

# A monitoring approach for Southland's wetlands: Stage 1

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**Landcare Research**  
Manaaki Whenua



# **A monitoring approach for Southland's wetlands: Stage 1**

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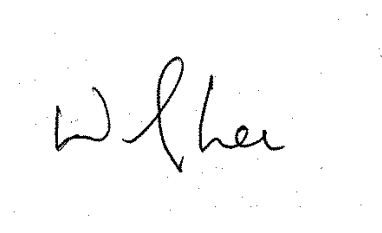
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## Summary

### Project and Client

- Environment Southland contracted Landcare Research to develop a system for monitoring the ecological condition of a representative set of wetlands to assist the council in meeting State of the Environment reporting requirements.

### Objective

- To develop a cost-effective wetland monitoring approach to enable detection of effects from major threats, e.g. drainage developments and changes to wetland hydrology, weed invasion, and nutrient enrichment.

### Methods

- Literature review and assessment of possible monitoring methods, and suitability for addition into Environment Southland's programme.
- Workshop to develop monitoring approach with key wetland people from Environment Southland, Department of Conservation and Landcare Research.
- Preliminary field trials to test and refine sampling approach and monitoring system in a limited range of wetland classes and vegetation types.

### Results

- A wetland monitoring system together with wetland field sheets (Wetland Record Sheet, Wetland Plot Sheet, Prevalence Index) and guidelines for establishing vegetation plots, plot size, sampling techniques, and overall condition assessment were developed.
- Analyses of data from pilot surveys of the Prevalence Index (a weighted average value based on species abundance and fidelity to wetland) revealed ecologically interpretable patterns along a hydrological gradient. We support the use of this metric as a surrogate for monitoring changes in wetland hydrological regime.
- The utility of substrate and foliage chemistry data for assessing wetland condition requires further consideration, but initial results supported field assessments of wetland condition. For example, increased nutrient levels were associated with a prevalence of exotic species.

### Conclusions

- Initial trials indicate the monitoring system, which is based on standard monitoring methods developed for wetlands in both New Zealand and USA, should be useful in assisting the council identify biodiversity values and monitor the ecological condition of Southland's wetlands.





## **1 Introduction**

Wetlands are a key ecosystem with significant cultural, ecological, and economic values. A clear directive has been issued by the National Policy Statement on freshwater management whereby “The overall quality of fresh water within a region is maintained or improved while ... protecting the significant values of wetlands”. Environment Southland currently has no wetland monitoring programme to determine whether the condition of wetlands are being maintained or improved, or whether the significant values of wetlands are being protected. Although there is clear intention of the need to monitor wetlands for State of the Environment reporting (SOE), there is no direction on how to go about doing this.

This project is a first step at a regional level in identifying appropriate approaches for monitoring the condition of wetlands that are relevant to council. It aims to provide a cost-effective technique to assist Environment Southland with meeting requirements to identify biodiversity values and monitor the state of wetlands in the Southland region.

## **2 Background**

Environment Southland contracted Landcare Research (Envirolink Medium Advice Grant 1257-ESRC257) to develop a system for monitoring the ecological state and trend of a representative set of Environment Southland’s wetlands. The purpose of the monitoring is for SOE reporting requirements, which can be used to assess the efficiency and effectiveness of regional policies and plans.

There are two main parts to the project:

- Stage 1: Development and preliminary trialling of a sampling approach and monitoring system in a range of wetland classes and vegetation types. Provision of detailed guidelines for establishing vegetation plots, plot size, and overall condition assessment incorporating standard procedures and identifying any subsequent refinements.
- Stage 2: Selection of a representative suite of sites that covers both the habitat diversity and spatial distribution of wetlands around Southland. Implementation, refinement, and evaluation of the monitoring system by Environment Southland and Department of Conservation after the initial year of surveys.

This report covers Stage 1 of the above.

## **3 Objective**

To develop a cost-effective monitoring approach to enable detection of effects of major threats (e.g. drainage developments and changes to wetland hydrology, weed invasion, and nutrient enrichment) on identified biodiversity values and wetland ecological condition.

## **4 Methods**

- Review literature and assess monitoring methods and suitability for Environment Southland's programme, e.g. Handbook for Monitoring Wetland Condition (Clarkson et al. (2004), WETMAK (Denyer & Peters 2012), DOC's Natural Heritage Management System (NHMS), RECCE (Hurst & Allen 2007), biodiversity monitoring (Lee & Allen 2011), and USA Wetland Delineation (Environmental Laboratory 1987).
- Workshop to develop monitoring approach with key wetland people from Environment Southland (Andy Hicks), Department of Conservation (Hugh Robertson) and Landcare Research (Bev Clarkson).
- Preliminary field trials with workshop participants to determine sampling approach and monitoring system (e.g. agreement on plot size, vegetation data collection, and environmental variables) in a range of wetland classes and vegetation types at Awarua Bog, Te Tapui Fen, and Bushy Point Swamp.
- Establish full monitoring pilot plots in Seaward Moss fen and bog, and Munro wetland complex, and analyse data to evaluate the different components of the proposed methodology.
- Based on evaluation of the pilot project, provide a monitoring system with detailed guidelines for establishing vegetation plots, plot size, sampling techniques, and overall condition assessment.

## **5 Results**

### **5.1 Proposed National Monitoring and Reporting Framework**

As part of the national water reforms, the National Policy Statement for Freshwater Management 2011 requires councils to set freshwater objectives and limits in their regional plans. These relate to each water body, taking into account local and national values and aspirations and its existing condition. The Government is currently establishing a regulated National Objectives Framework (NOF) to support regions to set the freshwater objectives and limits. For wetland ecosystems, the attributes currently under consideration by the Ministry for Environment for the NOF are summarised in Table 1. As these attributes may be the basis for future SOE reporting, we took them into consideration during the development of the current project.

**Table 1** Wetland framework and attributes under consideration for NOF

Key attributes	Other potential attributes
Wetland Extent	Sediment Accumulation Rate
Water Regime	Ecosystem Connectivity
Soil TN	Chlorophyll a (open water wetlands)
Soil TP	Habitat type diversity/extent
Nativeness	
Condition Index	

## 5.2 Monitoring Approach

The monitoring approach developed at the workshop (26–29 November 2012) follows the Handbook for Monitoring Wetland Condition (Clarkson et al. 2004), with modifications based on the WETMAK: Wetland Monitoring and Assessment Kit (Denyer & Peters 2012), the RECCE method (Hurst & Allen 2007), the DOC NHMS method, and Lee and Allen's (2011)'s biodiversity monitoring framework. The approach was further refined after field testing in Southland wetlands by Bev Clarkson, Andy Hicks, Hugh Robertson, Brian Rance (Department of Conservation), and George Ledgard (Environment Southland).

We trialled a tool to monitor changes in 'wetness' in a wetland by applying the Prevalence Index (PI), a wetland indicator used in the USA protocols for wetland delineation (US Army Corps of Engineers: Environmental Laboratory, 1987 and subsequent revisions). The Prevalence Index is a weighted average value based on all species within a plot and their individual fidelity to wetland (wetland indicator status rating).

Details on the methods and results from the pilot field trials are outlined in Sections 5.3–5.4 below.

The selection of a representative set of wetlands for monitoring and a timeline for implementation will be covered in Stage 2 of the project. This will be based on several criteria including rarity (magnitude of loss of wetland type compared to historic extent), current type and extent, geographic distribution, national and local significance, and conservation priorities for Environment Southland and Department of Conservation. Baseline information on comparison of current versus historic extent and type, which is required for the wetland extent attribute in Table 1, is already available (Clarkson et al. 2011).

## 5.3 Wetland Field Sheets

The wetland field sheets are provided in Appendix 1. There are two field sheets: the Wetland Record Sheet for condition assessment of the wetland site, and the Wetland Plot Sheet for recording vegetation, hydrological and physico-chemical data for each plot sampled in the wetland. The Wetland Plot Sheet also contains a summary of the Prevalence Index (PI) for the vegetation in the plot.

The methods for filling out the sheets follow the Handbook for Monitoring Wetland Condition (Clarkson et al. 2004), except for the points of difference noted below.

### **5.3.1 Wetland Sheet**

- Removal of Indicator Component Fire Damage. Any nutrient enrichment caused by recent fires can be incorporated in the indicator component 'Nutrient levels' and any vegetation/biota damage can be captured in the new Indicator component 'Recent vegetation damage/clearance'. This follows the WETMAK approach.
- New indicator components 'Native animal species occupancy decline' and 'native plant species occupancy decline' are added to measure the extent of divergence from the expected or typical species composition and/or structure expected for that particular wetland type. This follows the NHMS and Lee and Allen (2011) approaches.

### **5.3.2 Plot Sheet**

- Format for vegetation data on page 1 follows the WETMAK Vegetation plot datasheet apart from some minor exceptions. These include adding vegetation cover classes for species within each height tier to provide semi-quantitative information rather than just presence/absence qualitative information. The average height for each species is replaced by an average canopy height for the overall plot, and % covers of total vegetation, bryophytes, lichens, and litter have been added.
- Page 1 of the Plot Sheet needs to be filled out in the field, whereas page 2 can be left until later if desired and when soil/foilage analyses are completed.
- Species cover is not measured in fixed height (RECCE; Hurst & Allen 2007) or Atkinson variable height (Atkinson 1985) tiers. It is the vertical projection, i.e. natural spread of the above-ground live biomass for each species measured as % cover of the total area of the plot, irrespective of height or tier, or position of other vegetation. Individual species cover cannot be more than 100% but total vegetation cover will usually be >100%, except when only one tier of vegetation is present.

### **5.3.3 Prevalence Index**

The Prevalence Index is a method for assessing the 'wetness' of a plot based on plant species composition and cover. It was developed for the USA wetland delineation system (Environmental Laboratory 1987) and uses individual wetland species indicator status ratings based on fidelity to wetland (typical habitat) to calculate a Prevalence Index. The wetland habitats are:

- OBL: Obligate. Almost always is a hydrophyte, rarely in uplands (= non-wetlands/ drylands). Estimated probability >99% occurrence in wetlands
- FACW: Facultative Wetland. Usually 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<sup>1</sup>. Occasionally a hydrophyte but usually occurs in uplands. Estimated probability 1–33% occurrence in wetlands
- UPL: Upland. Rarely is hydrophyte, almost always in uplands. Estimated probability <1% occurrence in wetlands

In USA if Prevalence Index  $\leq 3$ , the vegetation is considered hydrophytic, and satisfies the vegetation criterion for delineating wetlands (the other criteria are soils and hydrology). If the Prevalence Index is marginally greater than 3, additional assessments based on soils, hydrology or other vegetation criteria (Environmental Laboratory 1987) is recommended to determine whether the plot is wetland or not.

In New Zealand we are trialling use of the Prevalence Index as a 'Wetness Index' tool to monitor changes in hydrological regime in permanent plots at wetland sites. The draft list of indicator status for New Zealand wetland plants (Clarkson et al. 2013) is provided in Appendix 3. Periodic revisions of the wetland plant working list will be available on-line at <http://www.landcareresearch.co.nz/science/plants-animals-fungi/ecosystems/wetland-ecosystems>. As plants integrate and reflect the environmental conditions at a site, significant changes in hydrological regime will be reflected in changes in species composition and cover. For example, influxes of FACU and UPL species, e.g. pasture herbs and grasses, may be promoted by water table lowering following drain construction, and will result in increases in Prevalence Index values.

The Prevalence Index Summary Worksheet is on page 2 of the Plot sheet. A step-by-step procedure can be followed by using the detailed Prevalence Index Worksheet (Appendix 2).

## **5.4 Field trials**

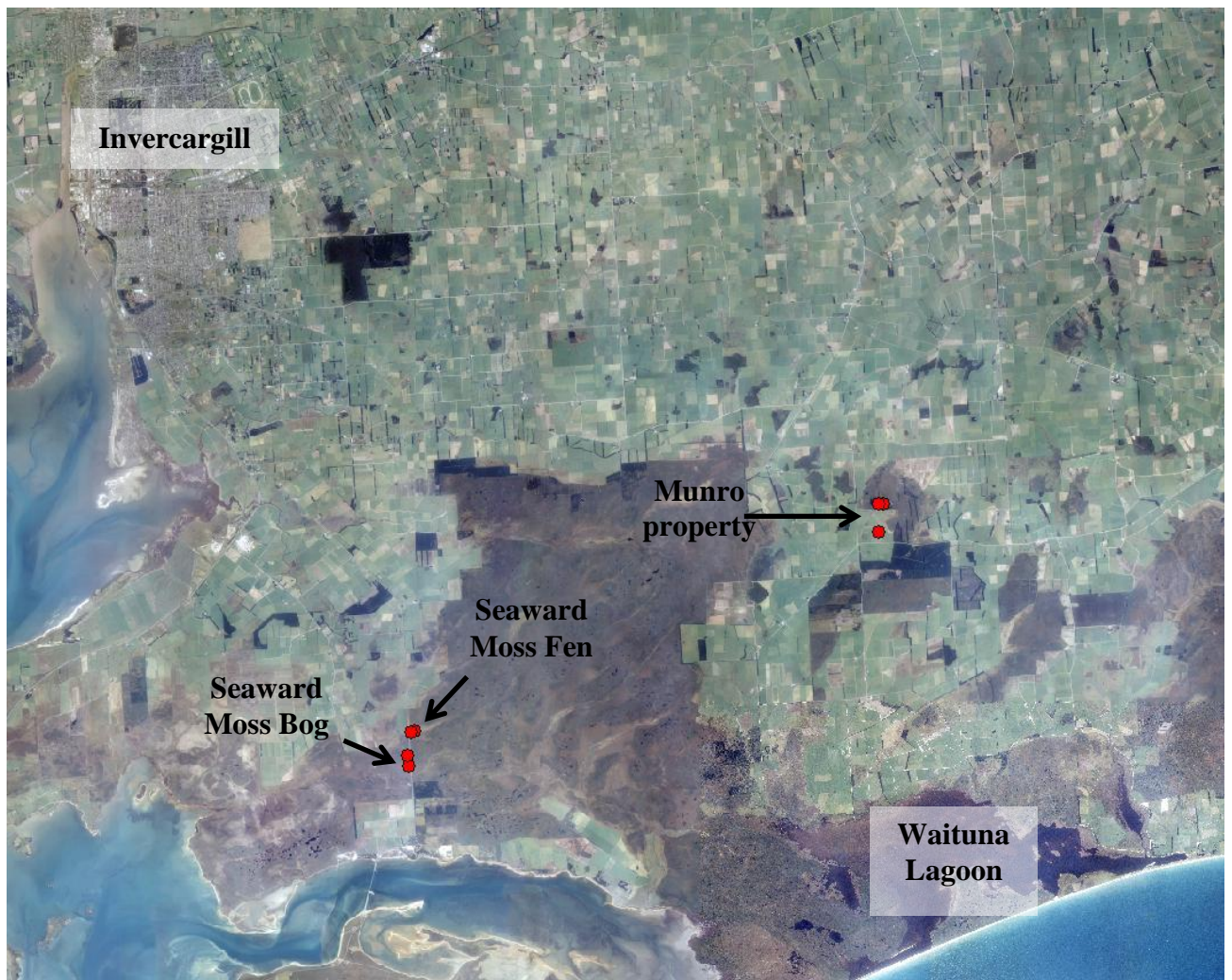
### **5.4.1 Site locations**

Seven sites close to Invercargill were selected to trial the proposed methodology (see Fig. 1). Two sites were located within the Seaward Moss Conservation Area, an extensive blanket bog system, with paired plots at each site representing 'inner' (less disturbed) and 'edge' (next to Tiwai Road) habitat. A further three plots were surveyed in a wetland complex on the Munro property. Two of these plots were within a QEII covenant that protects remnant wetland and a waterway network, while the third was in a remnant red tussock patch within a grazed area. The seven plots represented gradients in hydrological disturbance, susceptibility to weed invasion and history of modifications to nutrient status. The permanent plots will enable assessments of temporal changes from repeat monitoring.

