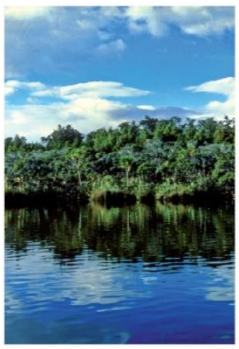

A vegetation tool for wetland delineation in New Zealand

Landcare Research
Manaaki Whenua

A vegetation tool for wetland delineation in New Zealand

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doi:10.7931/J2TD9V77

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December 2013

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Landcare Research Contract Report:	LC1793

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Contents

Summary

Project and Client

- Meridian Energy contracted Landcare Research to provide a vegetation-based tool to assist in the identification and delineation of wetlands in New Zealand.
- The USA has developed a robust wetland delineation system for regulatory purposes comprising three criteria: vegetation, soils, and hydrology. This project trials and adapts the USA vegetation criterion to New Zealand wetland ecosystems.

Objectives

- Develop a vegetation-based tool to delineate wetlands in New Zealand based on the USA wetland delineation approach.

Methods

- Classify New Zealand wetland species according to fidelity to wetland (wetland indicator status rating): obligate wetland (OBL: occurs almost always in wetlands), facultative wetland (FACW: occurs usually in wetlands), facultative (FAC: equally likely in wetlands or non-wetlands), facultative upland (FACU: usually in non-wetlands) or obligate upland (UPL: almost always in non-wetlands).
- Integrate species abundance and wetland indicator status ratings to set decision rules in relation to meeting the hydrophytic vegetation (wetland) threshold at a site.

Results

- A species list was produced comprising the wetland indicator status ratings of more than 900 native and exotic species found in New Zealand wetlands.
- Protocols and field sheets for assessing New Zealand vegetation at putative wetland sites were adapted from the USA wetland delineation system.

Conclusions

- The vegetation criterion is a useful tool for delineating wetlands at most sites. Caution should be exercised, however, for delineation of sites where vegetation cover is sparse (e.g. mudflat), where plant communities have been disturbed (e.g. sites destroyed by fire), or where there are strong elements of FAC species (e.g. pakihi, gumland). In these cases, additional assessments of soils and hydrology may be required.

Recommendations

- The vegetation criterion approach should be expanded to incorporate all three USA environmental criteria – vegetation, soils, and hydrology – to provide a standardised wetland delineation system for the full range of wetlands in New Zealand.

1 Introduction

The Resource Management Act defines wetlands as including *"permanently or intermittently wet areas, shallow water, and land water margins that support a natural ecosystem of plants and animals that are adapted to wet conditions"*. This broad definition has proved difficult to apply consistently in the field. The inability to define precisely whether a site fits this definition of a wetland or where the boundary of a wetland starts and finishes has led to confusion by regulatory authorities, landowners, and the public alike. Having a national assessment tool to delineate wetlands will provide greater certainty for stakeholders, plans and policies, resource consents, council hearings, and in the Environment Court.

Meridian Energy contracted Landcare Research to provide the first step in developing a wetland delineation system to help define wetlands on the ground. This project aims to provide a vegetation-based tool to assist councils, wetland landowners, managers and other stakeholders in identifying and delineating wetland areas.

2 Background

The United States of America has developed a scientifically robust wetland delineation system that is applied widely and could be adapted for New Zealand wetlands. In USA three diagnostic environmental characteristics or criteria are used for wetland delineation: vegetation, soils and hydrology. Under USA legislation (section 404 Clean Water Act and regulations promulgated therefrom), all three criteria are required to classify a site as a wetland.

However, several organisations in USA use two out of the three, or even one out of the three criteria to delineate wetlands. For example, the federal agency, U.S. Fish and Wildlife Service defines wetlands as: "*lands that are transitional between terrestrial and aquatic systems where the water table is usually at or near the surface or the land is covered by shallow water, and that have one or more of the following attributes:*

1. *At least periodically, the land supports predominantly hydrophytes;*
2. *the substrate is predominantly undrained hydric soil; and,*
3. *the substrate is non-soil and is saturated with water or covered by shallow water at some time during the growing season of each year*" (Cowardin et al. 1979).

In New Zealand, the use of simple guidelines and criteria for wetland delineation, similar to those used in the USA, would be extremely useful.

Apart from a few habitats acknowledged as wetlands where vegetation is sparse or absent (e.g. some ephemeral habitats, mudflats) or where the vegetation has been severely disturbed (e.g. after a fire or in cut-over peat bogs), an important first step for delineating New Zealand wetlands would be categorisation of wetland plant species according to their fidelity to wetland.

Hydrophytes (aquatic and wetland plants) are defined as plants capable of growing in soils that are often or constantly saturated with water during the growing season (Lewis 2001). The hydrophyte categories (Lichvar 2012) are obligate wetland (OBL: occurs almost always in wetlands), facultative wetland (FACW: occurs usually in wetlands), facultative (FAC: equally likely to occur in wetlands or non-wetlands), or facultative upland (FACU: usually occurs in non wetlands/ drylands; here 'upland' does not refer to elevation). Obligate upland species (UPL) are not hydrophytes because they almost always occur in non-wetlands, e.g. well-drained sites. These categories are known as wetland indicator status ratings.

The next step would involve setting some decision rules regarding species abundance in relation to meeting the wetland threshold. For example in USA, if more than 50% of the dominant species in a plant community are OBL, FACW or FAC the site is considered to have hydrophytic vegetation characteristic of a wetland (Environmental Laboratory 1987).

This project trials the latest approach, which incorporates updates (e.g. USACE 2008 and 2010) to the US Army Corps of Engineers system outlined in the 1987 manual, courtesy of the Wetland Training Institute training course, San Diego, 2012, attended by the author http://www.wetlandtraining.com/course/category.php?id=9

Other environmental criteria (i.e. soils, hydrology) would be needed to assess sites that are naturally depauperate in species (e.g., mudflat), where natural plant communities have been disturbed (e.g. cut-over peat bogs, sites destroyed by fire or natural disaster), or where there is a mixed group of dominants with strong elements of FAC species (e.g. pakihi and gumland).

3 Objectives

To develop a national assessment vegetation tool to delineate wetlands based on plant species presence, abundance, and wetland indicator status ratings by:

- compiling a list of native and non-native plant species that occur in New Zealand wetlands
- classifying the species according to the degree of affinity for wet habitats (wetland indicator status rating): obligate wetland (OBL), facultative wetland (FACW), facultative (FAC), facultative upland (FACU) or obligate upland (UPL)
- integrating species abundance and wetland indicator species ratings to set decision rules in relation to meeting the wetland threshold for delineation of wetlands and testing the USA approach for hydrophytic vegetation in NZ wetlands

4 Methods

A list of native and non-native plant species that occur in New Zealand wetlands was compiled based on Johnson and Brooke (1998) and additional sources. This was sent to a team of wetland plant ecologists (listed below) to classify the species according to their typical wetland habitat following the USA system (Environmental Laboratory 1987; Reed 1988; Lichvar 2012):

- OBL: Obligate. Almost always is a hydrophyte, rarely in uplands (estimated probability >99% occurrence in wetlands)
- FACW: Facultative Wetland. Usually is a hydrophyte but occasionally found in uplands (estimated probability 67–99% occurrence in wetlands)
- FAC: Facultative. Commonly occurs as either a hydrophyte or non-hydrophyte (estimated probability 34–66% occurrence in wetlands)
- FACU: Facultative Upland. Occasionally is a hydrophyte but usually occurs in uplands (estimated probability 1–33% occurrence in wetlands)
- UPL: Obligate Upland. Rarely is a hydrophyte, almost always in uplands (estimated probability <1% occurrence in wetlands)

The lists were collated and analysed for consensus of classifications. Where consensus was not reached, the classifications were assessed at a workshop held on 17 September 2012, at Landcare Research, Hamilton, to produce a national list of wetland indicator status ratings. Workshop participants were: Kerry Bodmin NIWA, Paul Champion NIWA, Bev Clarkson Landcare Research, Philippe Gerbeaux DOC, Peter Johnson (Research Associate, Landcare Research), Brian Rance DOC, Paula Reeves Wildlands Consultants, Lisa Forrester Northland Regional Council, Lucy Bridgeman Landcare Research (scribe), and Dave Palmer Landcare Research (Soils).

The USA methods for determining if vegetation in a plant community is hydrophytic, i.e. the Dominance Test or Ratio or (DT or DR: based on wetland affinity of dominant species) and the Prevalence Index (PI: weighted average that reflects wetland affinity of full species complement) were trialled by workshop participants in plots along a wetland-upland gradient from lake edge to pasture at Lake Serpentine (Fig. 1), south of Hamilton. This incorporates species abundance measures with the wetland indicator status ratings of the species present within plots.

Figure 1 Lake Serpentine plot locations (pink) along wet-dry gradient for testing for hydrophytic vegetation.

5 Results

5.1 Plant Classification

A checklist of 979 vascular species classified according to their wetland indicator satus ratings was developed according to typical habitat (Appendix 9). This will be periodically updated, similar to the process with the USA national and regional lists, as information becomes available.

The list can be referenced as: Clarkson BR, Champion PD, Rance BD, Johnson PN, Bodmin KA, Forester L, Gerbeaux P, Reeves PN 2013. Wetland indicator status ratings for New Zealand species. Landcare Research, Hamilton http://www.landcareresearch.co.nz/__data/assets/pdf_file/0014/64400/wetland_rating_species_December_2013.pdf.

5.2 Vegetation Assessment protocol

The wetland delineation protocol follows the USA Wetland Training Institute (WTI) lecture notes (Wetland Training Institute 2012), which is based on the Corps of Engineers manual (Environmental Laboratory 1987) and Regional Supplements[1].

Sampling protocol

The Routine Method for wetland delineation is as follows:

1. Determine project area
2. Decide whether 'normal' circumstances are present. The Routine Methed should not be applied for atypical situations, e.g. abnormal environmental conditions (drought, flood) or recent disturbances (landslides), or wetlands that have been filled, drained or cleared. In these situations use the Comprehensive Method as outlined in the 1987 Corps manual.
3. Identify and map the major vegetation types in the project area.
4. For areas ≤ 2 ha, establish a representative plot in each major vegetation type (Fig. 2).
5. For areas > 2 ha, establish representative plots along transects running perpendicular to the suspected wetland boundary (Fig. 3). At least one plot for each vegetation type should be sampled and therefore located on at least one transect. The suggested minimum number of transects ranges from 3 for wetlands up to 1.5 km in length, to 8+ in wetlands longer than 6.5 km long (Wetland Training Institute 2012).

[1] The WTI course held at San Diego, CA, and taught by Charlie Newling and Jim Teaford, was attended by the author on 6–10 August 2012.

6. Sample the plot using the Dominance Test and Prevalence Index (see below).

7. Refine the wetland boundary on the ground, by using visual clues such as changes in topography (e.g. flat – hillslope interface), vegetation or soils, and/or establish paired sample plots (wetland/upland) located close enough to either side of the wetland boundary to substantiate boundary location.

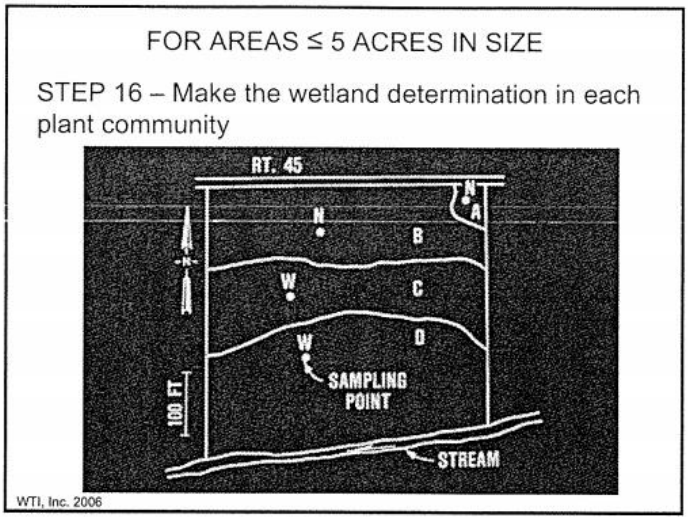

Figure 2 Wetland determination in areas ≤ 2 ha. A,B,C,D = vegetation types; W = wetland, N= non-wetland. From: Wetland Training Institute (2012).

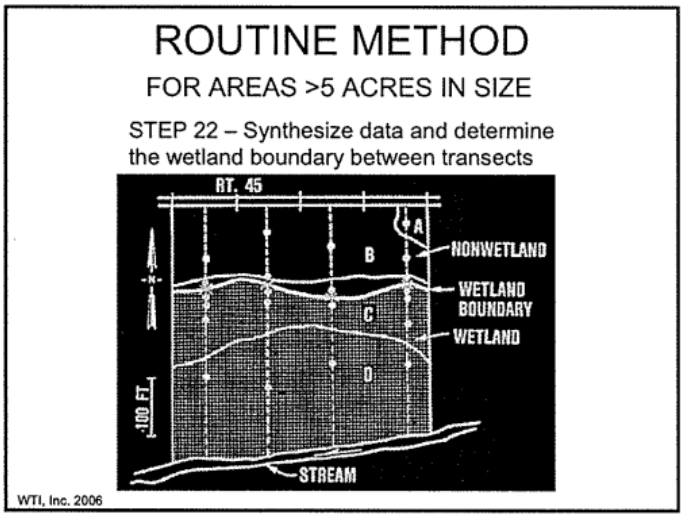

Figure 3 Wetland determination in areas > 2 ha. A,B,C,D = vegetation types. From: Wetland Training Institute (2012).

Vegetation Sampling

There are several sampling protocols with slightly different approaches for different biogeographic regions in USA.The following approach, which was tested at Lake Serpentine, is adapted from a WTI course and lecture notes presented in San Diego, August 2012 (Wetland Training Institute 2012).

Table 1. Summary of plot strata

Stratum	Description	Plot size	Notes
Tree	Woody plant with dbh ≥ 10 cm	Circular plot 10 m radius	
Sapling/Shrub	Woody plant with dbh < 10 cm	Circular plot 5 m radius	All woody plants regardless of height. Includes woody climbers, blackberry
Herb	All non-woody plants	2m × 2m quadrat	All herbaceous plants regardless of height. Includes herbaceous climbers

Establish a representative plot of 2 m × 2 m for the Herb stratum. The circular plots are anchored at the centre of the 2 m × 2 m quadrat using a 5-m or 10-m tape measure or length of rope; the other end circumscribes the plot. The sample plot must be located within the same plant community. Note that the shapes of the plots listed in Table 1 (circle, square) are used if convenient in the field. If the sample plot extends into a different plant community, the shape of the plot must be altered to ensure it remains in a single plant community (CJ Newling, Wetland Training Institute, Briggsville, WI, USA, pers. comm., January 2014)

Do not record epiphytes if not growing on wetland substrate. Note their presence in the Remarks section.

Plot sampling procedure

Using the NZ Wetland Delineation Data Form (Appendix 1) for each vegetation stratum:

1. Estimate % cover for each species. This is the vertical projection (natural spread) of the above-ground live biomass for each species measured as % cover of the total area of the plot within a vegetation stratum, irrespective of position of other vegetation. Individual species cover cannot be more than 100% but total vegetation cover can be >100% within a stratum.

2. Add individual %'s to give Total Cover

3. Assign wetland indicator status ratings for each species from the New Zealand plant list (Clarkson et al. 2013; see Appendix 9).

4. Calculate Dominance Test and Prevalence Index for plot.

Examples on how the Delineation Data Forms are filled out are provided in Appendix 2. To complete the Delineation Data Form, worksheets for the Dominance Test (Appendix 3) and Prevalence Index (Appendix 4) should be filled out. These are explained in the following sections.

Both the Dominance Test and Prevalence Index are recommended to be carried out for wetland delineation in New Zealand. If both tests are met, the area is highly likely to be a wetland. If neither is met, the area is probably not a wetland. If only one test is met, or if the scores are marginally under the threshold, then additional tests will need to be undertaken, which should also include soils and hydrology (Environment Laboratory 1987; Wentworth et al. 1988; Wakeley & Lichvar 1997).

Another vegetation-based test that could be used if the Dominance Test results are inconclusive is the FAC-Neutral Test Test (RJ Pierce, Wetland Training Institute, and CJ Newling, pers. comms, January 2014), which was developed as a Wetland Hydrology Secondary Indicator (Environmental Laboratory 1987).

Dominance Test

The Dominance Test involves a subset of the species in a Sample Plot, i.e. the dominant species, which are determined by a method called the 50/20 rule. This rule was "formally" introduced in the 1989 Manual (Federal Interagency Committee for Wetland Delineation 1989) and has been incorporated in all the current Regional Supplements (e.g. U.S. Army Corps of Engineers 2008, 2010, etc).

The steps for the Dominance Test are:

1. Fill in Dominance Test worksheet by ranking all species in each stratum from most to least abundant (see examples in Appendix 5 and 6).

2. Identify dominant species by applying the 50/20 rule, which is: select plant species from the ranked list in descending order until the cumulative coverage immediately *exceeds* 50% of the total cover for the stratum. If two or more species are equal in cover, they should be selected as a group. Then add any other species that comprise at least 20% of the total cover in the stratum. All these species are considered to be Dominant Species.

