Plant Names Database: Quarterly changes

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This report is generated using an automated system and is therefore authored by the staff at the Allan Herbarium who currently contribute directly to the development and maintenance of the Plant Names Database. Authors are listed alphabetically after the third author. Authors have contributed as follows:

Leadership: Wilton, Schönberger, Breitwieser, Smissen

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Information System development: Wilton, De Pauw, Cochrane

Technical support: Boardman, Korver, Redmond, Tawiri

Disclaimer

The Plant Names Database is being updated every working day. We welcome suggestions for improvements, concerns, or any data errors you may find. Please email these to PlantInfo@landcareresearch.co.nz.

Introduction

The scientific names that are relevant to the New Zealand flora are constantly changing as we document new indigenous and exotic taxa in the flora, improve our understanding of the taxonomy and circumscription of taxa, and update information to be consistent with the International Code of Nomenclature and other standards. The purpose of this document is to provide an update of recent changes in the taxonomy and nomenclature for the New Zealand flora.

The Plant Names Database was established to record the scientific and vernacular names and taxonomy that are relevant to the New Zealand flora. It covers seed plants, ferns and lycophytes, mosses, liverworts, hornworts, and lichens that are indigenous or exotic to New Zealand. It primarily focuses on taxa that are present in the "wild" flora, but also includes information for taxa in other biostatus categories.

The staff at the Allan Herbarium update the information in the Plant Names Database, which is made available through the New Zealand Plants Website - http://nzflora.landcareresearch.co.nz, often with input and advice from botanists working in other organisations. This document summarises for the period stated below the changes in the Plant Names Database. The type of changes include:

- addition of new names
- formal merging and removal of duplicate names
- changes to the status of the name, as a preferred name or synonym for a taxon
- updates of the origin or occurrence (i.e. biostatus) of a taxon within New Zealand
- changes to the classification of a taxon
- updates of the scientific article that is being applied to a taxon to determine whether the name is a synonym or preferred name

All of these changes are logged when the data are regularly published to the New Zealand Plants website, and then automatically compiled into these reports at the end of each quarter without human intervention.

Structure of the document

The document is arranged in two parts. Part 1 provides a listing of scientific names by major taxonomic groups. Within these groups names are listed alphabetically by the type of change. Names in this section are listed in plain text and without authors.

In Part 2 the names are listed following the taxonomic classification. The type of changes are indicated by symbols following the name. Names are presented with author when available, and are correctly formatted. If a name is a synonym, the preferred name is listed on the next line.

In both parts preferred names are listed in bold.

Reporting period

This report covers the changes published between 1 December 2021 and 27 February 2022.

Notification Service

These changes are also available as a subscription service (ATOM) at the following web location:

http://nzflora.landcareresearch.co.nz/feed

Acknowledgements

The Plant Names Database is built on the contributions of a number of individuals, and continues to be maintained with significant contributions from people both within and outside of Landcare Research. In particular we would like to acknowledge the significant contributions of the following people who regularly recommend updates for the data within the Plant Names Database: Pat Brownsey (Te Papa Tongarewa Museum of New Zealand), Peter de Lange (Department of Conservation), David Galloway (Research Associate, Landcare Research), Leon Perrie (Te Papa Tongarewa Museum of New Zealand), Jeremy Rolfe (Department of Conservation), John Steele (University of Otago).

We would like to thank Christine Bezar and Margot Bowden for their advice while we were developing this report.