The surveys were undertaken by Andy Hicks, Brian Rance and George Ledgard between 11 and 15 March, 2013, after an unusually dry summer for Southland.

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<sup>1</sup> Terminology from USA wetland delineation method (Environmental Laboratory 1987)

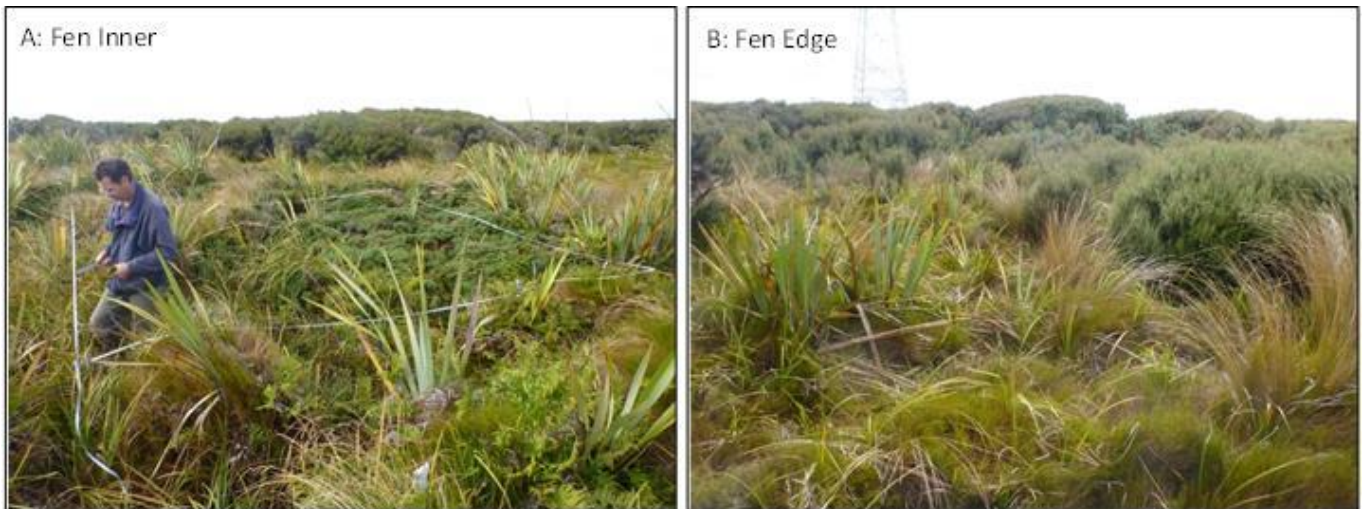


**Figure 1** Location of the seven pilot wetland plots in Southland region.



## 5.4.2 Site descriptions

### Seaward Moss Fen



**Figure 2** Seaward Moss fen plots.

The Seaward Moss Fen plots were upstream of the Tiwai Road, which bisects the Conservation area. The water table at the inner site (Fig. 2A) was 5 cm below the surface, and the vegetation community was dominated by tangle fern (*Gleichenia dicarpa*). The water table at the edge site was deeper than 50 cm, and this site was dominated by wire rush (*Empodisma minus*).

### Seaward Moss Bog



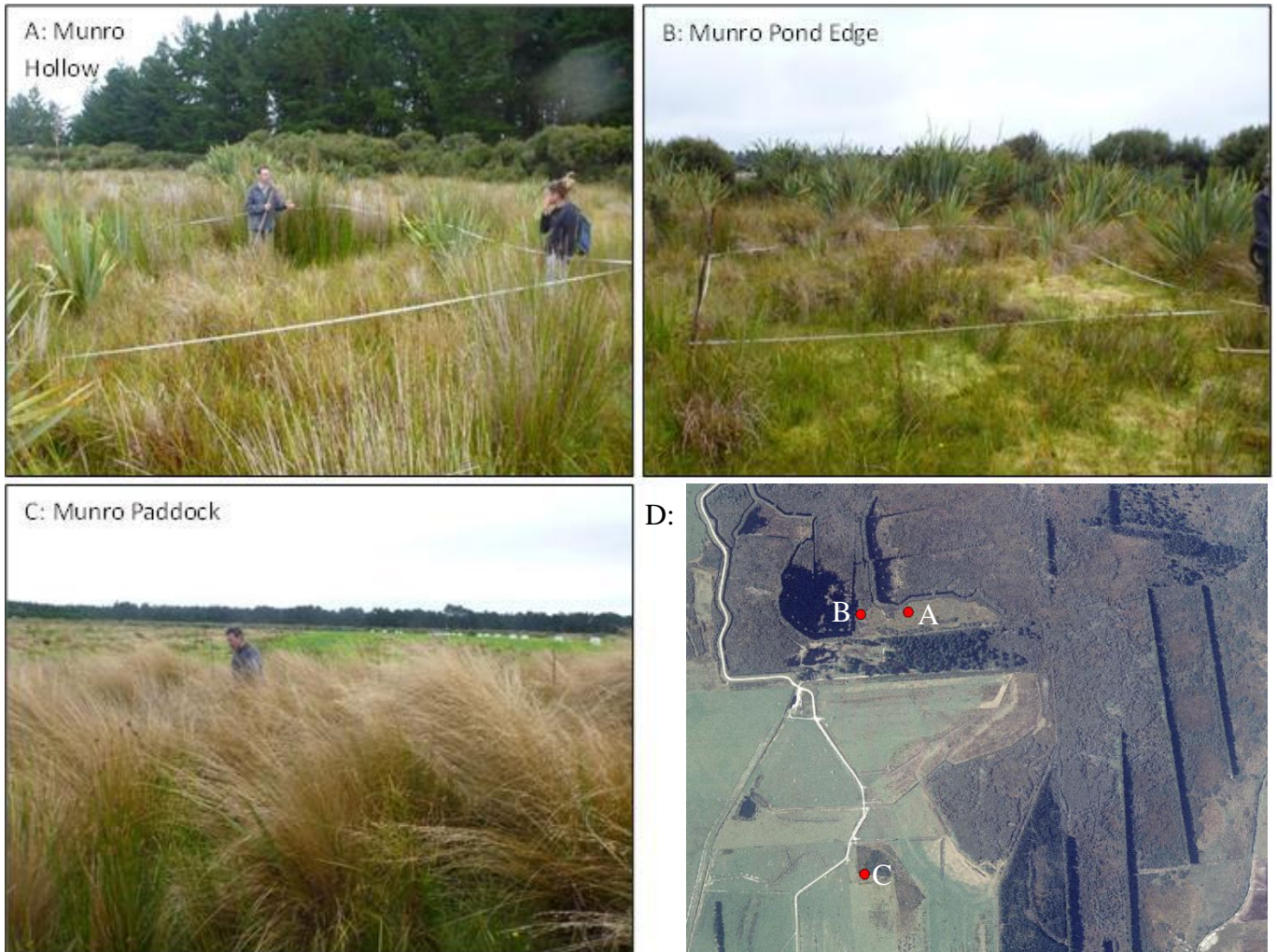
**Figure 3** Seaward Moss bog plots.

The Seaward Moss Bog was on the downstream side of the Tiwai Road, which has deep drainage ditches along either side. These downstream sites were potentially more susceptible to hydrological changes brought about by roading development, particularly lowered water tables caused by the ditches. The inner site was dominated by mānuka (*Leptospermum*



*scoparium*), whereas the outer site was dominated by red tussock (*Chionochloa rubra*). The water table was deeper than 50 cm at both sites.

### Munro property



**Figure 4** Munro property plots.

The first site on the Munro property was in a hollow between a pine lot and remnant wetland habitat, dominated by a mix of sedges, rushes, flax (*Phormium tenax*) and mānuka (Fig. 4A). This hollow had a history of light (extensive) grazing and infrequent fertiliser application, and was approximately 150 metres away from an artificial pond, and 30 metres away from a blocked drainage channel (see Fig. 4D). The second plot (Fig. 4B) was on the edge of the aforementioned pond, which had formed behind a dammed drainage ditch. The paddock plot was in the middle of more intensively farmed land, within a patch of remnant red tussock (Fig. 4C). The hollow plot was dominated by native sedge (*Carex coriacea*) and the exotic hawkbit (*Leontodon taraxacoides*), with water table deeper than 50 cm. The pond edge plot was dominated by a mix of bryophytes including sphagnum, with a water table 12 cm below the surface. The paddock plot was dominated by red tussock (*Chionochloa rubra*), was not fenced off from surrounding paddocks which supported a mix of sheep and beef stock, and its water table was deeper than 50 cm. All three plots were classified as fen wetlands.



### 5.4.3 Data collection

For all seven plots, the data were collected according to the “Wetland Plot Sheet” in Appendix 1. This included estimating the aerial cover of each species in the plot, taking substrate cores with a 10 cm deep by 10 cm diameter corer, and collecting foliage samples from the most abundant species in the plot, and flax and mānuka when they were present. Usually, a single substrate core was taken from each plot. For two plots, however, three replicate substrate cores were taken to allow an exploration of the variability in substrate characteristics that may exist within plots. The details of what samples were collected from each plot are provided in Table 2.

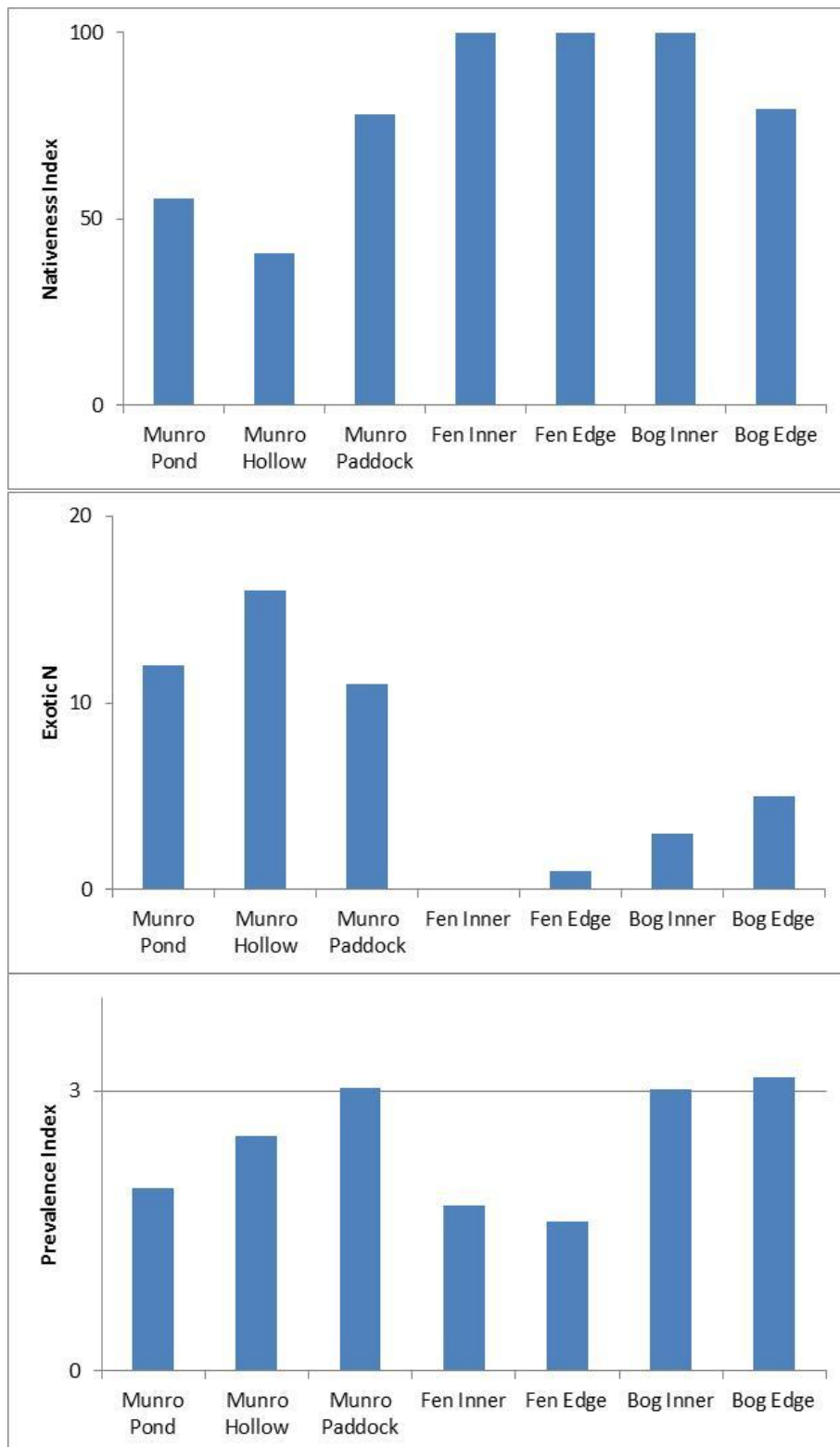
**Table 2** Samples collected for analyses

Plot	# substrate samples	Flax collected?	Mānuka collected?	Other species from which foliage was collected
Fen inner	1	yes	no	<i>Empodisma minus</i> <i>Gleichenia dicarpa</i>
Fen edge	1	yes	yes	<i>Empodisma minus</i>
Bog inner	3	yes	yes	<i>Coprosma tayloriae</i>
Bog edge	1	yes	yes	<i>Chionocloa rubra</i>
Munro hollow	1	yes	yes	<i>Leontodon taraxacoides</i> <i>Lotus pedunculatus</i>
Munro pond	3	yes	yes	<i>Sphagnum sp.</i>
Munro paddock	1	yes	yes	<i>Empodisma minus</i> <i>Chionochloa rubra</i>

Note, the wetland record sheet was also filled out for each wetland as a whole, but these data will not be presented in this report. The approach covered by the wetland record component (modified from Clarkson et al. 2004) is in widespread use in New Zealand, and as such we did not feel it needed validation. We have instead focused on the revisions to the plot methodology (as a result of new SOE requirements), which have not been tested in New Zealand.