3. Species occurring in more than one stratum are assessed more than once.

4. The Dominance Test threshold is met if more than 50% of the dominants from all strata are OBL, FACW, or FAC (i.e. the plant community is considered hydrophytic).

Prevalence Index

The Prevalence Index is a vegetation-based method of weighted averages based on a process developed by Wentworth et al. (1988). The Prevalence Index uses the cover values of all vascular species (and *Sphagnum*) in the plant community. However, Wentworth et al. (1988) suggest any quantitative measure of abundance, such as frequency or basal area, may be used with some care.

Mathematically, the Prevalence Index must fall between 1 (all OBL species) and 5 (all UPL species). Wentworth et al. (1988) cautioned that vegetation alone was not accurate between Prevalence Index values 2.5 to 3.5. In addition, a Prevalence Index is considered undependable if 20% or more of the total cover in a Sample Plot cannot be identified to the level of species (CJ Newling, pers. comm., January 2014).

The steps for the Prevalence Index are:

1. Fill in Prevalence Index worksheet by ranking all species by cover in each Indicator Group from most to least abundant (see examples in Appendix 7 and 8). Sum the covers for species in more than one stratum.

2. Multiply Total Group % Covers accordingly: OBL by 1, FACW by 2, FAC by 3, FACU by 4, UPL by 5.

3. Divide the Product Total (B) by the Total Cover by Group (B).

4. The Prevalence Index (B/A) threshold is met if ≤ 3.0 (i.e. the vegetation is considered hydrophytic).

5.3 Lake Serpentine Results

The Dominance Test and Prevalence Index results for Lake Serpentine are summarised in Table 2. The wetland/non-wetland boundary was determined to be between plots 3 and 4. This delineation was confirmed by testing for the presence of wetland hydrology and hydric soils at the plots, with only plots 1–3 having hydric soils and wetland hydrology (Dave Palmer, Landcare Research, *pers comm.*).

Table 2 Lake Serpentine hydrophytic vegetation tests

Plot	Dominance Index %	Hydrophytic Vegetation?	Prevalence Index	Hydrophytic Vegetation?
1	100	Yes	1.99	Yes
2	100	Yes	2.44	Yes
3	75	Yes	2.70	Yes
4	50	No	3.61	No
5	50	No	3.52	No

6 Conclusions

The hydrophytic vegetation parameter on its own is a useful tool for delineating wetlands for most wetland types as it yielded ecologically meaningful results when tested along a wetland/non-wetland gradient at Lake Serpentine, Waikato. The Prevalence Index method also showed intuitive results when tested at seven wetland sites along hydrological gradients in Southland (Clarkson et al. 2013).

Caution should be exercised for delineation of sites where vegetation cover is sparse (e.g. mudflat, ephemeral wetlands), where plant communities have been disturbed (e.g., cut-over peat bogs, sites destroyed by fire or natural disaster), or where there are strong elements of FAC species (e.g. pakihi and gumland). In addition, some wetland plants may extend onto relatively dry lands that have very infertile soils, e.g. gumland (Johnson & Gerbeaux 2004).

7 Recommendations

To provide an ecologically based, standardised wetland delineation system for the full range of New Zealand wetlands the wetland delineation approach should be expanded to incorporate all three environmental criteria – vegetation, soils, and hydrology – as is used for regulatory purposes in the USA. This will ensure a more robust approach to wetland delineation particularly in cases where assessments based solely on vegetation are inconclusive or misleading.

National guidance on applying the soils and hydrology criteria would require concordance of the New Zealand soils classification (Hewitt 2010) with the USA soils classification used in the Corps of Engineers approach (USDA, NRCS 2010; USACE 2008, 2010).

8 Acknowledgements

Thanks to all workshop participants for their input, Lucy Bridgman and Neil Fitzgerald, Landcare Research, for compiling the species list, and Sarah Beadel, Andrew Townsend, and Jeroen Lurling for contributing to the wetland indicator status ratings. Mark Smale Landcare Research, and Paul Champion NIWA, edited the species list, Dave Palmer, Landcare Research, provided wetland soils expertise during field assessments, and Philippe Gerbeaux and Bill Lee reviewed the manuscript. Special thanks to Charlie Newling and Jim Teaford of the Wetland Training Institute, USA, for teaching the USA wetland delineation course to BRC, and providing additional advice on its application in New Zealand. Thanks also for comments on the manuscript received from Robert J. Pierce (President, Wetland Training Institute, Poolesville, MD), and Charlie Newling and Jim Teaford, and for allowing use of the Wetland Training Institute course material. Funding for the workshop was provided by Meridian Energy Limited and Department of Conservation, and funding for further development of the technique was provided by MBIE under contract number C09X1002.

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Appendix 1 – NZ Wetland Determination Data Form

WETLAND DETERMINATION DATA FORM – NEW ZEALAND

Project/Site: _____ Region: _____ Sampling Date: _____

Applicant/Owner: _____ Altitude: _____ Sampling Point No: _____

Investigator(s): _____ Nearby town/city: _____

Landform (hillslope, terrace, etc.): _____ Local relief (concave, convex, none): _____ Slope (%): _____

Latitude: _____ Longitude: _____ Datum: WGS 84

Soil Map Unit Name: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes _____ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No _____ Hydric Soil Present? Yes _____ No _____ Wetland Hydrology Present? Yes _____ No _____	**Is the Sampled Area within a Wetland?** **Yes** _____ **No** _____
Remarks:	

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	_____ = Total Cover		
Sapling/Shrub Stratum (Plot size: _____)			
1.			
2.			
3.			
4.			
5.			
	_____ = Total Cover		
Herb Stratum (Plot size: _____)			
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			
11.			
12.			
	_____ = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A)

Total Number of Dominant Species Across All Strata: _____ (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species _____	x 1 = _____
FACW species _____	x 2 = _____
FAC species _____	x 3 = _____
FACU species _____	x 4 = _____
UPL species _____	x 5 = _____
Column Totals: _____ (A)	_____ (B)

Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:

___ Dominance Test is >50%

___ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? **Yes** _____ **No** _____

Remarks:

Adapted from US Army Corps of Engineers

New Zealand – Version 1.0

Appendix 2 – Lake Serpentine Wetland Determination Data Forms

WETLAND DETERMINATION DATA FORM – NEW ZEALAND

Project/Site: Lake Serpentine Region: Waikato Sampling Date: 17/9/2012

Applicant/Owner: Department of Conservation Altitude: _____ Sampling Point No: 1

Investigator(s): PDC PNJ LE PG Nearby town/city: Te Awamutu

Landform (hillslope, terrace, etc.): Basin (shallow) Local relief (concave, convex, none): Concave Slope (%): 0-2

Latitude: _____ Longitude: _____ Datum: WGS 84

Soil Map Unit Name: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✓ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ✓	No _____	Is the Sampled Area within a Wetland? Yes ✓ No _____
Hydric Soil Present? NA	Yes _____	No _____	
Wetland Hydrology Present? NA	Yes _____	No _____	

Remarks:

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	= Total Cover		
Sapling/Shrub Stratum (Plot size: 10m x10m)			
1. LEP sco	80	Y	FAC
2. COP ten	0.1		FACW
3. RUB fru *	0.1		FACU
4.			
5.			
	80.2 = Total Cover		
Herb Stratum (Plot size: 2m x 2m)			
1. SPH cri	80	Y	OBL
2. MAC ter	0.1		FACW
3. MAC rub	4		OBL
4. CAR den	15		FACW
5. Hyp rad *	0.1		FACU
6. BLE min	0.1		FACW
7. HOL lan *	2		FAC
8. Lyc eur *	1		OBL
9.			
10.			
11.			
12.			
	102.3 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	85	x 1 =	85
FACW species	15.3	x 2 =	30.6
FAC species	82	x 3 =	246
FACU species	0.2	x 4 =	0.8
UPL species	-	x 5 =	
Column Totals:	182.5 (A)		362.4 (B)

Prevalence Index = B/A = 1.99

Hydrophytic Vegetation Indicators:

✓ Dominance Test is >50%

✓ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ✓ No _____

Remarks:

* = introduced species

Adapted from US Army Corps of Engineers — New Zealand – Version 1.0

WETLAND DETERMINATION DATA FORM – NEW ZEALAND

Project/Site: Lake Serpentine Region: Waikato Sampling Date: 17/9/2012

Applicant/Owner: Department of Conservation Altitude: _____ Sampling Point No: 2

Investigator(s): BRC KAB BDR Nearby town/city: Te Awamutu

Landform (hillslope, terrace, etc.): Basin (shallow) Local relief (concave, convex, none): Concave Slope (%): 0-2

Latitude: _____ Longitude: _____ Datum: WGS 84

Soil Map Unit Name: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✓ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ✓ No _____	Is the Sampled Area within a Wetland? Yes ✓ No _____
Hydric Soil Present? NA	Yes _____ No _____	
Wetland Hydrology Present? NA	Yes _____ No _____	

Remarks:

VEGETATION – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status
Tree Stratum (Plot size: _____)			
1.			
2.			
3.			
4.			
	_____ = Total Cover		
Sapling/Shrub Stratum (Plot size: _____)			
1. LEP sco	20	Y	FAC
2.			
3.			
4.			
5.			
	20 = Total Cover		
Herb Stratum (Plot size: _____)			
1. MAC ter	15	Y	FACW
2. LOT ped*	2		FAC
3. RAN fla*	3		FACW
4. GON mic	2		FAC
5. CAR dem	3		FACW
6. LED tar*	5		FAC
7. ANT odo*	1		FACU
8. HOL lan*	3		FAC
9. Jun pla*	25	Y	FACW
10. AXO fis*	1		FACU
11. LYC euc*	0.1		OBL
12. PRU vul*	0.1		FACU
CEN uni	0.1		FACW
SCH mas	1		FACW
	61.3 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100 % (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	0.1	x 1 =	0.1
FACW species	47.1	x 2 =	94.2
FAC species	32	x 3 =	96
FACU species	2.1	x 4 =	8.4
UPL species	–	x 5 =	
Column Totals:	81.3 (A)		198.7 (B)

Prevalence Index = B/A = 2.44

Hydrophytic Vegetation Indicators:

__ Dominance Test is >50%

✓ Prevalence Index is ≤3.0[1]

__ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

__ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ✓ No _____

Remarks:

* = introduced species

Adapted from US Army Corps of Engineers — New Zealand – Version 1.0

WETLAND DETERMINATION DATA FORM – NEW ZEALAND

Project/Site: Lake Serpentine Region: Waikato Sampling Date: 17/9/2012

Applicant/Owner: Department of Conservation Altitude: _____ Sampling Point No: 3

Investigator(s): PDC PNJ LF PG Nearby town/city: Te Awamutu

Landform (hillslope, terrace, etc.): Basin (shallow) Local relief (concave, convex, none): Concave Slope (%): 0-2

Latitude: _____ Longitude: _____ Datum: WGS 84

Soil Map Unit Name: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✓ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes ✓ No _____	Is the Sampled Area within a Wetland? Yes ✓ No _____
Hydric Soil Present? NA	Yes _____ No _____	
Wetland Hydrology Present? NA	Yes _____ No _____	

Remarks:

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	_____ = Total Cover		
Sapling/Shrub Stratum (Plot size: _____)			
1.			
2.			
3.			
4.			
5.			
	_____ = Total Cover		
Herb Stratum (Plot size: _____)			
1. Juneff *	15	Y	FACW
2. Axo fis *	8		FACU
3. AGR sto *	18	Y	FACW
4. CAR dem	30	Y	FACW
5. PAS dil *	6		FACU
6. HYP rad *	15	Y	FACU
7. CRE cap *	2		FACU
8. PLA lan *	2		FACU
9. GON mic	0.1		FAC
10. LOT ped *	1		FAC
11. PRU vul *	1		FACU
12. RAN fla *	0.1		FACW
LUZ mul	0.1 = Total Cover		FACU
	98.3		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 75% (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species –	x 1 =
FACW species 63.1	x 2 = 126.2
FAC species 1.1	x 3 = 3.3
FACU species 34.1	x 4 = 136.4
UPL species –	x 5 =
Column Totals: 98.3 (A)	265.9 (B)

Prevalence Index = B/A = 2.70

Hydrophytic Vegetation Indicators:

✓ Dominance Test is >50%

✓ Prevalence Index is ≤3.0[1]

___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes ✓ No _____

Remarks:

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New Zealand – Version 1.0

WETLAND DETERMINATION DATA FORM – NEW ZEALAND

Project/Site: Lake Serpentine Region: Waikato Sampling Date: 17/9/2012

Applicant/Owner: Department of Conservation Altitude: _____ Sampling Point No: 4

Investigator(s): BRC, KAB, BDR Nearby town/city: Te Awamutu

Landform (hillslope, terrace, etc.): Basin (shallow) Local relief (concave, convex, none): Concave Slope (%): 0-2

Latitude: _____ Longitude: _____ Datum: WGS 84

Soil Map Unit Name: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✓ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____ No ✓	Is the Sampled Area within a Wetland? Yes _____ No ✓
Hydric Soil Present? NA	Yes _____ No _____	
Wetland Hydrology Present? NA	Yes _____ No _____	

Remarks:

VEGETATION – Use scientific names of plants.

	Absolute % Cover	Dominant Species?	Indicator Status
Tree Stratum (Plot size: _____)			
1.			
2.			
3.			
4.			
	_____ = Total Cover		
Sapling/Shrub Stratum (Plot size: _____)			
1.			
2.			
3.			
4.			
5.			
	_____ = Total Cover		
Herb Stratum (Plot size: 2m x 2m)			
1. Aro fis *	2		FACU
2. Ant odo *	36	Y	FACU
3. Hol lan *	36	Y	FAC
4. Poa ann *	0.1		FACU
5. Pla lan *	18		FACU
6. Hyp rad *	20		FACU
7. Lot ped *	3		FAC
8. Rum ace *	1		FACU
9. Ran fla *	2		FACW
10. Jun eff *	2		FACW
11.			
12.			
	120 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 2 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 50% (A/B)

Prevalence Index worksheet:

Total % Cover of:		Multiply by:	
OBL species	–	x 1 =	
FACW species	4	x 2 =	8
FAC species	39	x 3 =	117
FACU species	77.1	x 4 =	308.4
UPL species	–	x 5 =	
Column Totals:	120 (A)		433.4 (B)

Prevalence Index = B/A = 3.61

Hydrophytic Vegetation Indicators:

- X Dominance Test is >50%
- X Prevalence Index is ≤3.0[1]
- __ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- __ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes _____ No ✓

Remarks:

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WETLAND DETERMINATION DATA FORM – NEW ZEALAND

Project/Site: Lake Serpentine Region: Waikato Sampling Date: 17/9/2012

Applicant/Owner: Department of Conservation Altitude: _____ Sampling Point No: 5

Investigator(s): PDC PNJ LF PG Nearby town/city: Te Awamutu

Landform (hillslope, terrace, etc.): Basin (shallow) Local relief (concave, convex, none): Concave Slope (%): 0-2

Latitude: _____ Longitude: _____ Datum: WGS 84

Soil Map Unit Name: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✓ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes _____ No ✓	**Is the Sampled Area within a Wetland?** Yes _____ No ✓
Hydric Soil Present? NA	Yes _____ No _____	
Wetland Hydrology Present? NA	Yes _____ No _____	

Remarks:

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
	_____ = Total Cover		
Sapling/Shrub Stratum (Plot size: _____)			
1.			
2.			
3.			
4.			
5.			
	_____ = Total Cover		
Herb Stratum (Plot size: _____)			
1. HOL lan*	60	Y	FAC
2. LOT ped*	1		FAC
3. ANT odo*	25	Y	FACU
4. HYP rad*	15		FACU
5. PLA lan*	2		FACU
6. LOL per*	8		UPL
7.			
8.			
9.			
10.			
11.			
12.			
	111 = Total Cover		

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 50 % (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species –	x 1 =
FACW species –	x 2 =
FAC species 61	x 3 = 183
FACU species 42	x 4 = 168
UPL species 8	x 5 = 40
Column Totals: 111 (A)	391 (B)

Prevalence Index = B/A = 3.52

Hydrophytic Vegetation Indicators:

- ✓ Dominance Test is >50%
- ✓ Prevalence Index is ≤3.0[1]
- ___ Morphological Adaptations[1] (Provide supporting data in Remarks or on a separate sheet)
- ___ Problematic Hydrophytic Vegetation[1] (Explain)

[1]Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes _____ No ✓

Remarks:

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Appendix 3 – Indicator 1 – Dominance Test

Stratum	Species Name	% Cover	Dominant Species?	Indicator Status
Tree (*r* = 10 m)				
	Total Cover			
		50% **20%**		
Sapling/shrub (*r* = 5 m)				
	Total Cover			
		50% **20%**		
Herb (2 m × 2 m plots)				
	Total Cover			
		50% **20%**		
Hydrophytic Vegetation Determination	Number of Dominant Species across all Strata _____ Percent of Dominant Species that are OBL, FACW and/or FAC _____% Hydrophytic Vegetation by Indicator 1 (is DT >50%)? _____Yes _____ No			

*Indicates exotic species

Appendix 4 – Indicator 2 – Prevalence Index

Indicator Group	Species Name	Percent Cover by Species	Total Cover by Group	Weighting Factor	Product
OBL				1	
FACW				2	
FAC				3	
FACU				4	
UPL				5	
	Totals		(A)		(B)
Hydrophytic Vegetation Determination	Prevalence Index = B/A = _____ Hydrophytic Vegetation by Indicator 2 (is PI ≤3.0)? _____Yes _____ No				

