitata	EN (Victoria)	Davies Plain	Uncommon

Astrotricha ledifolia	VU (Victoria)	Limestone Creek	<10 plants
Austrostipa nivicola	EN (Victoria)	Davies Plain	Localised
Banksia canei	CR (Victoria)	Limestone Creek, Forlorn Hope Creek	Localised
Botrychium australe	CR (Victoria)	Forlorn Hope Plain	1 plant.
Calotis lappulacea	VU (Victoria)	Suggan Buggan. On slope above Yellow Waterhole Creek.	Rare, 10 plants.
Cardamine papillata	EN (Victoria)	Rams Horn Tk	Rare
Carex blakei	EN (Victoria)	Davies Plain	Common
Carex capillacea	EN (Victoria)	Davies Plain	Rare
Craspedia aurantia var. *aurantia*	EN (Victoria)	Moscow Peak.	Rare.
Craspedia canens	CR (Victoria)	James Creek, N of Limestone Rd.	Scattered
Craspedia crocata	EN (Victoria)	Davies Plain	Scattered
Dampiera fusca	CR (Victoria)	Reedy Tk	Abundant
Eucalyptus forresterae	EN (Victora)	Reedy Tk	Localised
Eucalyptus glaucescens	VU (Victoria)	Reedy Tk	Rare
Epacris celata	EN (Victoria)	Cowombat Flat Tk	Locally common
Eucalyptus perriniana subsp. *familiaris*	EN (Victoria)	Nunniong Plateau, 2.20 km SW (by road) from the intersection with Forlorn Hope Track.	Localised.
Euphrasia caudata	EN (Victoria)	Forlorn Hope Plain.	Rare.
Gingidia harveyana	EN (Victoria)	Davies Plain.	Very rare.
Grevillea brevifolia	EN (Victoria)	Forlorn Hope	Rare
Hydrocotyle rivularis	K (Victoria)	Forlorn Hope	Common. Known site.
Isolepis gaudichaudiana	VU (Victoria)	Rocky Plain.	Rare.
Juncus phaeanthus	EN (Victoria)	Rocky Plain; Forlorn Hope Plain	Rare/occasional.
Lachnagrostis meionectes	EN (Victoria)	Davies Plain	Rare.
Leptorhynchos elongatus	EN (Victoria)	Cowombat Flat Tk	Rare
Muehlenbeckia axillaris	VU (Victoria)	On west-facing embankment of Limestone Creek, 90 metres north of Limestone Creek Track, 2.2 km from its intersection with Limestone Road.	Only one diffuse patch 1 metres x 1 metre present.

Muehlenbeckia diclina subsp. Gippsland (R.O.Makinson 1007)	VU (Victoria)	Mt Stradbroke	Rare
Myriophyllum lophatum	K (Victoria)	Davies Plain, Rocky Plain	Rare.
Olearia aglossa	K (Victoria)	Mt Stradbroke	Common
Olearia phlogopappa subsp. *flavescens*	EN (Victoria)	Davies Plain, Moscow Peak	Common
Oschatzia cuneifolia	EN (Victoria)	Davies Plain, Native Dog Flat	Common; Rare at Native Dog Flat.
Pimelea pauciflora	EN (Victoria)	Limestone Creek	Occasional along creek
Pimelea ligustrina subsp. *ciliata*	EN (Victoria)	Davies Plain	Localised
Plantago alpestris	VU (Victoria)	Davies Plain	Rare
Poa hookeri	EN (Victoria)	Mt Stradbroke	Localised
Poa petrophila	EN (Victoria)	Forlorn Hope; Ricky Plain	Locally common; rare at Rocky Plain
Podolepis laciniata	EN (Victoria)	Cowombat Flat Tk; Limestone Road	Common and widespread
Poranthera oreophila	EN (Victoria)	Davies Plain	Occasional.
Prostanthera phylicifolia	EN (Victoria)	Mt Stradbroke	Localised
Pultenaea fasciculata	EN (Victoria)	In swamp, ca. 115 metres NNE (straight line) from the intersection of Rams Horn Track and Limestone Road.	Localised, ca. 50 plants.
Rhytidosporum inconspicuum	EN (Victoria)	Davies Plain	Common.
Rytidosperma oreophilum	EN (Victoria)	Mt Stradbroke; Davies Plain; Rocky Plain; Forlorn Hope Plain; Moscow Peak	Localised
Scleranthus diander	EN (Victoria)	Mt Stradbroke	Common
Scleranthus fasciculatus	EN (Victoria)	Davies Plain; Forlorn Hope Plain	Rare/Occasional.
Senecio extensus	EN (Victoria)	Forlorn Hope; Davies Plain	Rare
Senecio interpositus	EN (Victoria)	Cowombat Flat Tk	Uncommon
Senecio lageniformis	EN (Victoria)	Forlorn Hope; Davies Plain	Rare
Senecio niveoplanus	EN (Victoria)	Davies Plain Creek	5 plants
Stylidium montanum	EN (Victoria)	Davies Plain	Common
Viola fuscoviolacea	EN (Victoria)	Davies Plain	Locally common

