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Magazine editor: Tamara Leitch
Conservation Coordinator: Irene Proebsting
Archivist: Marja Bouman
Webmaster: John Sunderland

Contact

The Secretary
Latrobe Valley Field
Naturalists Club Inc.
P.O. Box 1205
Morwell VIC 3840
info@lvfieldnats.org
0410 237 292

Website

www.lvfieldnats.org

General meetings

Held at 7:30 pm on the fourth Friday of each month at the Newborough Uniting Church, Old Sale Road Newborough VIC 3825



Austral Leek-orchid *Prasophyllum australe* photographed by Lorraine Norden at the Alberton Cemetery during a Botany Group excursion in November 2021.

Upcoming events

May general meeting: Friday 27 May – Burrowing Crayfish – Beverley van Praagh

May excursion: Saturday 28 May – Fungi at Duff Sawmill Track

Botany Group: Saturday 4 June – Fungi at Jumbuk Park 10am.

Bird Group: Tuesday 7 June – Witt's Gully, Hernes Oak. Meet 9am at entrance gate on McDonalds Track.

June general meeting: Friday 24 June – Lyrebirds (speaker TBC)

June excursion: Saturday 25 June – Wirilda Environment Park

Botany Group: Saturday 2 July – Taxonomy of the Liliaceae. Details TBC.

Bird Group: Tuesday 5 July – Jeeralang North. Meet 9am at Churchill Hub carpark, Phillip Parade.

Alberton Cemetery and the Old Port Trail 27.11.2021

Alberton Cemetery used to have a wooden sign outside proclaiming the remnant grassland area in the cemetery a site of botanical significance. I have a photo of the sign taken in 2018 but for some reason it is no longer there, although the grassland surrounding the burial areas remains and this was our focus for the excursion. A central path runs 600 metres through the cemetery to the Albert River, which is obviously tidal as White Mangrove *Avicennia marina* (now listed as endangered in Victoria) and a coastal saltmarsh plant community was present. One of the men who maintains the cemetery arrived and explained that the area with significant grasses is slashed once a year, after the grasses have seeded and with the blades set as high as possible.



Pale Flax-lily (Photo: Lorraine Norden)

Our group walked up one side of the grassland area and back on the other side, with the birds wandering here and there. They were very pleased to have a good sighting of an Olive-backed Oriole in fine voice.

As well as the native grasses (spear-grasses, wallaby-grasses, kangaroo grass, tussock grass) and lots of weedy grasses, there was a good selection of wildflowers, orchids (a lovely flowering leek orchid *Prasophyllum australe*) and sedges to explore. After the very wet spring, there were several remaining damp areas supporting Common Scale-rush *Lepyrodia muelleri* and twig-sedges, including either *Machaerina rubiginosa* or the very similar *M. arthrophylla*, *Machaerina* being the revised name for all the *Baumea*

species. The former has been documented at Snake Island and the latter at Port Albert, both nearby. Although the nuts were not ripe, at home I managed to extract one and confirm it as *M. rubiginosa*. Also Stream Sedge *Carex brownii* and several *Juncus* spp. Wildflowers included Chocolate Lily *Arthropodium strictum*, Golden Weather-grass *Hypoxis hygrometrica*, and Pale Flax-lily *Dianella longifolia*.

We had lunch at Port Albert and then headed to the Port Albert end of the Old Port Trail, where Rohan Bugg led us up to the Bluff and beyond, through coastal heathland vegetation. Tree Broom-heath *Monotoca elliptica* with its red fruit had us mystified for a while. There were plenty of Mantis Orchids *Caladenia tentaculata* and Large Duck-orchids *Caleana major*, a bit past their prime but still great to see.

Lorraine Norden



Golden Weather-grass (Photo: Margaret Rowe)

A plant list for this excursion is available in Appendix I.

2021 Bird Challenge Count – 18 Nov and 2-5 Dec

What we found and where

Energy Australia (EA) Wetlands had the most recorded species with 66; Yarragon South had 47 and Moe Water Treatment Works (WTW) had 45.

Moe WTW had the highest number of birds with 409. This total was bulked up a bit by there being 100 Chestnut Teal in town on the day. Trafalgar Treatment Ponds had 90 Pacific Black Ducks helping its total score along. To reach its total of 217 birds, EA wetlands needed the combined efforts of the fly-bys from a few dozen Starlings and Welcome Swallows as well as a couple of small flotillas of Grey Teal and Black Swans.

Only a few species had total numbers of over 100 individuals. These records show Pacific Black Duck numbers at 175 (nine sites); Common Starlings at 123 (seven sites) and Welcome Swallows at 120 (six sites).

Our efforts at Morwell National Park on Sunday afternoon were those of tired people and haven't been included, and Jeeralang West (private property) wasn't surveyed this time around.

Most likely birds to see

Australian Magpies were recorded at 12 sites – all except Uralla Reserve in Trafalgar. Grey Fantails were at 11 sites and Yellow-faced Honeyeaters at 10 sites.

Eurasian Blackbirds weren't seen on the roads between Traralgon and Tyers, or Yarragon and Traf, or at Traf treatment ponds. We sympathise with any disappointment that may have been felt by these observers.