*Indicates exotic species

Appendix 5 – Dominance Test Lake Serpentine Plot 1

Stratum	Species Name	% Cover	Dominant Species?	Indicator Status
Tree (r = 10 m)				
Sapling/shrub (*r* = 5 m)	*Leptospermum scoparium* *Coprosma tenuicaulis* *Rubus fruticosus**	80 0.1 0.1	Yes No No	FAC FACW FACW
	Total Cover	80.2%		
		50%: 40.1% **20%**: 16.04%		
Herb (2 m × 2 m)	*Sphagnum cristatum* *Carex demissa** *Machaerina rubiginosa* *Holcus lanatus** *Lycopus europaeus** *Machaerina teretifolia* *Blechnum minus* *Hypochaeris radicata**	80 15 4 2 1 0.1 0.1 0.1	Yes No No No No No No No	OBL FACW OBL FAC OBL FACW FACW FACU
	Total Cover	102.3%		
		50%: 51.15% **20%**: 20.46%		
Hydrophytic Vegetation Determination	Number of Dominant Species across all Strata ____2____ Percent of Dominant Species that are OBL, FACW and/or FAC ___100__% Hydrophytic Vegetation by Indicator 1 (is DT >50%)? ___✓___Yes _____ No			

Appendix 6 – Dominance Test Lake Serpentine Plot 5

Stratum	Species Name	% Cover	Dominant Species?	Indicator Status
Tree (r = 30')				
	Total Cover			
		50% **20%**		
Sapling/shrub (r = 30')				
	Total Cover			
		50% **20%**		
Herb (2 m × 2 m)	*Holcus lanatus** *Anthoxanthum odoratum** *Hypochaeris radicata** *Lolium perenne** *Plantago lanceolata** *Lotus pedunculatus**	60 25 15 8 2 1	Yes Yes No No No No	FAC FACU FACU UPL FACU FAC
	Total Cover	111		
		50%: 55.5 **20%**: 22.2		
Hydrophytic Vegetation Determination	Number of Dominant Species across all Strata ____2____ Percent of Dominant Species that are OBL, FACW and/or FAC ____50___% Hydrophytic Vegetation by Indicator 1 (is DT >50%)? _____Yes ___√___ No			

Appendix 7 – Prevalence Index Lake Serpentine Plot 1

Indicator Group	Species Name	Percent Cover by Species	Total Cover by Group	Weighting Factor	Product
OBL	*Sphagnum cristatum* *Machaerina rubiginosa* *Lycopus europaeus**	80 4 1	85	1	85
FACW	*Carex demissa** *Coprosma tenuicaulis* *Machaerina teretifolia* *Blechnum minus*	15 0.1 0.1 0.1	15.3	2	30.6
FAC	*Leptospermum scoparium* *Holcus lanatus**	80 2	82	3	246
FACU	*Hypochaeris radicata** *Rubus fruticosus**	0.1 0.1	0.2	4	0.8
UPL	–		0	5	0
	Totals		(A) 182.5		(B) 362.4
Hydrophytic Vegetation Determination	Prevalence Index = B/A = ____1.99_____ Hydrophytic Vegetation by Indicator 2 (is PI ≤3.0)? ____√___Yes _____ No				

*Indicates exotic species

Appendix 8 – Prevalence Index Lake Serpentine Plot 5

Indicator Group	Species Name	Percent Cover by Species	Total Cover by Group	Weighting Factor	Product
OBL	–		0	1	0
FACW	–		0	2	0
FAC	*Holcus lanatus**	60	61	3	183
	*Lotus pedunculatus**	1			
FACU	*Anthoxanthum odoratum**	25	42	4	168
	*Hypochaeris radicata**	15			
	*Plantago lanceolatus**	2			
UPL	*Lolium perenne**	8	8	5	40
	Totals		(A) 111		(B) 391
Hydrophytic Vegetation Determination	Prevalence Index = B/A = ___3.52_____ Hydrophytic Vegetation by Indicator 2 (is PI ≤3.0)? _____Yes ___√___ No				

*Indicates exotic species

Appendix 9 – Wetland indicator status ratings for New Zealand species

Table 3 Clarkson BR, Champion PD, Rance BD, Johnson PN, Bodmin KA, Forester L, Gerbeaux P, Reeves PN 2013. Landcare Research, Hamilton, July 2013

Full Name	Rating	Authority	Code*	Synonym(s)	Common name	Biostatus Origin
Agropogon littoralis	FAC	(Sm.) C.E.Hubb.			Perennial beard grass	Exotic
Abrotanella caespitosa	FACW	Petrie ex Kirk	ABRcae			Endemic
Abrotanella linearis	FACW	Berggr.	ABRlin	*Abrotanella filiformis, A. linearis var. apiculata*		Endemic
Acaena anserinifolia	FACU	(J.R.Forst. & G.Forst.) J.B.Armstr.	ACAans		Bidibid	Endemic
Acaena novae-zelandiae	FACU	Kirk	ACAnov			Non-endemic
Acer pseudoplatanus	UPL	L.	ACEpse		Sycamore	Exotic
Aciphylla aurea	UPL	W.R.B.Oliv.	ACIaur		Golden spaniard	Endemic
Aciphylla pinnatifida	OBL	Petrie	ACIpin			Endemic
Aciphylla subflabellata	UPL	W.R.B.Oliv.	ACIsub			Endemic
Aciphylla traversii	FAC	(F.Muell.) Hook.f.	ACItrv		Chatham Is speargrass, taramea	Endemic
Actinotus novae-zelandiae	OBL	Petrie	ACTnov	*Hemiphues suffocata var. novae-zelandiae*		Endemic
Adenochilus gracilis	FAC	Hook.f.	ADEgra			Endemic
Ageratina adenophora	FAC	(Spreng.) R.M.King & H.Rob.	AGEade		Mexican devil	Exotic
Agrostis capillaris	FACU	L.	AGRcap	*Agrostis tenuis*	Browntop	Exotic
Agrostis muscosa	FAC	Kirk	AGRmus		Pincushion grass	Endemic
Agrostis stolonifera	FACW	L.	AGRsto		Creeping bent	Exotic
Ajuga reptans	FACU	L.	AJUrep		Bugle	Exotic
Alisma lanceolatum	OBL	With.	ALIlan		Water plantain	Exotic
Alisma plantago-aquatica	OBL	L.	ALIpla		Water plantain	Exotic
Allium triquetrum	FAC	L.	ALLtri		Onion weed	Exotic
Alnus glutinosa	FACW	(L.) Gaertn.	ALNglu		Alder	Exotic
Alopecurus aequalis	FACW	Sobol.	ALOaeq		Orange foxtail	Exotic
Alopecurus geniculatus	FACW	L.	ALOgen		Marsh foxtail	Exotic
Alopecurus pratensis	FAC	L.	ALOpra		Meadow foxtail	Exotic
Alternanthera denticulata	FACW	R.Br.	ALTses	*Alternanthera sessilis*	Nahui	Exotic

Full Name	Rating	Authority	Code*	Synonym(s)	Common name	Biostatus Origin
Alternanthera nahui	FACW	Heenan & de Lange	ALTnah			Non-endemic
Alternanthera philoxeroides	FACW	(Mart.) Griseb.	ALTphi		Alligator weed	Exotic
Amphibromus fluitans	OBL	Kirk	AMPflu			Non-endemic
Anagallis arvensis	FACU	L.	ANAarv		Scarlet pimpernel	Exotic
Anaphalioides bellidioides	FACU	(G.Forst.) Glenny	ANAbel	*Helichrysum bellidioides*	Native everlasting daisy	Endemic
Anaphalioides hookeri	FACU	(Allan) Anderb.	ANAhoo	*Gnaphalium hookeri*		Endemic
Androstoma empetrifolia	FACW	Hook.f.	ANDemp	*Cyathodes empetrifolia*		Endemic
Anisotome aromatica	FACU	Hook.f.	ANIaro		Common aniseed	Endemic
Anisotome imbricata	FACU	(Hook.f.) Cockayne	ANIimb			Endemic
Anthoxanthum odoratum	FACU	L.	ANTodo		Sweet vernal	Exotic
Anzybas carsei	OBL	(Cheeseman) D.L.Jones et M.A.Clem.	ANZcar	*Corybas carsei, C. unguiculatus L.B. Moore*		Non-endemic
Apium nodiflorum	OBL	(L.) Lag.	APInod		Water celery	Exotic
Apium prostratum	FAC	Vent.	APIpro	*Apium australe*	New Zeland celery	Non-endemic
Apodasmia similis	FACW	Edgar	APOsim	*Leptocarpus similis*	Oioi	Endemic
Aponogeton distachyos	OBL	L.f.	APOdis		Cape pondweed	Exotic
Aporostylis bifolia	FACW	(Hook.f.) Rupp & Hatch	APObif		Odd-leaved orchid	Endemic
Argyrotegium mackayi	FACU	(Buchanan) J.M.Ward & Breitw.	GNAmac	*Gnaphalium mackayi*		Endemic
Asplenium bulbiferum	UPL	G.Forst.	ASPbul		Hen and chickens	Non-endemic
Asplenium flaccidum	UPL	G.Forst.	ASPfla		Hanging spleenwort	Non-endemic
Asplenium oblongifolium	UPL	Colenso	ASPobl		Shining spleenwort	Endemic
Asplenium polyodon	UPL	G.Forst.	ASPpol		Sickle fern	Non-endemic
Astelia chathamica	FAC	(Skottsb.) L.B.Moore	ASTcha		Chatham Is astelia, kakaha	Endemic
Astelia fragrans	FACU	Colenso	ASTfra		Kakaha	Endemic

Full Name	Rating	Authority	Code*	Synonym(s)	Common name	Biostatus Origin
Astelia grandis	OBL	Hook.f. ex Kirk	ASTgra		Swamp astelia	Endemic
Astelia linearis var. linearis	OBL	Hook.f.	ASTlin			Endemic
Astelia linearis var. novae-zelandiae	OBL	Skottsb.	ASTlvn			Endemic
Astelia nervosa	FACU	Hook.f.	ASTner		Mountain astelia	Endemic
Astelia subulata	OBL	(Hook.f.) Cheeseman in Chilton	ASTsub			Endemic
Aster novi-belgii	FAC	L.	ASTnov		Michaelmas daisy	Exotic
Atriplex prostrata	FACU	DC.	ATRpro		Orache	Exotic
Austroderia fulvida	FAC	(Buchanan) N.P.Barker & H.P.Linder	AUSful	*Cortaderia fulvida*	Toetoe	Endemic
Austroderia richardii	FAC	(Endl.) N.P.Barker & H.P.Linder	AUSric	*Cortaderia richardii*		Endemic
Austroderia splendens	FAC	(Connor) N.P.Barker & H.P.Linder	AUSspl	*Cortaderia splendens*	Coastal toetoe	Endemic
Austroderia toetoe	FACW	(Zotov) N.P.Barker & H.P.Linder	AUStoe	*Cortaderia toetoe*		Endemic
Austrostipa stipoides	FACU	(Hook.f.) S.W.L.Jacobs & J.Everett	ASUsti	*Stipa stipoides*		Non-endemic
Avicennia marina subsp. australasica	OBL	(Walp.) J.Everett	AVImsa	*Avicennia marina var. resinifera, A. resinifera*	Mangrove	Non-endemic
Axonopus fissifolius	FACU	(Raddi) Kuhlm.	AXOfis	*Axonopus affinis*	Carpet grass	Exotic
Azolla filiculoides	OBL	Lam.	AZOfil	*Azolla filiculoides var. rubra, A. rubra*	Kārearea	Non-endemic
Azolla pinnata	OBL	R.Br.	AZOpin		Ferny azolla	Exotic
Barbarea intermedia	FAC	Boreau	BARint		Winter cress	Exotic
Barbarea stricta	FAC	Andrz.	BARstr		Winter cress	Exotic
Bauera rubioides	FAC	Andrews				Exotic
Berberis glaucocarpa	FACU	Stapf	BERgla		Barberry	Exotic
Betula pendula	FAC	Roth	BETpen		Silver birch	Exotic
Bidens frondosa	FACW	L.	BIDfro		Beggar's ticks	Exotic
Bidens tripartita	FACW	L.	BIDfro		Swamp beggar's ticks	Exotic

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Blackstonia perfoliata	FACU	(L.) Huds.	BLAper		Yellowort	Exotic
Blechnum alpinum		(R.Br.) Mett.				Non-endemic
Blechnum filiforme	FACU	(A.Cunn.) Ettingsh.	BLEfil		Thread fern	Endemic
Blechnum minus	FACW	(R.Br.) Ettingsh.	BLEmin		Swamp kiokio	Non-endemic
Blechnum montanum	FACU	T.C.Chambers et P.A.Farrant	BLEmon		Mountain kiokio	Endemic
Blechnum novae-zelandiae	FAC	T.C.Chambers & P.A.Farrant	BLEnov	*Blechnum capense*	Kiokio	Endemic
Blechnum penna-marina	FAC	(Poir.) Kuhn	BLEpen		Alpine hard fern	Non-endemic
Blechnum procerum	FACU	(G.Forst.) Sw.	BLEpro			Endemic
Bolboschoenus caldwellii	OBL	(V.J.Cook) Soják	BOLcal			Non-endemic
Bolboschoenus fluviatilis	OBL	(Torr.) Soják	BOLflu			Non-endemic
Bolboschoenus medianus	OBL	(V.J.Cook) Soják	BOLmed			Non-endemic
Botrychium lunaria	FAC	(L.) Sw.	BOTlun		Moonwort	Non-endemic
Brachyglottis elaeagnifolia	FACU	(Hook.f.) B.Nord.	BRAela	*Senecio eleagnifolius*		Endemic
Brachyscome linearis	FACW	(Petrie) Druce	BRAlin			Endemic
Bromus catharticus	UPL	Vahl	BROcat		Praire grass	Exotic
Bromus willdenowii	UPL	Kunth	BROwil		Praire grass	Exotic
Bulbinella angustifolia	FAC	(Cockayne & Laing) L.B.Moore	BULang			Endemic
Bulbinella gibbsii var gibbsii	FACW	Cockayne	BULgvg			Endemic
Bulbinella gibbsii var. balanifera	FACU	L.B.Moore	BULbal			Endemic
Bulbinella hookeri	FACW	(Hook.) Cheeseman	BULhoo			Endemic
Bulbinella modesta	OBL	L.B.Moore	BULmod			Endemic
Bulbinella rossii	FACW	(Hook.f.) Cheeseman	BULros			Endemic
Bulbinella talbotii	FACW	L.B.Moore	BULtal			Endemic
Callitriche antarctica	FAC	Hegelm.	CALant			Endemic
Callitriche brutia var. hamulata	OBL	(Kütz. ex W.D.J.Koch) Lansdown		*Callitriche hamulata*		Exotic
Callitriche heterophylla	OBL	Pursh emend. Darby	CALhet			Exotic

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Callitriche muelleri	FACW	Sond.	CALmue			Non-endemic
Callitriche petriei	OBL	R.Mason	CALpet			Endemic
Callitriche stagnalis	OBL	Scop.	CALsta		Starwort	Exotic
Calochilus herbaceus	FACW	Lindl.	CALcam	*Calochilus campestris*		Non-endemic
Calochilus paludosus	FAC	R.Br.	CALpal		Copper bearded orchid	Non-endemic
Caltha novae-zelandiae	OBL	Hook.f.	CALnov		Yellow caltha	Endemic
Calystegia sepium subsp. roseata	FAC	Brummitt	CALsep	*Calystegia sepium*	Pink bindweed	Non-endemic
Calystegia tuguriorum	FACU	(G.Forst.) R.Br. ex Hook.f.	CALtug			Non-endemic
Cardamine corymbosa	FAC	Hook.f.	CARcor			Endemic
Cardamine debilis	FAC	DC.	CARdeb			Endemic
Cardamine lacustris	OBL	(E.B.G.Jones & P.N.Johnson) Heenan	CARlct	*Iti lacustris*		Endemic
Cardamine pratensis	OBL	L.	CARpra			Exotic
Carex acicularis	FAC	Boott	CARaci			Endemic
Carex allanii	FACW	Hamlin	CARall			Endemic
Carex appressa	OBL	R.Br.	CARapp			Non-endemic
Carex berggrenii	FACW	Petrie	CARber			Endemic
Carex buchananii	FAC	Berggr.	CARbuc			Endemic
Carex capillacea	OBL	Boott	CARcap			Non-endemic
Carex carsei	OBL	Petrie	CARcar			Endemic
Carex chathamica	FACW	Petrie	CARcha			Endemic
Carex cirrhosa	FACW	Berggr.	CARcir			Endemic
Carex colensoi	FACU	Boott	CARcol		Colenso's sedge	Endemic
Carex comans	FAC	Berggr.	CARcom			Endemic
Carex coriacea	FACW	Hamlin	CARcor		Rautahi	Endemic
Carex dallii	FACW	Kirk	CARdal			Endemic
Carex decurtata	FACW	Cheeseman	CARdec			Endemic
Carex demissa	FACW	Hornem.	CARdem		Low sedge	Exotic
Carex diandra	OBL	Schrank	CARdia			Non-endemic
Carex dipsacea	FAC	Berggr.	CARdip			Endemic