Viola improcera	K (Victoria)	Reedy Tk	Localised
Vittadinia sulcata	K (Victoria)	Suggan Buggan. On slope above Yellow Waterhole Creek	Rare. Third collection for Victoria, previously known from this region.
Zieria citriodora	VU (EPBC)	Limestone Creek	Localised. Previously known from a collection from this site.
Meesia muelleri	EN (Victoria)	Forlorn Hope	Reasonably common where collected in bogs.

3.5 Range extensions

Table 5. Range extensions or significant infill in distribution records for species

Species	**Location sighted/observed**	**Distance from nearest known record (km)**	**Comments**
Lachnagrostis sp. (Gow Plain)	Forlorn Hope Plain;	c. 80 km	Previously only known from the Dargo High Plains area (A.J. Brown *Pers. Comm.).* Rare at Forlorn Hope Plain and at Davies Plain.
Kurzia pallescens	Davies Plain	c. 400 km	First record of this species in Victoria, and only the third record on Mainland Australia (others being in central and northern NSW). This species is otherwise only known from Tasmania and NZ.
Bryostreimannia turgida	Davies Plain	c. 70 km	This is the first record of this genus in Victoria.
Tortella dakinii	Limestone Creek Track	c. 130 km	Sixth record of this species in Victoria, with all other records being in and west of Melbourne.
Trichocolea rigida	Davies Plain	c. 80 km	Third record of this species in Victoria. Previously known from Dargo High Plains.

Calliergonella cuspidata	Limestone Creek Track	c. 120 km	First record in the Victorian high country. Weed of lower altitude pastures and grassy areas. Collected in wet inundated areas disturbed by horses. Possibly introduced to this site in hay brough in for horse feed.
Brachythecium mildeanum	Native Dog Flat	c. 90 km	First record in the Victorian high country. Weed of lower altitude pastures and grassy areas. Collected in wet inundated areas disturbed by horses. Possibly introduced to this site in hay brough in for horse feed.
Phebalium squamulosum subsp*. squamulosum*	Davies Plain	ca. 120 km (based on Victorian herbarium collections).	No previous records of this subsp. From this region of Victoria. A small-leaved form, which occurs across the border in NSW.
Sedum album	Willis	ca. 320 km	Introduced species, with records from Ballarat, Barwon Heads, Mt Eliza, Orford.
Solanum sisymbriifolium	Willis	ca. 510 km	In Victoria, previously known from a single collection from Mortlake.

3.6 Genetic information

Leaf samples were taken for DNA extraction from a limited number of collections. These were restricted to taxa currently under taxonomic revision (e.g., *Aciphylla*), rare plants that may be of use in future taxonomic studies (e.g., *Olearia aglossa, Botrychium australe)* population genetic studies to assist with species conservation (e.g., *Banksia canei, Xerochyrsum palustre*). The *Botrychium australe* sample is being included in a worldwide phylogenomic project.

4. Information on species lists

The National Herbarium of Victoria collections database (MELISR) is the primary source of data used to compile the species list that accompanies this report. The threat status accorded to taxa is taken from the *Flora and Fauna Guarantee Act 1988 - Threatened List* (DEECA, May 2023). No species lists were provided prior to the survey.

5. Information for land managers

Habitat damage inflicted by horses and pigs was observed at many sites, including sites with State listed threatened plant species (e.g., *Botrychium australe*, *Prasophyllum niphopedium*, *Myriophyllum lophatum, Ranunculus millanii,* see Fig. 11). Horses were observed throughout the study area, while pig damage appears to be restricted to wet boggy sites. Culling of these feral animals would help to eradicate such damage. The horses also appear to be responsible for dispersing weeds in many areas.

Overall, most sites are largely free of weed cover, apart from widespread weeds such as **Trifolium repens*. However, some sites such as a site along Limestone Creek have noticeably deteriorated in the last few years (since 2018, when last visited), with *Rubus leucostachys* population having expanded in area of occupancy, smothering the limestone escarpment (see Figs. 12 & 13). This site is high conservation significance, with several endangered or uncommon species of plants, including M*uehlenbeckia axillaris, Aspenium trichomanes, Tortula dakinii, Pimelea pauciflora*. If no control measures are implemented soon to curtail the spread of the *Rubus l*eucostachys many of the threatened native plants species at the site are likely to disappear from this location.