Twitchers' Corner

These are the places where one bird was recorded in a single location and was the only record for that species in this year's survey.

Firstly, the locked gate sites: We got in a week or so early at the EA Wetlands at Morwell Bridge when our regular survey became quite irregular during COVID restrictions. Here we had the only record for the Australasian Darter, Royal Spoonbill, Whistling Kite, Bassian Thrush and Australasian Pipit.

The Moe Water Treatment works on the Friday had exciting sightings of a solitary House Sparrow, Musk Duck, and Black-fronted Dotterel. Traf Treatment Ponds was the place to be on Sunday to see a White-necked Heron and a Blue-winged Parrot.

The urban parks didn't disappoint. At Mathison Park in Churchill we saw a Black Duck-Mallard hybrid, Latham's Snipe and Yellow Thornbill. On Thursday at Crinigan Road Bushland Reserve in Morwell there was the only Horsfield's Bronze-Cuckoo sighting. Those who went to Traralgon Railway Reservoir Reserve on Saturday had a chance to see the Australian Hobby and then a Gang-gang Cockatoo at Wirilda Environment Park in the afternoon.

One Sunday group started their day in Wendy and Ken's garden at Yarragon South and went around the local roads to Uralla Reserve outside Trafalgar. They saw a Satin Flycatcher, Leaden Flycatcher and Rose Robin and were one of the two excursions to record Dusky Woodswallows. Friday's group saw a White-naped Honeyeater at Lake Narracan.

Some other single-site species sightings included more than one bird. Pied Stilts and Sharp-tailed Sandpipers were at Moe WTW; while EA wetlands had the only Golden-headed Cisticolas and Red-browed Finches identified. Wirilda Environment Park was, as always, the place to see Yellow-tufted Honeyeaters.

People

We had 19 participants this year. Our overall tally of 32 observers onsite included 13 unique sightings over the six groups and five days. A five-day, full house, frequent flyer award goes to *El Presidente* David S, and Bird Group stalwarts Joëlle and David M did four days each.

At EA wetlands on Thursday November 18, Brett, David M, David S, Jay and Joëlle had to deviate from our usual route which was flooded. Bill from Indigenous Designs escorted us, and Brett in particular spotted a LOT of birds...Can he be made into an app, I wonder?

On Bird Survey weekend Thursday, three people – David S, Meryl and Jay – did a morning survey at Crinigan Road for a change (we usually stagger around there in the afternoon after a morning spent at EA wetlands) and the birds were good.

On Bulk Birds Friday, David M led Joëlle, Brett, Julie P, David S, Mark and Alix through the wilds and swamp remnant of Moe and off to Lake Narracan for lunch.

The Traralgon group on Friday was ably led by Tamara and even collected a local, Helen, who joined in along the way. The rest of the group of six comprised Alix, David S, Phil and Joëlle.

The Yarragon South assembly broke with tradition and had their event on Sunday. Wendy S led Ken S, Jenny R, Fergus, Steve W, Gudrun W and Rohan B. Dave Mules obligingly checked the Traf Treatment Ponds early to allow the main group to finish their crumpets and coffee and start in their usual place.

On Sunday at Churchill's Mathison Park the birding was great, the birders less so. David S, Joëlle and Jay managed to enjoy that site, but faded rapidly on a bit of a cursory look at Morwell National Park in the afternoon. Finding the Latham's Snipe in the Reed Warbler pond was both a surprise and a delight.

In conclusion, we can't really call it science, but we can call it fun. Many of the species recorded are highly mobile and a fair bit of luck is no doubt involved in whether they come to where we are on these survey days. I'd guess that the number of observers and/or the time of day might make a difference but there's no way to measure that.

Two years of COVID has put a blight on publicity generally, and on our confidence to deal with or mingle with strangers. The Bird Count was only advertised through the Club, even though in other times it's been a great opportunity to include new or infrequent participants in Club activities.

Suggestions for improving next year's count are welcome. The full data report is also available on request.

Jay Duncan – Personal Assistant, Cartographer and Chief Number-cruncher to the Bird Group Coordinator

President's Report 2021-22

This year we are entering our third year of COVID. If 2020 was characterised by the fight to get to zero COVID cases, in 2021 it was by the drive to vaccinate everybody. During the past year there have been a number of State Government announcements that have disrupted many of our Club activities. Many of our general excursions have been cancelled due to restrictions on numbers and all presentations at our general meetings have been conducted on Zoom. Our thanks go to Phil who has facilitated all our meetings. As we enter 2022, many of these restrictions have been relaxed but we will still require members to be vigilant and comply with social distancing where possible. The virus is still active in our community and we are aware that some of our Club members are reluctant to attend meetings in person. At the time of writing, we are investigating possible ways to livestream some presentations so members can watch our meetings from the security of their homes.

Although our Zoom meetings don't allow us to socially interact, they do have some advantages especially if our speakers live in Melbourne. Our speaker in May was Geoff Williams from the Australian Platypus Conservancy and our speaker in August was Nicole Mertons on the Great Victorian Fish Count. These two presentations were topics on which many of us would have limited exposure.