### 5.4.4 Plot data

#### Vegetation community



**Figure 5** The proportion of each plot ( $n = 7$ ) covered by native species (Nativeness Index, top), number of exotic species (Exotic N, middle) and Prevalence Index (a hydrological index, bottom).

The Nativeness Indexes of the plots within the Seaward Moss conservation were high (Fig. 5), all being close to 100% except for the bog edge, which had an index of approximately 80%. Predictably, the plots within the Munro farm property had a decreased Nativeness Index and increased exotic species richness in comparison to the conservation area. Both the bog edge and fen edge plots also had a greater number of exotic species than their respective inner plots, which reflects their vulnerability to invasion by exotic species due to their proximity to the Tiwai Road.

The Prevalence Index was highest for the three driest sites. The Munro Paddock plot was within an actively drained pasture area, and both bog plots were downstream of a major drainage intersection (the Tiwai Road) that may reduce lateral water supply as well possibly reflect the historical succession of this part of the blanket bog into more terrestrial type forest. A Prevalence Index greater than three is indicative of a more dryland vegetation community, and so, based on a quantitative assessment of their vegetation community, these three plots would be considered borderline wetlands. This matches our field assessment of their hydrological status and position relative to water table.

The Munro Pond, Fen Inner and Fen Edge all had the lowest Prevalence Index ratings, with the Munro Hollow having a slightly higher score. As mentioned, these surveys took place after a very dry summer, and the water table at both the Fen Edge and Munro Hollow was below 50 cm. The vegetation community will reflect long-term hydrological characteristics, rather than the water table depth at the time of sampling. Because of the dry summer, the Fen Edge and Munro Hollow sites were drier than they normally are (A. Hicks, pers. obs.). This meant a simple assessment of their 'wetness' (depth to water table) could have been misleading, and supports the use of the vegetation-based Prevalence Index providing a useful proxy for long-term hydrological integrity.

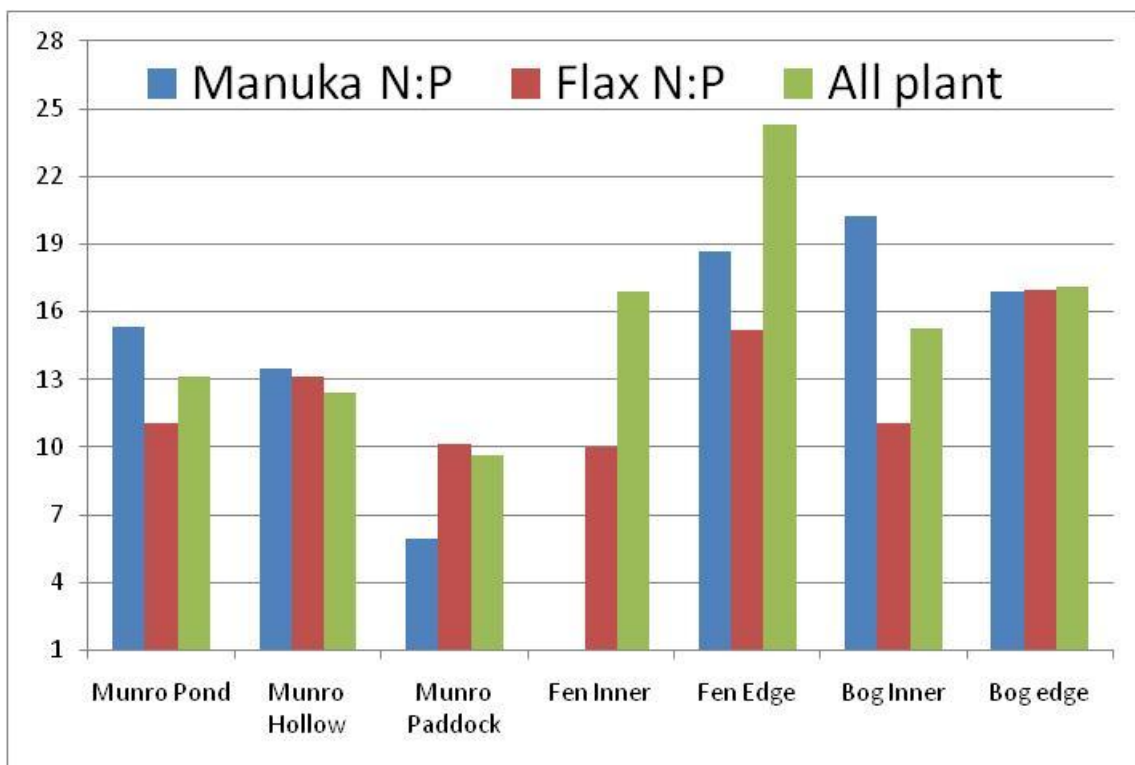
### **Foliage chemistry**

The results from foliage chemistry analyses are never straightforward to interpret, especially when the species cover a range of lifeforms (including shrubs herb, restiad, fern, moss); however, there are some consistent trends. Overseas studies reveal increased nutrient levels in wetlands (eutrophication) have been linked to compromised ecosystem functioning and a reduction in species richness (Wassen et al. 2005). As well as the importance of overall nutrient levels, the relative amount of critical nutrients can also affect species performance and composition in a vegetation community. Plant growth in herbaceous wetlands is most commonly limited by the availability of either nitrogen or phosphorus (Gusewell & Koerselman 2002). P-limited systems have been shown to support more endangered species than N-limited systems (Wassen et al. 2005), and a shift away from P-limitation and towards N-limitation at a landscape scale has been linked to anthropogenic activity (Gusewell 2004). In New Zealand, therefore, as well as eutrophication threatening species richness, a change in the relative availability of nitrogen or phosphorus could affect the integrity of wetland communities.

The critical range in plants below and above which N and P become limiting for vegetation communities, respectively, is given as 10–20 by Gusewell (2004) and 14–16 by Koerselman and Meuleman (2002). A review for wetland communities specified a range of 13–16, which are the values we have used for this study (Gusewell & Koerselman 2002). Monitoring N:P over time will be difficult, however, because documented effects of shifts in N:P relate to the

entire above ground plant biomass, rather than individual species. There is often considerable variability in N:P within a plot at the scale of individual species (Gusewell & Koerselman 2002). For repeatedly monitored plots, a compromise needs to be found that allows a good representation of the entire above ground plant biomass without causing significant changes in the vegetation community due to the monitoring itself. For this pilot work, a small sample of foliage from the most abundant species was collected, because the N:P of the most abundant species should correlate best with the N:P of the entire plant community. Flax and mānuka were also sampled whenever they were present, because these species are likely to be the most commonly encountered species in plots around the region, and would allow inter plot comparisons of individual species (total  $n = 23$ ).

The N:P ratios averaged over all species sampled (green bars) indicate that the Munro property wetland areas are tending toward nitrogen limitation (<13), whereas the wetlands in the Seaward Moss Conservation area are tending towards phosphorus limitation (>16). This could reflect the use of super-phosphate fertiliser in or near the Munro plots, or be related to processes that have reduced the P-binding ability of the soils, such as increased wetting/drying cycles and/or a decrease in soil cation availability (e.g. calcium and iron, Verhoeven et al. 1996). The results for flax and mānuka do not always correlate with the average N:P ratio for each plot, however, which highlights the potential complexities in foliage chemistry at the individual species level.

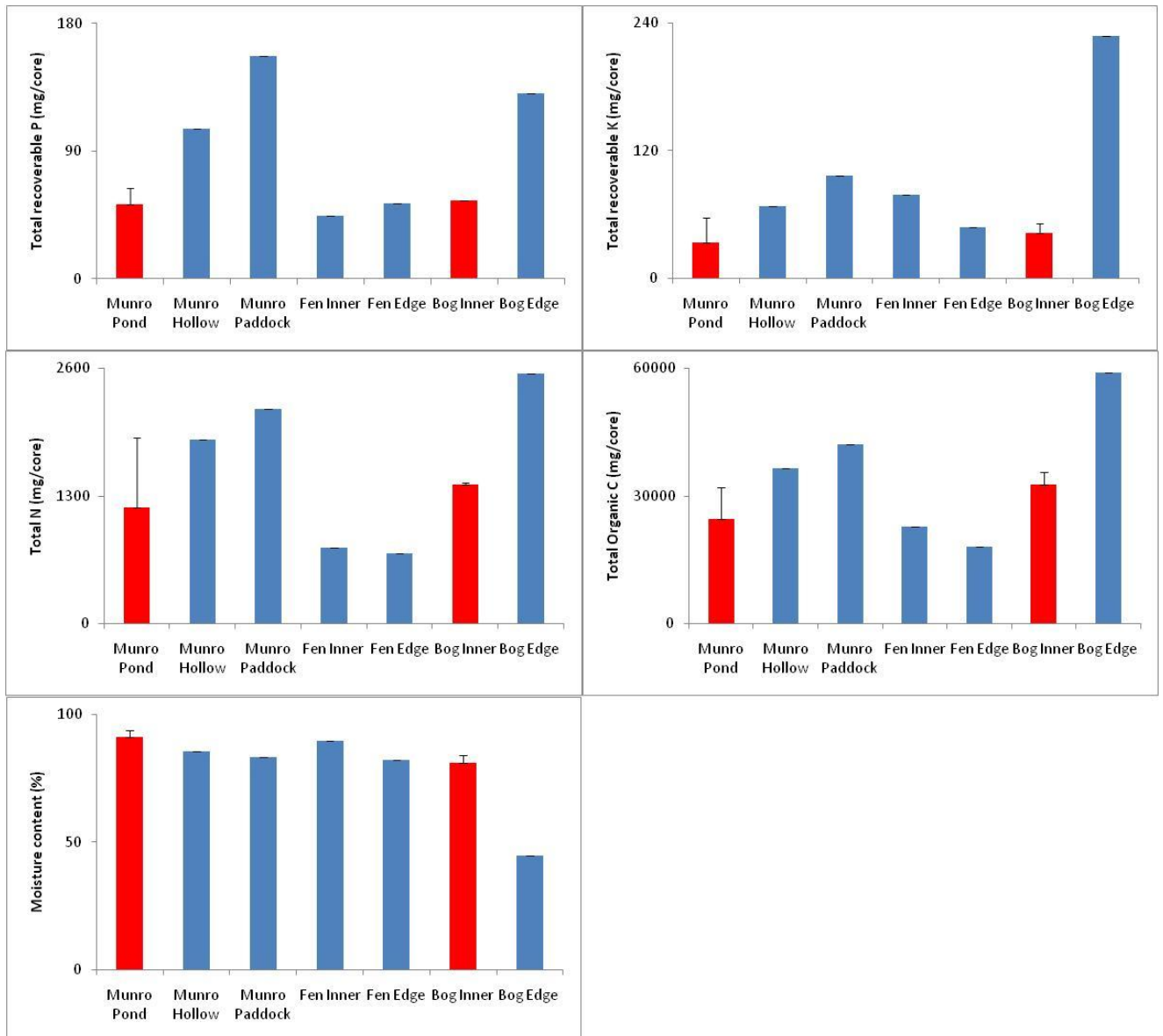


**Figure 6** Nitrogen to phosphorus ratios in plant foliage from wetland plots.

The pilot work and international experiences suggest that plant biomass chemistry contains important information and should be a component of wetland monitoring. An important task for Stage 2 of this programme will be refining how this material is collected and analysed. In

particular, thought needs to be given to foliage versus all above ground material, how much inter-specific variability exists within plots, and how much material from a plot should be taken to provide a good compromise between minimising damage and adequate representation.

### Substrate chemistry



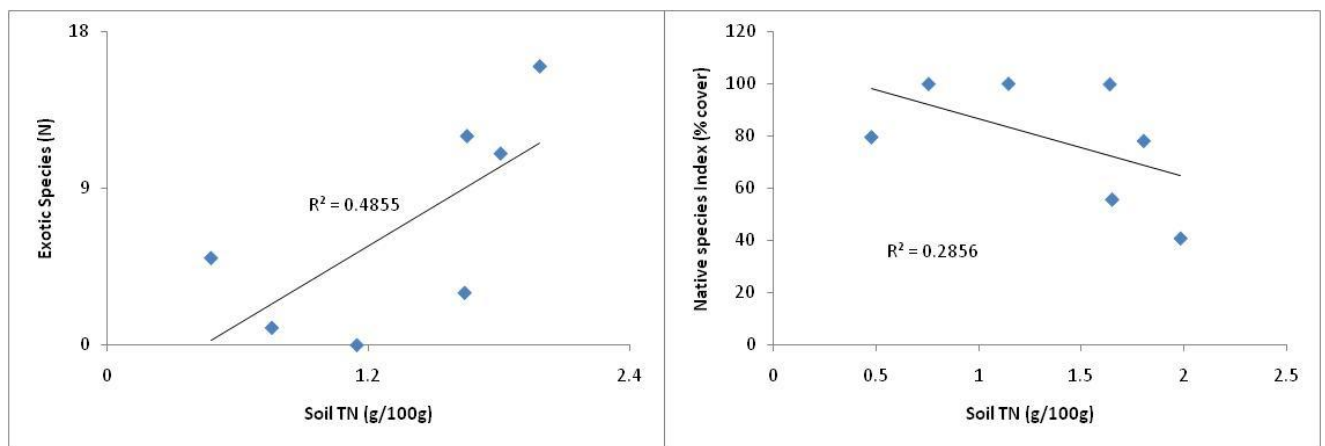
**Figure 7** Chemistry of substrate cores taken from wetland plots. Red bars indicate mean values of plots from which 3 replicate substrate cores were taken. Error bars = 1 standard deviation.