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Index of changes for Ascomycetes

Preferred Name change

Arthothelium obtusulum 9
Arthothelium pellucidum 9

Biostatus change

Arthothelium endoaurantiacum 9
Arthothelium suffusum 9

Taxonomy Article change

Arthothelium obtusulum 9
Arthothelium pellucidum 9
Lecanora broccha 9

Spelling change

Austromelanelixia subglabra 9
Cladonia humilis var. humilis 9
Pyrenula quassiicola 9
Verrucaria quassiicola 9

Index of changes for Bryatae

Index of changes for Hepaticae

Index of changes for Magnoliopsida

Additions

Arundina 11
Bifrenaria 11
Cattleya jongheana 12
Cymbidium lowianum 12
Dendrobium teretifolium 12
Dichondra argentea 13
Encyclia 12
Encyclia calamaria 12
Holcoglossum 12
Lomatia milnerae 13
Maxillaria acicularis 12
Paulownia catalpifolia 13
Sobralia 12
Sobralia macrantha 12
Vanda 12

Preferred Name change

Aristea major 11
Crocus pallasii subsp. dispathaceus 11
Crocus speciosus subsp. xantholaimos 11
Dendrobium teretifolium 12
Encyclia calamaria 12
Leptospermum 'Copper Sheen' 13
Maxillaria acicularis 12
Utricularia fibrosa 13

Biostatus change

Ajuga 13
Ajuga reptans 13
Bifrenaria 11
Bletilla 11
Bletilla striata 11
Calanthe 12
Camassia 11
Cattleya jongheana 12
Cymbidium lowianum 12
Dendrobium 12
Dendrobium kingianum 12
Dichondra 13
Epidendrum 12
Holcoglossum 12
Leptospermum grandiflorum 13
Odontoglossum 12
Oncidium 12
Osmanthus fragrans 13
Paphiopedilum 12
Paulownia 13
Phalaenopsis 12
Pleione 12
Sarcochilus 12
Sobralia macrantha 12
Sophora toromiro 12
Vanda 12

Taxonomy Article change

Egeria 11
Lavatera thuringiaca 13
Malva thuringiaca 13
Sophora toromiro 12

Spelling change

Arundina 11
Calanthe 12
Catha 12
Coelogyne mooreana 12
Cornus kousa 12
Crassula natans var. minor 13
Crocus speciosus subsp. xantholaimos 11
Dendrobium teretifolium 12
Dichondra argentea 13
Encyclia 12
Lomatia milnerae 13
Paphiopedilum 12
Paulownia catalpifolia 13
Phalaenopsis 12
Pleione 12
Pyrenaria spectabilis 12
Sobralia 12
Sobralia macrantha 12

Index of changes for Polypodiopsida

Biostatus change

Adiantum capillus-veneris 14
Adiantum raddianum 14

Taxonomy Article change

Athyrium 13
Athyrium australe 14
Diplazium 14
Diplazium australe 14

Hierarchical checklist of changes

The following symbols are used to indicate changes to the data.

Ⓐ: addition; ⊖: the removal or merging of scientific names; Ⓢ: a change to the spelling of the name; Ⓞ: a change in the origin information; Ⓟ: a change in th presence (occurrence) information; Ⓣ: a change in the taxonomic article; ⊜: a change to the preferred name; Ⓒ: a change to the classification (direct parent)

Ascomycetes
- Arthoniales
  - ***Arthothelium endoaurantiacum* Makhija & Patw.** Ⓞ
    Origin: Non-endemic; Occurrence: Wild
  - *Arthothelium obtusulum* (Nyl.) Müll.Arg. ⊜ Ⓣ
    = *Arthothelium ampliatum* (C.Knight & Mitt.) Müll.Arg.
    Kantvilas, G. 2021: A synopsis of the genus *Arthothelium* (Arthoniales) in Tasmania. *The Lichenologist 53(6)*: 415-431.
  - *Arthothelium pellucidum* (C.Knight) Müll.Arg. ⊜ Ⓣ
    = *Arthothelium ampliatum* (C.Knight & Mitt.) Müll.Arg.
    Kantvilas, G. 2021: A synopsis of the genus *Arthothelium* (Arthoniales) in Tasmania. *The Lichenologist 53(6)*: 415-431.
  - ***Arthothelium suffusum* (C.Knight) Müll.Arg.** Ⓞ
    Origin: Non-endemic; Occurrence: Wild
- Lecanorales
  - Cladoniaceae
    - ***Cladonia humilis* (With.) J.R.Laundon var. *humilis*** Ⓢ
      Origin: Non-endemic; Occurrence: Wild
  - Lecanoraceae
    - *Lecanora broccha* Nyl. Ⓣ
      = *Lecanora epibryon* subsp. *broccha* (Nyl.) Lumbsch
      Galloway, D.J. 2007: *Flora of New Zealand; Lichens, including lichen-forming and lichenicolous fungi. Revised second edition.*1 ed. Lincoln, Manaaki Whenua Press. 1006 p.
  - Parmeliaceae
    - ***Austromelanelixia subglabra* (Räsänen) Divakar, Crespo & Lumbsch** Ⓢ
      Origin: Non-endemic; Occurrence: Wild
- Pyrenulales
  - Pyrenulaceae
    - ***Pyrenula quassiicola* (Fée) Fée** Ⓢ
      Origin: Non-endemic; Occurrence: Wild
- Verrucariales
  - Verrucariaceae
    - *Verrucaria quassiicola* Fée Ⓢ
      = *Pyrenula quassiicola* (Fée) Fée