Our excursions proceeded where possible with our first one to the Giffard area with Mitch in August 2021. In October our excursion was to Boola Boola State Forest and in November we went for a walk to the summit of Mount Hedrick. These are three sites that I had not been to previously so I was pleased to attend these Club excursions. In January 2022 we decided to go to Baw Baw again and walk to the summit, and in February we met at Sandy Point to look at shorebirds.

The Government restrictions also affected our Club camps and we had to postpone our spring camp to Brisbane Ranges and our autumn camp to Mount Hotham. Other camps cancelled were the ANN camp at Stanthorpe in August and the SEANA spring camp to Ballarat in October. The SEANA autumn camp to Hamilton went ahead in April following a twelve-month postponement; it was attended by nine of our Club members which was very encouraging.

In spite of the restrictions, the Club has been very active in responding to a number of environmental issues and our thanks go to our new Conservation Coordinator for bringing these to our attention. Irene accepted the position at our Annual General Meeting last year, which coincided with quite a number of conservation issues arising, each requiring a formal submission. I believe this has raised our profile in the community and our views have been taken into account by the decision-makers.

Marja accepted the position of Treasurer at our AGM at a difficult time, when there have been changes to our subscriptions reflective of our expenditure. A new Club subcommittee was established in August to use Marja's expertise in designing a new Club web page. A lot of progress has been made and I wish to acknowledge the huge effort that Marja has made so far. We hope to have our new web page active this year. We also acknowledge John for setting up and managing the current

web page, which he has done for an extended period of at least 15 years.

A Club Asset Register has been prepared during this term and will be available on the web page when it becomes available. The Club purchased a Swarovski telescope and a Manfrotto tripod during the year; they have been added to the register and will be available for birdwatching excursions. The committee will prepare some rules for the use of our assets and make these available to Club members.

I would like to extend our best wishes to Wendy Savage who is undergoing treatment and we wish her well and a full recovery. Wendy's contribution to the Club has been sadly missed and I appreciate all the efforts by our committee members to fill a huge void in planning the Club's activities. I was saddened by the passing of Geoff Tims in November and Jackie (who was our Conservation Coordinator for many years) being admitted into care.

Finally, I would like to give notice that I will not be contesting the President's position at the 2023 AGM. We now have a lot of talented members on our committee and I feel it is time for fresh ideas to take the Club forward. I have appreciated the contribution of all our committee members over the years and will be making further comments at the next AGM.

David Stickney

Botany excursion to Uralla Reserve 12.02.2022

The Botany group visited Uralla Reserve to look at ferns in the damp areas of the reserve, but before we took off there were some interesting distractions. Jack discovered a Small Tongue-orchid *Cryptostylis leptochila* in flower, and in the carpark we found a Creeping Mistletoe *Muellerina eucalyptoides* growing at eye height on a Blackwood tree.

For our survey, we followed Stewarts Track, turned right for a short distance on Donaldsons Track, then turned around and followed Donaldsons Track downhill back to the carpark. Only a small number of ferns had been recorded in the Club's database for the reserve and we hoped to expand on this; that turned out to be an easy task. With six pairs of prying eyes we managed to identify a total of 16 different ferns, of which 4 were new recordings for the reserve. The Ground-ferns were giving us a bit of headache as usual; a hand lens and a copy of *Duncan and Isaac (1986)* were invaluable for identifying *Hypolepis* species.

Marja Bouman

A list of the ferns recorded is available in Appendix II.



Botanists identifying *Hypolepis rugosula*
(Photos: Helen Culjkovic)

SEANA Autumn camp at Portland

A run of fine, warm days added to the enjoyment of the South East Australian Naturalists Association Autumn 2022 Camp, hosted by the Portland Field Naturalists Club over the weekend of 25-27 March. This was the first SEANA gathering for twelve months, with the planned Spring 2021 Ballarat camp having been cancelled at a late stage due to the then ever-changing COVID-19 restrictions.

The camp was based at the Portland Bay Lodge, in a coastal location 9 km north-east of the town. Participant numbers were limited to 80 based on the size of the dining/evening presentations area. Just two LVFNC members attended, and five Sale & District FNC members had an even longer journey to south-west Victoria. The lodge can accommodate as many as 80 people at two to a room, although some camped in the spacious grounds or arranged their own lodgings elsewhere.

The excursions program across Saturday and Sunday included full-day and half-day trips to the significant number of national parks, flora reserves, wetlands and river estuaries in the region. There was also an opportunity to tour the Budj Bim World Heritage Indigenous Protected Area. The program comprised both knowledgeably-led excursions and self-led destinations with supplied maps and nature guides, thereby giving folk a wide range of options.

Two of the excursions that Gill and I joined had the Surry River as a linking theme. This river holds historical, cultural and natural significance, which was outlined by local historian Martin Boyer, who is the Riverkeeper for the Friends of the Surry. Martin led our exploration of the stretch where the river approaches the sea near Narrawong, north-east of Portland. Despite the effects of early wool production and dairying, as well as a number of artificial openings to the sea, the river is now being managed to restore its natural values.