Damage by four-wheel drive vehicles to the delicate *Sphagnum* bogs was evident at Native Dog Flat, in the area near the horse camping site. The endangered *Oschatzia cuneifolia* was close to this area. Additional fencing would be beneficial to keep out vehicles and horse riders.

Fig. 11. Wetland heavily trampled by horses. The poorly known and rarely collected species *Myriophyllum lophatum*, and the endangered *Ranunculus millanii* were both collected from this wetland.

Fig. 12. Limestone Creek: botanically significant limestone escarpment being invaded By *Rubus leucostachy*s, note presence of *Asplenium trichomanes* subsp. *quadrivalens* on the right side of image.

Fig. 13. Limestone Creek: botanically significant limestone escarpment being invaded by *Rubus leucostachy*s.

6. Other significant findings

Olearia aglossa was collected from Mt Stradbroke during this survey. This species was previously only thought to be known from Victoria from a collection by Mueller in 1850's and a specimen from 1991 with vague location details that required verification. The collection during the Bushblitz expedition resulted in a review of this species in Victoria which was published in May this year (Messina 2023).

This appears to have been on the first botanical surveys of the Davies Plain area. Many rare (but unsurprising) species were recorded here for the first time e.g., *Gingidia harveyana*, *Myriophyllum lophatum*, *Senecio niveoplanus, Scleranthus fasciculatus*, *Viola fuscoviolacea*, *Rhytidosporum inconspicuum*, *Austrostipa nivicola*, *Poranthera oreophila*, and *Almaleea capitata*. Many of these species occur near-by at either Mt Kosciuszko or Nunniong Plateau.

Carex buxbaumii was collected at Rocky Plain, where it was last collected in 1949, which was the last collection (based on specimens held at MEL) of the species in Victoria.

While identifying an *Isolepis* collection, it was noticed that one of the specimens had inflorescences that were infected with a smut fungus. The only genus of smut fungi known to infect *Isolepis* spp is *Entorrhiza.* This genus of smut fungi was unrepresented in MEL's collection.

7. Conclusions

Results were consistent with expectations based on botanical exploration of the area. Groups that are collected far less frequently such as bryophytes yielded new records to Victoria. Amongst the species previously known to occur in the area, several State threatened species were found. 598 collections were made during the survey improving our understanding of the distribution and habitat of the collected species. These collections included 240 angiosperm, 1 gymnosperm, 5 fern, 1 lycopod, 70 bryophyte, 4 species of lichen, and 1 smut fungus. These collections have been added to the State Botanical Collection at the National Herbarium of Victora (with numerous duplicates to be forwarded to other herbaria) and records are now visible on Australia's Virtual Herbarium. Photographs of many of the vascular plant species and most of the bryophytes were taken and are a valuable contribution towards the online flora, particularly the bryophytes, where images of many species were lacking.

Acknowledgements

We would like to thank the BushBlitz staff for organising the survey and providing wonderful support in the field and at base camp, and Parks Victoria staff, in particular Jo Durrant for her enthusiastic company, facilitating access to the Cobberas, and for assistance in finding some survey sites. We thank Nimal Karunajeewa for assistance with uploading and extracting specimen data from MELISR (MEL's specimen database).