Bryopsida
- Dicranales
  - Fissidentaceae
    - ***Fissidens curvatus* Hornsch. var. *curvatus*** Ⓞ
      Origin: Exotic; Occurrence: Wild
- Hypnales
  - Hypnaceae
    - ***Austrohondaella limata* (Hook.f. & Wilson) Z.Iwats., H.P.Ramsay & Fife** Ⓣ
      Origin: Non-endemic; Occurrence: Wild
      Iwatsuki, Z.; Ramsay, H.P.; Fife, A.J. 2009: A new genus *Austrohondaella* (Bryopsida, Hypnaceae) from Australasia. *Telopea 12(3)*: 361-369.
    - *Hypnum arbuscula* (Sm.) Hook.f. Ⓢ
      = *Camptochaete arbuscula* (Sm.) Reichardt
    - *Hypnum limatum* Hook.f. & Wilson Ⓣ
      = *Austrohondaella limata* (Hook.f. & Wilson) Z.Iwats., H.P.Ramsay & Fife
      Iwatsuki, Z.; Ramsay, H.P.; Fife, A.J. 2009: A new genus *Austrohondaella* (Bryopsida, Hypnaceae) from Australasia. *Telopea 12(3)*: 361-369.
    - *Hypnum sparsum* Hook.f. & Wilson Ⓣ
      = *Thuidiopsis sparsa* (Hook.f. & Wilson) Broth.

Touw, A. 2001: A taxonomic revision of the Thuidiaceae (Musci) of tropical Asia, the western Pacific and Hawaii. *Journal of the Hattori Botanical Laboratory 91*: 1-136.

Hypnum terraenovae var. *australe* Hook.f. & Wilson Ⓣ

= *Austrohondaella limata* (Hook.f. & Wilson) Z.Iwats., H.P.Ramsay & Fife

Iwatsuki, Z.; Ramsay, H.P.; Fife, A.J. 2009: A new genus *Austrohondaella* (Bryopsida, Hypnaceae) from Australasia. *Telopea 12(3)*: 361-369.

***Isopterygiopsis pulchella* (Hedw.) Z.Iwats.** Ⓣ

Origin: Non-endemic; Occurrence: Wild

Iwatsuki, Z. 1987: Notes on *Isopterygium* Mitt (Plagiotheciaceae). *Journal of the Hattori Botanical Laboratory 63*: 445-451.

***Pseudotaxiphyllum distichaceum* (Mitt.) Z.Iwats.** Ⓣ

Origin: Non-endemic; Occurrence: Wild

Iwatsuki, Z. 1987: Notes on *Isopterygium* Mitt (Plagiotheciaceae). *Journal of the Hattori Botanical Laboratory 63*: 445-451.

Stereodon distichaceus Mitt. Ⓣ

= *Pseudotaxiphyllum distichaceum* (Mitt.) Z.Iwats.

Iwatsuki, Z. 1987: Notes on *Isopterygium* Mitt (Plagiotheciaceae). *Journal of the Hattori Botanical Laboratory 63*: 445-451.