Substrate chemistry is useful for assigning wetland class (e.g. fen, bog, etc.), as well as exploring whether changes in nutrient level may be driving changes in ecosystem integrity (e.g. soil structure changes, species richness, invasion of exotic species, etc.). The substrate chemistry from the pilot plots produced some interesting patterns (Fig. 7). Importantly, the intra-plot variation of nitrogen in the Munro pond plot was often as great as the inter-plot variation. This was not due to variation in moisture content, and indicates a need for future

surveys to somehow account for intra-plot variability in substrate characteristics. As was predicted, the N, P and K levels were high in the Munro Paddock, intermediate in the Munro Hollow, and lowest in the Munro Pond, which correlates with the intensity of farming across the Munro property plots. Unexpectedly, the Seaward Moss “bog” plots had higher nutrient levels than those characterised as fens, which may mean our initial classification of those sites was inaccurate, or that modification of the site has caused increases in nutrient levels.

### Linking drivers with effects

For the purpose of illustration, we show that the concentration of total nitrogen shows a weak negative correlation with the prevalence of native species at the 7 wetland plots (see Fig. 8,  $P = 0.22$ ). Conversely, a stronger positive relationship exists between soil TN and the number of exotic species, although this relationship is still marginally non-significant ( $P = 0.08$ ).



**Figure 8** Exotic species richness (left) and native species percent cover (right) versus total nitrogen at the seven pilot wetland plots.

As well as identifying trends in ecological values over time, council monitoring programmes should attempt to identify the drivers of those trends. Looking at correlations between substrate chemistry and the occurrence of exotic species, for example, is one way to identify potential drivers. Such analyses will be possible only after more plots have been monitored, and recommendations developed. But these initial results provide an example for how the data from a wetland monitoring programme can be used to identify potential drivers of wetland condition. The indices we have tested relate to the hydrological integrity (Prevalence Index) and nutrient status (substrate and foliar chemistry) of wetlands. Although considerably more work is required to refine how we collect and interpret these data, the initial results support using this framework for monitoring wetlands in Southland. We thus recommend these methods are used to collect more data from additional wetlands representative of the full range of Southland's wetlands to allow further refinement and development of a standardised wetland monitoring methodology.

## **6 Conclusions**

Initial trials indicate the monitoring system, which is based on standard monitoring methods developed for wetlands in both New Zealand (Handbook for monitoring wetlands, WETMAK, RECCE, NHMS) and USA (Prevalence Index), will be useful in helping the council monitor the ecological condition of Southland's wetlands.

The Prevalence Index, an indicator based on standardised species preferences for wetland habitat, is showing potential as a simple inexpensive tool for monitoring vegetation composition changes reflecting shifts in hydrological regime/water table.

Substrate and vegetation chemistry are important parameters that will help us understand threats to the quality of wetlands in Southland. More work is needed to refine how this information should be collected and interpreted.

## **7 Recommendations**

We recommend on-going feedback and refinement of the monitoring system during the initial year of the wetland monitoring programme to address any issues that may arise.

The Proposed Monitoring Framework presented in Table 1 is utilised as the basis for SOE reporting, while recognising that wetland attributes, monitoring methods and summary statistics are still under development.

Summary of tasks to be undertaken for Stage 2:

- Select representative set of wetlands for monitoring, which covers both the habitat diversity and spatial distribution of Southland's wetlands
- Develop sampling design, number and location of plots, e.g. rigorous randomisation method
- Set up permanent monitoring plots and undertake wetland condition assessments in a subset of wetlands to provide baseline monitoring data
- Evaluate data after year 1 to refine approach ready for implementation of the monitoring system by Environment Southland and Department of Conservation.

## **8 Acknowledgements**

We thank Jake Overton and Bill Lee for reviewing the report and Anne Austin for editing.

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## **Appendix 1 – Wetland Field Sheets**

See next page.

### WETLAND RECORD SHEET

**Wetland name:**

**Date:**

**Region:**

**GPS/Grid Ref.:**

**Altitude:**

**No. of plots sampled:**

Classification: I System	IA Subsystem	II Wetland Class	IIA Wetland Form

**Field team:**

Indicator	Indicator components	Specify and Comment	Score 0– 5 <sup>1</sup>	Mean score
Change in hydrological integrity	Impact of manmade structures			
	Water table depth			
	Dryland plant invasion			
Change in physico-chemical parameters	Degree of sedimentation/erosion			
	Nutrient levels			
	Von Post index			
Change in ecosystem intactness	Loss in area of original wetland			
	Connectivity/fish barriers			
	Recent vegetation damage/clearance			
Change in browsing, predation & harvesting regimes	Damage by stock/feral browsers			
	Introduced predator impacts on wildlife			
	Harvesting levels			
	Native animal species occupancy decline			
Change in dominance of native plants	Introduced plant canopy cover			
	Introduced plant understorey cover			
	Native plant species occupancy decline			
<b>Total wetland condition index /25</b>				

<sup>1</sup> Assign **degree of modification** as follows: 5=v. low/ none, 4=low, 3=medium, 2=high, 1=v. high, 0=extreme

**Main vegetation types:**

**Native fauna:**

**Other comments:**

Pressure	Score <sup>2</sup>	Specify and Comment
Modifications to catchment hydrology		
Water quality decline in catchment		
Animal access		
Key undesirable species		
% catchment in introduced vegetation		
Other landuse threats		
<b>Total wetland pressure index /30</b>		

<sup>2</sup> Assign pressure scores as follows: 5=very high, 4=high, 3=medium, 2=low, 1=very low, 0=none



**WETLAND PLOT SHEET: Page 2**

**Wetland name:**

**Date:**

**Plot no:**

Plot vegetation (use plot data only)	Value	Unit
<b>Cover</b>		
C1: Native species cover: sum of % cover for all native species		%
C2: Total species cover: sum of % cover for all plants		%
C3: C1/C2*100 Cover Nativeness ie % of total cover that is native vegetation		%
<b>Richness</b>		
R1: Native species number		<i>n</i>
R2: Exotic species number		<i>n</i>
R3: Total species number		<i>n</i>
R4: R1/R3*100 Species Nativeness ie % of total species number that is native		%

**Soil core laboratory analysis** (2 soil core subsamples):

Water content % dry weight		Total C %	
Bulk Density T/m <sup>3</sup>		Total N %	
pH		Total P mg/kg	
Conductivity µS (optional)		Total K % (optional)	

**Foliage laboratory analysis** (leaf/culm sample of dominant canopy species and wetland target species):

Species	%N	%P	%C	%K optional

**Prevalence Index Summary Worksheet**

Total % Cover of:		Multiply by:	
OBL species		× 1 =	
FACW species		× 2 =	
FAC species		× 3 =	
FACU species		× 4 =	
UPL species		× 5 =	
Column Totals:		(A)	(B)
Prevalence Index <sup>1</sup> = B/A =			

<sup>1</sup>In USA if PI ≤ 3, vegetation is hydrophytic (ie wetland veg). PI changes over time indicate hydrology changes

## Appendix 2 – Prevalence Index

### 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	
	<b>Totals</b>		<b>(A)</b>		<b>(B)</b>
<b>Hydrophytic Vegetation Determination</b>	<b>Prevalence Index = B/A = _____</b> Hydrophytic Vegetation by PI Indicator? _____ Yes _____ No				

NB if PI = 3.0 or less site is defined as having hydrophytic vegetation, ie satisfying one criterion for delineating wetlands USA Wetland delineation approach (Environmental Laboratory 1987)

## Appendix 3 – Wetland indicator status ratings for New Zealand species

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

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

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

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



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

FullName	Rating	Authority	Code*	Synonym(s)	Common name	Biostatus Origin
<i>Callitriche petriei</i>	OBL	R.Mason	CALpet			Endemic
<i>Callitriche stagnalis</i>	OBL	Scop.	CALsta		Starwort	Exotic
<i>Calochilus herbaceus</i>	FACW	Lindl.	CALcam	<i>Calochilus campestris</i>		Non-endemic
<i>Calochilus paludosus</i>	FAC	R.Br.	CALpal		Copper bearded orchid	Non-endemic
<i>Caltha novae-zelandiae</i>	OBL	Hook.f.	CALnov		Yellow caltha	Endemic
<i>Calystegia sepium subsp. roseata</i>	FAC	Brummitt	CALsep	<i>Calystegia sepium</i>	Pink bindweed	Non-endemic
<i>Calystegia tuguriorum</i>	FACU	(G.Forst.) R.Br. ex Hook.f.	CALTug			Non-endemic
<i>Cardamine corymbosa</i>	FAC	Hook.f.	CARcor			Endemic
<i>Cardamine debilis</i>	FAC	DC.	CARdeb			Endemic
<i>Cardamine lacustris</i>	OBL	(E.B.G.Jones & P.N.Johnson) Heenan	CARlct	<i>Iti lacustris</i>		Endemic
<i>Cardamine pratensis</i>	OBL	L.	CARpra			Exotic
<i>Carex acicularis</i>	FAC	Boott	CARaci			Endemic
<i>Carex allanii</i>	FACW	Hamlin	CARall			Endemic
<i>Carex appressa</i>	OBL	R.Br.	CARapp			Non-endemic
<i>Carex berggrenii</i>	FACW	Petrie	CARber			Endemic
<i>Carex buchananii</i>	FAC	Berggr.	CARbuc			Endemic
<i>Carex capillacea</i>	OBL	Boott	CARcap			Non-endemic
<i>Carex carsei</i>	OBL	Petrie	CARcar			Endemic
<i>Carex chathamica</i>	FACW	Petrie	CARcha			Endemic
<i>Carex cirrhosa</i>	FACW	Berggr.	CARcir			Endemic
<i>Carex colensoi</i>	FACU	Boott	CARcol		Colenso's sedge	Endemic
<i>Carex comans</i>	FAC	Berggr.	CARcom			Endemic
<i>Carex coriacea</i>	FACW	Hamlin	CARcor		Rautahi	Endemic
<i>Carex dallii</i>	FACW	Kirk	CARDal			Endemic
<i>Carex decurtata</i>	FACW	Cheeseman	CARdec			Endemic
<i>Carex demissa</i>	FACW	Hornem.	CARDem		Low sedge	Exotic
<i>Carex diandra</i>	OBL	Schrank	CARDia			Non-endemic
<i>Carex dipsacea</i>	FAC	Berggr.	CARDip			Endemic
<i>Carex dissita</i>	FAC	Sol. ex Boott	CARDis	<i>Carex quadrangulata</i>		Endemic
<i>Carex divisa</i>	FAC	Huds.	CARDvs			Exotic
<i>Carex divulsa</i>	FAC	Stokes	CARdiv			Exotic

FullName	Rating	Authority	Code*	Synonym(s)	Common name	Biostatus Origin
<i>Carex echinata</i>	OBL	Murray	CARech		Star sedge	Non-endemic
<i>Carex enysii</i>	OBL	Petrie	CAReny			Endemic
<i>Carex fascicularis</i>	OBL	Boott	CARfas			Endemic
<i>Carex flacca</i>	FACW	Schreb.	CARflc		Carnation grass	Exotic
<i>Carex flagellifera</i>	FACU	Colenso	CARfgl			Non-endemic
<i>Carex flaviformis</i>	OBL	Nelmes	CARfla			Endemic
<i>Carex fretalis</i>	FAC	Hamlin	CARfre			Endemic
<i>Carex gaudichaudiana</i>	FACW	Kunth	CARGau			Non-endemic
<i>Carex geminata</i>	FACW	Schkuhr	CARGem			Endemic
<i>Carex hectorii</i>	FAC	Petrie	CARhec		Hector's sedge	Endemic
<i>Carex hirta</i>	FAC	L.	CARhir			Exotic
<i>Carex inversa</i>	FACU	R.Br.	CARinv			Non-endemic
<i>Carex kirkii</i>	FAC	Petrie	CARKir			Endemic
<i>Carex lachenalii</i>	OBL	Schkuhr	CARlac			Non-endemic
<i>Carex lambertiana</i>	FAC	Boott	CARlam			Endemic
<i>Carex lessoniana</i>	FACW	Steud.	CARles			Endemic
<i>Carex libera</i>	FACW	(Kük.) Hamlin	CARlib			Endemic
<i>Carex litorosa</i>	OBL	L.H.Bailey	CARlit			Endemic
<i>Carex longii</i>	FAC	Mack.	CARlon			Exotic
<i>Carex lurida</i>	FACW	Wahlenb.	CARlur		Sallow sedge	Exotic
<i>Carex maorica</i>	OBL	Hamlin	CARmao			Endemic
<i>Carex ochrosaccus</i>	FAC	(Cheeseman) Hamlin	CARoch			Endemic
<i>Carex ovalis</i>	FACW	Gooden.	CARova		Oval sedge	Exotic
<i>Carex pallascens</i>	FAC	L.	CARpal			Exotic
<i>Carex petriei</i>	FAC	Cheeseman	CARpet			Endemic
<i>Carex pumila</i>	FAC	Thunb.	CARpum		Sand sedge	Non-endemic
<i>Carex pyrenaica var. cephalotes</i>	FAC	(F.Muell.) Kük.	CARcep			Endemic
<i>Carex resectans</i>	FAC	Cheeseman	CARres			Endemic
<i>Carex rubicunda</i>	FACW	Petrie	CARrub			Endemic
<i>Carex scoparia</i>	FACW	Schkuhr ex Willd.	CARsco			Exotic
<i>Carex secta</i>	OBL	Boott	CARsec			Endemic
<i>Carex sectoides</i>	OBL	(Kük.) Edgar				Endemic
<i>Carex sinclairii</i>	OBL	Boott	CARSin			Endemic