'Stringy's Tree', a large Messmate in
Cobboboonee NP (Photo: Phil Rayment)

The Cobboboonee National Park was proclaimed in 2008, following campaigns by the Portland FNC and local Gunditjmara First Nations people for its protection. Covering an area of 18,510 ha, the park contains lowland stringybark forests, heathlands and wetlands, and the upper reaches of the above-mentioned Surry River. The well-known Great South West walk treks through the park. Leader Bob Hodgetts explained that much of the forest is regrowth from harvesting last century or following fires, but some mature trees survive, such as the fine Messmate *Eucalyptus obliqua* in the accompanying photograph. This tree, approximately 30 m in height, is estimated to be 187 years old, which dates it back to the time of the settlement of Portland by the Henty Brothers.

Turning briefly to evening speakers, the Friday evening presentation by Mr Gavin Prentice, Senior Resource Manager with the Glenelg-Hopkins CMA, covered the Glenelg Estuary and Discovery Bay Ramsar site and the projects underway there. This is Victoria and Australia's newest Ramsar site and was gazetted as a Wetland of International Significance in August 2018. Dr John Sherwood, Honorary Associate

Professor in the School of Life & Environment Sciences at Deakin University Warrnambool, gave a compelling talk on Saturday evening focusing on coastal geology – the past, present and projected future, with the latter part being sobering to say the least.

The Portland FNC, including their President Vivien Holyoake and key organiser Ruth Graney, deserves our heartfelt thanks for conducting this SEANA camp in fine style, whilst having to contend with the extant COVID-19 requirements.

Philip Rayment

REPORT ON BUSINESS MEETING 19.04.2022

Finance

Cash Management Trading Account: \$3,641.44 Term Deposit: \$22,146.30

Business Arising, Correspondence & General Business

- New Club website – Marja is working on setting up Squarespace website framework. Irene is working on the visual design for key pages. Phil has been writing content. Next meeting 9 May.
- Gippsland FM Radio – 21 June at 12:30 pm, Ken will be speaking on Morwell National Park

Conservation Matters

- ENGIE are required to produce an Environmental Effects Statement for Hazelwood. There will be 15 days for us to make a submission after the opening date, which is yet to be announced.
- Biolink – Delburn wind farm is going ahead. There is a meeting coming up. Offset money is going to HVP.
- Tyers Road bridge replacement – Site preparation is underway. Royal Botanic Gardens Victoria collected seed.
- VEAC has completed its report on the values of the Mirboo North Immediate Protection Area (IPA) and has recommended the area be reserved as a Regional Park, or a Nature Conservation Reserve if another nearby piece of bushland is included. The Club has been invited to engage with the Eminent Panel as they consult with stakeholders. There is a meeting Mon 2 May, to be attended by David and Ken.
- The Westernport woodlands were not included on the State Government's "Bass Coast Distinctive Areas and Landscapes" draft policy and Save Westernport Woodlands (SWW) are calling for submissions to address this omission by 29 April. Irene attended a Zoom submission workshop run by SWW. The omitted area is slated for sand mining in the future. Irene is drafting a submission and will send it around for comments.

Latrobe Valley Naturalist is the official publication of the Latrobe Valley Field Naturalists Club Inc. The Club subscription includes the "Naturalist".

Brief contributions and short articles on any aspect of natural history are invited from members of all clubs. Articles, including those covering Club speakers and excursions, would typically be around one A4 side in length, should not exceed 1,000 words, and may be edited for reasons of space and clarity. Photos should be sent as an attachment and be a maximum of 1 megabyte in size.

Responsibility for the accuracy of information and opinions expressed in this magazine rests with the author of the article.

Contributions should be addressed to:

Ms Tamara Leitch
The Editor
LVFNC Inc.
PO Box 839
TRARALGON VIC 3844

Phone: 0438 372 186

Email: tleitch@wideband.net.au

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Deadline for articles to be considered for inclusion in the next issue (May/June): 29 May 2022

CLUB ACTIVITIES PROGRAM 2022

General meetings and excursions

General meetings commence at 7.30 pm, excursions at 10.00 am. Meeting place and venue details will be circulated via email and the *LV Naturalist* magazine closer to the events.

Fri 27 May	Beverley Van Praagh presentation on Burrowing Crayfish
Sat 28 May	Excursion to Duff Sawmill Track, near Tarra Bulga National Park
Fri 24 Jun	Lyrebirds (speaker TBC)
Sat 25 Jun	Excursion to Wirilda Environment Park, Yallourn
Fri 22 Jul	Winter Members' Night
Sat 23 Jul	Excursion to Uralla Nature Reserve, Trafalgar
Fri 26 Aug	Mitch Smith presentation on Peacock Spiders
Sat 27 Aug	<i>iNaturalist</i> workshop led by Ken Harris, Moe Library
Fri 16 Sep	Tania Ireton presentation on Coastal Birds of Bayside
Sat 17 Sep	Excursion to Mount Worth State Park, near Warragul
23-25 Sep	SEANA Spring Camp at Merricks
7-11 Oct	Club Spring Camp at Bacchus Marsh
Fri 28 Oct	Dr Lindy Lumsden presentation on Insectivorous Bats
Sat 29 Oct	Excursion to Morwell National Park
Fri 25 Nov	Pollinators (speaker TBC)
Sat 26 Nov	Excursion to Monash University Aboriginal Garden, Clayton
Sat 10 Dec	Christmas Party (venue TBC)
Fri 13 Jan 2023	Summer Members' Night
3-7 Feb 2023	Club Summer Camp, Licola or Mt Hotham

2022 Bird Group activities

Meet 9.00 am. Meeting place will be circulated via email and the *LV Naturalist* magazine closer to the events. Contact Joelle on 0459 504 305.