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Carex dissita	FAC	Sol. ex Boott	CARdis	*Carex quadrangulata*		Endemic
Carex divisa	FAC	Huds.	CARdvs			Exotic
Carex divulsa	FAC	Stokes	CARdiv			Exotic
Carex echinata	OBL	Murray	CARech		Star sedge	Non-endemic
Carex enysii	OBL	Petrie	CAReny			Endemic
Carex fascicularis	OBL	Boott	CARfas			Endemic
Carex flacca	FACW	Schreb.	CARflc		Carnation grass	Exotic
Carex flagellifera	FACU	Colenso	CARfgl			Non-endemic
Carex flaviformis	OBL	Nelmes	CARfla			Endemic
Carex fretalis	FAC	Hamlin	CARfre			Endemic
Carex gaudichaudiana	FACW	Kunth	CARgau			Non-endemic
Carex geminata	FACW	Schkuhr	CARgem			Endemic
Carex hectorii	FAC	Petrie	CARhec		Hector's sedge	Endemic
Carex hirta	FAC	L.	CARhir			Exotic
Carex inversa	FACU	R.Br.	CARinv			Non-endemic
Carex kirkii	FAC	Petrie	CARkir			Endemic
Carex lachenalii	OBL	Schkuhr	CARlac			Non-endemic
Carex lambertiana	FAC	Boott	CARlam			Endemic
Carex lessoniana	FACW	Steud.	CARles			Endemic
Carex libera	FACW	(Kük.) Hamlin	CARlib			Endemic
Carex litorosa	OBL	L.H.Bailey	CARlit			Endemic
Carex longii	FAC	Mack.	CARlon			Exotic
Carex lurida	FACW	Wahlenb.	CARlur		Sallow sedge	Exotic
Carex maorica	OBL	Hamlin	CARmao			Endemic
Carex ochrosaccus	FAC	(Cheeseman) Hamlin	CARoch			Endemic
Carex ovalis	FACW	Gooden.	CARova		Oval sedge	Exotic
Carex pallescens	FAC	L.	CARpal			Exotic
Carex petriei	FAC	Cheeseman	CARpet			Endemic
Carex pumila	FAC	Thunb.	CARpum		Sand sedge	Non-endemic
Carex pyrenaica var. cephalotes	FAC	(F.Muell.) Kük.	CARcep			Endemic
Carex resectans	FAC	Cheeseman	CARres			Endemic

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Carex rubicunda	FACW	Petrie	CARrub			Endemic
Carex scoparia	FACW	Schkuhr ex Willd.	CARsco			Exotic
Carex secta	OBL	Boott	CARsec			Endemic
Carex sectoides	OBL	(Kük.) Edgar				Endemic
Carex sinclairii	OBL	Boott	CARsin			Endemic
Carex solandri	FAC	Boott	CARsol			Endemic
Carex subdola	OBL	Boott	CARsub			Endemic
Carex tahoata	FAC	Hamlin	CARtah			Endemic
Carex tenuiculmis	OBL	(Petrie) Heenan & de Lange	CARtec	*Carex secta var. tenuiculmis*		Endemic
Carex ternaria	FACW	Boott	CARter			Endemic
Carex trachycarpa	OBL	Cheeseman	CARtra			Endemic
Carex traversii	FACW	Kirk	CARtrv			Endemic
Carex ventosa	FACU	C.B.Clarke	CARven		Chatham Island forest sedge	Endemic
Carex virgata	OBL	Boott	CARvir			Endemic
Carex vulpinoidea	OBL	Michx.	CARvul		Fox sedge	Exotic
Carissa ovata	FACU	R.Br.				Uncertain
Carmichaelia arborea	FACU	(G.Forst.) Druce	CARarb		Swamp broom	Endemic
Carmichaelia australis	FACU	R.Br.	CARaus	*Carmichaelia cunninghamii*		Endemic
Carpha alpina	OBL	R.Br.	CARapl		Straw sedge	Non-endemic
Carpodetus serratus	FACU	J.R.Forst. & G.Forst.	CARser		Putaputaweta	Endemic
Cassytha paniculata	FAC	R.Br.	CASpan			Non-endemic
Celmisia alpina	OBL	(Kirk) Cheeseman	CELapl			Endemic
Celmisia argentea	OBL	Kirk	CELarg			Endemic
Celmisia clavata	FACW	G.Simpson & J.S.Thomson	CLEcla			Endemic
Celmisia glandulosa	FACW	Hook.f.	CELgla			Endemic
Celmisia gracilenta	FAC	Hook.f.	CELgra			Endemic
Celmisia graminifolia	FACW	Hook.f.	CELgrm			Endemic
Celmisia sessiliflora	FACU	Hook.f.	CELses			Endemic
Celmisia setacea	OBL	Colenso	CELset			Uncertain
Centaurium erythraea	FACU	Rafn.	CENery		Centaury	Exotic
Centella uniflora	FACW	(Colenso) Nannf.	CENuni			Non-endemic
Centipeda aotearoana	FACW	N.G.Walsh	CENaot		New Zealand sneezewort	Endemic

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Centipeda cunninghamii	FACW	(DC.) A.Braun & Asch.	CENcun			Exotic
Centipeda minima	FACW	(L.) A.Braun & Asch.	CENmin	*Centipeda orbicularis*	Sneezeweed	Non-endemic
Centrolepis ciliata	OBL	(Hook.f.) Druce	CENcil			Endemic
Centrolepis minima	OBL	Kirk	CENmin			Endemic
Centrolepis pallida	OBL	(Hook.f.) Cheeseman	CENpal			Endemic
Centrolepis strigosa	FAC	(R.Br.) Roem. & Schult.	CENstr			Non-endemic
Cerastium fontanum	FACU	Baumg.	CERfon		Mouse-ear chickweed	Exotic
Cerastium glomeratum	FACU	Thuill.	CERglo		Annual mouse-ear chickweed	Exotic
Ceratophyllum demersum	OBL	L.	CERdem		Hornwort	Exotic
Chaerophyllum colensoi	FACU	(Hook.f.) K.F.Chung	OREcol			Non-endemic
Chaerophyllum ramosum	FAC	(Hook.f.) K.F.Chung	CHAram			Non-endemic
Chionochloa crassiuscula subsp. crassiuscula	FAC	(Kirk) Zotov	CHIscr		Pungent snow tussock	Endemic
Chionochloa crassiuscula subsp. directa	FAC	Connor (1991)	CHIcsd		Snow tussock	Endemic
Chionochloa crassiuscula subsp. torta	FAC	Connor	CHIcst		Curly snow tussock	Endemic
Chionochloa juncea	FAC	Zotov	CHIjun		North Westland snow tussock	Endemic
Chionochloa rigida	FAC	(Raoul) Zotov	CHIrig			Endemic
Chionochloa rubra subsp. cuprea	FAC	Connor	CHIrsc			Endemic
Chionochloa rubra subsp. occulta	FAC	Connor	CHIrso			Endemic
Chionochloa rubra subsp. rubra	FAC	Zotov	CHIrub		Red tussock	Endemic
Chionochloa teretifolia	FAC	(Petrie) Zotov	CHIter		Terete-leaved snow tussock	Endemic
Christella dentata	FAC	(Forssk.) Brownsey & Jermy	CHRden	*Thelypteris dentata*	Soft fern	Non-endemic
Cirsium arvense	FACU	(L.) Scop.	CIRarv		Californian thistle	Exotic
Cirsium palustre	FACW	(L.) Scop.	CIRpal		Marsh thistle	Exotic
Cirsium vulgare	FACU	(Savi) Ten.	CIRvul		Scotch thistle	Exotic

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Clematis paniculata	UPL	J.F.Gmel.	CLEpan		Puawhananga	Endemic
Collospermum hastatum	UPL	(Colenso) Skottsb.	COLhas		Kahakaha, tank lily	Endemic
Colobanthus affinis	FACW	(Hook.) Hook.f.	COLaff			Non-endemic
Colobanthus apetalus	FAC	(Labill.) Druce	COLape			Non-endemic
Colobanthus strictus	FAC	Cheeseman	COLstr			Endemic
Colocasia esculenta	FACW	(L.) Schott	COLesc		Taro	Exotic
Conium maculatum	FAC	L.	CONmac		Hemlock	Exotic
Conyza sumatrensis	FACU	(Retz.) E.H.Walker	CONsum	*Conyza albida*	Broad-leaved fleabane	Exotic
Coprosma acerosa	UPL	A.Cunn.	COPace		Sand coprosma	Endemic
Coprosma chathamica	FAC	Cockayne	COPcha			Endemic
Coprosma cheesemanii	FACU	W.R.B.Oliv.	COPche			Endemic
Coprosma crenulata	FACU	W.R.B.Oliv.	COPcre			Endemic
Coprosma dumosa	FAC	(Cheeseman) G.T.Jane	COPdmo	*Coprosma parviflora var. dumosa*		Endemic
Coprosma elatirioides	FACW	de Lange & A.S.Markey	COPela			Endemic
Coprosma foetidissima	FACU	J.R.Forst. & G.Forst.	COPfoe		Hupiro	Endemic
Coprosma grandifolia	FACU	Hook.f.	COPgra	*Coprosma australis*	Kanono	Endemic
Coprosma intertexta	UPL	G.Simpson	COPint			Endemic
Coprosma linariifolia	UPL	Hook.f.	COPlin			Endemic
Coprosma pedicellata	FACW	de Lange et B.D.Clarkson	COPped			Endemic
Coprosma perpusilla	FAC	Colenso	COPper	*C. pumila sensu NZ*		Non-endemic
Coprosma perpusilla subsp. subantarctica	FACW	Orchard	COPpss			Endemic
Coprosma propinqua	FAC	A.Cunn.	COPpro		Mingimingi	Endemic
Coprosma propinqua var. martinii	FACW	W.R.B.Oliv.	COPpvm			Endemic
Coprosma rhamnoides	UPL	A.Cunn.	COPrha			Endemic
Coprosma robusta	FACU	Raoul	COProb		Karamu	Endemic
Coprosma rotundifolia	FAC	A.Cunn.	COProt			Endemic
Coprosma spathulata	UPL	A.Cunn.	COPspa			Endemic
Coprosma tayloriae	FACU	A.P.Druce	COPtay			Endemic
Coprosma tenuicaulis	FACW	Hook.f.	COPtec		Swamp coprosma	Endemic

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Coprosma tenuifolia	UPL	Cheeseman	COPtef			Endemic
Coprosma virescens	UPL	Petrie	COPvir			Endemic
Coprosma X cunninghamii	FACW	Hook.f.	COPxcu			Endemic
Cordyline australis	FACW	(G.Forst.) Endl.	CORaus		Cabbage tree, ti kouka	Endemic
Cordyline banksii	UPL	Hook.f.	CORban		Forest cabbage tree	Endemic
Coriaria arborea	UPL	Linds.	CORarb		Tree tutu	Endemic
Corokia cotoneaster	UPL	Raoul	CORcot			Endemic
Corokia macrocarpa	FACU	Kirk	CORmcc			Endemic
Cortaderia selloana	FAC	(Schult. & Schult.f.) Asch. & Graebn.	CORsel		Pampas	Exotic
Corunastylis nuda	FAC	(Hook.f.) D.L.Jones & M.A.Clem.	CORnud	*Prasophyllum nudum*		Non-endemic
Cotula coronopifolia	FACW	L.	COTcor		Yellow buttons	Non-endemic
Crassula helmsii	FACW	(Kirk) Cockayne	CRAhel	*Tillaea helmsii*		Endemic
Crassula kirkii	FAC	(Allan) A.P.Druce & D.R.Given	CRAkir	*Tillaea kirkii*		Endemic
Crassula moschata	FAC	G.Forst.	CRAmos	*Tillaea moschat*		Non-endemic
Crassula multicaulis	FACW	(Petrie) A.P.Druce & D.R.Given	CRAmul	*Tillaea multicaulis*		Endemic
Crassula peduncularis	FACW	(Sm.) F.Meigen	CRAped	*Tillaea purpurata*		Non-endemic
Crassula ruamahanga	FACW	A.P.Druce	CRAhun	*Tillaea acutifolia, Tillaea pusilla, Crassula hunua*		Endemic
Crassula sinclairii	OBL	(Hook.f.) A.P.Druce & Given	CRAsin	*Tillaea sinclairii*		Endemic
Crepis capillaris	FACU	(L.) Wallr.	CREcap		Hawksbeard	Exotic
Cryptostylis subulata	OBL	(Labill.) Rchb.f.	CRYsub		Duck orchid	Non-endemic
Ctenopteris heterophylla	UPL	(Labill.) Tindale	CTEhet			Non-endemic
Cyathea cunninghamii	FACU	Hook.f. in Hook.	CYAcun		Gully treefern	Non-endemic
Cyathea dealbata	UPL	(G.Forst.) Sw.	CYAdea		Ponga, silver fern	Endemic
Cyathea medullaris	FACU	(G.Forst.) Sw.	CYAmed		Mamaku	Non-endemic
Cyclosorus interruptus	FACW	(Willd.) H.Itô	CYCint	*Thelypteris gongylodes*		Non-endemic

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Cynosurus cristatus	UPL	L.	CYNcri		Crested dogstail	Exotic
Cyperus alternifolius subsp. flabelliformis	FACW	Kük.	CYPinv	*Cyperus involucratus*		Exotic
Cyperus congestus	FAC	Vahl	CYPcon		Purple umbrella sedge	Exotic
Cyperus eragrostis	FACW	Lam.	CYPera		Umbrella sedge	Exotic
Cyperus papyrus	OBL	L.	CYPpap		Papyrus	Exotic
Cyperus ustulatus	FACW	A.Rich.	CYPust		Giant umbrella sedge, Upoko-a-tangata	Endemic
Cytisus scoparius	UPL	(L.) Link	CYTsco		Broom	Exotic
Dacrycarpus dacrydioides	FACW	(A. Rich.) Laub.	DACdac		Kahikatea, white pine	Endemic
Dacrydium cupressinum	FACU	Lamb.	DACcup		Rimu, red pine	Endemic
Dactylis glomerata	FACU	L.	DACglo		Cocksfoot	Exotic
Deparia petersenii	FAC	(Kunze) M.Kato	DEPpet			Non-endemic
Deschampsia cespitosa	FACW	(L.) P.Beauv.	Desces		Tufted hair grass	Non-endemic
Deschampsia chapmanii	FACW	Petrie	DEScha	*Deschampsia novae-zelandiae*		Endemic
Deyeuxia avenoides	UPL	(Hook.f.) Buchanan	DEYave		Mountain oat grass	Endemic
Deyeuxia quadriseta	FAC	(Labill.) Benth	DEYqua			Non-endemic
Dianella haematica	FACW	Heenan & de Lange	DIAhae			Endemic
Dianella nigra	UPL	Colenso	DIAnig		Inkberry	Endemic
Dichondra brevifolia	FAC	Buchanan	DICbre			Non-endemic
Dichondra micrantha	FACU	Urb.	DICmic		Mercury Bay weed	Exotic
Dicksonia fibrosa	UPL	Colenso	DICfib		Wheki-ponga	Endemic
Dicksonia squarrosa	FACU	(G.Forst.) Sw.	DICsqu		Wheki	Endemic
Dicranopteris linearis	FACU	(Burm.f.) Underw.	DIClin	*Gleichenia linearis*		Non-endemic
Digitalis purpurea	UPL	L.	DIGpur		Foxglove	Exotic
Discaria toumatou	UPL	Raoul	DIStou		Matagouri	Endemic
Donatia novae-zelandiae	OBL	Hook.f.	DONnov			Non-endemic
Dracophyllum arboreum	FACW	Cockayne	DRAarb			Endemic
Dracophyllum lessonianum	FAC	A.Rich.	DRAles			Endemic

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Dracophyllum longifolium	FACU	(J.R.Forst. & G.Forst.) R.Br.	DRAlon		Inanga	Endemic
Dracophyllum oliveri	FACW	Du Rietz	DRAoli			Endemic
Dracophyllum palustre	OBL	Cockayne ex W.R.B.Oliv.	DRApal			Endemic
Dracophyllum politum	FACW	(Cheeseman) Cockayne	DRApol			Endemic
Dracophyllum prostratum	FACW	Kirk	DRApro			Endemic
Dracophyllum scoparium	OBL	Hook.f.	DRAsco			Endemic
Dracophyllum subulatum	FAC	Hook.f.	SRAsub		Monoao	Endemic
Drosera arcturi	OBL	Hook.	DROARC			Non-endemic
Drosera auriculata	FAC	Backh. ex Planch.	DROaur	*Drosera peltata subsp. auriculata*		Non-endemic
Drosera binata	OBL	Labill.	DRObin		Forked sundew	Non-endemic
Drosera pygmaea	FACW	DC.	DROpyg			Non-endemic
Drosera spathulata	FACW	Labill.	DROspa			Non-endemic
Drosera stenopetala	OBL	Hook.f.	DROste			Endemic
Egeria densa	OBL	Planch.	EGEden		Egeria	Exotic
Eichhornia crassipes	OBL	(Mart.) Solms			Water hyacinth	Exotic
Elatine gratioloides	OBL	A.Cunn.	ELAgra			Non-endemic
Eleocharis acuta	OBL	R.Br.	ELEacu		Sharp spike-sedge	Non-endemic
Eleocharis gracilis	OBL	R.Br.	ELEgra		Slender spike-sedge	Non-endemic
Eleocharis neozelandica	OBL	C.B.Clarke ex Kirk	ELEnov			Endemic
Eleocharis pusilla	OBL	R.Br.	ELEpus			Endemic
Eleocharis sphacelata	OBL	R.Br.	ELEsph		Tall spike sedge	Non-endemic
Elodea canadensis	OBL	Michx.	ELOcan		Canadian pondweed	Exotic
Empodisma minus	OBL	(Hook.f.) L.A.S.Johnson & D.F.Cutler	EMPmin	*Calorophus minor*	Wire rush	Non-endemic
Empodisma robustum	OBL	Wagstaff & B.R.Clarkson	EMProb	*Empodisma minus* north of 38°S	Wire rush	Endemic