FullName	Rating	Authority	Code*	Synonym(s)	Common name	Biostatus Origin
<i>Carex solandri</i>	FAC	Boott	CARsol			Endemic
<i>Carex subdola</i>	OBL	Boott	CARsub			Endemic
<i>Carex tahoata</i>	FAC	Hamlin	CARTah			Endemic
<i>Carex tenuiculmis</i>	OBL	(Petrie) Heenan & de Lange	CARtec	<i>Carex secta</i> var. <i>tenuiculmis</i>		Endemic
<i>Carex ternaria</i>	FACW	Boott	CARter			Endemic
<i>Carex trachycarpa</i>	OBL	Cheeseman	CARtra			Endemic
<i>Carex traversii</i>	FACW	Kirk	CARtrv			Endemic
<i>Carex ventosa</i>	FACU	C.B.Clarke	CARven		Chatham Island forest sedge	Endemic
<i>Carex virgata</i>	OBL	Boott	CARvir			Endemic
<i>Carex vulpinoidea</i>	OBL	Michx.	CARvul		Fox sedge	Exotic
<i>Carissa ovata</i>	FACU	R.Br.				Uncertain
<i>Carmichaelia arborea</i>	FACU	(G.Forst.) Druce	CARarb		Swamp broom	Endemic
<i>Carmichaelia australis</i>	FACU	R.Br.	CARaus	<i>Carmichaelia cunninghamii</i>		Endemic
<i>Carpha alpina</i>	OBL	R.Br.	CARapl		Straw sedge	Non-endemic
<i>Carpodetus serratus</i>	FACU	J.R.Forst. & G.Forst.	CARser		Putaputaweta	Endemic
<i>Cassytha paniculata</i>	FAC	R.Br.	CASpan			Non-endemic
<i>Celmisia alpina</i>	OBL	(Kirk) Cheeseman	CELapl			Endemic
<i>Celmisia argentea</i>	OBL	Kirk	CELarg			Endemic
<i>Celmisia clavata</i>	FACW	G.Simpson & J.S.Thomson	CLEcla			Endemic
<i>Celmisia glandulosa</i>	FACW	Hook.f.	CELgla			Endemic
<i>Celmisia gracilentia</i>	FAC	Hook.f.	CELgra			Endemic
<i>Celmisia graminifolia</i>	FACW	Hook.f.	CELgrm			Endemic
<i>Celmisia sessiliflora</i>	FACU	Hook.f.	CELses			Endemic
<i>Celmisia setacea</i>	OBL	Colenso	CELset			Uncertain
<i>Centaureum erythraea</i>	FACU	Rafn.	CENery		Centaury	Exotic
<i>Centella uniflora</i>	FACW	(Colenso) Nannf.	CENuni			Non-endemic
<i>Centipeda aotearoana</i>	FACW	N.G.Walsh	CENaot		New Zealand sneezewort	Endemic
<i>Centipeda cunninghamii</i>	FACW	(DC.) A.Braun & Asch.	CENCun			Exotic
<i>Centipeda minima</i>	FACW	(L.) A.Braun & Asch.	CENmin	<i>Centipeda orbicularis</i>	Sneezeweed	Non-endemic
<i>Centrolepis ciliata</i>	OBL	(Hook.f.) Druce	CENCil			Endemic
<i>Centrolepis minima</i>	OBL	Kirk	CENmin			Endemic
<i>Centrolepis pallida</i>	OBL	(Hook.f.) Cheeseman	CENpal			Endemic

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<i>Centrolepis strigosa</i>	FAC	(R.Br.) Roem. & Schult.	CENstr			Non-endemic
<i>Cerastium fontanum</i>	FACU	Baumg.	CERfon		Mouse-ear chickweed	Exotic
<i>Cerastium glomeratum</i>	FACU	Thuill.	CERglo		Annual mouse-ear chickweed	Exotic
<i>Ceratophyllum demersum</i>	OBL	L.	CERdem		Hornwort	Exotic
<i>Chaerophyllum colensoi</i>	FACU	(Hook.f.) K.F.Chung	OREcol			Non-endemic
<i>Chaerophyllum ramosum</i>	FAC	(Hook.f.) K.F.Chung	CHAram			Non-endemic
<i>Chionochloa crassiuscula</i> subsp. <i>crassiuscula</i>	FAC	(Kirk) Zotov	CHIscr		Pungent snow tussock	Endemic
<i>Chionochloa crassiuscula</i> subsp. <i>directa</i>	FAC	Connor (1991)	CHIcds		Snow tussock	Endemic
<i>Chionochloa crassiuscula</i> subsp. <i>torta</i>	FAC	Connor	CHIcst		Curly snow tussock	Endemic
<i>Chionochloa juncea</i>	FAC	Zotov	CHIjun		North Westland snow tussock	Endemic
<i>Chionochloa rigida</i>	FAC	(Raoul) Zotov	CHIrig			Endemic
<i>Chionochloa rubra</i> subsp. <i>cuprea</i>	FAC	Connor	CHIrsc			Endemic
<i>Chionochloa rubra</i> subsp. <i>occulta</i>	FAC	Connor	CHIrso			Endemic
<i>Chionochloa rubra</i> subsp. <i>rubra</i>	FAC	Zotov	CHIrub		Red tussock	Endemic
<i>Chionochloa teretifolia</i>	FAC	(Petrie) Zotov	CHIter		Terete-leaved snow tussock	Endemic
<i>Christella dentata</i>	FAC	(Forssk.) Brownsey & Jermy	CHRden	<i>Thelypteris dentata</i>	Soft fern	Non-endemic
<i>Cirsium arvense</i>	FACU	(L.) Scop.	CIRarv		Californian thistle	Exotic
<i>Cirsium palustre</i>	FACW	(L.) Scop.	CIRpal		Marsh thistle	Exotic
<i>Cirsium vulgare</i>	FACU	(Savi) Ten.	CIRvul		Scotch thistle	Exotic
<i>Clematis paniculata</i>	UPL	J.F.Gmel.	CLEpan		Puawhananga	Endemic
<i>Collospermum hastatum</i>	UPL	(Colenso) Skottsbo.	COLhas		Kahakaha, tank lily	Endemic
<i>Colobanthus affinis</i>	FACW	(Hook.) Hook.f.	COLaff			Non-endemic
<i>Colobanthus apetalus</i>	FAC	(Labill.) Druce	COLape			Non-endemic
<i>Colobanthus strictus</i>	FAC	Cheeseman	COLstr			Endemic

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<i>Colocasia esculenta</i>	FACW	(L.) Schott	COLesc		Taro	Exotic
<i>Conium maculatum</i>	FAC	L.	CONmac		Hemlock	Exotic
<i>Conyza sumatrensis</i>	FACU	(Retz.) E.H.Walker	CONsum	<i>Conyza albida</i>	Broad-leaved fleabane	Exotic
<i>Coprosma acerosa</i>	UPL	A.Cunn.	COPace		Sand coprosma	Endemic
<i>Coprosma chathamica</i>	FAC	Cockayne	COPcha			Endemic
<i>Coprosma cheesemanii</i>	FACU	W.R.B.Oliv.	COPche			Endemic
<i>Coprosma crenulata</i>	FACU	W.R.B.Oliv.	COPcre			Endemic
<i>Coprosma dumosa</i>	FAC	(Cheeseman) G.T.Jane	COPdmo	<i>Coprosma parviflora</i> var. <i>dumosa</i>		Endemic
<i>Coprosma elatirioides</i>	FACW	de Lange & A.S.Markey	COPela			Endemic
<i>Coprosma foetidissima</i>	FACU	J.R.Forst. & G.Forst.	COPfoe		Hūpiro	Endemic
<i>Coprosma grandifolia</i>	FACU	Hook.f.	COPgra	<i>Coprosma australis</i>	Kanono	Endemic
<i>Coprosma intertexta</i>	UPL	G.Simpson	COPint			Endemic
<i>Coprosma linariifolia</i>	UPL	Hook.f.	COPlin			Endemic
<i>Coprosma pedicellata</i>	FACW	de Lange et B.D.Clarkson	COPped			Endemic
<i>Coprosma perpusilla</i>	FAC	Colenso	COPper	<i>C. pumila sensu</i> NZ		Non- endemic
<i>Coprosma perpusilla</i> <i>subsp. subantarctica</i>	FACW	Orchard	COPpss			Endemic
<i>Coprosma propinqua</i>	FAC	A.Cunn.	COPpro		Mingimingi	Endemic
<i>Coprosma propinqua</i> var. <i>martinii</i>	FACW	W.R.B.Oliv.	COPpvm			Endemic
<i>Coprosma rhamnoides</i>	UPL	A.Cunn.	COPrha			Endemic
<i>Coprosma robusta</i>	FACU	Raoul	COProb		Karamū	Endemic
<i>Coprosma rotundifolia</i>	FAC	A.Cunn.	COProt			Endemic
<i>Coprosma spathulata</i>	UPL	A.Cunn.	COPspa			Endemic
<i>Coprosma tayloriae</i>	FACU	A.P.Druce	COPtay			Endemic
<i>Coprosma tenuicaulis</i>	FACW	Hook.f.	COPtec		Swamp coprosma	Endemic
<i>Coprosma tenuifolia</i>	UPL	Cheeseman	COPtef			Endemic
<i>Coprosma virescens</i>	UPL	Petrie	COPvir			Endemic
<i>Coprosma X</i> <i>cunninghamii</i>	FACW	Hook.f.	COPxcu			Endemic
<i>Cordyline australis</i>	FACW	(G.Forst.) Endl.	CORaus		Cabbage tree, ti kōuka	Endemic
<i>Cordyline banksii</i>	UPL	Hook.f.	CORban		Forest cabbage tree	Endemic
<i>Coriaria arborea</i>	UPL	Linds.	CORarb		Tree tutu	Endemic

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<i>Corokia cotoneaster</i>	UPL	Raoul	CORcot			Endemic
<i>Corokia macrocarpa</i>	FACU	Kirk	CORMcc			Endemic
<i>Cortaderia selloana</i>	FAC	(Schult. & Schult.f.) Asch. & Graebn.	CORsel		Pampas	Exotic
<i>Corunastylis nuda</i>	FAC	(Hook.f.) D.L.Jones & M.A.Clem.	CORNud	<i>Prasophyllum nudum</i>		Non-endemic
<i>Cotula coronopifolia</i>	FACW	L.	COTcor		Yellow buttons	Non-endemic
<i>Crassula helmsii</i>	FACW	(Kirk) Cockayne	CRAhel	<i>Tillaea helmsii</i>		Endemic
<i>Crassula kirkii</i>	FAC	(Allan) A.P.Druce & D.R.Given	CRAkir	<i>Tillaea kirkii</i>		Endemic
<i>Crassula moschata</i>	FAC	G.Forst.	CRAmos	<i>Tillaea moschat</i>		Non-endemic
<i>Crassula multicaulis</i>	FACW	(Petrie) A.P.Druce & D.R.Given	CRAmul	<i>Tillaea multicaulis</i>		Endemic
<i>Crassula peduncularis</i>	FACW	(Sm.) F.Meigen	CRAped	<i>Tillaea purpurata</i>		Non-endemic
<i>Crassula ruamahanga</i>	FACW	A.P.Druce	CRAhun	<i>Tillaea acutifolia</i> , <i>Tillaea pusilla</i> , <i>Crassula hunua</i>		Endemic
<i>Crassula sinclairii</i>	OBL	(Hook.f.) A.P.Druce & Given	CRAsin	<i>Tillaea sinclairii</i>		Endemic
<i>Crepis capillaris</i>	FACU	(L.) Wallr.	CREcap		Hawksbeard	Exotic
<i>Cryptostylis subulata</i>	OBL	(Labill.) Rchb.f.	CRYsub		Duck orchid	Non-endemic
<i>Ctenopteris heterophylla</i>	UPL	(Labill.) Tindale	CTEhet			Non-endemic
<i>Cyathea cunninghamii</i>	FACU	Hook.f. in Hook.	CYAcun		Gully treefern	Non-endemic
<i>Cyathea dealbata</i>	UPL	(G.Forst.) Sw.	CYAdea		Ponga, silver fern	Endemic
<i>Cyathea medullaris</i>	FACU	(G.Forst.) Sw.	CYAmcd		Mamaku	Non-endemic
<i>Cyclosorus interruptus</i>	FACW	(Willd.) H.Itô	CYCint	<i>Thelypteris gongylodes</i>		Non-endemic
<i>Cynosurus cristatus</i>	UPL	L.	CYNcri		Crested dogstail	Exotic
<i>Cyperus alternifolius</i> subsp. <i>flabelliformis</i>	FACW	Kük.	CYPinv	<i>Cyperus involucratus</i>		Exotic
<i>Cyperus congestus</i>	FAC	Vahl	CYPcon		Purple umbrella sedge	Exotic
<i>Cyperus eragrostis</i>	FACW	Lam.	CYPera		Umbrella sedge	Exotic
<i>Cyperus papyrus</i>	OBL	L.	CYPpap		Papyrus	Exotic

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<i>Cyperus ustulatus</i>	FACW	A.Rich.	CYPust		Giant umbrella sedge, Upokotangata	Endemic
<i>Cytisus scoparius</i>	UPL	(L.) Link	CYTSCO		Broom	Exotic
<i>Dacrycarpus dacrydioides</i>	FACW	(A. Rich.) Laub.	DACdac		Kahikatea, white pine	Endemic
<i>Dacrydium cupressinum</i>	FACU	Lamb.	DACCup		Rimu, red pine	Endemic
<i>Dactylis glomerata</i>	FACU	L.	DACglo		Cocksfoot	Exotic
<i>Deparia petersenii</i>	FAC	(Kunze) M.Kato	DEPpet			Non-endemic
<i>Deschampsia cespitosa</i>	FACW	(L.) P.Beauv.	DESCes		Tufted hair grass	Non-endemic
<i>Deschampsia chapmanii</i>	FACW	Petrie	DEScha	<i>Deschampsia novae-zelandiae</i>		Endemic
<i>Deyeuxia avenoides</i>	UPL	(Hook.f.) Buchanan	DEYave		Mountain oat grass	Endemic
<i>Deyeuxia quadriseta</i>	FAC	(Labill.) Benth	DEYqua			Non-endemic
<i>Dianella haemata</i>	FACW	Heenan & de Lange	DIHae			Endemic
<i>Dianella nigra</i>	UPL	Colenso	DIAnig		Inkberry	Endemic
<i>Dichondra brevifolia</i>	FAC	Buchanan	DICbre			Non-endemic
<i>Dichondra micrantha</i>	FACU	Urb.	DICmic		Mercury Bay weed	Exotic
<i>Dicksonia fibrosa</i>	UPL	Colenso	DICfib		Wheki-ponga	Endemic
<i>Dicksonia squarrosa</i>	FACU	(G.Forst.) Sw.	DICsqu		Whekī	Endemic
<i>Dicranopteris linearis</i>	FACU	(Burm.f.) Underw.	DIClin	<i>Gleichenia linearis</i>		Non-endemic
<i>Digitalis purpurea</i>	UPL	L.	DIGpur		Foxglove	Exotic
<i>Discaria toumatou</i>	UPL	Raoul	DISStou		Matagouri	Endemic
<i>Donatia novae-zelandiae</i>	OBL	Hook.f.	DONnov			Non-endemic
<i>Dracophyllum arboreum</i>	FACW	Cockayne	DRAarb			Endemic
<i>Dracophyllum lessonianum</i>	FAC	A.Rich.	DRAles			Endemic
<i>Dracophyllum longifolium</i>	FACU	(J.R.Forst. & G.Forst.) R.Br.	DRAlon		Inanga	Endemic
<i>Dracophyllum oliveri</i>	FACW	Du Rietz	DRAoli			Endemic
<i>Dracophyllum palustre</i>	OBL	Cockayne ex W.R.B.Oliv.	DRApal			Endemic
<i>Dracophyllum politum</i>	FACW	(Cheeseman) Cockayne	DRApol			Endemic
<i>Dracophyllum prostratum</i>	FACW	Kirk	DRApro			Endemic