Tue 7 Jun	Witts Gully, Hernes Oak
Tue 5 Jul	Churchill / Jeeralang North
Mon 11 Jul	Quarterly bird survey, Energy Australia wetlands, Morwell
Tue 2 Aug	Glengarry / Toongabbie
Tue 6 Sep	Tarra Bulga National Park
Tue 4 Oct	Glen Nayook / Rokeby
Thu 20 Oct	Quarterly bird survey, Energy Australia wetlands, Morwell
Tue 1 Nov	Toora [Melbourne Cup Day]
1-4 Dec	Bird Challenge

2022 Botany Group activities

Meet 10.00 am. Contact Marja on 0432 476 899.

Sat 4 Jun	Fungi excursion to Jumbuk Park
Sat 2 Jul	Taxonomy of the Liliaceae
Sat 30 Jul	Liverworts and Mosses – identification with microscope
Sat 3 Sep	Plant survey at Holey Plains
Sat 1 Oct	Excursion to Won Wron State Forest, focusing on orchids
Sat 29 Oct	Excursion to Buttongrass Nature Trail, Bunyip State Park
Sat 19 Nov	Excursion to Darriman Bushland Reserve, Giffard
Sat 11 Feb 2023	Looking at plants from summer camp

APPENDICES

APPENDIX I – Plant list for excursion to Alberton Cemetery and the Old Port Trail, 27 November 2021

<u>Family</u>	<u>Genus & Species</u>	<u>Common name</u>	<u>Previous name</u>	<u>Location</u>
Ferns				
Dennstaedtiaceae	<i>Pteridium esculentum</i>	Austral Bracken		AlbC OPT
Conifers				
Pinaceae	<i>Pinus radiata</i> *	Monterey Pine		AlbC
Monocotyledons				
Asparagaceae	<i>Arthropodium strictum</i>	Chocolate Lily	<i>Dichopogon strictus</i> , Liliaceae	AlbC
Asparagaceae	<i>Asparagus scandens</i> *	Asparagus Fern	Liliaceae	AlbC
Asparagaceae	<i>Lomandra longifolia</i> <i>subsp. longifolia</i>	Spiny-headed Mat-rush		AlbC OPT
Asphodelaceae	<i>Bulbine bulbosa</i>	Bulbine Lily	Liliaceae	AlbC
Asphodelaceae	<i>Caesia calliantha</i>	Blue Grass-lily	Liliaceae	AlbC
Asphodelaceae	<i>Caesia parviflora</i>	Pale Grass-lily	Liliaceae	AlbC OPT
Asphodelaceae	<i>Dianella longifolia</i>	Pale Flax-lily	Liliaceae	AlbC
Asphodelaceae	<i>Dianella revoluta</i>	Black-anther Flax-lily	Liliaceae	AlbC OPT
Asphodelaceae	<i>Tricoryne elatior</i>	Yellow Rush Lily	Liliaceae	AlbC
Asphodelaceae	<i>Xanthorrhoea australis</i>	Austral Grass- tree		OPT
Asphodelaceae	<i>Xanthorrhoea minor</i>	Small Grass-tree		AlbC OPT
Colchicaceae	<i>Burchardia umbellata</i>	Milkmaids	Liliaceae	AlbC
Cyperaceae	<i>Carex brownii</i>	Stream Sedge		AlbC
Cyperaceae	<i>Ficinia nodosa</i>	Knobby Club- sedge	<i>Isolepis nodosa</i>	OPT
Cyperaceae	<i>Gahnia clarkei</i>	Tall Saw-sedge		OPT
Cyperaceae	<i>Isolepis levynsiana</i> *	Tiny Flat-sedge	<i>Cyperus tenellus</i>	AlbC
Cyperaceae	<i>Isolepis sp.</i>	Club-rush		AlbC
Cyperaceae	<i>Lepidosperma gunnii</i>	Little Sword- sedge		AlbC
Cyperaceae	<i>Lepidosperma</i> <i>longitudinale</i>	Pithy Sword- sedge		AlbC
Cyperaceae	<i>Lepidosperma sieberi</i>	Sand-hill Sword- sedge	<i>Lepidosperma concavum</i>	OPT
Cyperaceae	<i>Machaerina acuta</i>	Pale Twig-sedge	Baumea	AlbC
Cyperaceae	<i>Machaerina juncea</i>	Bare Twig-rush	Baumea	OPT
Cyperaceae	<i>Machaerina rubiginosa</i>	Soft Twig-sedge	Baumea	AlbC
Cyperaceae	<i>Schoenus apogon</i>	Common Bog-		AlbC