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Epacris pauciflora	FACW	A.Rich.	EPApau		Tamingi	Endemic
Epilobium alsinoides	FACU	A.Cunn.	EPIals			Endemic
Epilobium alsinoides subsp. atriplicifolium	FACU	(A.Cunn.) P.H.Raven & Engelhorn		*Epilobium atriplicifolium*		Non-endemic
Epilobium angustum	OBL	(Cheeseman) P.H.Raven & Engelhorn	EPIang			Endemic
Epilobium billardiereanum	FACW	(Ser.) DC.	EPIbil			Non-endemic
Epilobium billardiereanum subsp. cinereum	UPL	(A.Rich.) P.H.Raven & Engelhorn	EPIbsc	*Epilobium cinereum*		Non-endemic
Epilobium brunnescens	FACW	(Cockayne) P.H.Raven & Engelhorn	EPIbru			Endemic
Epilobium chionanthum	OBL	Hausskn.	EPIchi			Endemic
Epilobium ciliatum	FAC	Raf.	EPIcil			Exotic
Epilobium gunnianum	OBL	Hausskn.	EPIgun			Non-endemic
Epilobium hirtigerum	FAC	A.Cunn.	EPIhir			Non-endemic
Epilobium insulare	OBL	Hausskn.	EPIins			Endemic
Epilobium komarovianum	FACW	H.Lév.	EPIkom			Non-endemic
Epilobium macropus	OBL	Hook.	EPImac			Endemic
Epilobium matthewsii	FAC	Petrie	EPImat			Endemic
Epilobium nerteroides	FAC	A.Cunn.	EPIner			Endemic
Epilobium obscurum	FACW	Schreb.	EPIobs			Exotic
Epilobium pallidiflorum	OBL	A.Cunn.	EPIpal			Non-endemic
Epilobium parviflorum	OBL	Schreb.				Exotic
Epilobium pernitens	FACW	Cockayne & Allan	EPIper			Endemic
Epilobium tetragonum	FACW	L.	EPItet			Exotic
Equisetum arvense	FACU	L.	EQUarv		Field horsetail	Exotic
Erechtites hieraciifolia	FAC	(L.) DC.	ERIhie		American fireweed	Exotic
Erica lusitanica	FACU	Rudolphi	ERIlus		Spanish heath	Exotic
Eryngium vesiculosum	FAC	Labill.	ERYves		Sea holly	Non-endemic
Erythranthe guttata	OBL	(Fisch. ex DC.) G.L.Nesom	MIMgut	*Mimulus guttatus*	Monkey musk	Exotic

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Euchiton audax	FACU	(D.G.Drury) Holub	EUCaud	*Gnaphalium audax*		Endemic
Euchiton delicatus	FAC	(D.G.Drury) Holub	EUCdel	*Gnaphalium delicatum*		Non-endemic
Euchiton ensifer	FACW	(D.G.Drury) Holub	EUCens	*Gnaphalium ensifer*		Endemic
Euchiton involucratus	FAC	(D.G.Drury) Holub	EUCinv	*Gnaphalium involucratum*		Non-endemic
Euchiton lateralis	FACW	(C.J.Webb) Breitw. & J.M.Ward	EUClat	*Gnaphalium laterale*		Non-endemic
Euchiton limosus	FAC	(D.G.Drury) Holub	EUClim	*Gnaphalium limosum*		Endemic
Euchiton paludosus	FACW	(Petrie) Holub	EUCpal	*Gnaphalium paludosum*		Endemic
Euchiton polylepis	FACW	(D.G.Drury) Breitw. & J.M.Ward	EUCpol	*Gnaphalium polylepis*		Endemic
Euchiton ruahinicus	FACU	(D.G.Drury) Breitw. & J.M.Ward	EUCrua	*Gnaphalium ruahinicum*		Endemic
Euchiton traversii	FAC	(Hook.f.) Holub	EUCtra	*Gnaphalium traversii*		Non-endemic
Euphrasia cuneata	UPL	G.Forst.	EUPcun			Endemic
Euphrasia disperma	OBL	Hook.f.	EUPdis			Endemic
Euphrasia dyeri	OBL	Wettst.	EUPdye			Endemic
Euphrasia repens	OBL	Hook.f.	EUPrep			Endemic
Euphrasia revoluta	FAC	Hook.f.	EUPrev			Endemic
Euphrasia wettsteiniana	OBL	Du Rietz				Endemic
Euphrasia zelandica	FAC	Wettst.	EUPzel			Endemic
Festuca novae-zelandiae	UPL	(Hack.) Cockayne	FESnov		Hard tussock	Endemic
Festuca rubra	FACU	L.	FESrub		Chewing's fescue	Exotic
Ficinia nodosa	FACU	(Rottb.) Goetgh., Muasya & D.A.Simpson	FICnod	*Scirpus nodosus*	Knobby clubrush	Non-endemic
Forstera sedifolia	FACU	G.Forst.	FORsed			Endemic
Forstera tenella	FAC	Hook.f.	FORten			Endemic
Freycinetia baueriana	FACU	Endl.	FREbau	*Freycinetia banksii*	Kiekie	Non-endemic
Fuchsia excorticata	FACU	(J.R.Forst. Et G.Forst.) L.f.	FUCexc		Kotukutuku, tree fuchsia	Endemic
Fuchsia perscandens	FACU	Cockayne et Allan	FUCper		Fuchsia	Endemic
Fuchsia procumbens	FACU	A.Cunn.	FUCpro		Creeping fuchsia	Endemic
Gahnia procera	FACU	J.R.Forst. & G.Forst.	GAHpro			Endemic

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Gahnia rigida	FACW	Kirk	GAHrig			Endemic
Gahnia xanthocarpa	FAC	(Hook.f.) Hook.f.	GAHxan		Kauri grass	Endemic
Gaimardia setacea	OBL	Hook.f.	GAHSset			Non-endemic
Galium aff. perpusillum (CHR 476063; Kaitorete	OBL					Endemic
Galium palustre	OBL	L.	GALpal		Marsh bedstraw	Exotic
Galium perpusillum	FACU	(Hook.f.) Allan	GALper			Endemic
Galium propinquum	FACU	A.Cunn.	GALpro		Mawe	Non-endemic
Galium trilobum	FACU	Colenso	GALtri	*Galium tenuicaule*		Endemic
Gamochaeta coarctata	FACU	(Willd.) Kerg.	GAMcoa	*Gnaphalium spicatum*		Exotic
Gaultheria depressa var. depressa	FACU	Hook.f.	GAUdvd		Mountain snowberry	Non-endemic
Gaultheria depressa var. novae-zealandiae	FACU	D.A.Franklin	GAUdvn			Endemic
Gaultheria macrostigma	FACU	(Colenso) D.J.Middleton	GAUmac	*Pernettya macrostigma*		Endemic
Gaultheria nubicola	FAC	D.J. Middleton	GAUnub	*Pernettya alpina*		Endemic
Gaultheria parvula	FAC	D.J.Middleton	GAUpar			Endemic
Geniostoma rupestre var. ligustrifolium	FACU	(A.Cunn.) B.J.Conn	GENrup	*Geniostoma ligustrifolium*	Hangehange	Non-endemic
Gentianella amabilis	OBL	(Petrie) Glenny	GNTama	*Gentiana amabilis*		Endemic
Gentianella bellidifolia	FACU	(Hook.f.) Holub	GNTbel	*Gentiana bellidifolia*		Endemic
Gentianella chathamica	FAC	(Cheeseman) T.N.Ho & S.W.Liu	GNTcha	*Gentiana chathamica*		Endemic
Gentianella gracilifolia	FAC	(Cheeseman) T.N.Ho & S.W.Liu	GNTgra	*Gentiana gracilifolia*		Endemic
Gentianella grisebachii	FACW	(Hook.f.) T.N.Ho	GNTgri	*Gentiana grisebachii*		Endemic
Gentianella lineata	FACW	(Kirk) T.N.Ho & S.W.Liu	GNTlin	*Gentiana lineata*		Endemic
Gentianella montana	FACW	(G.Forst.) Holub	GNTmon	*Gentiana townsonii, Gentiana montana*		Endemic
Gentianella saxosa	UPL	(G.Forst.) Holub	GNTsax	*Gentiana saxosa*		Endemic
Gentianella spenceri	FACU	(Kirk) T.N.Ho & S.W.Liu	GNTspe	*Gentiana spenceri*		Endemic

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Geranium brevicaule	FACU	Hook.f.	GERbre	*Geranium sessiliflorum*		Non-endemic
Geranium microphyllum	FACU	Hook.f.	GERmic			Endemic
Gingidia trifoliolata	FAC	(Hook.f.) J.W.Dawson	GINtri	*Angelica trifoliolata*		Endemic
Gleichenia alpina	FACW	R. Br.	GLEalp	*Gleichenia dicarpa var. alpina*	Alpine tangle fern	Non-endemic
Gleichenia dicarpa	FACW	R.Br.	GLEdic	*Gleichenia circinnata*	Tangle fern	Non-endemic
Gleichenia microphylla	FAC	R.Br.	GLEmic		Carrier tangle fern	Non-endemic
Glossostigma cleistanthum	OBL	W.R.Barker				Non-endemic
Glossostigma diandrum	OBL	(L.) Kuntze		*Glossostigma submersum*		Endemic
Glossostigma elatinoides	OBL	Benth. ex Hook.f.	GLOela			Non-endemic
Glyceria declinata	OBL	Bréb.	GLYdec		Glaucous sweetgrass	Exotic
Glyceria fluitans	OBL	(L.) R.Br.	GLYflu		Floating sweetgrass	Exotic
Glyceria maxima	OBL	(Hartm.) Holmb.	GLYmax		Reed sweetgrass	Exotic
Glyceria plicata	OBL	(Fr.) Fr.	GLYpli			Exotic
Gonocarpus aggregatus	FACU	(Buchanan) Orchard	GONagg	*Haloragis depressa*		Endemic
Gonocarpus micranthus	FAC	Thunb.	GONmic	*Haloragis micrantha*		Non-endemic
Gratiola concinna	FACW	Colenso	GRAnan	*Gratiola nana*		Non-endemic
Gratiola pedunculata	FACW	R.Br.				Non-endemic
Gratiola sexdentata	OBL	R.Cunn. ex A.Cunn.	GRAsex			Non-endemic
Griselinia littoralis	UPL	Raoul	GRIlit		Broadleaf	Endemic
Gunnera densiflora	FACW	Hook.f.				Endemic
Gunnera dentata	FACW	Kirk	GUNden	*Gunnera arenaria*		Endemic
Gunnera monoica	FAC	Raoul	GUNmon	*Gunnera albocarpa, G. strigosa, G. × mixta*		Endemic
Gunnera prorepens	FACW	Hook.f.	GUNpro	*Gunnera flavida*		Endemic
Gunnera tinctoria	FAC	(Molina) Mirb.			Chilean rhubarb	Exotic
Hakea gibbosa	FACU	Cav.	HAKgib			Exotic

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Hakea sericea	FACU	Schrad. & J.C.Wendl.	HAKser		Prickly hakea	Exotic
Halocarpus bidwillii	FAC	(Kirk) Quinn	HALbid	*Dacrydium bidwillii*	Bog pine	Endemic
Halocarpus biformis	FAC	(Hook.) Quinn	HALbif	*Dacrydium biforme*	Pink pine	Endemic
Haloragis erecta	FACU	(Murray) Oken	HALere			Endemic
Hebe paludosa	FACW	(Cockayne)D.A.Norton et de Lange		*Hebe salicifolia var. paludosa*		Endemic
Hebe pauciramosa	FAC	(Cockayne & Allan) L.B.Moore	HEBpau			Endemic
Hebe salicifolia	UPL	(G.Forst.) Pennell	HEBsal		Koromiko	Non-endemic
Hebe stricta	FACU	(Benth.) L.B.Moore	HEBstr		Koromiko	Endemic
Hebe stricta var. egmontiana	FACU	L.B.Moore	HEBegm			Endemic
Hedycarya arborea	UPL	J.R.Forst. & G.Forst.	HEDarb		Pigeonwood	Endemic
Helichrysum filicaule	FACU	Hook.f.	HELfil			Endemic
Herpolirion novae-zelandiae	FAC	Hook.f.	HERnov		Grass lily	Non-endemic
Hesperantha coccinea	FACW	(Backh.&Harv.) Goldblatt & J.C.Manning		*Schizostylis coccinea*	Kaffir lily	Exotic
Hibiscus diversifolius	FACU	Jacq.	HIBdiv			Non-endemic
Hieracium lepidulum	UPL	(Stenstr.) Omang	HIElep		Tussock hawkweed	Exotic
Hierochloe equiseta	FAC	Zotov	HIEequ			Endemic
Hierochloe redolens	FAC	(Vahl) Roem. & Schult.	HIEred		Karetu	Non-endemic
Histiopteris incisa	FAC	(Thunb.) J.Sm.	HISinc		Water fern	Non-endemic
Hoheria angustifolia	FAC	Raoul	HOHang		Narrow-leaved lacebark	Endemic
Holcus lanatus	FAC	L.	HOLlan		Yorkshire fog	Exotic
Huperzia australiana	FACW	(Herter) Holub	HUPaus	*Lycopodium australianum*	Fir clubmoss	Non-endemic
Huperzia varia	UPL	(R.Br.) Trevis.	HUPvar	*Lycopodium varium*		Non-endemic
Hydrocleys nymphoides	OBL	(Humb. & Bonpl.) Buchenau	HYDnym		Water poppy	Exotic
Hydrocotyle dissecta	FACU	Hook.f.	HYDdis			Endemic
Hydrocotyle heteromeria	FACU	A.Rich.	HydHet	*Hydrocotyle americana*		Endemic

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Hydrocotyle hydrophila	OBL	Petrie	HYDhyd			Endemic
Hydrocotyle microphylla	FAC	A.Cunn.	HYDmic			Endemic
Hydrocotyle novae-zeelandiae	FAC	DC.	HYDnov			Endemic
Hydrocotyle pterocarpa	OBL	F.Muell.	HYDpte			Non-endemic
Hydrocotyle sulcata	FACW	C.J.Webb & P.N.Johnson	HYDsul	*Hydrocotyle tripartita*		Endemic
Hymenophyllum demissum	UPL	(G.Forst.) Sw.	HYMdem			Endemic
Hymenophyllum dilatatum	UPL	(G.Forst.) Sw.	HYMdil			Endemic
Hymenophyllum multifidum	UPL	(G.Forst.) Sw.	HYMmul			Endemic
Hymenophyllum scabrum	UPL	A.Rich.	HYMsca			Endemic
Hypericum humifusum	FAC	L.	HYPhum		Trailing St John's wort	Exotic
Hypericum minutiflorum	FACW	Heenan				Endemic
Hypericum mutilum	FACW	L.	HYPmut			Exotic
Hypericum perforatum	UPL	L.	HYPper		St John’s wort	Exotic
Hypericum pusillum	OBL	Choisy	HYPjap	*Hypericum japonicum*		Non-endemic
Hypericum rubicundulum	OBL	Heenan				Endemic
Hypericum tetrapterum	FACW	Fr.	HYPtet			Exotic
Hypochaeris radicata	FACU	L.	HYPrad		Catsear	Exotic
Hypolepis ambigua	UPL	(A.Rich.) Brownsey & Chinnock	HYPamb			Endemic
Hypolepis dicksonioides	FACU	(Endl.) Hook.	HYPdic		Giant hypolepis	Non-endemic
Hypolepis distans	FAC	Hook.	HYPdis			Non-endemic
Ileostylus micranthus	UPL	(Hook.f.) Tiegh.	ILEmic	*Loranthus micranthus*		Endemic
Iphigenia novae-zelandiae	FAC	(Hook.f.) Baker	IPHnov			Endemic
Iris pseudacorus	OBL	L.	IRIpse		Yellow flag	Exotic
Isachne globosa	OBL	(Thunb.) Kuntze	ISAglo	*Isachne australis*	Swamp millet	Non-endemic
Isoetes alpina	OBL	Kirk				Endemic
Isoetes kirkii	OBL	A.Braun	ISOkir		Quillwort	Endemic