Leskeaceae

Leskea pulchella Hedw. Ⓣ

= *Isopterygiopsis pulchella* (Hedw.) Z.Iwats.

Iwatsuki, Z. 1987: Notes on *Isopterygium* Mitt (Plagiotheciaceae). *Journal of the Hattori Botanical Laboratory 63*: 445-451.

Pylaisiadelphaceae

Isopterygium distichaceum (Mitt.) A.Jaeger & Sauerb. Ⓣ

= *Pseudotaxiphyllum distichaceum* (Mitt.) Z.Iwats.

Iwatsuki, Z. 1987: Notes on *Isopterygium* Mitt (Plagiotheciaceae). *Journal of the Hattori Botanical Laboratory 63*: 445-451.

Isopterygium limatum (Hook.f. & Wilson) Broth. Ⓣ

= *Austrohondaella limata* (Hook.f. & Wilson) Z.Iwats., H.P.Ramsay & Fife

Iwatsuki, Z.; Ramsay, H.P.; Fife, A.J. 2009: A new genus *Austrohondaella* (Bryopsida, Hypnaceae) from Australasia. *Telopea 12(3)*: 361-369.

Isopterygium pulchellum (Hedw.) A.Jaeger Ⓣ

= *Isopterygiopsis pulchella* (Hedw.) Z.Iwats.

Iwatsuki, Z. 1987: Notes on *Isopterygium* Mitt (Plagiotheciaceae). *Journal of the Hattori Botanical Laboratory 63*: 445-451.

Thuidiaceae

Thuidiopsis furfurosa var. *sparsa* (Hook.f. & Wilson) Wijk & Margad. Ⓣ

= *Thuidiopsis sparsa* (Hook.f. & Wilson) Broth.

Touw, A. 2001: A taxonomic revision of the Thuidiaceae (Musci) of tropical Asia, the western Pacific and Hawaii. *Journal of the Hattori Botanical Laboratory 91*: 1-136.

***Thuidiopsis sparsa* (Hook.f. & Wilson) Broth.** Ⓣ

Origin: Non-endemic; Occurrence: Wild

Touw, A. 2001: A taxonomic revision of the Thuidiaceae (Musci) of tropical Asia, the western Pacific and Hawaii. *Journal of the Hattori Botanical Laboratory 91*: 1-136.

Thuidium furfurosum var. *sparsum* (Hook.f. & Wilson) Sainsbury Ⓣ

= *Thuidiopsis sparsa* (Hook.f. & Wilson) Broth.

Touw, A. 2001: A taxonomic revision of the Thuidiaceae (Musci) of tropical Asia, the western Pacific and Hawaii. *Journal of the Hattori Botanical Laboratory 91*: 1-136.

Thuidium sparsum (Hook.f. & Wilson) Reichardt Ⓣ

= *Thuidiopsis sparsa* (Hook.f. & Wilson) Broth.

Touw, A. 2001: A taxonomic revision of the Thuidiaceae (Musci) of tropical Asia, the western Pacific and Hawaii. *Journal of the Hattori Botanical Laboratory 91*: 1-136.

Hypnodendrales

Hypnodendraceae

***Hypnodendron arcuatum* (Hedw.) Mitt.** ◎

Origin: Non-endemic; Occurrence: Wild

Pottiales

Pottiaceae

***Leptodontium interruptum* (Mitt.) Broth.** ◎

Origin: Non-endemic; Occurrence: Wild

***Trichostomopsis australasiae* (Hook. & Grev.) H.Rob.** Ⓣ

Origin: Non-endemic; Occurrence: Wild

Jiménez, J.A.; Cano, M.J.; Guerra, J. 2021: A multilocus phylogeny of the moss genus *Didymodon* and allied genera (Pottiaceae): Generic delimitations and their implications for systematics. *Journal of Systematics and Evolution 00(March 2021)*: 1-24.