		rush		
Hypoxidaceae	<i>Hypoxis hydrometrica</i>	Golden Weather-grass		AlbC
Iridaceae	<i>Romulea rosea var australis*</i>	Onion Grass		AlbC
Iridaceae	<i>Sisyrinchium micranthum*</i>	Striped Rush-leaf	<i>Sisyrinchium iridifolium*</i>	AlbC
Juncaceae	<i>Juncus amabilis</i>	Hollow Rush		AlbC
Juncaceae	<i>Juncus bufonius</i>	Toad Rush		AlbC
Juncaceae	<i>Juncus holoschoenus</i>	Joint-leaf Rush		AlbC
Juncaceae	<i>Juncus kraussii subsp. australiensis</i>	Sea Rush		AlbC
Juncaceae	<i>Juncus planifolius</i>	Broad-leaf Rush		AlbC
Orchidaceae	<i>Caladenia tentaculata</i>	Mantis Orchid		OPT
Orchidaceae	<i>Caleana major</i>	Large Duck-orchid		OPT
Orchidaceae	<i>Microtis unifolia</i>	Common Onion-orchid		AlbC
Orchidaceae	<i>Prasophyllum australe</i>	Austral Leek-orchid		AlbC
Orchidaceae	<i>Pterostylis melagramma</i>	Tall Greenhood		OPT
Orchidaceae	<i>Thelymitra sp.</i>	Sun-orchid		AlbC OPT
Poaceae	<i>Aira sp.*</i>	Hair-grass		AlbC OPT
Poaceae	<i>Anthoxanthum odoratum*</i>	Sweet Vernal-grass		AlbC OPT
Poaceae	<i>Austrostipa mollis</i>	Soft Speargrass		OPT
Poaceae	<i>Austrostipa pubinodis</i>	Tall Speargrass	<i>Stipa pubinodis</i>	AlbC
Poaceae	<i>Austrostipa rudis</i>	Veined Spear-grass	<i>Stipa rudis</i>	AlbC
Poaceae	<i>Briza maxima*</i>	Large Quaking-grass		AlbC
Poaceae	<i>Briza minor*</i>	Shivery Grass		AlbC
Poaceae	<i>Bromus cartharticus*</i>	Prairie Grass		AlbC
Poaceae	<i>Dactylis glomerata*</i>	Cocksfoot		AlbC
Poaceae	<i>Distichlus distichophylla</i>	Australian Salt-grass		AlbC
Poaceae	<i>Ehrharta erecta*</i>	Panic Veldt Grass		AlbC OPT
Poaceae	<i>Ehrharta longiflora*</i>	Annual Veldt-grass		AlbC
Poaceae	<i>Holcus lanatus*</i>	Yorkshire Fog		AlbC
Poaceae	<i>Lachnagrostis filiformis</i>	Common Blown Grass		AlbC
Poaceae	<i>Lagurus ovatus*</i>	Hare's Tail Grass		OPT
Poaceae	<i>Lolium perenne*</i>	Perennial Rye-grass		AlbC
Poaceae	<i>Microleana stipoides</i>	Weeping Grass		AlbC
Poaceae	<i>Pentapogon quadrifidus</i>	Five-awned Spear-grass		AlbC
Poaceae	<i>Phalaris aquatica*</i>	Toowoomba Canary-grass		AlbC

Poaceae	<i>Phragmites australis</i>	Common Reed		AlbC
Poaceae	<i>Poa labillardieri</i>	Common Tussock-grass		AlbC
Poaceae	<i>Poa sieberiana</i>	Grey Tussock-grass		AlbC
Poaceae	<i>Rytidosperma caespitosum</i>	Common Wallaby-grass	<i>Austro/Danthonia caespitosa</i>	AlbC
Poaceae	<i>Rytidosperma geniculatum</i>	Kneel Wallaby-grass	<i>Austro/Danthonia geniculata</i>	OPT
Poaceae	<i>Rytidosperma setaceum</i>	Bristly Wallaby-grass	<i>Austro/Danthonia setacea</i>	AlbC OPT
Poaceae	<i>Stenotaphrum secundatum*</i>	Buffalo Grass		AlbC
Poaceae	<i>Themeda triandra</i>	Kangaroo Grass		AlbC
Poaceae	<i>Vulpia bromoides*</i>	Squirrel-tail Fescue		AlbC
Restionaceae	<i>Hypolaena fastigiata</i>	Tassel Rope-rush		OPT
Restionaceae	<i>Lepyrodia muelleri</i>	Common Scale-rush		AlbC