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Isolepis aucklandica	OBL	Hook.f.	ISOauc	*Scirpus aucklandicus*		Non-endemic
Isolepis australiensis	FACW	(Maiden & Betche) K.L.Wilson		*scirpus australiensis*		Exotic
Isolepis basilaris	OBL	Hook.f.	ISObas	*Scirpus basilaris*		Endemic
Isolepis caligenis	OBL	(V.J.Cook) Soják	ISOcal	*Scirpus caligenis*		Endemic
Isolepis cernua	OBL	(Vahl) Roem. & Schult.	ISOcer	*Scirpus cernuus*		Non-endemic
Isolepis cernua var. platycarpa	FACW	(S.T.Blake) Soják		*Isolepis platycarpa*		Exotic
Isolepis crassiuscula	OBL	Hook.f.	ISOcra	*Scirpus crassiusculus*		Non-endemic
Isolepis distigmatosa	OBL	(C.B.Clarke) Edgar	ISOdis	*Scirpus sulcatus var. distigmatosus*		Endemic
Isolepis fluitans	OBL	(L.) R.Br.	ISOflu	*Scirpus fluitans*		Non-endemic
Isolepis habra	FACW	(Edgar) Soják	ISOhab	*Scirpus habrus*		Non-endemic
Isolepis inundata	OBL	R.Br.	ISOinu	*Scirpus inundatus*		Non-endemic
Isolepis levynsiana	FAC	Muasya & D.A.Simpson	CYPten	*Cyperus tenellus*		Exotic
Isolepis marginata	FAC	(Thunb.) A.Dietr.	ISOmar	*Scirpus antarcticus*		Exotic
Isolepis pottsii	FAC	(V.J.Cook) Soják	Ispot	*Scirpus pottsii*		Endemic
Isolepis praetextata	FAC	(Edgar) Soják	ISOpra	*Scirpus praetextatus*		Endemic
Isolepis prolifera	OBL	(Rottb.) R.Br.	ISOpro	*Scirpus prolifer, Isolepis globosa*		Non-endemic
Isolepis reticularis	FACW	Colenso	ISOret	*Scirpus reticularis*		Endemic
Isolepis sepulcralis	FAC	Steud.	ISOsep	*Scirpus chlorostachyus*		Exotic
Isolepis setacea	FACW	(L.) R.Br.	ISOset	*Scirpus setaceus*		Exotic
Isolepis subtilissima	FACW	Boeck.	ISOsub	*Scirpus subtilissimus*		Non-endemic
Isotoma fluviatilis	FACW	(R.Br.) F.Muell. ex Benth.	ISTflu			Non-endemic
Jacobaea aquatica	FACW	(Rill) P. Gaertn., B. Mey. et Scherb.	JACaqu	*Senecio aquaticus*		Exotic
Jacobaea vulgaris	FACU	Gaertn.	SENjac	*Senecio jacobaea*	Ragwort	Exotic

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Juncus acuminatus	OBL	Michx.	JUNacu		Sharp-fruited rush	Exotic
Juncus acutiflorus	FACW	Ehrh. ex Hoffm.	JUNact		Sharp-flowered rush	Exotic
Juncus acutus	FACW	L.			Sharp rush	Exotic
Juncus amabilis	FACU	Edgar	JUNama			Exotic
Juncus antarcticus	OBL	Hook.f.	JUNant			Non-endemic
Juncus articulatus	FACW	L.	JUNart		Jointed rush	Exotic
Juncus australis	FACW	Hook.f.	JUNaus			Non-endemic
Juncus brachycarpus	FACW	Engelm.	JUNbra			Exotic
Juncus bufonius	FACW	L.	JUNNbuf		Toad rush	Exotic
Juncus bulbosus	OBL	L.	JUNbul		Bulbous rush	Exotic
Juncus caespiticius	OBL	E.Mey.	JUNcae			Non-endemic
Juncus canadensis	OBL	J.Gay	JUNcan			Exotic
Juncus conglomeratus	FACW	L.	JUNcon			Exotic
Juncus dichotomus	FACW	Elliott	JUNdic			Exotic
Juncus distegus	FACW	Edgar	JUNdis			Endemic
Juncus dregeanus	DELETE	Kunth	JUNdre			Exotic
Juncus edgariae	FACW	L.A.S.Johnson & K.L.Wilson	JUNedg	*Juncus gregiflorus*		Endemic
Juncus effusus	FACW	L.	JUNeff		Soft rush	Exotic
Juncus effusus var. compactus	OBL	Lej. & Courtois	JUNevc			Exotic
Juncus ensifolius	FACW	Wikstr.	JUNens			Exotic
Juncus filicaulis	FAC	Buchenau	JUNfil			Exotic
Juncus flavidus	FAC	L.A.S.Johnson	JUNfla			Exotic
Juncus fockei	OBL	Buchenau	JUNfoc			Exotic
Juncus gerardii	FACW	Loisel.	JUNger		Saltmarsh rush	Exotic
Juncus holoschoenus	OBL	R.Br.	JUNhol			Non-endemic
Juncus inflexus	FACW	L.	JUNinf		Hard rush	Exotic
Juncus kraussii subsp. australiensis	FACW	(Buchenau) Snogerup	JUNksa	*Juncus maritimus var. australiensis*	Sea rush	Non-endemic
Juncus lomatophyllus	FACW	Spreng.	JUNlom			Exotic
Juncus microcephalus	FACW	Kunth	JUNmic			Exotic

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Juncus novae-zelandiae	FACW	Hook.f.	JUNnov			Endemic
Juncus pallidus	FACW	R.Br.	JUNpal			Non-endemic
Juncus pauciflorus	FACW	R.Br.	JUNpau			Non-endemic
Juncus planifolius	FACW	R.Br.	JUNpla			Non-endemic
Juncus prismatocarpus	FACW	R.Br.	JUNpri			Non-endemic
Juncus procerus	FACW	E.Mey.	JUNpro			Exotic
Juncus pusillus	OBL	Buchenau	JUNpus			Non-endemic
Juncus sarophorus	FACW	L.A.S.Johnson	JUNsar			Non-endemic
Juncus scheuchzerioides	OBL	Gaudich.	JUNsch			Non-endemic
Juncus sonderianus	FACW	Buchenau	JUNson			Exotic
Juncus squarrosus	FACW	L.	JUNsqu		Heath rush	Exotic
Juncus subnodulosus	FACW	Schrank	JUNsub			Exotic
Juncus tenuis	FACU	Willd.	JUNten		Track rush	Exotic
Juncus tenuis subsp. anthelatus	FAC	(Wiegand) F.Verloove & J.Lambinon				Exotic
Juncus usitatus	FACW	L.A.S.Johnson	JUNusi			Non-endemic
Knightia excelsa	UPL	R.Br.	KNIexc		Rewarewa	Endemic
Kyllinga brevifolia	FAC	Rottb.	CYPbre	*Cyperus brevifolius*	Globe sedge	Exotic
Lachnagrostis filiformis	FACW	(G.Forst.) Trin.	LACfil		Wind grass	Non-endemic
Lachnagrostis lyallii	FACU	(Hook.f.) Zotov		*Lachnagrostis filiformis var. semiglabra*		Endemic
Lagarosiphon major	OBL	(Ridl.) Moss ex Wager	LAGmaj		Lagarosiphon	Exotic
Lagenifera petiolata	UPL	Hook.f.	LAGpet			Endemic
Lagenifera pumila	UPL	(G.Forst.) Cheeseman	LAGpum			Endemic
Landoltia punctata	OBL	(G.Mey.) Les & D.J.Crawford	SPIpun	*Spirodela punctata, S. oligorrhiza*	Purple-backed duckweed	Exotic
Laurelia novae-zelandiae	FAC	A.Cunn.	LAUnov		Pukatea	Endemic
Lemna disperma	OBL	Hegelm.	LEMmin	*Lemna minor*	Duckweed	Non-endemic

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Leontodon taraxacoides	FAC	(Vill.) Mérat	LEOtar		Hawkbit	Exotic
Lepidosperma australe	FACW	(A.Rich.) Hook.f.	LEPaus		Square sedge	Endemic
Lepidosperma laterale	FACU	R.Br.	LEPlat			Non-endemic
Lepidosperma neozelandicum	FACW	(Kük.) R.L.Barrett & K.L.Wilson	LEPfil	*Lepidosperma filiforme*		Non-endemic
Lepidothamnus laxifolius	FAC	(Hook.f.) Quinn	LEPlax	*Dacrydium laxifolium*	Pygmy pine	Endemic
Lepidothamnus intermedius	FAC	(Kirk) Quinn	LEPint	*Dacrydium intermedium*	Yellow-silver pine	Endemic
Lepilaena bilocularis	OBL	Kirk	LEPbil			Non-endemic
Leptecophylla robusta	FACW	(Hook.f.) C.M.Weiller	CYArob	*Cyathodes robusta*		Endemic
Leptinella dioica	FACU	Hook.f.	LEPdio	*Cotula dioica*		Endemic
Leptinella dispersa	FACU	(D.G.Lloyd) D.G.Lloyd & C.J.Webb	LEPdis	*Cotula dispersa*		Endemic
Leptinella maniototo	FACW	(Petrie) D.G.Lloyd & C.J.Webb	LEPman	*Cotula maniototo*		Endemic
Leptinella potentillina	FAC	F.Muell.	LEPpot	*Cotula potentillina*		Endemic
Leptinella squalida subsp. mediana	FACW	(D.G.Lloyd) D.G.Lloyd & C.J.Webb	LEPmed	*Cotula squalida subsp. mediana*		Endemic
Leptinella squalida subsp. squalida	FACW	Hook.f.	LEPsqu	*Cotula squalida (Hook.f.) Hook.*		Endemic
Leptospermum scoparium	FAC	J.R.Forst. & G.Forst.	LEPsco		Mānuka	Non-endemic
Leucopogon fasciculatus	FACU	(G.Forst.) A.Rich.	Lufas	*Cyathodes fasciculata*	Mingimingi	Endemic
Leycesteria formosa	UPL	Wall.	LEYfor		Himalayan honeysuckle	Exotic
Libertia peregrinans	FACU	Cockayne & Allan	LIBper			Endemic
Ligustrum sinense	FACU	Lour.	LIGsin		Chinese privet	Exotic
Lilaeopsis novae-zelandiae	OBL	(Gand.) A.W.Hill	LILnov	*Lilaeopsis orbicularis*		Non-endemic
Lilaeopsis ruthiana	OBL	Affolter	LILrut			Non-endemic
Limosella curdieana	OBL	F.Muell.				Exotic
Limosella lineata	OBL	Glück	LIMlin			Non-endemic

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Lindsaea linearis	UPL	Sw.	LINlin			Non-endemic
Linum catharticum	FACU	L.	LINcat		Purging flax	Exotic
Liparophyllum gunnii	OBL	Hook.f.	LIPgun			Non-endemic
Lobelia anceps	FACW	L.f.	LOBanc			Non-endemic
Lobelia angulata	FAC	G.Forst.	LOBang		Panakenake	Endemic
Lobelia arenaria	FAC	(Hook.f.) Heenan & de Lange	LOBare	*Pratia arenaria*		Endemic
Lobelia fatiscens	OBL	Heenan		*Isotoma fluviatilis (Australian endemic)*		Endemic
Lobelia ionantha	OBL	Heenan	LOBion	*Hypsela rivalis*		Endemic
Lobelia perpusilla	FACW	Hook.f.	LOBper	*Pratia perpusilla*		Endemic
Lonicera japonica	FACU	Thunb.	LONjap		Japanese honeysuckle	Exotic
Lotus corniculatus	FACU	L.	LOTcor			Exotic
Lotus pedunculatus	FAC	Cav.	LOTped		Lotus	Exotic
Ludwigia palustris	OBL	(L.) Elliott	LUDpal		Water purslane	Exotic
Ludwigia peploides subsp. montevidensis	OBL	(Spreng.) P.H.Raven	LUDpep		Primrose willow	Exotic
Lupinus arboreus	UPL	Sims	LUParp		Tree lupin	Exotic
Luzula congesta	FACU	(Thuill.) Lej.	LUZcon			Exotic
Luzula crinita		Hook.f.	LUZcri			Non-endemic
Luzula leptophylla	OBL	Buchenau & Petrie	LUZlep			Endemic
Luzula multiflora	FACU	(Retz.) Lej.	LUZmul			Exotic
Luzula picta var. limosa	FAC	Edgar	LUZpvl			Endemic
Luzula pumila	UPL	Hook.f.	LUZpum			Endemic
Lycopodiella cernua	FAC	(L.) Pic.Serm.	LYCcer	*Lycopodium cernuum*		Non-endemic
Lycopodiella diffusa	OBL	(R.Br.) B.Øllg.	LYCdif	*Lycopodium ramulosum, Lycopodiella ramulosa*	Carpet clubmoss	Endemic
Lycopodiella lateralis	OBL	(R.Br.) B.Øllg.	LYClat	*Lycopodium laterale*		Non-endemic
Lycopodiella serpentina	OBL	(Kunze) B.Øllg.	LYCser	*Lycopodium serpentinum*	Bog clubmoss	Non-endemic
Lycopodium fastigiatum	FAC	R.Br.	LYCfas		Alpine clubmoss	Non-endemic

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Lycopodium volubile	FACU	G.Forst.	LYCvol		Climbing clubmoss	Non-endemic
Lycopus europaeus	OBL	L.	LYCeur		Gypsywort	Exotic
Lythrum hyssopifolia	FACW	L.	LYThys		Loosestrife	Exotic
Lythrum junceum	FAC	Banks & Sol.	LYTjun		Rose loosestrife	Exotic
Lythrum portula	OBL	(L.) D.A.Webb	LYTpor		Water purslane	Exotic
Lythrum salicaria	FACW	L.	LYTsal		Purple loosestrife	Exotic
Machaerina arthrophylla	OBL	(Nees) T.Koyama	BAUhut	*Baumea arthrophylla, B. huttonii*		Non-endemic
Machaerina articulata	OBL	(R.Br.) T.Koyama	BAUart	*Baumea articulata*	Jointed twig rish	Non-endemic
Machaerina complanata	FACW	(Berggr.) S.T.Blake	BAUcom	*Baumea complanata*		Endemic
Machaerina juncea	FACW	(R.Br.) T.Koyama	BAUjun	*Baumea juncea*		Non-endemic
Machaerina rubiginosa	OBL	(Spreng.) T.Koyama	BAUrub	*Baumea rubiginosa*		Non-endemic
Machaerina sinclairii	OBL	(Hook.f.) T.Koyama	MACsin			Non-endemic
Machaerina tenax	FACW	(Hook.f.) T.Koyama	BAUten	*Baumea tenax*		Endemic
Machaerina teretifolia	FACW	(R.Br.) T.Koyama	BAUter	*Baumea teretifolia*		Non-endemic
Macropiper excelsum	UPL	(G.Forst.) Miq.	MACexc		Kawakawa	Endemic
Manoao colensoi	FACW	(Hook.) Molloy	MANcol	*Lagarostrobos colensoi, Dacrydium colensoi*	Silver pine, Manoao	Endemic
Marsilea mutica	OBL	Mett.			Four-leafed water clover	Exotic
Marsippospermum gracile	FAC	(Hook.f.) Buchenau	MARgra			Endemic
Mazus arenarius	FACW	Heenan, P.N.Johnson, & C.J.Webb	MAZare			Endemic
Mazus pumilio	FACW	R.Br.	MAZpum			Non-endemic
Mazus radicans	FACW	(Hook.f.) Cheeseman	MAZrad			Endemic
Melicytus chathamicus	UPL	(F.Muell.) Garn.-Jones	MELcha			Endemic
Melicytus flexuosus	FACU	Molloy et A.P.Druce				Endemic

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Melicytus ramiflorus	FACU	J.R.Forst. & G.Forst.	MELram		Mahoe	Non-endemic
Mentha cunninghamii	FACU	Benth.	MENcun		Native mint, moki	Endemic
Mentha pulegium	FAC	L.	MENpul		Pennyroyal	Exotic
Mentha spicata	FACU	L.	MENspi		Spearmint	Exotic
Mentha spicata subsp. tomentosa	FAC	(Briq.) Harley				Exotic
Mentha suaveolens	FACU	Ehrh.	MENsua		Apple mint	Exotic
Mentha X piperita var. citrata	FACW	(Ehrh.) Briq.			Bergamot mint	Exotic
Mentha X piperita var. piperita	FACW	L.	MENpvp		Peppermint	Exotic
Menyanthes trifoliata	OBL	L.	MENtri		Bogbean	Exotic
Metrosideros excelsa	UPL	Sol. ex Gaertn.	METexc		Pohutukawa	Endemic
Metrosideros umbellata	UPL	Cav.	METumb		Southern rata	Endemic
Microlaena stipoides	FACU	(Labill.) R.Br.	MICsti		Meadow rice grass	Non-endemic
Microseris scapigera	FAC	(Sol. ex A.Cunn.) Sch.Bip.	MICsca			Non-endemic
Microsorum novae-zealandiae	UPL	(Baker) Copel.	PHYnov	*Phymatosorus novae-zealandiae*		Endemic
Microsorum pustulatum	UPL	(G.Forst.) Copel.	MICpus	*Phymatosorus diversifolius*	Hound's tongue	Non-endemic
Microsorum scandens	UPL	(G.Forst.) Tindale	MICscn	*Phyamtosorus scandens*	Fragrant fern	Non-endemic
Microtis oligantha	FAC	L.B.Moore	MIColi			Endemic
Microtis parviflora	FAC	R.Br.	*MICpar*			Non-endemic
Microtis unifolia	FAC	(G.Forst.) Rchb.f.	MICuni	*Microtis unifolia*	Onion orchid	Non-endemic
Mitrasacme montana var. helmsii	OBL	Kirk				Endemic
Mitrasacme novae-zelandiae	OBL	Hook.f.	MITnov			Endemic
Montia campylostigma	FAC	(Heenan) Heenan				Endemic
Montia fontana L. subsp. fontana	OBL	L.	MONfon		Blinks	Non-endemic
Montia fontana subsp. chondrosperma	OBL	(Fenzl) Walters				Exotic
Montia sessiliflora	FACW	(G.Simpson) Heenan	MONses	*Claytonia australasica var. sessiliflora*		Endemic