Jungermanniopsida
- Fossombroniales
  - Petalophyllaceae
    - *Petalophyllum australe* Colenso ⊖ Ⓣ
      - **= *unknown***
    - ***Petalophyllum hodgsoniae* Crand.-Stotl. & C.H.Ford** Ⓣ
      Origin: Endemic; Occurrence: Wild
      Crandall-Stotler, B.J.; Stotler, R.E.; Ford, C.H. 2002: Contributions toward a monograph of *Petalophyllum* (Marchantiophyta). *Novon 12(3)*: 334-337.
- Jungermanniales
  - Plagiochilaceae
    - ***Plagiochila bazzanioides* J.J.Engel & G.L.Merr.** ◎
      Origin: Endemic; Occurrence: Wild
  - Pseudolepicoleaceae
    - ***Castanoclobos julaceus* (J.J.Engel) J.J.Engel & Glenny** ◎
      Origin: Non-endemic; Occurrence: Wild
- Metzgeriales
  - Aneuraceae
    - ***Riccardia cochleata* (Hook.f. & Taylor) Kuntze** ◎
      Origin: Indigenous; Occurrence: Wild
- Porellales
  - Frullaniaceae
    - ***Frullania pycnantha* (Hook.f. & Taylor) Gottsche, Lindenb. & Nees** ◎
      Origin: Non-endemic; Occurrence: Wild
    - ***Frullania scandens* Mont.** ◎
      Origin: Non-endemic; Occurrence: Wild
  - Lejeuneaceae
    - ***Colura pulcherrima* var. *bartlettii* Jovet-Ast** ◎
      Origin: Non-endemic; Occurrence: Wild
    - ***Colura saccophylla* E.A.Hodgs. & Herzog** ◎
      Origin: Non-endemic; Occurrence: Wild
  - Radulaceae
    - ***Verdoornia* R.M.Schust.** ◎
      Origin: Non-endemic; Occurrence: Wild

Magnoliopsida
- Alismatales
  - Hydrocharitaceae
    - ***Egeria* Planch.** Ⓣ
      Origin: Exotic; Occurrence: Wild
      Mabberley, D.J. 2017: *Mabberley's plant book, a portable dictionary of plants, their classification and uses.* Cambridge University Press. 1102 p.
- Asparagales
  - Asparagaceae
    - ***Camassia* Lindl.** ◎Ⓟ
      Origin: Exotic; Occurrence: Present in captivity/cultivation/culture
  - Iridaceae
    - *Aristea major* Andrews ⊖
      - **= *Aristea capitata* (L.) Ker Gawl.**
    - *Crocus pallasii* subsp. *dispathaceus* (Bowles) B.Mathew ⊖
      - **= *Crocus dispathaceus* Bowles**
    - *Crocus speciosus* subsp. *xantholaimos* B.Mathew Ⓢ⊖
      - **= *Crocus xantholaimos* (B.Mathew) Rukšāns**
  - Orchidaceae
    - ***Arundina* Blume** ⒶⓈ
      Origin: Exotic; Occurrence: Present in captivity/cultivation/culture
    - ***Bifrenaria* Lindl.** ⒶⓄⓅ
      Origin: Exotic; Occurrence: Present in captivity/cultivation/culture
    - ***Bletilla* Rchb.f.** Ⓟ
      Origin: Exotic; Occurrence: Present in captivity/cultivation/culture
    - ***Bletilla striata* (Thunb.) Rchb.f.** Ⓟ
      Origin: Exotic; Occurrence: Present in captivity/cultivation/culture