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Appendix 1. List of mosses, liverworts and vascular plants recorded during the Australian Alps Bush Blitz					
Family	**Species**	**Putative new species**	**Threatened (EPBC Act)**	**Threatened (State Act)**	**Exotic/ pest**
Mosses/hornworts/liverworts					
Adelanthaceae	Syzygiella sonderi	No	No	No	No
Amblystegiaceae	Bryostreimannia turgida	No	No	No	No
Amblystegiaceae	Cratoneuropsis relaxa	No	No	No	No
Amblystegiaceae	Drepanocladus aduncus	No	No	No	No
Amblystegiaceae	Sanionia uncinata	No	No	No	No
Andreaeaceae	Andreaea amblyophylla	No	No	No	No
Andreaeaceae	Andreaea mutabilis	No	No	No	No
Andreaeaceae	Andreaea nitida	No	No	No	No
Aulacomniaceae	Aulacomnium palustre	No	No	No	No
Aulacomniaceae	Hymenodontopsis mnioides	No	No	No	No
Bartramiaceae	Bartramia robusta	No	No	No	No
Bartramiaceae	Bartramia robusta	No	No	No	No
Bartramiaceae	Batramia mossmanniana	No	No	No	No
Bartramiaceae	Breutelia pendula	No	No	No	No
Bartramiaceae	Conostomum pusillum var. pusillum	No	No	No	No
Bartramiaceae	Philonotis scabrifolia	No	No	No	No
Bartramiaceae	Philonotis tenuis	No	No	No	No
Brachytheciaceae	Brachytheciastrum paradoxum	No	No	No	No
Brachytheciaceae	Brachythecium mildeanum	No	No	No	Yes
Brachytheciaceae	Brachythecium rutabulum	No	No	No	No
Brachytheciaceae	Brachythecium salebrosum	No	No	No	No
Brachytheciaceae	Kindbergia praelonga	No	No	No	Yes
Bryaceae	Ochiobryum blandum	No	No	No	No
Bryaceae	Ptychostomum creberrimum	No	No	No	No
Catagoniaceae	Catagonium nitens	No	No	No	No
Dicranaceae	Dicranoloma robustum	No	No	No	No
Ditrichaceae	Ceratodon purpureus	No	No	No	No
Ditrichaceae	Ditrichum difficile	No	No	No	No

Family	Species	Putative new species	Threatened (EPBC Act)	Threatened (State Act)	Exotic/ pest
Fissidentaceae	Fissidens asplenioides	No	No	No	No
Frullaniaceae	Frullania falciloba	No	No	No	No
Frullaniaceae	Frullania probosciphora	No	No	No	No
Funariaceae	Funaria hygrometrica	No	No	No	No
Grimmiaceae	Grimmia laevigata	No	No	No	No
Grimmiaceae	Grimmia macroperichaetialis	No	No	No	No
Grimmiaceae	Grimmia pulvinata var. africana	No	No	No	No
Grimmiaceae	Racomitrium crispulum	No	No	No	No
Grimmiaceae	Racomitrium pruinosum	No	No	No	No
Hedwigiaceae	Braunia imberbis	No	No	No	No
Hedwigiaceae	Hedwigia ciliata	No	No	No	No
Hypnaceae	Calliergonella cuspidata	No	No	No	Yes
Hypnaceae	Hypnum cupressiforme var. cupressiforme	No	No	No	No
Hypnaceae	Hypnum cupressiforme var. lacunosum	No	No	No	No
Lejeuniaceae	Lejeunea subelobata	No	No	No	No
Lembophyllaceae	Lembophyllum divulsum	No	No	No	No
Lepidoziaceae	Ceramanus centipes	No	No	No	No
Lepidoziaceae	Kurzia pallescens	No	No	No	No
Lepidoziaceae	Lepidozia laevifolia	No	No	No	No
Leucobryaceae	Campylopus introflexus	No	No	No	No
Lophocoleaceae	Chiloscyphus semiteres	No	No	No	No
Lophocoleaceae	Chiloscyphus subporosus	No	No	No	No
Lophocoleaceae	Heteroscyphus coalitus	No	No	No	No
Lophocoleaceae	Heteroscyphus fissistipus	No	No	No	No
Marchantiaceae	Marchantia berteroana	No	No	No	No
Meesiaceae	Meesia muelleri	No	No	EN	No
Metzgeriaceae	Metzgeria furcata	No	No	No	No
Notothyladaceae	Phaeoceros inflatus	No	No	No	No
Orthodontiaceae	Leptotheca gaudichaudii var. gaudichaudii	No	No	No	No
Orthotrichaceae	Lewinskya rupestris	No	No	No	No

Family	Species	Putative new species	Threatened (EPBC Act)	Threatened (State Act)	Exotic/ pest
Orthotrichaceae	Zygodon intermedius	No	No	No	No
Pallaviciniaceae	Symphyogyna podophylla	No	No	No	No
Plagiochilaceae	Plagiochila retrospectans	No	No	No	No
Polytrichaceae	Polytrichum commune	No	No	No	No
Pottiaceae	Gymonostomum calcareum	No	No	No	No
Pottiaceae	Tortella dakinii	No	No	No	No
Pylaisiaceae	Calliergonella cuspidatum	No	No	No	Yes
Racopilaceae	Racopilum cuspidigerum				
Sphagnaceae	Sphagnum cristatum	No	No	No	No
Splachnaceae	Tayloria octoblepharum	No	No	No	No
Thuidiaceae	Thuidiopsis sparsa	No	No	No	No
Trichocoleaceae	Trichocolea rigida	No	No	No	No
Ferns					
Aspleniaceae	Asplenium flabellifolium	No	No	No	No
Blechnaceae	Blechnum penna-marina	No	No	No	No
Ophioglossaceae	Botrychium australe	No	No	CR	No
Hymenophyllaceae	Hymenophyllum flabellatum	No	No	No	No
Dryopteridaceae	Polystichum proliferum	No	No	No	No
Lycopods					
Lycopodiaceae	Lycopodium fastigiatum				
Lichens					
Lobariaceae	Pseudocyphellaria sp.				
Parmeliaceae	Menegazzia sp.				
Parmeliaceae	Parmelia sp.				
Stereocaulaceae	Stereocaulon sp.				
Fungi					