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Montitega dealbata	FACU	(R.Br.) C.M.Weiller	CYTdea	*Cyathodes pumila, Cyathodes dealbata*		Endemic
Muehlenbeckia australis	FACU	(G.Forst.) Meisn.	MUEaus		Pohuehue	Non-endemic
Muehlenbeckia complexa	FACU	(A.Cunn.) Meisn.	MUEcom		Pohuehue	Non-endemic
Myoporum laetum	UPL	G.Forst.	MYOlae		Ngaio	Endemic
Myosotis discolor	FACU	Pers.	MYOdis			Exotic
Myosotis laxa subsp. caespitosa	OBL	(Schultz) Hyl. ex Nordh.	MYOlsc	*Myosotis caespitosa*	Water forget-me-not	Exotic
Myosotis scorpioides	FACW	L.	MYOsco		Water forget-me-not	Exotic
Myosurus minimus subsp. novae-zelandiae	FACW	(W.R.B.Oliv.) Garn.-Jones	MYOnov		Mousetail	Endemic
Myriophyllum aquaticum	OBL	(Vell.) Verdc.	MYRaqu		Parrot's feather	Exotic
Myriophyllum pedunculatum subsp. novae-zelandiae	OBL	Orchard	MYRped			Endemic
Myriophyllum propinquum	OBL	A.Cunn.	MYRpro			Non-endemic
Myriophyllum robustum	OBL	Hook.f.	MYRrob			Endemic
Myriophyllum triphyllum	OBL	Orchard	MYRtri			Endemic
Myriophyllum votschii	OBL	Schindl.	MYRvot			Endemic
Myrsine australis	FACU	(A.Rich.) Allan	MYRaus		Mapou	Endemic
Myrsine chathamica	FAC	F.Muell.	MYRcha			Endemic
Myrsine coxii	FACW	Cockayne	MYRcox			Endemic
Myrsine divaricata	FAC	A.Cunn.	MYRdiv		Weeping mapou	Endemic
Nasturtium microphyllum	OBL	Boenn. ex Rchb.	RORmic	*Rorippa microphylla*	Water cress	Exotic
Nasturtium officinale	OBL	R.Br.	RORnas	*Rorippa nasturtium-aquaticum*	Water cress	Exotic
Nematoceras macranthum	FACW	Hook.f.	CORmac	*Corybas macranthus*		Endemic
Nematoceras orbiculatum	FAC	(Colenso) Molloy, D.L.Jones & M.A.Clem.	CorOrb	*Corybas orbiculatus*		Endemic
Neomyrtus pedunculata	FAC	(Hook.f.) Allan	NEOped		Rohutu	Endemic
Nephrolepis cordifolia	FAC	(L.) C.Presl	NEPcor		Erect sword fern	Exotic

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Nephrolepis flexuosa	FACU	Colenso			Ladder fern	Non-endemic
Nerine sarniensis	UPL				Guernsey lily	Exotic
Nertera balfouriana	FACW	Cockayne	NERbal			Endemic
Nertera ciliata	FAC	Kirk	NERcil			Endemic
Nertera depressa	FACU	Banks & Sol. ex Gaertn.	NERdep			Non-endemic
Nertera scapanioides	OBL	Lange	NERsca			Endemic
Nertera setulosa	FAC	Hook.f.	NERset			Endemic
Nothofagus solandri var. cliffortioides	FAC	(Hook.f.) Poole	NOTcli		Mountain beech	Endemic
Nuphar lutea	OBL	(L.) Sibth. & Sm.	NUPlut		Yellow water lily	Exotic
Nymphaea alba	OBL	L.	NYMalb		White water lily	Exotic
Nymphaea mexicana	OBL	Zucc.	NYMmex		Mexican water lily	Exotic
Nymphoides geminata	OBL	(R.Br.) Kuntze	NYMgem		Marshwort	Exotic
Oenanthe aquatica	OBL	(L.) Poir.	OENaqu		Horsebane	Exotic
Oenanthe sarmentosa	OBL	DC.	OENsar		American horsebane	Exotic
Olearia bullata	FAC	H.D.Wilson & Garn.-Jones	OLEbul			Endemic
Olearia laxiflora	FACW	Kirk	OLElax	*Olearia divaricata*		Endemic
Olearia lineata	FACU	(Kirk) Cockayne	OLElin			Endemic
Olearia nummulariifolia	UPL	(Hook.f.) Hook.f.	OLEnum		Coin-leaved tree daisy	Endemic
Olearia semidentata	OBL	Decne.	OLEsem			Endemic
Olearia solandri	FACW	(Hook.f.) Hook.f.	OLEsol			Endemic
Olearia virgata	FACU	(Hook f.) Hook. f.	OLEvir			Endemic
Ophioglossum coriaceum	FAC	A.Cunn.	OPHcor		Adder's tongue	Non-endemic
Ophioglossum petiolatum	FACW	Hook.	OPHpet	*Ophioglossum pedunculosum sensu*	Stalked adder's tongue	Non-endemic
Oplismenus hirtellus subsp. Imbecillis	FACU	(R.Br.) U. Scholz	OPLimb	*Oplismenus imbecillis*		Non-endemic
Oreobolus impar	OBL	Edgar	OREimp			Endemic
Oreobolus pectinatus	OBL	Hook.f.	OREpec		Comb sedge	Endemic
Oreobolus strictus	OBL	Berggr.	OREstr			Endemic
Oreostylidium subulatum	OBL	(Hook.f.) Berggr.	OREsub			Endemic

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Ornithopus pinnatus	UPL	(Mill.) Druce	ORNpin		Yellow seradella	Exotic
Osmunda regalis	OBL	L.	OSMreg		Royal fern	Exotic
Ottelia ovalifolia	OBL	(R.Br.) Rich.	OTTOVAova		Swamp lily	Exotic
Ourisia modesta	FACW	Diels	OURmod			Endemic
Oxalis corniculata	FACU	L.	OXAcor		Hornwort	Exotic
Oxalis exilis	FAC	A.Cunn.	OXAexi			Non-endemic
Oxalis magellanica	FAC	G.Forst.	OXAmag	*Oxalis lactea*		Non-endemic
Oxybasis glauca subsp. ambigua	FACU	(R.Br.) Mosyakin		*Chenopodium ambiguum, Chenopodium glaucum subsp. ambiguum*		Non-endemic
Ozothamnus leptophyllus	FAC	(G.Forst.) Breitw. & J.M.Ward	OZOlep	*Cassinia leptophylla, C. vauvilliersii*	Tauhinu	Endemic
Paesia scaberula	FACU	(A.Rich.) Kuhn	PAEsca		Ring fern	Endemic
Parahebe canescens	FACW	(A.Wall) W.R.B.Oliv.	PARcan			Endemic
Parapholis incurva	FACW	(L.) C.E.Hubb.	PARinc			Exotic
Paraserianthes lophantha	UPL	(Willd.) I.C.Nielsen	PARlop	*Albizia lophantha*	Brush wattle	Exotic
Parentucellia viscosa	FACU	(L.) Caruel	PARvis		Tarweed	Exotic
Paspalum dilatatum	FACU	Poir.	PASdil		Mercer grass	Exotic
Paspalum distichum	FACW	L.	PASdis	*Paspalum paspaloide*	Paspalum	Exotic
Paspalum vaginatum	FACW	Sw.	PASvag		Saltwater paspalum	Exotic
Pastinaca sativa	FACU	L.	PASsat		Wild parsnip	Exotic
Pentachondra pumila	FAC	(J.R.Forst. & G.Forst.) R.Br.	PENpum			Non-endemic
Persicaria decipiens	OBL	(R.Br.) K.L.Wilson	PERdec	*Polygonum decipiens, P. salicifolium*		Non-endemic
Persicaria hydropiper	FACW	(L.) Spach	PERhyd	*Polygonum hydropiper*	Water pepper	Exotic
Persicaria lapathifolia	FAC	(L.) Gray	PERlap	*Polygonum lapathifolium*		Exotic
Persicaria maculosa	FACW	Gray	PERmcl	*Polygonum persicaria*	Willow weed	Exotic
Persicaria prostrata	FACW	(RBr.) Sojak	PERpro	*Polygonum prostratum*		Exotic
Persicaria punctata	FACW	(Elliott) Small	PERpun	*Polygonum punctatum*		Exotic
Persicaria strigosa	FACW	(RBr.) Gross	PERstr	*Polygonum strigosum*		Exotic
Phalaris aquatica	FAC	L.	PHAaqu		Phalaris	Exotic

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Phalaris arundinacea	FACW	L.	PHAaru		Reed canary grass	Exotic
Phleum pratense	FACU	L.	PHLpra		Timothy	Exotic
Phormium cookianum	FACU	Le Jol.	PHOcoo		Mountain flax	Endemic
Phormium tenax	FACW	J.R.Forst. & G.Forst.	PHOten		Harakeke, flax	Endemic
Phragmites australis	OBL	(Cav.) Trin. ex Steud.	PHRaus		Phragmites	Exotic
Phyllachne colensoi	FAC	(Hook.f.) Berggr.	PHYcol			Non-endemic
Phyllitis scolopendrium	DELETE?	(L.) Newman	PHYsco	*Asplenium scolopendrium*	Hart's tongue	Exotic
Phyllocladus alpinus	FACU	(Hook.f.) Parl in DC.	PHYalp		Mountain toatoa	Endemic
Phyllocladus trichomanoides	FACU	D.Don	PHYtri		Tanekaha	Endemic
Pilosella caespitosa	UPL	(Dumort.) P.D.Sell & C.West	PILcae	*Hieracium caespitosum*		Exotic
Pilosella officinarum	FACU	Vaill.	PILoff	*Hieracium pilosella*	Mouse-ear hawkweed	Exotic
Pilosella piloselloides (Vill.) Sojaksubsp. praealta	UPL	(Gochnat) S.Bräut. & Greuter	PILpsp	*Hieracium praealtum*	King devil	Exotic
Pilularia novae-hollandiae	OBL	A.Braun	PILnov		Pillwort	Non-endemic
Pimelea lyallii	FACU	Hook.f.	PIMlya			Endemic
Pistia stratiotes	OBL	L.	PISstr		Water lettuce	Exotic
Pittosporum colensoi	FACU	Hook.f.	PITcol			Endemic
Pittosporum obcordatum	FAC	Raoul	PITobc		Heart-leaved kohuhu	Endemic
Pittosporum tenuifolium	FACU	Sol. ex Gaertn.	PITten		Kohuhu	Endemic
Plagianthus divaricatus	FACW	J.R.Forst. & G.Forst.	PLAdiv		Saltmarsh ribbonwood	Endemic
Plagianthus regius subsp. regius	FACU	(Poit.)Hochr.	PLArsr		Manatu, lowland ribbonwood	Endemic
Plantago australis	FAC	Lam.	PLAaus		Swamp plantain	Exotic
Plantago coronopus	FAC	L.	PLAcor		Buck's horn plantain	Exotic
Plantago lanceolata	FACU	L.	PLAlan		Narrow-leaved plantain	Exotic
Plantago lanigera	FAC	Hook.f.	PLAlng			Non-endemic

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Plantago major	FACU	L.	PLAmaj		Broad-leaved plantain	Exotic
Plantago novae-zelandiae	FAC	L.B.Moore	PLAnov			Endemic
Plantago obconica	OBL	Sykes	PLAobc			Endemic
Plantago raoulii	FAC	Decne.	PLArao			Endemic
Plantago spathulata	FACU	Hook.f.	PLAspa			Endemic
Plantago triandra	FACW	Berggr.	PLAtri	*Plantago triandra subsp. triandra, P. triandra subsp. masoniae*		Endemic
Plantago unibracteata	OBL	Rahn	PLAuni	*Plantago uniflora*		Endemic
Pneumatopteris pennigera	FACU	(G.Forst.) Holttum	PNEpen	*Thelypteris pennigera*	Gully fern	Non-endemic
Poa annua	FACU	L.	POAann		Annual poa	Exotic
Poa chathamica	FAC	Petrie	POAcha			Endemic
Poa cita	FACU	Edgar	POAcit		Silver tussock	Endemic
Poa palustris	FACW	L.	POApal		Swamp poa	Exotic
Poa pratensis	FACU	L.	POApra		Kentucky bluegrass	Exotic
Podocarpus cunninghamii	FACU	Colenso	PODcun	*Podocarpus hallii*	Mountain totara, Hall's totara	Endemic
Podocarpus totara var. totara	FACU	G.Benn. Ex D.Don	PODtot		Totara	Endemic
Polypogon monspeliensis	FAC	(L.) Desf.	POLmon		Montpellier broom	Exotic
Polystichum vestitum	FACU	(G.Forst.) C.Presl	PLOves		Prickly shieldfern	Non-endemic
Potamogeton cheesemanii	OBL	A.Benn.	POTche		Red pondweed, manihi	Non-endemic
Potamogeton crispus	OBL	L.	POTcri		Curly pondweed	Exotic
Potamogeton ochreatus	OBL	Raoul	POToch		Blunt pondweed	Non-endemic
Potamogeton suboblongus	OBL	Hagstr.	POTsub		Mud pondweed, rerewai	Endemic
Potentilla anglica	FAC	Laichard.	POTANGang			Exotic
Potentilla anserinoides	FACW	Raoul	POTans		Silverweed	Endemic
Potentilla reptans	FAC	L.	POTrep			Exotic
Prasophyllum colensoi	FAC	Hook.f.	PRAcol		Leek orchid	Endemic

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Prasophyllum hectorii	OBL	(Buchanan) Molloy, D.L.Jones & M.A.Clem.	PRApat	*Prasophyllum patens*		Endemic
Prunella vulgaris	FACU	L.	PRUvul		Self-heal	Exotic
Pseudopanax arboreus	UPL	(Murray) Philipson	PSEarb		Five-finger	Endemic
Pseudopanax chathamicus	FACU	Kirk	PSEcha			Endemic
Pseudopanax colensoi	UPL	(Hook.f.) Philipson	NEOcol		Three-finger	Endemic
Pseudopanax crassifolius	FACU	(Sol. ex A.Cunn.) K.Koch	PSEcra		Lancewood	Endemic
Pseudopanax ferox	UPL	Kirk	PSEfer		Fierce lancewood	Endemic
Psychrophila obtusa	OBL	(Cheeseman) W.A.Weber	CALobt	*Caltha obtusa*	White caltha	Endemic
Pteridium esculentum	FACU	(G.Forst.) Cockayne	PTEesc		Bracken	Non-endemic
Pterostylis micromega	OBL	Hook.f.	PTEmic			Endemic
Puccinellia distans	FACW	(L.) Parl.	PUCdis			Exotic
Puccinellia fasciculata	FACW	(Torr.) E.P.Bicknell	PUCfas			Exotic
Puccinellia stricta	FAC	(Hook.f.) Blom	PUCstr		Saltgrass	Non-endemic
Pycreus polystachyos	FACW	(Rottb.) P.Beauv.		*Cyperus polystachus*		Exotic
Pycreus sanguinolentus	FAC	(Vahl.) Nees				Exotic
Pyrrosia eleagnifolia	UPL	(Bory) Hovenkamp	PYRele		Leatherleaf	Endemic
Quintinia serrata	UPL	A.Cunn.	QUIser		Tawheowheo	Endemic
Ranunculus acaulis	FACW	DC.	RANaca		Sand buttercup	Non-endemic
Ranunculus acris	FAC	L.	RANacr		Meadow buttercup	Exotic
Ranunculus amphitrichus	OBL	Colenso	RANamp		Waoriki	Non-endemic
Ranunculus brevis	OBL	Garn.-Jones	RANbre	*Ranunculus depressus*		Endemic
Ranunculus bulbosus	FAC	L.	RANbul		Bulbous buttercup	Exotic
Ranunculus carsei	OBL	Petrie	RANcar			Endemic
Ranunculus cheesemanii	OBL	Kirk	RANche			Endemic
Ranunculus flammula	FACW	L.	RANfla		Spearwort	Exotic
Ranunculus foliosus	FAC	Kirk	RANfol			Endemic
Ranunculus glabrifolius	OBL	Hook.	RANgla			Non-endemic