***Calanthe* R.Br.** ⓄⓅⓈ
Origin: Exotic; Occurrence: Present in captivity/cultivation/culture
***Cattleya jongheana* (Rchb.f.) Van den Berg** ⒶⓄⓅ
Origin: Exotic; Occurrence: Present in captivity/cultivation/culture
***Coelogyne mooreana* Rolfe** Ⓢ
Origin: Exotic; Occurrence: Present in captivity/cultivation/culture
***Cymbidium lowianum* Rchb.f.** ⒶⓄⓅ
Origin: Exotic; Occurrence: Present in captivity/cultivation/culture
***Dendrobium* Sw.** ⓄⓅ
Origin: Exotic; Occurrence: Present in captivity/cultivation/culture
***Dendrobium kingianum* Bidwill ex Lindl.** Ⓟ
Origin: Exotic; Occurrence: Present in captivity/cultivation/culture
Dendrobium teretifolium R.Br. ⒶⓈ⊖
= *Dockrillia teretifolia* (R.Br.) Brieger
***Encyclia* Hook.** ⒶⓈ
Origin: Exotic; Occurrence: Present in captivity/cultivation/culture
Encyclia calamaria (Lindl.) Pabst Ⓐ⊖
= *Prosthechea calamaria* (Lindl.) W.E.Higgins
***Epidendrum* L.** Ⓟ
Origin: Exotic; Occurrence: Present in captivity/cultivation/culture
***Holcoglossum* Schltr.** ⒶⓄⓅ
Origin: Exotic; Occurrence: Present in captivity/cultivation/culture
Maxillaria acicularis Herb. ex Lindl. Ⓐ⊖
= *Maxillaria subulata* Lindl.
Odontoglossum Ⓟ
Occurrence: Absent
***Oncidium* Sw.** ⓄⓅ
Origin: Exotic; Occurrence: Present in captivity/cultivation/culture
***Paphiopedilum* Pfitzer** ⓄⓅⓈ
Origin: Exotic; Occurrence: Present in captivity/cultivation/culture
***Phalaenopsis* Blume** ⓄⓅⓈ
Origin: Exotic; Occurrence: Present in captivity/cultivation/culture
***Pleione* D.Don** ⓄⓅⓈ
Origin: Exotic; Occurrence: Present in captivity/cultivation/culture
***Sarcochilus* R.Br.** ⓄⓅ
Origin: Exotic; Occurrence: Present in captivity/cultivation/culture
***Sobralia* Ruiz & Pav.** ⒶⓈ
Origin: Exotic; Occurrence: Present in captivity/cultivation/culture
***Sobralia macrantha* Lindl.** ⒶⓄⓅⓈ
Origin: Exotic; Occurrence: Present in captivity/cultivation/culture
Vanda ⒶⓄⓅ
Origin: Exotic; Occurrence: Present in captivity/cultivation/culture

Celastrales

Celastraceae

***Catha* Forssk. ex Scop.** Ⓢ
Origin: Exotic; Occurrence: Present in captivity/cultivation/culture

Cornales

Cornaceae

***Cornus kousa* Bürger ex Hance** Ⓢ
Origin: Exotic; Occurrence: Present in captivity/cultivation/culture

Ericales

Theaceae

***Pyrenaria spectabilis* (Champ. ex Benth.) C.Y.Wu & S.X.Yang** Ⓢ
Origin: Exotic; Occurrence: Present in captivity/cultivation/culture

Fabales

Leguminosae

***Sophora toromiro* Skottsb.** ⓅⓉ
Origin: Exotic; Occurrence: Absent
Heenan, P.B.; Mitchell, C.M.; Shepherd, L.D.; Houlistin, G.J. 2021: Microsatellite characterisation of the extinct *Sophora toromiro* (Fabaceae) and confirmation of the identities of Allan Herbarium specimens and the fabled Christchurch 'Victoria Park toromiro'. *New Zealand Journal of Botany*: 1-16 (online) https://doi.org/10.1080/0028825X.2021.2007957.