Family	Species	Putative new species	Threatened (EPBC Act)	Threatened (State Act)	Exotic/ pest
Entorrhizaceae	Entorrhiza sp.				
Conifers					
Podocapaceae	Podocarpus lawrencei	No	No	No	No
Flowering Plants					
Amaranthaceae	Alternanthera pungens	No	No	No	Yes
Apiaceae	Aciphylla simplicifolia	No	No	EN	No
Apiaceae	Daucus glochidiatus	No	No	No	No
Apiaceae	Gingidia harveyana	No	No	EN	No
Apiaceae	Oreomyrrhis eriopoda	No	No	No	No
Apiaceae	Oschatzia cuneifolia	No	No	EN	No
Apiaceae	Platysace lanceolata	No	No	No	No
Araliaceae	Astrotricha ledifolia	No	No	VU	No
Araliaceae	Hydrocotyle laxiflora	No	No	No	No
Araliaceae	Hydrocotyle rivularis	No	No	K	No
Araliaceae	Polyscias sambucifolia subsp. 3	No	No	No	No
Araliaceae	Trachymene humilis subsp. humilis	No	No	No	No
Asparagaceae	Arthropodium milleflorum	No	No	No	No
Asparagaceae	Lomandra longifolia subsp. exilis	No	No	No	No
Asphodelaceae	Dianella sp. aff. tasmanica (Snowfields)	No	No	No	No
Asteraceae	Brachyscome aculeata	No	No	No	No
Asteraceae	Brachyscome decipiens	No	No	No	No
Asteraceae	Brachyscome diversifolia	No	No	No	No
Asteraceae	Brachyscome scapigera	No	No	No	No
Asteraceae	Brachyscome spathulata	No	No	No	No
Asteraceae	Calotis lappulacea	No	No	VU	No
Asteraceae	Cassinia longifolia	No	No	No	No
Asteraceae	Celmisia pugioniformis	No	No	No	No
Asteraceae	Coronidium monticola	No	No	No	No

Family	Species	Putative new species	Threatened (EPBC Act)	Threatened (State Act)	Exotic/ pest
Asteraceae	Craspedia aurantia var. ? aurantia	No	No	EN	No
Asteraceae	Craspedia aurantia var. jamesii	No	No	No	No
Asteraceae	Craspedia canens	No	No	CR	No
Asteraceae	Craspedia crocata	No	No	EN	No
Asteraceae	Craspedia gracilis	No	No	No	No
Asteraceae	Euchiton involucratus	No	No	No	No
Asteraceae	Euchiton japonicus	No	No	No	No
Asteraceae	Euchiton sphaericus	No	No	No	No
Asteraceae	Euchiton umbricola	No	No	No	No
Asteraceae	Leptinella filicula	No	No	No	No
Asteraceae	Leptorhynchos elongatus	No	No	EN	No
Asteraceae	Leptorhynchos squamatus	No	No	No	No
Asteraceae	Microseris lanceolata	No	No	No	No
Asteraceae	Olearia aglossa	No	No	K	No
Asteraceae	Olearia alpicola	No	No	No	No
Asteraceae	Olearia floribunda	No	No	No	No
Asteraceae	Olearia megalophylla	No	No	No	No
Asteraceae	Olearia myrsinoides	No	No	No	No
Asteraceae	Olearia phlogopappa subsp. flavescens	No	No	EN	No
Asteraceae	Olearia phlogopappa subsp. serrata	No	No	No	No
Asteraceae	Ozothamnus obcordatus	No	No	No	No
Asteraceae	Ozothamnus secundiflorus	No	No	No	No
Asteraceae	Pappochroma bellidioides	No	No	No	No
Asteraceae	Picris angustifolia subsp. merxmuelleri	No	No	No	No
Asteraceae	Podolepis decipiens	No	No	No	No
Asteraceae	Podolepis laciniata	No	No	EN	No
Asteraceae	Podolepis robusta	No	No	No	No
Asteraceae	Senecio extensus	No	No	EN	No
Asteraceae	Senecio interpositus	No	No	EN	No
Asteraceae	Senecio lageniformis	No	No	EN	No