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<i>Dracophyllum scoparium</i>	OBL	Hook.f.	DRAsco			Endemic
<i>Dracophyllum subulatum</i>	FAC	Hook.f.	SRAsub		Monoao	Endemic
<i>Drosera arcturi</i>	OBL	Hook.	DROARC			Non-endemic
<i>Drosera auriculata</i>	FAC	Backh. ex Planch.	DROaur	<i>Drosera peltata</i> subsp. <i>auriculata</i>		Non-endemic
<i>Drosera binata</i>	OBL	Labill.	DRObin		Forked sundew	Non-endemic
<i>Drosera pygmaea</i>	FACW	DC.	DROpyg			Non-endemic
<i>Drosera spathulata</i>	FACW	Labill.	DROspa			Non-endemic
<i>Drosera stenopetala</i>	OBL	Hook.f.	DROste			Endemic
<i>Egeria densa</i>	OBL	Planch.	EGEden		Egeria	Exotic
<i>Eichhornia crassipes</i>	OBL	(Mart.) Solms			Water hyacinth	Exotic
<i>Elatine gratioloides</i>	OBL	A.Cunn.	ELAgra			Non-endemic
<i>Eleocharis acuta</i>	OBL	R.Br.	ELEacu		Sharp spike-sedge	Non-endemic
<i>Eleocharis gracilis</i>	OBL	R.Br.	ELEgra		Slender spike-sedge	Non-endemic
<i>Eleocharis neozelandica</i>	OBL	C.B.Clarke ex Kirk	ELEnov			Endemic
<i>Eleocharis pusilla</i>	OBL	R.Br.	ELEpus			Endemic
<i>Eleocharis sphacelata</i>	OBL	R.Br.	ELEsph		Tall spike sedge	Non-endemic
<i>Elodea canadensis</i>	OBL	Michx.	ELOcan		Canadian pondweed	Exotic
<i>Empodisma minus</i>	OBL	(Hook.f.) L.A.S.Johnson & D.F.Cutler	EMPmin	<i>Calorophus minor</i>	Wire rush	Non-endemic
<i>Empodisma robustum</i>	OBL	Wagstaff & B.R.Clarkson	EMProb	<i>Empodisma minus</i> north of 38°S	Wire rush	Endemic
<i>Epacris pauciflora</i>	FACW	A.Rich.	EPApau		Tamingi	Endemic
<i>Epilobium alsinoides</i>	FACU	A.Cunn.	EPIals			Endemic
<i>Epilobium alsinoides subsp. atriplicifolium</i>	FACU	(A.Cunn.) P.H.Raven & Engelhorn		<i>Epilobium atriplicifolium</i>		Non-endemic
<i>Epilobium angustum</i>	OBL	(Cheeseman) P.H.Raven & Engelhorn	EPIang			Endemic
<i>Epilobium billardioreanum</i>	FACW	(Ser.) DC.	EPIbil			Non-endemic
<i>Epilobium billardioreanum subsp. cinereum</i>	UPL	(A.Rich.) P.H.Raven & Engelhorn	EPIbsc	<i>Epilobium cinereum</i>		Non-endemic

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<i>Epilobium brunnescens</i>	FACW	(Cockayne) P.H.Raven & Engelhorn	EPIbru			Endemic
<i>Epilobium chionanthum</i>	OBL	Hauskn.	EPIchi			Endemic
<i>Epilobium ciliatum</i>	FAC	Raf.	EPIcil			Exotic
<i>Epilobium gunnianum</i>	OBL	Hauskn.	EPIgun			Non-endemic
<i>Epilobium hirtigerum</i>	FAC	A.Cunn.	EPIhir			Non-endemic
<i>Epilobium insulare</i>	OBL	Hauskn.	EPIins			Endemic
<i>Epilobium komarovianum</i>	FACW	H.Lév.	EPIkom			Non-endemic
<i>Epilobium macropus</i>	OBL	Hook.	EPImac			Endemic
<i>Epilobium matthewsii</i>	FAC	Petrie	EPImat			Endemic
<i>Epilobium nerteroides</i>	FAC	A.Cunn.	EPIner			Endemic
<i>Epilobium obscurum</i>	FACW	Schreb.	EPIobs			Exotic
<i>Epilobium pallidiflorum</i>	OBL	A.Cunn.	EPIpal			Non-endemic
<i>Epilobium parviflorum</i>	OBL	Schreb.				Exotic
<i>Epilobium pernitens</i>	FACW	Cockayne & Allan	EPIper			Endemic
<i>Epilobium tetragonum</i>	FACW	L.	EPItet			Exotic
<i>Equisetum arvense</i>	FACU	L.	EQUarv		Field horsetail	Exotic
<i>Erechtites hieraciifolia</i>	FAC	(L.) DC.	ERLhie		American fireweed	Exotic
<i>Erica lusitanica</i>	FACU	Rudolphi	ERIlus		Spanish heath	Exotic
<i>Eryngium vesiculosum</i>	FAC	Labill.	ERYves		Sea holly	Non-endemic
<i>Erythranthe guttata</i>	OBL	(Fisch. ex DC.) G.L.Nesom	MIMgut	<i>Mimulus guttatus</i>	Monkey musk	Exotic
<i>Euchiton audax</i>	FACU	(D.G.Drury) Holub	EUCaud	<i>Gnaphalium audax</i>		Endemic
<i>Euchiton delicatus</i>	FAC	(D.G.Drury) Holub	EUCdel	<i>Gnaphalium delicatum</i>		Non-endemic
<i>Euchiton ensifer</i>	FACW	(D.G.Drury) Holub	EUCens	<i>Gnaphalium ensifer</i>		Endemic
<i>Euchiton involucratus</i>	FAC	(D.G.Drury) Holub	EUCinv	<i>Gnaphalium involucratum</i>		Non-endemic
<i>Euchiton lateralis</i>	FACW	(C.J.Webb) Breitw. & J.M.Ward	EUClat	<i>Gnaphalium laterale</i>		Non-endemic
<i>Euchiton limosus</i>	FAC	(D.G.Drury) Holub	EUClim	<i>Gnaphalium limosum</i>		Endemic
<i>Euchiton paludosus</i>	FACW	(Petrie) Holub	EUCpal	<i>Gnaphalium paludosum</i>		Endemic
<i>Euchiton polylepis</i>	FACW	(D.G.Drury) Breitw. &	EUCpol	<i>Gnaphalium polylepis</i>		Endemic

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<i>Euchiton ruahenicus</i>	FACU	J.M.Ward (D.G.Drury) Breitw. & J.M.Ward	EUCrua	<i>Gnaphalium ruahenicum</i>		Endemic
<i>Euchiton traversii</i>	FAC	(Hook.f.) Holub	EUCtra	<i>Gnaphalium traversii</i>		Non-endemic
<i>Euphrasia cuneata</i>	UPL	G.Forst.	EUPcun			Endemic
<i>Euphrasia disperma</i>	OBL	Hook.f.	EUPdis			Endemic
<i>Euphrasia dyeri</i>	OBL	Wettst.	EUPdye			Endemic
<i>Euphrasia repens</i>	OBL	Hook.f.	EUPrep			Endemic
<i>Euphrasia revoluta</i>	FAC	Hook.f.	EUPrev			Endemic
<i>Euphrasia wettsteiniana</i>	OBL	Du Rietz				Endemic
<i>Euphrasia zelandica</i>	FAC	Wettst.	EUPzel			Endemic
<i>Festuca novae-zelandiae</i>	UPL	(Hack.) Cockayne	FESnov		Hard tussock	Endemic
<i>Festuca rubra</i>	FACU	L.	FESrub		Chewing's fescue	Exotic
<i>Ficinia nodosa</i>	FACU	(Rottb.) Goetgh., Muasya & D.A.Simpson	FICnod	<i>Scirpus nodosus</i>	Knobby clubrush	Non-endemic
<i>Forstera sedifolia</i>	FACU	G.Forst.	FORsed			Endemic
<i>Forstera tenella</i>	FAC	Hook.f.	FORten			Endemic
<i>Freycinetia baueriana</i>	FACU	Endl.	FREbau	<i>Freycinetia banksii</i>	Kiekie	Non-endemic
<i>Fuchsia excorticata</i>	FACU	(J.R.Forst. Et G.Forst.) L.f.	FUCexc		Kotukutuku, tree fuchsia	Endemic
<i>Fuchsia perscandens</i>	FACU	Cockayne et Allan	FUCper		Fuchsia	Endemic
<i>Fuchsia procumbens</i>	FACU	A.Cunn.	FUCpro		Creeping fuchsia	Endemic
<i>Gahnia procera</i>	FACU	J.R.Forst. & G.Forst.	GAHpro			Endemic
<i>Gahnia rigida</i>	FACW	Kirk	GAHrig			Endemic
<i>Gahnia xanthocarpa</i>	FAC	(Hook.f.) Hook.f.	GAHxan		Kauri grass	Endemic
<i>Gaimardia setacea</i>	OBL	Hook.f.	GAHSset			Non-endemic
<i>Galium aff. perpusillum</i> (CHR 476063; Kaitorete)	OBL					Endemic
<i>Galium palustre</i>	OBL	L.	GALpal		Marsh bedstraw	Exotic
<i>Galium perpusillum</i>	FACU	(Hook.f.) Allan	GALper			Endemic
<i>Galium propinquum</i>	FACU	A.Cunn.	GALpro		Mawe	Non-endemic
<i>Galium trilobum</i>	FACU	Colenso	GALtri	<i>Galium tenuicaule</i>		Endemic
<i>Gamocheta coarctata</i>	FACU	(Willd.) Kerg.	GAMcoa	<i>Gnaphalium spicatum</i>		Exotic

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<i>Gaultheria depressa</i> var. <i>depressa</i>	FACU	Hook.f.	GAUdvd		Mountain snowberry	Non-endemic
<i>Gaultheria depressa</i> var. <i>novae-zealandiae</i>	FACU	D.A.Franklin	GAUdvn			Endemic
<i>Gaultheria macrostigma</i>	FACU	(Colenso) D.J.Middleton	GAUmac	<i>Pernettya macrostigma</i>		Endemic
<i>Gaultheria nubicola</i>	FAC	D.J. Middleton	GAUnub	<i>Pernettya alpina</i>		Endemic
<i>Gaultheria parvula</i>	FAC	D.J.Middleton	GAUpar			Endemic
<i>Geniostoma rupestre</i> var. <i>ligustrifolium</i>	FACU	(A.Cunn.) B.J.Conn	GENrup	<i>Geniostoma ligustrifolium</i>	Hangehange	Non-endemic
<i>Gentianella amabilis</i>	OBL	(Petrie) Glenny	GNTama	<i>Gentiana amabilis</i>		Endemic
<i>Gentianella bellidifolia</i>	FACU	(Hook.f.) Holub	GNTbel	<i>Gentiana bellidifolia</i>		Endemic
<i>Gentianella chathamica</i>	FAC	(Cheeseman) T.N.Ho & S.W.Liu	GNTcha	<i>Gentiana chathamica</i>		Endemic
<i>Gentianella gracilifolia</i>	FAC	(Cheeseman) T.N.Ho & S.W.Liu	GNTgra	<i>Gentiana gracilifolia</i>		Endemic
<i>Gentianella grisebachii</i>	FACW	(Hook.f.) T.N.Ho	GNTgri	<i>Gentiana grisebachii</i>		Endemic
<i>Gentianella lineata</i>	FACW	(Kirk) T.N.Ho & S.W.Liu	GNTlin	<i>Gentiana lineata</i>		Endemic
<i>Gentianella montana</i>	FACW	(G.Forst.) Holub	GNTmon	<i>Gentiana townsonii</i> , <i>Gentiana montana</i>		Endemic
<i>Gentianella saxosa</i>	UPL	(G.Forst.) Holub	GNTsax	<i>Gentiana saxosa</i>		Endemic
<i>Gentianella spenceri</i>	FACU	(Kirk) T.N.Ho & S.W.Liu	GNTspe	<i>Gentiana spenceri</i>		Endemic
<i>Geranium brevicaule</i>	FACU	Hook.f.	GERbre	<i>Geranium sessiliflorum</i>		Non-endemic
<i>Geranium microphyllum</i>	FACU	Hook.f.	GERmic			Endemic
<i>Gingidia trifoliolata</i>	FAC	(Hook.f.) J.W.Dawson	GINtri	<i>Angelica trifoliolata</i>		Endemic
<i>Gleichenia alpina</i>	FACW	R. Br.	GLEalp	<i>Gleichenia dicarpa</i> var. <i>alpina</i>	Alpine tangle fern	Non-endemic
<i>Gleichenia dicarpa</i>	FACW	R.Br.	GLEdic	<i>Gleichenia circinnata</i>	Tangle fern	Non-endemic
<i>Gleichenia microphylla</i>	FAC	R.Br.	GLEmic		Carrier tangle fern	Non-endemic
<i>Glossostigma cleistanthum</i>	OBL	W.R.Barker				Non-endemic
<i>Glossostigma diandrum</i>	OBL	(L.) Kuntze		<i>Glossostigma submersum</i>		Endemic
<i>Glossostigma elatinooides</i>	OBL	Benth. ex Hook.f.	GLOela			Non-endemic