Lamiales
Labiatae
***Ajuga* L.** Ⓟ
Origin: Exotic; Occurrence: Present in captivity/cultivation/culture
***Ajuga reptans* L.** Ⓟ
Origin: Exotic; Occurrence: Present in captivity/cultivation/culture
Lentibulariaceae
Utricularia fibrosa Walter ⊖
= *Utricularia gibba* L.
Oleaceae
***Osmanthus fragrans* Lour.** Ⓟ
Origin: Exotic; Occurrence: Sometimes present
Paulowniaceae
***Paulownia* Siebold & Zucc.** Ⓟ
Origin: Exotic; Occurrence: Present in captivity/cultivation/culture
***Paulownia catalpifolia* T.Gong ex D.Y.Hong** ⒶⓈ
Origin: Exotic; Occurrence: Uncertain
Malvales
Malvaceae
Lavatera thuringiaca L. Ⓣ
= *Malva thuringiaca* (L.) Vis.
Escobar, P.; Schönswetter, P.; Fuertes Aguilar, J.; Nieto Feliner, G.; Schneeweiss, G.M. 2009: Five molecular markers reveal extensive morphological homoplasy and reticulate evolution in the *Malva* alliance (Malvaceae). *Molecular Phylogenetics and Evolution 50*: 226-239.
***Malva thuringiaca* (L.) Vis.** Ⓣ
Origin: Exotic; Occurrence: Present in captivity/cultivation/culture
Escobar, P.; Schönswetter, P.; Fuertes Aguilar, J.; Nieto Feliner, G.; Schneeweiss, G.M. 2009: Five molecular markers reveal extensive morphological homoplasy and reticulate evolution in the *Malva* alliance (Malvaceae). *Molecular Phylogenetics and Evolution 50*: 226-239.
Myrtales
Myrtaceae
Leptospermum 'Copper Sheen' ⊖
= *Leptospermum morrisonii* 'Copper Sheen'
***Leptospermum grandiflorum* G.Lodd.** Ⓟ
Origin: Exotic; Occurrence: Present in captivity/cultivation/culture
Proteales
Proteaceae
***Lomatia milnerae* Olde** ⒶⓈ
Origin: Uncertain; Occurrence: Uncertain
Saxifragales
Crassulaceae
***Crassula natans* var. *minor* (Eckl. & Zeyh.) G.D.Rowley** Ⓢ
Origin: Exotic; Occurrence: Wild
Solanales
Convolvulaceae
***Dichondra* J.R.Forst. & G.Forst.** ⓄⓅ
Origin: Exotic; Occurrence: Present in captivity/cultivation/culture
***Dichondra argentea* Willd.** ⒶⓈ
Origin: Exotic; Occurrence: Present in captivity/cultivation/culture
Pinopsida
Pinales
Araucariaceae
***Agathis lanceolata* Warb.** Ⓢ
Origin: Exotic; Occurrence: Present in captivity/cultivation/culture
Cupressaceae
***Thuja plicata* Donn ex D.Don** Ⓟ
Origin: Exotic; Occurrence: Sometimes present
Polypodiopsida
Polypodiales
Athyriaceae
***Athyrium* Roth** Ⓣ
Origin: Exotic; Occurrence: Wild

Brownsey, P.J.; Perrie, L.R.2018: Athyriaceae. *In* : *Flora of New Zealand — Ferns and Lycophytes;*

Athyrium australe (R.Br.) C.Presl Ⓣ

= *Diplazium australe* (R.Br.) N.A.Wakef.

Brownsey, P.J.; Perrie, L.R.2018: Athyriaceae. *In* : *Flora of New Zealand — Ferns and Lycophytes;*

***Diplazium* Sw.** Ⓣ

Origin: Non-endemic; Occurrence: Wild

Brownsey, P.J.; Perrie, L.R.2018: Athyriaceae. *In* : *Flora of New Zealand — Ferns and Lycophytes;*

***Diplazium australe* (R.Br.) N.A.Wakef.** Ⓣ

Origin: Non-endemic; Occurrence: Wild

Brownsey, P.J.; Perrie, L.R.2018: Athyriaceae. *In* : *Flora of New Zealand — Ferns and Lycophytes;*

Pteridaceae

***Adiantum capillus-veneris* L.** Ⓟ

Origin: Exotic; Occurrence: Present in captivity/cultivation/culture

***Adiantum raddianum* C.Presl** Ⓟ

Origin: Exotic; Occurrence: Present in captivity/cultivation/culture


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