Family	Species	Putative new species	Threatened (EPBC Act)	Threatened (State Act)	Exotic/ pest
Asteraceae	Senecio linearifolius var. denticulatus	No	No	No	No
Asteraceae	Senecio linearifolius var. latifolius	No	No	No	No
Asteraceae	Senecio niveoplanus	No	No	EN	No
Asteraceae	Sigesbeckia australiensis	No	No	No	No
Asteraceae	Solenogyne gunnii	No	No	No	No
Asteraceae	Tragopogon dubius	No	No	No	Yes
Asteraceae	Vittadinia cervicularis	No	No	No	No
Asteraceae	Vittadinia sulcata	No	No	K	No
Asteraceae	Xerochrysum andrewiae	No	No	No	No
Asteraceae	Xerochrysum subundulatum	No	No	No	No
Boraginaceae	Heliotropium amplexicaule	No	No	No	Yes
Boraginaceae	Myosotis laxa subsp. Cespitosa	No	No	No	Yes
Brassicaceae	Cardamine papillata	No	No	EN	No
Campanulaceae	Lobelia pedunculata	No	No	No	No
Campanulaceae	Lobelia simplicicaulis	No	No	No	No
Campanulaceae	Lobelia surrepens	No	No	No	No
Campanulaceae	Wahlenbergia ceracea	No	No	No	No
Campanulaceae	Wahlenbergia gloriosa	No	No	No	No
Caryophyllaceae	Cerastium glomeratum	No	No	No	Yes
Caryophyllaceae	Scleranthus biflorus	No	No	No	No
Caryophyllaceae	Scleranthus diander	No	No	EN	No
Caryophyllaceae	Scleranthus fasciculatus	No	No	EN	No
Caryophyllaceae	Stellaria angustifolia subsp. angustifolia	No	No	No	No
Caryophyllaceae	Stellaria pungens	No	No	No	No
Celastraceae	Stackhousia monogyna	No	No	No	No
Crassulaceae	Crassula helmsii	No	No	No	No
Crassulaceae	Crassula sieberiana	No	No	No	No
Crassulaceae	Sedum album	No	No	No	Yes
Cunoniaceae	Bauera rubioides	No	No	No	No
Cyperaceae	Bolboschoenus medianus	No	No	No	No

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Cyperaceae	Carex blakei	No	No	EN	No
Cyperaceae	Carex buxbaumii subsp. buxbaumii	No	No	No	Yes
Cyperaceae	Carex capillacea	No	No	EN	No
Cyperaceae	Eleocharis acuta	No	No	No	No
Cyperaceae	Gahnia sieberiana	No	No	No	No
Cyperaceae	Isolepis crassiuscula	No	No	No	No
Cyperaceae	Isolepis gaudichaudiana	No	No	EN	No
Dilleniaceae	Hibbertia ericifolia subsp. ericifolia	No	No	No	No
Dilleniaceae	Hibbertia obtusifolia	No	No	No	No
Ericaceae	Acrothamnus hookeri	No	No	No	No
Ericaceae	Acrothamnus montanus	No	No	EN	No
Ericaceae	Acrotriche leucocarpa	No	No	EN	No
Ericaceae	Dracophyllum continentis	No	No	No	No
Ericaceae	Epacris celata	No	No	EN	No
Ericaceae	Epacris impressa	No	No	No	No
Ericaceae	Epacris paludosa	No	No	No	No
Fabaceae	Almaleea capitata	No	No	EN	No
Fabaceae	Bossiaea distichoclada	No	No	No	No
Fabaceae	Cullen microcephalum	No	No	No	No
Fabaceae	Dillwynia phylicoides	No	No	No	No
Fabaceae	Glycine clandestina	No	No	No	No
Fabaceae	Hovea asperifolia subsp. asperifolia	No	No	No	No
Fabaceae	Lotus uliginosus	No	No	No	Yes
Fabaceae	Oxylobium arborescens	No	No	No	No
Fabaceae	Podolobium alpestre	No	No	No	No
Fabaceae	Pultenaea fasciculata	No	No	EN	No
Fabaceae	Pultenaea forsythiana	No	No	No	No
Fabaceae	Trifolium repens	No	No	No	Yes
Geraniaceae	Geranium antrorsum	No	No	No	No
Geraniaceae	Geranium gardneri	No	No	No	No