Dicotyledons

Acanthaceae	<i>Avicennia marina</i>	Grey Mangrove		AlbC
Apiaceae	<i>Apium prostratum</i>	Sea Celery		AlbC
Apiaceae	<i>Centella cordifolia</i>	Centella		AlbC
Asteraceae	<i>Allittia cardiocarpa</i>	Swamp Daisy		AlbC
Asteraceae	<i>Arctotheca calendula*</i>	Cape-weed		OPT
Asteraceae	<i>Cassinia aculeata</i>	Common Cassinia		OPT
Asteraceae	<i>Chrysanthemoides monilifera*</i>	Boneseed		OPT
Asteraceae	<i>Cotula coronopifolia*</i>	Water Buttons		AlbC
Asteraceae	<i>Craspedia variabilis</i>	Common Billy-buttons		AlbC
Asteraceae	<i>Euchiton sp.</i>	Cudweed		AlbC
Asteraceae	<i>Euchiton sphaericus</i>	Annual Cudweed		OPT
Asteraceae	<i>Hypochoeris radicata*</i>	Cat's-ear		AlbC OPT
Asteraceae	<i>Lagenophora stipitata</i>	Blue Bottle-daisy		OPT
Asteraceae	<i>Leptorhynchos tenuifolius</i>	Wiry Buttons		AlbC
Asteraceae	<i>Senecio glomeratus</i>	Annual Fireweed		AlbC OPT
Asteraceae	<i>Senecio hispidulus</i>	Rough Fireweed		AlbC OPT
Asteraceae	<i>Senecio minimus</i>	Shrubby Fireweed		OPT
Asteraceae	<i>Senecio phelleus</i>	Narrow Groundsel	<i>Senecio tenuiflorus</i>	OPT
Asteraceae	<i>Senecio quadridentatus</i>	Cotton Fireweed		AlbC

Asteraceae	<i>Sonchus asper*</i>	Prickly Sow Thistle		AlbC
Asteraceae	<i>Sonchus oleraceus*</i>	Sow Thistle		AlbC
Boraginaceae	<i>Myosotis arvensis*</i>	Common Forget-me-not		AlbC
Campanulaceae	<i>Wahlenbergia gracilis</i>	Sprawling Bluebell	<i>Wahlenbergia quadrifida</i>	AlbC OPT
Campanulaceae	<i>Wahlenbergia stricta</i>	Tall Bluebell		AlbC
Casuarinaceae	<i>Allocasuarina verticillata</i>	Drooping Sheoke	<i>Casuarina verticillata/stricta</i>	AlbC
Celastraceae	<i>Stackhousia monogyna</i>	Creamy Candles	<i>Stackhousiaceae</i>	OPT
Chenopodiaceae	<i>Atriplex cinerea</i>	Coast Saltbush		OPT
Chenopodiaceae	<i>Einadia nutans</i>	Nodding Saltbush		AlbC
Chenopodiaceae	<i>Rhagodia candolleana</i>	Seaberry Saltbush		AlbC OPT
Chenopodiaceae	<i>Salicornia quinqueflora</i>	Beaded Glasswort	<i>Sarcocornia</i>	AlbC
Chenopodiaceae	<i>Suaeda australis</i>	Austral Seablite		AlbC
Convolvulaceae	<i>Dichondra repens</i>	Kidney-weed		OPT
Dilleniaceae	<i>Hibbertia acicularis</i>	Prickly Guinea-flower		OPT
Droseraceae	<i>Drosera auriculata</i>	Tall Sundew	<i>Drosera peltata subsp. auriculata</i>	AlbC
Ericaceae	<i>Acrotriche serrulata</i>	Honey Pots		OPT
Ericaceae	<i>Epacris impressa</i>	Common Heath		OPT
Ericaceae	<i>Leucopogon australis</i>	Spike Beard-heath		AlbC
Ericaceae	<i>Monotoca elliptica</i>	Tree Broom-heath		OPT
Fabaceae	<i>Acacia longifolia</i>	Sallow Wattle		AlbC OPT
Fabaceae	<i>Acacia longifolia var. sophorae</i>	Coast Wattle	<i>Acacia sophorae</i>	AlbC OPT
Fabaceae	<i>Acacia mearnsii</i>	Black Wattle		AlbC
Fabaceae	<i>Acacia melanoxylon</i>	Blackwood		AlbC
Fabaceae	<i>Acacia suaveolens</i>	Sweet Wattle		OPT
Fabaceae	<i>Acacia verticillata subsp. verticillata</i>	Prickly Moses		OPT
Fabaceae	<i>Bossiaea cinerea</i>	Showy Bossiaea		OPT
Fabaceae	<i>Bossiaea prostrata</i>	Creeping Bossiaea		AlbC
Fabaceae	<i>Dillwynia glaberrima</i>	Smooth Parrot-pea		OPT
Fabaceae	<i>Glycine clandestina</i>	Twining Glycine		OPT
Fabaceae	<i>Lotus corniculatis*</i>	Bird's-foot Trefoil		AlbC
Fabaceae	<i>Lotus subbiflorus*</i>	Hairy Bird's-foot Trefoil	<i>Lotus suaveolens*</i>	AlbC
Fabaceae	<i>Ulex europaeus*</i>	Furze		AlbC
Fabaceae	<i>Viminaria juncea</i>	Golden Spray		AlbC
Geraniaceae	<i>Geranium sp.</i>	Geranium		AlbC