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<i>Glyceria declinata</i>	OBL	Bréb.	GLYdec		Glaucous sweetgrass	Exotic
<i>Glyceria fluitans</i>	OBL	(L.) R.Br.	GLYflu		Floating sweetgrass	Exotic
<i>Glyceria maxima</i>	OBL	(Hartm.) Holmb.	GLYmax		Reed sweetgrass	Exotic
<i>Glyceria plicata</i>	OBL	(Fr.) Fr.	GLYpli			Exotic
<i>Gonocarpus aggregatus</i>	FACU	(Buchanan) Orchard	GONagg	<i>Haloragis depressa</i>		Endemic
<i>Gonocarpus micranthus</i>	FAC	Thunb.	GONmic	<i>Haloragis micrantha</i>		Non-endemic
<i>Gratiola concinna</i>	FACW	Colenso	GRAnan	<i>Gratiola nana</i>		Non-endemic
<i>Gratiola pedunculata</i>	FACW	R.Br.				Non-endemic
<i>Gratiola sexdentata</i>	OBL	R.Cunn. ex A.Cunn.	GRAsex			Non-endemic
<i>Griselinia littoralis</i>	UPL	Raoul	GRlilit		Broadleaf	Endemic
<i>Gunnera densiflora</i>	FACW	Hook.f.				Endemic
<i>Gunnera dentata</i>	FACW	Kirk	GUNden	<i>Gunnera arenaria</i>		Endemic
<i>Gunnera monoica</i>	FAC	Raoul	GUNmon	<i>Gunnera albocarpa</i> , <i>G. strigosa</i> , <i>G. X mixta</i>		Endemic
<i>Gunnera prorepens</i>	FACW	Hook.f.	GUNpro	<i>Gunnera flavida</i>		Endemic
<i>Gunnera tinctoria</i>	FAC	(Molina) Mirb.			Chilean rhubarb	Exotic
<i>Hakea gibbosa</i>	FACU	Cav.	HAKgib			Exotic
<i>Hakea sericea</i>	FACU	Schrad. & J.C.Wendl.	HAKser		Prickly hakea	Exotic
<i>Halocarpus bidwillii</i>	FAC	(Kirk) Quinn	HALbid	<i>Dacrydium bidwillii</i>	Bog pine	Endemic
<i>Halocarpus biformis</i>	FAC	(Hook.) Quinn	HALbif	<i>Dacrydium biforme</i>	Pink pine	Endemic
<i>Haloragis erecta</i>	FACU	(Murray) Oken	HALere			Endemic
<i>Hebe paludosa</i>	FACW	(Cockayne)D.A.Norton et de Lange		<i>Hebe salicifolia</i> var. <i>paludosa</i>		Endemic
<i>Hebe pauciramosa</i>	FAC	(Cockayne & Allan) L.B.Moore	HEBpau			Endemic
<i>Hebe salicifolia</i>	UPL	(G.Forst.) Pennell	HEBsal		Koromiko	Non-endemic
<i>Hebe stricta</i>	FACU	(Benth.) L.B.Moore	HEBstr		Koromiko	Endemic
<i>Hebe stricta</i> var. <i>egmontiana</i>	FACU	L.B.Moore	HEBegm			Endemic
<i>Hedycarya arborea</i>	UPL	J.R.Forst. & G.Forst.	HEDarb		Pigeonwood	Endemic

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<i>Helichrysum filicaule</i>	FACU	Hook.f.	HELfil			Endemic
<i>Herpolirion novae-zealandiae</i>	FAC	Hook.f.	HERnov		Grass lily	Non-endemic
<i>Hesperantha coccinea</i>	FACW	(Backh.&Harv.) J.C.Manning	Goldblatt &	<i>Schizostylis coccinea</i>	Kaffir lily	Exotic
<i>Hibiscus diversifolius</i>	FACU	Jacq.	HIBdiv			Non-endemic
<i>Hieracium lepidulum</i>	UPL	(Stenstr.) Omang	HIElep		Tussock hawkweed	Exotic
<i>Hierochloe equisetata</i>	FAC	Zotov	HIEequ			Endemic
<i>Hierochloe redolens</i>	FAC	(Vahl) Roem. & Schult.	HIEred		Karetu	Non-endemic
<i>Histiopteris incisa</i>	FAC	(Thunb.) J.Sm.	HISinc		Water fern	Non-endemic
<i>Hoheria angustifolia</i>	FAC	Raoul	HOHang		Narrow-leaved lacebark	Endemic
<i>Holcus lanatus</i>	FAC	L.	HOLLan		Yorkshire fog	Exotic
<i>Huperzia australiana</i>	FACW	(Herter) Holub	HUPaus	<i>Lycopodium australianum</i>	Fir clubmoss	Non-endemic
<i>Huperzia varia</i>	UPL	(R.Br.) Trevis.	HUPvar	<i>Lycopodium varium</i>		Non-endemic
<i>Hydrocleys nymphoides</i>	OBL	(Humb. & Bonpl.) Buchenau	HYDnym		Water poppy	Exotic
<i>Hydrocotyle dissecta</i>	FACU	Hook.f.	HYDdis			Endemic
<i>Hydrocotyle heteromeria</i>	FACU	A.Rich.	HydHet	<i>Hydrocotyle americana</i>		Endemic
<i>Hydrocotyle hydrophila</i>	OBL	Petrie	HYDhyd			Endemic
<i>Hydrocotyle microphylla</i>	FAC	A.Cunn.	HYDmic			Endemic
<i>Hydrocotyle novae-zealandiae</i>	FAC	DC.	HYDnov			Endemic
<i>Hydrocotyle pterocarpa</i>	OBL	F.Muell.	HYDpte			Non-endemic
<i>Hydrocotyle sulcata</i>	FACW	C.J.Webb & P.N.Johnson	HYDsul	<i>Hydrocotyle tripartita</i>		Endemic
<i>Hymenophyllum demissum</i>	UPL	(G.Forst.) Sw.	HYMdem			Endemic
<i>Hymenophyllum dilatatum</i>	UPL	(G.Forst.) Sw.	HYMdil			Endemic
<i>Hymenophyllum multifidum</i>	UPL	(G.Forst.) Sw.	HYMmul			Endemic
<i>Hymenophyllum scabrum</i>	UPL	A.Rich.	HYMsca			Endemic
<i>Hypericum humifusum</i>	FAC	L.	HYPhum		Trailing St John's wort	Exotic
<i>Hypericum minutiflorum</i>	FACW	Heenan				Endemic

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<i>Hypericum mutilum</i>	FACW	L.	HYPmut			Exotic
<i>Hypericum perforatum</i>	UPL	L.	HYPper		St John's wort	Exotic
<i>Hypericum pusillum</i>	OBL	Choisy	HYPjap	<i>Hypericum japonicum</i>		Non-endemic
<i>Hypericum rubicundulum</i>	OBL	Heenan				Endemic
<i>Hypericum tetrapterum</i>	FACW	Fr.	HYPtet			Exotic
<i>Hypochaeris radicata</i>	FACU	L.	HYPrad		Catsear	Exotic
<i>Hypolepis ambigua</i>	UPL	(A.Rich.) Brownsey & Chinnock	HYPamb			Endemic
<i>Hypolepis dicksonioides</i>	FACU	(Endl.) Hook.	HYPdic		Giant hypolepis	Non-endemic
<i>Hypolepis distans</i>	FAC	Hook.	HYPdis			Non-endemic
<i>Ileostylus micranthus</i>	UPL	(Hook.f.) Tiegh.	ILEmic	<i>Loranthus micranthus</i>		Endemic
<i>Iphigenia novae-zelandiae</i>	FAC	(Hook.f.) Baker	IPHnov			Endemic
<i>Iris pseudacorus</i>	OBL	L.	IRIpse		Yellow flag	Exotic
<i>Isachne globosa</i>	OBL	(Thunb.) Kuntze	ISAglo	<i>Isachne australis</i>	Swamp millet	Non-endemic
<i>Isoetes alpina</i>	OBL	Kirk				Endemic
<i>Isoetes kirkii</i>	OBL	A.Braun	ISOkir		Quillwort	Endemic
<i>Isolepis aucklandica</i>	OBL	Hook.f.	ISOauc	<i>Scirpus aucklandicus</i>		Non-endemic
<i>Isolepis australiensis</i>	FACW	(Maiden & Betche) K.L.Wilson		<i>Scirpus australiensis</i>		Exotic
<i>Isolepis basilaris</i>	OBL	Hook.f.	ISObas	<i>Scirpus basilaris</i>		Endemic
<i>Isolepis caligenis</i>	OBL	(V.J.Cook) Soják	ISOcal	<i>Scirpus caligenis</i>		Endemic
<i>Isolepis cernua</i>	OBL	(Vahl) Roem. & Schult.	ISOcer	<i>Scirpus cernuus</i>		Non-endemic
<i>Isolepis cernua var. platycarpa</i>	FACW	(S.T.Blake) Soják		<i>Isolepis platycarpa</i>		Exotic
<i>Isolepis crassiuscula</i>	OBL	Hook.f.	ISOcra	<i>Scirpus crassiusculus</i>		Non-endemic
<i>Isolepis distigmatica</i>	OBL	(C.B.Clarke) Edgar	ISOdis	<i>Scirpus sulcatus</i> var. <i>distigmaticus</i>		Endemic
<i>Isolepis fluitans</i>	OBL	(L.) R.Br.	ISOflu	<i>Scirpus fluitans</i>		Non-endemic
<i>Isolepis habra</i>	FACW	(Edgar) Soják	ISOhab	<i>Scirpus habrus</i>		Non-endemic
<i>Isolepis inundata</i>	OBL	R.Br.	ISOinu	<i>Scirpus inundatus</i>		Non-endemic
<i>Isolepis levynsiana</i>	FAC	Muasya & D.A.Simpson	CYPten	<i>Cyperus tenellus</i>		Exotic

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<i>Isolepis marginata</i>	FAC	(Thunb.) A.Dietr.	ISOmar	<i>Scirpus antarcticus</i>		Exotic
<i>Isolepis pottsii</i>	FAC	(V.J.Cook) Soják	Ispot	<i>Scirpus pottsii</i>		Endemic
<i>Isolepis praetextata</i>	FAC	(Edgar) Soják	ISOpra	<i>Scirpus praetextatus</i>		Endemic
<i>Isolepis prolifera</i>	OBL	(Rottb.) R.Br.	ISOpro	<i>Scirpus prolifer</i> , <i>Isolepis globosa</i>		Non-endemic
<i>Isolepis reticularis</i>	FACW	Colenso	ISOret	<i>Scirpus reticularis</i>		Endemic
<i>Isolepis sepulcralis</i>	FAC	Steud.	ISOsep	<i>Scirpus chlorostachyus</i>		Exotic
<i>Isolepis setacea</i>	FACW	(L.) R.Br.	ISOset	<i>Scirpus setaceus</i>		Exotic
<i>Isolepis subtilissima</i>	FACW	Boeck.	ISOsub	<i>Scirpus subtilissimus</i>		Non-endemic
<i>Isotoma fluviatilis</i>	FACW	(R.Br.) F.Muell. ex Benth.	ISTflu			Non-endemic
<i>Jacobaea aquatica</i>	FACW	(Rill) P. Gaertn., B. Mey. et Scherb.	JACaqu	<i>Senecio aquaticus</i>		Exotic
<i>Jacobaea vulgaris</i>	FACU	Gaertn.	SENjac	<i>Senecio jacobaea</i>	Ragwort	Exotic
<i>Juncus acuminatus</i>	OBL	Michx.	JUNacu		Sharp-fruited rush	Exotic
<i>Juncus acutiflorus</i>	FACW	Ehrh. ex Hoffm.	JUNact		Sharp-flowered rush	Exotic
<i>Juncus acutus</i>	FACW	L.			Sharp rush	Exotic
<i>Juncus amabilis</i>	FACU	Edgar	JUNama			Exotic
<i>Juncus antarcticus</i>	OBL	Hook.f.	JUNant			Non-endemic
<i>Juncus articulatus</i>	FACW	L.	JUNart		Jointed rush	Exotic
<i>Juncus australis</i>	FACW	Hook.f.	JUNaus			Non-endemic
<i>Juncus brachycarpus</i>	FACW	Engelm.	JUNbra			Exotic
<i>Juncus bufonius</i>	FACW	L.	JUNnbuf		Toad rush	Exotic
<i>Juncus bulbosus</i>	OBL	L.	JUNbul		Bulbous rush	Exotic
<i>Juncus caespiticius</i>	OBL	E.Mey.	JUNcae			Non-endemic
<i>Juncus canadensis</i>	OBL	J.Gay	JUNcan			Exotic
<i>Juncus conglomeratus</i>	FACW	L.	JUNcon			Exotic
<i>Juncus dichotomus</i>	FACW	Elliott	JUNdic			Exotic
<i>Juncus distegus</i>	FACW	Edgar	JUNdis			Endemic
<i>Juncus dregeanus</i>	DELET E	Kunth	JUNdre			Exotic
<i>Juncus edgariae</i>	FACW	L.A.S.Johnson & K.L.Wilson	JUNedg	<i>Juncus gregiflorus</i>		Endemic
<i>Juncus effusus</i>	FACW	L.	JUNeff		Soft rush	Exotic