Family	Species	Putative new species	Threatened (EPBC Act)	Threatened (State Act)	Exotic/ pest
Geraniaceae	Geranium potentilloides	No	No	No	No
Geraniaceae	Pelargonium australe	No	No	No	No
Goodeniaceae	Dampiera fusca	No	No	CR	No
Goodeniaceae	Goodenia hederacea subsp. alpestris	No	No	No	No
Goodeniaceae	Goodenia montana	No	No	No	No
Haloragaceae	Gonocarpus montanus	No	No	No	No
Haloragaceae	Myriophyllum lophatum	No	No	K	No
Haloragaceae	Myriophyllum variifolium	No	No	No	No
Hypoxidaceae	Hypoxis hygrometrica	No	No	No	No
Juncaceae	Juncus ? australis	No	No	No	No
Juncaceae	Juncus falcatus subsp. falcatus	No	No	No	No
Juncaceae	Juncus phaeanthus	No	No	EN	No
Juncaceae	Luzula meridionalis	No	No	No	No
Juncaceae	Luzula modesta	No	No	No	No
Lamiaceae	Prostanthera cuneata	No	No	No	No
Lamiaceae	Prostanthera phylicifolia	No	No	EN	No
Lamiaceae	Prunella vulgaris	no	no	no	yes
Lentibulariaceae	Utricularia dichotoma	No	No	No	No
Montiaceae	Montia australasica	No	No	No	No
Myrtaceae	Baeckea gunniana	No	No	No	No
Myrtaceae	Baeckea utilis	No	No	No	No
Myrtaceae	Callistemon pityoides	No	No	No	No
Myrtaceae	Eucalyptus dalrympleana	No	No	No	No
Myrtaceae	Eucalyptus forresterae	No	No	EN	No
Myrtaceae	Eucalyptus glaucescens	No	No	VU	No
Myrtaceae	Eucalyptus kybeanensis	No	No	No	No
Myrtaceae	Eucalyptus perriniana subsp. Familiaris	No	No	EN	No
Myrtaceae	Kunzea peduncularis	No	No	No	No
Myrtaceae	Leptospermum grandifolium	No	No	No	No
Myrtaceae	Leptospermum lanigerum	No	No	No	No

Family	Species	Putative new species	Threatened (EPBC Act)	Threatened (State Act)	Exotic/ pest
Myrtaceae	Leptospermum myrtifolium	No	No	No	No
Onagraceae	Epilobium billardiereanum	No	No	No	No
Onagraceae	Epilobium gunnianum	No	No	No	No
Orchidaceae	Gastrodia procera	No	No	No	No
Orchidaceae	Pterostylis falcata	No	No	No	No
Orobanchaceae	Euphrasia caudata	No	No	EN	No
Orobanchaceae	Euphrasia collina subsp. collina	No	No	No	No
Papaveraceae	Eschscholzia californica	No	No	No	Yes
Phyllanthaceae	Poranthera oreophila	No	No	EN	No
Pittosporaceae	Rhytidosporum inconspicuum	No	No	EN	No
Pittosporaceae	Rhytidosporum procumbens	No	No	No	No
Plantaginaceae	Linaria arvensis	No	No	No	Yes
Plantaginaceae	Plantago alpestris	No	No	VU	No
Plantaginaceae	Plantago euryphylla	No	No	No	No
Plantaginaceae	Veronica derwentiana subsp. derwentiana	No	No	No	No
Plantaginaceae	Veronica perfoliata	No	No	No	No
Plantaginaceae	Veronica subtilis	No	No	No	No
Poaceae	Agrostis australiensis	No	No	EN	No
Poaceae	Agrostis bettyae	No	No	K	No
Poaceae	Agrostis parviflora	No	No	No	No
Poaceae	Agrostis propinqua	No	No	K	No
Poaceae	Agrostis venusta	No	No	No	No
Poaceae	Anthosachne scabra	No	No	No	No
Poaceae	Austrostipa nivicola	No	No	EN	No
Poaceae	Cymbopogon refractus	No	No	No	No
Poaceae	Deyeuxia brachyathera	No	No	No	No
Poaceae	Deyeuxia gunniana	No	No	No	No
Poaceae	Deyeuxia monticola	No	No	No	No
Poaceae	Deyeuxia quadriseta	No	No	No	No
Poaceae	Dichelachne crinita	No	No	No	No