Goodeniaceae	<i>Dampiera stricta</i>	Blue Dampiera		OPT
Goodeniaceae	<i>Goodenia ovata</i>	Hop Goodenia		AlbC
Haloragaceae	<i>Gonocarpus tetragynus</i>	Common Raspwort	<i>Haloragis tetragyna</i>	AlbC OPT
Hypericaceae	<i>Hypericum gramineum</i>	Little St. John's Wort	Clusiaceae	AlbC
Lauraceae	<i>Cassytha glabella</i>	Slender Dodder- laurel		OPT
Linaceae	<i>Linum marginale</i>	Native Flax		AlbC
Loganiaceae	<i>Mitrasacme pilosa</i>	Hairy Mitrewort		OPT
Loranthaceae	<i>Amyema pendula</i>	Drooping Mistletoe		AlbC
Lythraceae	<i>Lythrum hyssopifolia</i>	Small Loosestrife		AlbC
Menyanthaceae	<i>Ornduffia reniformis</i>	Running Marsh- flower	<i>Villarsia</i>	AlbC
Myrtaceae	<i>Eucalyptus viminalis</i> <i>subsp. pryoriana</i>	Coast Manna Gum		OPT
Myrtaceae	<i>Leptospermum</i> <i>continentale</i>	Prickly Tea-tree	<i>Leptospermum juniperina</i>	AlbC OPT
Myrtaceae	<i>Leptospermum</i> <i>laevigatum</i>	Coast Tea-tree		AlbC
Myrtaceae	<i>Leptospermum</i> <i>myrsinoides</i>	Silky Tea-tree		OPT
Myrtaceae	<i>Melaleuca ericifolia</i>	Swamp Paperbark		AlbC OPT
Oxalidaceae	<i>Oxalis corniculata*</i>	Yellow Wood- sorrel		AlbC
Pittosporaceae	<i>Billardiera mutabilis</i>	Common Apple- berry		OPT
Pittosporaceae	<i>Bursaria spinosa</i>	Sweet Bursaria		AlbC
Pittosporaceae	<i>Pittosporum undulatum</i>	Sweet Pittosporum		OPT
Pittosporaceae	<i>Rhytidosporum</i> <i>procumbens</i>	White Marianth	<i>Marianthus procumbens</i>	AlbC OPT
Plantaginaceae	<i>Plantago coronopus*</i>	Buck's-horn Plantain		AlbC
Plantaginaceae	<i>Plantago lanceolata*</i>	Ribwort		AlbC
Plantaginaceae	<i>Veronica gracilis</i>	Slender Speedwell		AlbC
Polygalaceae	<i>Comesperma volubile</i>	Love Creeper		AlbC OPT
Polygonaceae	<i>Rumex sp*</i>	Dock		AlbC
Primulaceae	<i>Lysimachia arvensis*</i>	Pimpernel	<i>Anagallis arvensis*</i>	AlbC OPT
Proteaceae	<i>Banksia serrata</i>	Saw Banksia		OPT
Proteaceae	<i>Hakea decurrens subsp.</i> <i>physocarpa</i>	Silky Hakea	<i>Hakea sericea</i>	AlbC OPT
Rubiaceae	<i>Galium sp.</i>	Bedstraw		OPT
Rubiaceae	<i>Opercularia varia</i>	Variable Stinkweed		AlbC OPT
Rutaceae	<i>Correa reflexa</i>	Common Correa		OPT
Santalaceae	<i>Exocarpos</i> <i>cupressiformis</i>	Cherry Ballart		AlbC

Scrophulariaceae	<i>Myoporum insulare</i>	Common Boobialla	Myoporaceae	AlbC	OPT
Stylidiaceae	<i>Stylidium armeria</i>	Trigger-plant	<i>Stylidium graminifolium</i>	AlbC	OPT
Thymeliaceae	<i>Pimelea humilis</i>	Common Rice-flower		AlbC	
Violaceae	<i>Viola betonicifolia</i>	Showy Violet		AlbC	
Violaceae	<i>Viola hederacea</i>	Ivy-leaf Violet		AlbC	

*Introduced species

APPENDIX II – List of ferns observed at Uralla Nature Reserve, 12 February 2022

Family	Scientific name	Common name
Aspleniaceae	<i>Asplenium flabellifolium</i>	Necklace Fern
Blechnaceae	<i>Blechnum cartilagineum</i>	Gristle Water-fern
Blechnaceae	<i>Blechnum nudum</i>	Fishbone Water-fern
Blechnaceae	<i>Blechnum patersonii</i>	Strap Water-fern
Cyatheaceae	<i>Cyathea australis</i>	Rough Tree-fern
Dennstaedtiaceae	<i>Histiopteris incisa</i>	Bat's-wing Fern
Dennstaedtiaceae	<i>Hypolepis muelleri</i>	Harsh Ground-fern
Dennstaedtiaceae	<i>Hypolepis rugosula</i>	Ruddy Ground-fern
Dennstaedtiaceae	<i>Pteridium esculentum</i>	Austral Bracken
Dicksoniaceae	<i>Calochleana dubia</i>	Common Ground-fern
Dicksoniaceae	<i>Dicksonia antarctica</i>	Soft Tree-fern
Dryopteridaceae	<i>Lastreopsis acuminata</i>	Shiny Shield-fern
Dryopteridaceae	<i>Polystichum proliferum</i>	Mother Shield-fern
Hymenophyllaceae	<i>Hymenophyllum cupressiforme</i>	Common Filmy-fern
Pteridaceae	<i>Pellaea falcata</i>	Sickle Fern
Pteridaceae	<i>Pteris tremula</i>	Tender Brake

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