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Ranunculus gracilipes	FACW	Hook.f.	RANgra			Endemic
Ranunculus kirkii	FACW	Petrie	RANkir			Endemic
Ranunculus limosella	OBL	Kirk	RANlim			Endemic
Ranunculus macropus	OBL	Hook.f.	RANmar		Swamp buttercup	Endemic
Ranunculus maculatus	OBL	Cockayne & Allan	RANmcl			Endemic
Ranunculus membranifolius	FAC	(Kirk) Garn.-Jones	RABmem	*Ranunculus hirtus var. membranifolius*		Endemic
Ranunculus multiscapus	UPL	Hook.f.	RANbpm			Endemic
Ranunculus ophioglossifolius	OBL	Vill.	RANoph			Exotic
Ranunculus ranceorum	OBL	de Lange	RANran			Endemic
Ranunculus recens	FAC	Kirk	RANrec			Endemic
Ranunculus reflexus	FACU	Garn.-Jones	RANref	*Ranunculus hirtus*		Endemic
Ranunculus repens	FAC	L.	RANrep		Creeping buttercup	Exotic
Ranunculus sardous	FAC	Crantz	RANsar		Hairy buttercup	Exotic
Ranunculus sceleratus	OBL	L.	RANsce		Celery buttercup	Exotic
Ranunculus simulans	FAC	Garn.-Jones	RANsim	*Ranunculus depressus var. stewartiae*		Endemic
Ranunculus ternatifolius	FACW	Kirk	RANter			Endemic
Ranunculus trichophyllus	OBL	Chaix	RANtri	*Ranunculus fluitans*	Water buttercup	Exotic
Ranunculus urvilleanus	FACW	Cheeseman	RANurv			Endemic
Ranunculus verticillatus	FAC	Kirk	RANver			Endemic
Raukaua anomalus	FACU	(Hook.) A.D.Mitch., Frodin & Heads	RAUano	*Pseudopanax anomalus*		Endemic
Raukaua simplex	UPL	(G.Forst.) A.D.Mitch., Frodin & Heads	RAUsim	*Pseudopanax simplex*	Haumakaroa	Endemic
Rhopalostylis sapida	FACU	H.Wendl. & Drude	RHOsap		Nikau	Endemic
Ripogonum scandens	FACU	J.R.Forst. & G.Forst.	RIPsca		Supplejack	Endemic
Rorippa amphibia	FACW	(L.) Besser	RORamp		Tall yellow cress	Exotic
Rorippa palustris	OBL	(L.) Besser	RORPALpal	*Rorippa islandica*	Marsh yellow cress, poniu	Non-endemic
Rorippa sylvestris	FAC	(L.) Besser	RORsyl		Creeping yellow cress	Exotic
Rosa rubiginosa	UPL	L.	ROSrub		Sweet briar	Exotic

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Rostkovia magellanica	FACW	(Lam.) Hook.f.	ROSmag			Non-endemic
Rubus argutus	FACU	Link	RUBarg			Exotic
Rubus australis	FAC	G.Forst.	RUBaus		Swamp lawyer	Endemic
Rubus cissoides	FACU	A.Cunn.	RIUBcis		Bush lawyer	Endemic
Rubus fruticosus	FACU	L.	RUBfru		Blackberry	Exotic
Rubus schmidelioides	FAC	A.Cunn.	RUBsch		Tataramoa, Bush lawyer, White-leaved lawyer	Endemic
Rumex acetosa	FAC	L.			Sorrel	Exotic
Rumex acetosella	FACU	L.	RUMace		Sheep's sorrel	Exotic
Rumex conglomeratus	FAC	Murray	RUMcon		Clustered dock	Exotic
Rumex crispus	FAC	L.	RUMcri		Curled dock	Exotic
Rumex flexuosus	FAC	Spreng.	RUMfle			Endemic
Rumex frutescens	FACW	Thouars	RUMfru		Argentine dock	Exotic
Rumex neglectus	FACW	Kirk	RUMneg			Endemic
Rumex obtusifolius	FAC	L.	RUMobt		Broad-leaved dock	Exotic
Rumex sagittatus	FACU	Thunb.	RUMsag		Cimbing dock	Exotic
Rumohra adiantiformis	UPL	(G.Forst.) Ching	RUMadi		Buckler fern	Non-endemic
Ruppia megacarpa	OBL	R.Mason	RUPmeg			Non-endemic
Ruppia polycarpa	OBL	R.Mason	RUPpol			Non-endemic
Rytidosperma gracile	FACU	(Hook.f.) Connor & Edgar	RYTgra		Danthonia	Non-endemic
Rytidosperma nigricans	FACW	(Petrie) Connor & Edgar	RYTnig			Endemic
Rytidosperma nudum	OBL	(Hook.f.) Connor & Edgar	RYTnud			Endemic
Rytidosperma pulchrum	OBL	(Zotov) Connor & Edgar	RYTpul			Endemic
Sagina procumbens	FACU	L.	SAGpro		Pearlwort	Exotic
Salix ×reichardtii	FACW	A.Kern.	SALxre		Pussy willow	Exotic
Salix alba L. var. alba	FACW	L.	SALalb		White willow	Exotic
Salix alba var. vitellina	FACW	(L.) Stokes			Golden willow	Exotic
Salix babylonica	FACW	L.	SALbab		Weeping willow	Exotic
Salix caprea	FACW	L.	SALcap		Goat willow	Exotic

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Salix cinerea subsp. oleifolia	FACW	(Sm.) Macreight			Grey willow	Exotic
Salix elaeagnos	FACW	Scop.	SALela			Exotic
Salix fragilis	FACW	L.	SALfra		Crack willow	Exotic
Salix purpurea	FACW	L.	SALpur		Purple osier	Exotic
Salix viminalis	FACW	L.	SALvim		Osier	Exotic
Salvinia molesta	OBL	D.S.Mitch.	SALmol	*Salvinia herzogii*	Kariba weed	Exotic
Sambucus nigra	FACU	L.	SAMnig		Elder	Exotic
Samolus repens	FAC	(J.R.Forst. & G.Forst.) Pers.	SAMrep		Sea primrose	Non-endemic
Sarcocornia quinqueflora	FACW	(Bunge ex Ung.-Sternb.) A.J.Scott	SARqui	*Salicornia australis*	Glasswort	Non-endemic
Schedonorus arundinaceus	FAC	(Schreb.) Dumort.	SCHaru	*Schedonorus phoenix, Festuca arundinacea*	Tall fescue	Exotic
Schizaea australis	FAC	Gaudich.	SCHaus		Southern comb fern	Non-endemic
Schizaea bifida	FAC	Willd.	SCHbif		Forked comb fern	Non-endemic
Schizaea fistulosa	FAC	Labill.	SCHfis		Comb fern	Non-endemic
Schizeilema cockaynei	FACW	(Diels) Cheeseman	SCHcoc			Endemic
Schizeilema nitens	FACW	(Petrie) Domin	SCHnit			Endemic
Schoenoplectus pungens	OBL	(Vahl) Palla	SCHpun	*Scirpus americanus*	Three-square	Non-endemic
Schoenoplectus tabernaemontani	OBL	(C.C.Gmel.) Palla	SCHtab	*Schoenoplectus validus, Scirpus lacustris*	Lake sedge, kuta	Non-endemic
Schoenus apogon	FACW	Roem. & Schult.	SCHapo			Non-endemic
Schoenus brevifolius	FACW	R.Br.	SCHbre			Non-endemic
Schoenus carsei	FACW	Cheeseman	SCHcar			Non-endemic
Schoenus concinnus	FACW	Hook.f.	SCHcon	*Schoenus nitens var. concinnus*		Endemic
Schoenus fluitans	OBL	Hook.f.	SCHflu			Non-endemic
Schoenus maschalinus	FACW	Roem. & Schult.	SCHmas			Non-endemic
Schoenus nitens	FACW	(R.Br.) Roem. & Schult.	SCHnit	*Schoenus nitens var. nitens*		Non-endemic

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Schoenus pauciflorus	FACW	(Hook.f.) Hook.f.	SCHpau		Bog rush	Endemic
Schoenus tendo	FAC	(Hook.f.) Hook.f.	SCHten			Endemic
Scirpus georgianus	FACW	R.M.Harper				Exotic
Scirpus polystachyus	FACW	F.Muell.				Exotic
Scrophularia auriculata	FAC	L.	SCRaur		Figwort	Exotic
Sebaea ovata	FACW	(Labill.) R.Br.	SEBova			Non-endemic
Selaginella kraussiana	FAC	(Kunze) A.Braun	SELkra			Exotic
Selliera microphylla	FACW	Colenso	SELmic			Endemic
Selliera radicans	FACW	Cav.	SELrad		Remuremu	Endemic
Senecio bipinnatisectus	FACU	Belcher	SENbip		Fireweed	Exotic
Senecio glomeratus	FACU	Poir.	SENglo			Non-endemic
Senecio minimus	FACU	Poir.	SENmin			Non-endemic
Simpliglottis cornuta	FACU	(Hook.f.) Szlach.	SIMcor	*Chiloglottis cornuta*		Endemic
Sisyrinchium iridifolium	FAC	Kunth	SISiri			Exotic
Solanum dulcamara	FACU	L.	SOLdul		Bittersweet	Exotic
Solanum nigrum	FACU	L.	SOLnig		Black nightshade	Exotic
Solanum nodiflorum	FACU	Jacq.	SOLame			Non-endemic
Sonchus asper	FACU	(L.) Hill	SONasp		Prickly sowthistle	Exotic
Sophora microphylla	FACU	Aiton	SOPmic		Kowhai	Endemic
Sparganium subglobosum	OBL	Morong	SPAsub		Burr-reed, maru	Non-endemic
Spartina alterniflora	OBL	Loisel.	SPAalt		Smooth cord grass	Exotic
Spartina anglica	OBL	C.E.Hubb.	SPAang		Cord grass	Exotic
Spartina X townsendii	OBL	H.Groves & J.Groves	SPAtow			Exotic
Spergularia marina	FAC	(L.) Griseb.	SPEmar		Sea spurrey	Exotic
Spergularia media	FAC	(L.) C.Presl	SPEmed		Sea spurrey	Non-endemic
Sphagnum species	OBL		SPHxxx		Sphagnum	Non-endemic
Spiranthes aff. novae-zelandiae (CHR 518297; Motutangi	FACW					Uncertain

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Spiranthes novae-zelandiae	FACW	(R.Br.) H.Hara & Kitam.	SPInov	*Spiranthes sinensis var. australis*	Ladies tresses	Endemic
Sporadanthus ferrugineus	OBL	de Lange, Heenan & B.D.Clarkson	SPOfer		Bamboo rush, cane rush	Endemic
Sporadanthus traversii	OBL	(F.Muell.) F.Muell. ex Kirk	SPOtra		Chatham Island bamboo rush	Endemic
Sprengelia incarnata	FACW	Sm.	SPRinc		Pink swamp heath	Non-endemic
Stackhousia minima	FAC	Hook.f.	STAmin			Endemic
Stegostyla lyallii	FACU	(Hook.f.) D.L.Jones et M.A.Clem.	STElya	*Caladenia lyallii*		Endemic
Stellaria alsine	FACW	Grimm	STEals		Bog stitchwort	Exotic
Stellaria graminea	FAC	L.	STEgra		Stitchwort	Exotic
Stuckenia pectinata	OBL	(L.) Börner	POTpec	*Potamogeton pectinatus*		Non-endemic
Suaeda novae-zelandiae	FAC	Allan	SUAnov		Sea blite	Endemic
Symphyotrichum subulatum	FAC	(Michx.) G.L.Nesom	ASTsbl	*Aster subulatus*	Sea aster	Exotic
Syzygium maire	OBL	(A.Cunn.) Sykes & Garn.-Jones	SYZmai	*Eugenia maire*	Swamp maire	Endemic
Tetrachondra hamiltonii	FACW	Petrie ex Oliv.	TETham			Endemic
Tetraria capillaris	FACW	(F.Muell.) J.M.Black	TETcap		Hair sedge	Non-endemic
Thelymitra aemula	FAC	Cheeseman	THEaem		Gumland sun orchid	Endemic
Thelymitra cyanea	FACW	(Lindl.) Benth.	THEcya	*Thelymitra venosa*	Veined sun orchid	Non-endemic
Thelymitra formosa	FAC	Colenso	THEfor			Non-endemic
Thelymitra ixioides	FAC	Sw.	THEixi			Non-endemic
Thelymitra malvina	FACW	M.A.Clem., D.L.Jones et Molloy			Mauve sun orchid	Non-endemic
Thelymitra pulchella	FACW	Hook.f.	THEpul			Endemic
Thelymitra sanscilia	FACU	Irwin ex Hatch			Sun orchid	Endemic
Thelypteris confluens	OBL	(Thunb.) C.V.Morton	THEcon	*Thelypteris palustris var. squamigera*	Marsh fern	Non-endemic
Thyridia repens	FACW	(R.Br.) W.R.Barker & Beardsley	MIMrep	*Mimulus repens*		Non-endemic

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Trichomanes reniforme	UPL	G.Forst.	TRIren	*Cardiomanes reniforme*	Kidney fern	Endemic
Trifolium arvense	UPL	L.	TRIarv		Haresfoot clover	Exotic
Trifolium dubium	UPL	Sibth.	TRIdub		Suckling clover	Exotic
Trifolium pratense	FACU	L.	TRIpra		Red clover	Exotic
Trifolium repens	FACU	L.	TRIrep		White clover	Exotic
Triglochin palustris	OBL	L.	TRIpls			Non-endemic
Triglochin striata	OBL	Ruiz & Pav.	TRIstr		Arrow grass	Non-endemic
Trithuria inconspicua	OBL	Cheeseman	HYDinc	*Hydatella inconspicua*		Endemic
Typha orientalis	OBL	C.Presl	TYPori		Raupo	Non-endemic
Ulex europaeus	FACU	L.	ULEeur		Gorse	Exotic
Uncinia divaricata	FAC	Boott	UNCdic			Endemic
Uncinia egmontiana	FACW	Hamlin	UNCegm			Endemic
Uncinia nervosa	FACW	Boott	UNCner			Non-endemic
Uncinia rubra	FAC	Boott	UNCrub			Endemic
Uncinia sinclairii	FAC	Boott	UNCsin			Endemic
Uncinia strictissima	FACW	(Kük.) Petrie	UNCstr			Endemic
Uncinia uncinata	FACU	(L.f.) Kük.	UNCunc		Hook-sedge	Non-endemic
Urtica linearifolia	FACW	(Hook.f.) Cockayne	URTlin		Swamp nettle	Endemic
Utricularia australis	OBL	R.Br.	UTRaus	*Utricularia protrusa*	Yellow bladderwort	Non-endemic
Utricularia delicatula	OBL	Cheeseman	UTRdel	*Utricularia lateriflora*		Endemic
Utricularia dichotoma	OBL	Labill.	UTRdic	*Utricularia novae-zelandiae, U. monanthos*	Bladderwort	Non-endemic
Utricularia gibba	OBL	L.	UTRbif	*Utricularia biflora*		Exotic
Vallisneria australis	OBL	S.W.L.Jacobs & Les	VALgig	*Vallisneria gigantea*		Exotic
Vellereophyton dealbatum	FACU	(Thunb.) Hilliard & B.L.Burtt	VELdea			Exotic
Veronica americana	OBL	Benth.	VERame		Brooklime	Exotic

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Veronica anagallis-aquatica	OBL	L.	VERana		Water speedwell	Exotic
Veronica catenata	OBL	Pennell	VERact			Exotic
Veronica scutellata	OBL	L.	VERscu		Marsh speedwell	Exotic
Veronica serpyllifolia	FAC	L.	VERser		Turf speedwell	Exotic
Viola cunninghamii	FAC	Hook.f.	VIOcun			Non-endemic
Viola filicaulis	FAC	Hook.f.	VIOfil			Endemic
Viola lyallii	FAC	Hook.f.	VIOlya			Endemic
Vitex lucens	UPL	Kirk	VITluc		Puriri	Endemic
Wahlenbergia albomarginata	FACU	Hook.	WAHalb		Harebell	Endemic
Waireia stenopetala	FAC	(Hook.f.) D.L.Jones, M.A.Clem. & Molloy	LYPant	*Lyperanthus antarcticus*		Endemic
Weinmannia racemosa	FACU	L.f.	WEIrac		Kamahi, Tawheo, Tawhero	Endemic
Weinmannia silvicola	FACU	Sol. ex A.Cunn.	WEIsil		Towai, Tawhero	Endemic
Wolffia australiana	OBL	(Benth.) Hartog & Plas	WOLaus		Watermeal	Non-endemic
Zannichellia palustris	OBL	L.	ZANpal		Horned pondweed	Non-endemic
Zantedeschia aethiopica	FAC	(L.) Spreng.	ZANaet		Arum lily	Exotic
Zizania latifolia	OBL	(Griseb.) Stapf	ZIZlat		Manchurian wild rice	Exotic
Zostera muelleri subsp. capricorni	OBL	(Setch.) S.W.L.Jacobs	ZOScap	*Zostera capricorni*		Uncertain
Zostera muelleri subsp. novazelandica	OBL	(Setch.) S.W.L.Jacobs	ZOSnov	*Zostera novozelandica*		Non-endemic
Zotovia thomsonii	FACW	(Petrie) Edgar & Connor	MICtho	*Microlaena thomsonii*		Endemic

* Standard codes from National Vegetation Survey (NVS) database. Use full names or distinctive abbreviations for species without standard codes.

Endemic: Species occurring naturally (native) only in the New Zealand Botanical Region or some part of it
Non-endemic: Species occurring naturally (native) in the New Zealand Botanical Region as well as other regions
Exotic: Species not native to New Zealand; foreign