Family	Species	Putative new species	Threatened (EPBC Act)	Threatened (State Act)	Exotic/ pest
Poaceae	Dichelachne inaequiglumis	No	No	No	No
Poaceae	Dichelachne rara	No	No	No	No
Poaceae	Hierochloe redolens	No	No	No	No
Poaceae	Hookerochloa hookeriana	No	No	No	No
Poaceae	Lachnagrostis aemula	No	No	No	No
Poaceae	Lchnagrostis filiformis	No	No	No	No
Poaceae	Lachnagrostis meionectes	No	No	EN	No
Poaceae	Lachnagrostis sp. (Gow Plain)	Yes	No	No	No
Poaceae	Lachnagrostis sp. (Thredbo)	Yes	No	No	No
Poaceae	Pentapogon quadrifidus	No	No	No	No
Poaceae	Poa costiniana	No	No	No	No
Poaceae	Poa ensiformis	No	No	No	No
Poaceae	Poa fawcettiae	No	No	No	No
Poaceae	Poa helmsii	No	No	No	No
Poaceae	Poa hookeri	No	No	EN	No
Poaceae	Poa petrophila	No	No	EN	No
Poaceae	Poa phillipsiana	No	No	No	No
Poaceae	Rytidosperma longifolium	No	No	No	No
Poaceae	Rytidosperma nudiflorum	No	No	No	No
Poaceae	Rytidosperma oreophilum	No	No	EN	No
Poaceae	Rytidosperma pallidum	No	No	No	No
Poaceae	Trisetum spicatum subsp. australiense	No	No	No	No
Polygalaceae	Comesperma retusum	No	No	No	No
Polygonaceae	Acetosella vulgaris	No	No	No	Yes
Polygonaceae	Muehlenbeckia axillaris	No	No	VU	No
Polygonaceae	Muehlenbeckia diclina subsp. Gippsland (R.O.Makinson 1007) Makinson	No	No	VU	No
Proteaceae	Banksia canei	No	No	CR	No
Proteaceae	Grevillea australis	No	No	No	No
Proteaceae	Grevillea brevifolia	No	No	EN	No
Proteaceae	Hakea microcarpa	No	No	No	No

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Proteaceae	Persoonia chamaepeuce	No	No	No	No
Proteaceae	Persoonia confertiflora	No	No	No	No
Ranunculaceae	Ranunculus graniticola	No	No	No	No
Ranunculaceae	Ranunculus lappaceus	No	No	No	No
Ranunculaceae	Ranunculus millanii	No	No	No	No
Ranunculaceae	Ranunculus pimpinellifolius	No	No	No	No
Ranunculaceae	Ranunculus sardous	No	No	No	Yes
Restionaceae	Baloskion australe	No	No	No	No
Rhamnaceae	Pomaderris elachophylla	No	No	No	No
Rosaceae	Acaena echinata	No	No	No	No
Rosaceae	Acaena × ovina	No	No	No	No
Rosaceae	Geum urbanum var. strictum	No	No	No	No
Rosaceae	Rubus leucostachys	No	No	No	Yes
Rosaceae	Rubus parvifolius	No	No	No	No
Rubiaceae	Asperula pusilla	No	No	No	No
Rubiaceae	Coprosma hirtella	No	No	No	No
Rutaceae	Asterolasia trymalioides subsp. trymalioides	No	No	No	No
Rutaceae	Cyanothamnus anemonifolius subsp. anemonifolius	No	No	No	No
Rutaceae	Leionema phylicifolium	No	No	No	No
Rutaceae	Phebalium squamulosum subsp. squamulosum	No	No	No	No
Rutaceae	Zieria citriodora	No	VU	No	No
Santalaceae	Choretrum pauciflorum	No	No	No	No
Sapindaceae	Dodonaea viscosa subsp. cuneata	No	No	No	No
Scrophulariaceae	Limosella australis	No	No	No	No
Scrophulariaceae	Verbascum thapsus subsp. thapsus	No	No	No	Yes
Solanaceae	Solanum chenopodioides	No	No	No	Yes
Solanaceae	Solanum sisymbriifolium	No	No	No	Yes
Stylidiaceae	Stylidium montanum	No	No	EN	No
Thymelaeaceae	Pimelea ligustrina subsp. ciliata	No	No	EN	No
Thymelaeaceae	Pimelea pauciflora	No	No	EN	No

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Verbenaceae	Verbena officinalis var. africana	No	No	No	No
Violaceae	Melicytus angustifolius subsp. divaricatus	No	No	No	No
Violaceae	Viola betonicifolia	No	No	No	No
Violaceae	Viola fuscoviolacea	No	No	EN	No
Violaceae	Viola improcera	No	No	K	No
Winteraceae	Tasmannia xerophila subsp. xerophila	No	No	No	No