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<i>Juncus effusus</i> var. <i>compactus</i>	OBL	Lej. & Courtois	JUNevc			Exotic
<i>Juncus ensifolius</i>	FACW	Wikstr.	JUNens			Exotic
<i>Juncus filicaulis</i>	FAC	Buchenau	JUNfil			Exotic
<i>Juncus flavidus</i>	FAC	L.A.S.Johnson	JUNfla			Exotic
<i>Juncus fockei</i>	OBL	Buchenau	JUNfoc			Exotic
<i>Juncus gerardii</i>	FACW	Loisel.	JUNger		Saltmarsh rush	Exotic
<i>Juncus holoschoenus</i>	OBL	R.Br.	JUNhol			Non-endemic
<i>Juncus inflexus</i>	FACW	L.	JUNinf		Hard rush	Exotic
<i>Juncus kraussii</i> subsp. <i>australiensis</i>	FACW	(Buchenau) Snogerup	JUNksa	<i>Juncus maritimus</i> var. <i>australiensis</i>	Sea rush	Non-endemic
<i>Juncus lomatophyllus</i>	FACW	Spreng.	JUNlom			Exotic
<i>Juncus microcephalus</i>	FACW	Kunth	JUNmic			Exotic
<i>Juncus novae-zelandiae</i>	FACW	Hook.f.	JUNnov			Endemic
<i>Juncus pallidus</i>	FACW	R.Br.	JUNpal			Non-endemic
<i>Juncus pauciflorus</i>	FACW	R.Br.	JUNpau			Non-endemic
<i>Juncus planifolius</i>	FACW	R.Br.	JUNpla			Non-endemic
<i>Juncus prismatocarpus</i>	FACW	R.Br.	JUNpri			Non-endemic
<i>Juncus procerus</i>	FACW	E.Mey.	JUNpro			Exotic
<i>Juncus pusillus</i>	OBL	Buchenau	JUNpus			Non-endemic
<i>Juncus sarophorus</i>	FACW	L.A.S.Johnson	JUNsar			Non-endemic
<i>Juncus scheuchzerioides</i>	OBL	Gaudich.	JUNsch			Non-endemic
<i>Juncus sonderianus</i>	FACW	Buchenau	JUNson			Exotic
<i>Juncus squarrosus</i>	FACW	L.	JUNsqu		Heath rush	Exotic
<i>Juncus subnodulosus</i>	FACW	Schrank	JUNsub			Exotic
<i>Juncus tenuis</i>	FACU	Willd.	JUNten		Track rush	Exotic
<i>Juncus tenuis</i> subsp. <i>anthelatus</i>	FAC	(Wiegand) F.Verloove & J.Lambinon				Exotic
<i>Juncus usitatus</i>	FACW	L.A.S.Johnson	JUNusi			Non-endemic
<i>Knightia excelsa</i>	UPL	R.Br.	KNlexc		Rewarewa	Endemic
<i>Kyllinga brevifolia</i>	FAC	Rottb.	CYPbre	<i>Cyperus brevifolius</i>	Globe sedge	Exotic
<i>Lachnagrostis filiformis</i>	FACW	(G.Forst.) Trin.	LACfil		Wind grass	Non-endemic

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<i>Lachnagrostis lyallii</i>	FACU	(Hook.f.) Zotov		<i>Lachnagrostis filiformis</i> var. <i>semiglabra</i>		Endemic
<i>Lagarosiphon major</i>	OBL	(Ridl.) Moss ex Wager	LAGmaj		Lagarosiphon	Exotic
<i>Lagenifera petiolata</i>	UPL	Hook.f.	LAGpet			Endemic
<i>Lagenifera pumila</i>	UPL	(G.Forst.) Cheeseman	LAGpum			Endemic
<i>Landoltia punctata</i>	OBL	(G.Mey.) Les & D.J.Crawford	SPIpun	<i>Spirodela punctata</i> , <i>S. oligorrhiza</i>	Purple-backed duckweed	Exotic
<i>Laurelia novae-zelandiae</i>	FAC	A.Cunn.	LAUnov		Pukatea	Endemic
<i>Lemna disperma</i>	OBL	Hegelm.	LEMmin	<i>Lemna minor</i>	Duckweed	Non-endemic
<i>Leontodon taraxacoides</i>	FAC	(Vill.) Mérat	LEOtar		Hawkbit	Exotic
<i>Lepidosperma australe</i>	FACW	(A.Rich.) Hook.f.	LEPaus		Square sedge	Endemic
<i>Lepidosperma laterale</i>	FACU	R.Br.	LEPlat			Non-endemic
<i>Lepidosperma neozelandicum</i>	FACW	(Kük.) R.L.Barrett & K.L.Wilson	LEPfil	<i>Lepidosperma filiforme</i>		Non-endemic
<i>Lepidothamnus laxifolius</i>	FAC	(Hook.f.) Quinn	LEPlax	<i>Dacrydium laxifolium</i>	Pygmy pine	Endemic
<i>Lepidothamnus intermedius</i>	FAC	(Kirk) Quinn	LEPint	<i>Dacrydium intermedium</i>	Yellow-silver pine	Endemic
<i>Lepilaena bilocularis</i>	OBL	Kirk	LEPbil			Non-endemic
<i>Leptecophylla robusta</i>	FACW	(Hook.f.) C.M.Weiller	CYArob	<i>Cyathodes robusta</i>		Endemic
<i>Leptinella dioica</i>	FACU	Hook.f.	LEPdio	<i>Cotula dioica</i>		Endemic
<i>Leptinella dispersa</i>	FACU	(D.G.Lloyd) D.G.Lloyd & C.J.Webb	LEPdis	<i>Cotula dispersa</i>		Endemic
<i>Leptinella maniototo</i>	FACW	(Petrie) D.G.Lloyd & C.J.Webb	LEPman	<i>Cotula maniototo</i>		Endemic
<i>Leptinella potentillina</i>	FAC	F.Muell.	LEPpot	<i>Cotula potentillina</i>		Endemic
<i>Leptinella squalida</i> subsp. <i>mediana</i>	FACW	(D.G.Lloyd) D.G.Lloyd & C.J.Webb	LEPmed	<i>Cotula squalida</i> subsp. <i>mediana</i>		Endemic
<i>Leptinella squalida</i> subsp. <i>squalida</i>	FACW	Hook.f.	LEPsqu	<i>Cotula squalida</i> (Hook.f.) Hook.		Endemic
<i>Leptospermum scoparium</i>	FAC	J.R.Forst. & G.Forst.	LEPsco		Mānuka	Non-endemic
<i>Leucopogon fasciculatus</i>	FACU	(G.Forst.) A.Rich.	Lufas	<i>Cyathodes fasciculata</i>	Mingimingi	Endemic
<i>Leycesteria formosa</i>	UPL	Wall.	LEYfor		Himalayan honeysuckle	Exotic

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<i>Libertia peregrinans</i>	FACU	Cockayne & Allan	LIBper			Endemic
<i>Ligustrum sinense</i>	FACU	Lour.	LIGsin		Chinese privet	Exotic
<i>Lilaeopsis novae-zelandiae</i>	OBL	(Gand.) A.W.Hill	LILnov	<i>Lilaeopsis orbicularis</i>		Non-endemic
<i>Lilaeopsis ruthiana</i>	OBL	Affolter	LILrut			Non-endemic
<i>Limosella curdieana</i>	OBL	F.Muell.				Exotic
<i>Limosella lineata</i>	OBL	Glück	LIMlin			Non-endemic
<i>Lindsaea linearis</i>	UPL	Sw.	LINlin			Non-endemic
<i>Linum catharticum</i>	FACU	L.	LINcat		Purging flax	Exotic
<i>Liparophyllum gunnii</i>	OBL	Hook.f.	LIPgun			Non-endemic
<i>Lobelia anceps</i>	FACW	L.f.	LOBanc			Non-endemic
<i>Lobelia angulata</i>	FAC	G.Forst.	LOBang		Pānakenake	Endemic
<i>Lobelia arenaria</i>	FAC	(Hook.f.) Heenan & de Lange	LOBare	<i>Pratia arenaria</i>		Endemic
<i>Lobelia fatiscens</i>	OBL	Heenan		<i>Isotoma fluviatilis (Australian endemic)</i>		Endemic
<i>Lobelia ionantha</i>	OBL	Heenan	LOBion	<i>Hypsela rivalis</i>		Endemic
<i>Lobelia perpusilla</i>	FACW	Hook.f.	LOBper	<i>Pratia perpusilla</i>		Endemic
<i>Lonicera japonica</i>	FACU	Thunb.	LONjap		Japanese honeysuckle	Exotic
<i>Lotus corniculatus</i>	FACU	L.	LOTcor			Exotic
<i>Lotus pedunculatus</i>	FAC	Cav.	LOTped		Lotus	Exotic
<i>Ludwigia palustris</i>	OBL	(L.) Elliott	LUDpal		Water purslane	Exotic
<i>Ludwigia peploides subsp. montevidensis</i>	OBL	(Spreng.) P.H.Raven	LUDpep		Primrose willow	Exotic
<i>Lupinus arboreus</i>	UPL	Sims	LUParp		Tree lupin	Exotic
<i>Luzula congesta</i>	FACU	(Thuill.) Lej.	LUZcon			Exotic
<i>Luzula crinita</i>		Hook.f.	LUZcri			Non-endemic
<i>Luzula leptophylla</i>	OBL	Buchenau & Petrie	LUZlep			Endemic
<i>Luzula multiflora</i>	FACU	(Retz.) Lej.	LUZmul			Exotic
<i>Luzula picta var. limosa</i>	FAC	Edgar	LUZpvl			Endemic
<i>Luzula pumila</i>	UPL	Hook.f.	LUZpum			Endemic
<i>Lycopodiella cernua</i>	FAC	(L.) Pic.Serm.	LYCcer	<i>Lycopodium cernuum</i>		Non-endemic
<i>Lycopodiella diffusa</i>	OBL	(R.Br.) B.Øllg.	LYCdif	<i>Lycopodium ramulosum,</i>	Carpet clubmoss	Endemic

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				<i>Lycopodiella ramulosa</i>		
<i>Lycopodiella lateralis</i>	OBL	(R.Br.) B.Øllg.	LYClat	<i>Lycopodium laterale</i>		Non-endemic
<i>Lycopodiella serpentina</i>	OBL	(Kunze) B.Øllg.	LYCser	<i>Lycopodium serpentinum</i>	Bog clubmoss	Non-endemic
<i>Lycopodium fastigiatum</i>	FAC	R.Br.	LYCfas		Alpine clubmoss	Non-endemic
<i>Lycopodium volubile</i>	FACU	G.Forst.	LYCvol		Climbing clubmoss	Non-endemic
<i>Lycopus europaeus</i>	OBL	L.	LYCeur		Gypsywort	Exotic
<i>Lythrum hyssopifolia</i>	FACW	L.	LYThys		Loosestrife	Exotic
<i>Lythrum junceum</i>	FAC	Banks & Sol.	LYTjun		Rose loosestrife	Exotic
<i>Lythrum portula</i>	OBL	(L.) D.A.Webb	LYTpor		Water purslane	Exotic
<i>Lythrum salicaria</i>	FACW	L.	LYTsal		Purple loosestrife	Exotic
<i>Machaerina arthropphylla</i>	OBL	(Nees) T.Koyama	BAUhut	<i>Baumea arthropphylla</i> , <i>B. huttonii</i>		Non-endemic
<i>Machaerina articulata</i>	OBL	(R.Br.) T.Koyama	BAUart	<i>Baumea articulata</i>	Jointed twig rish	Non-endemic
<i>Machaerina complanata</i>	FACW	(Berggr.) S.T.Blake	BAUcom	<i>Baumea complanata</i>		Endemic
<i>Machaerina juncea</i>	FACW	(R.Br.) T.Koyama	BAUjun	<i>Baumea juncea</i>		Non-endemic
<i>Machaerina rubiginosa</i>	OBL	(Spreng.) T.Koyama	BAUrub	<i>Baumea rubiginosa</i>		Non-endemic
<i>Machaerina sinclairii</i>	OBL	(Hook.f.) T.Koyama	MACsin			Non-endemic
<i>Machaerina tenax</i>	FACW	(Hook.f.) T.Koyama	BAUten	<i>Baumea tenax</i>		Endemic
<i>Machaerina teretifolia</i>	FACW	(R.Br.) T.Koyama	BAUter	<i>Baumea teretifolia</i>		Non-endemic
<i>Macropiper excelsum</i>	UPL	(G.Forst.) Miq.	MACexc		Kawakawa	Endemic
<i>Manoao colensoi</i>	FACW	(Hook.) Molloy	MANcol	<i>Lagarostrobos colensoi</i> , <i>Dacrydium colensoi</i>	Silver pine, Manoao	Endemic
<i>Marsilea mutica</i>	OBL	Mett.			Four-leafed water clover	Exotic
<i>Marsippospermum gracile</i>	FAC	(Hook.f.) Buchenau	MARgra			Endemic
<i>Mazus arenarius</i>	FACW	Heenan, P.N.Johnson, & C.J.Webb	MAZare			Endemic
<i>Mazus pumilio</i>	FACW	R.Br.	MAZpum			Non-

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<i>Mazus radicans</i>	FACW	(Hook.f.) Cheeseman	MAZrad			endemic Endemic
<i>Melicytus chathamicus</i>	UPL	(F.Muell.) Garn.- Jones	MELcha			Endemic
<i>Melicytus flexuosus</i>	FACU	Molloy et A.P.Druce				Endemic
<i>Melicytus ramiflorus</i>	FACU	J.R.Forst. & G.Forst.	MELram		Māhoe	Non- endemic
<i>Mentha cunninghamii</i>	FACU	Benth.	MENCun		Native mint, moki	Endemic
<i>Mentha pulegium</i>	FAC	L.	MENpul		Pennyroyal	Exotic
<i>Mentha spicata</i>	FACU	L.	MENspi		Spearmint	Exotic
<i>Mentha spicata subsp. tomentosa</i>	FAC	(Briq.) Harley				Exotic
<i>Mentha suaveolens</i>	FACU	Ehrh.	MENSua		Apple mint	Exotic
<i>Mentha X piperita var. citrata</i>	FACW	(Ehrh.) Briq.			Bergamot mint	Exotic
<i>Mentha X piperita var. piperita</i>	FACW	L.	MENpvp		Peppermint	Exotic
<i>Menyanthes trifoliata</i>	OBL	L.	MENtri		Bogbean	Exotic
<i>Metrosideros excelsa</i>	UPL	Sol. ex Gaertn.	METexc		Pōhutukawa	Endemic
<i>Metrosideros umbellata</i>	UPL	Cav.	METumb		Southern rata	Endemic
<i>Microlaena stipoides</i>	FACU	(Labill.) R.Br.	MICsti		Meadow rice grass	Non- endemic
<i>Microseris scapigera</i>	FAC	(Sol. ex A.Cunn.) Sch.Bip.	MICsca			Non- endemic
<i>Microsorium novae- zealandiae</i>	UPL	(Baker) Copel.	PHYnov	<i>Phymatosorus novae-zealandiae</i>		Endemic
<i>Microsorium pustulatum</i>	UPL	(G.Forst.) Copel.	MICpus	<i>Phymatosorus diversifolius</i>	Hound's tongue	Non- endemic
<i>Microsorium scandens</i>	UPL	(G.Forst.) Tindale	MICscn	<i>Phyamtosorus scandens</i>	Fragrant fern	Non- endemic
<i>Microtis oligantha</i>	FAC	L.B.Moore	MIColi			Endemic
<i>Microtis parviflora</i>	FAC	R.Br.	MICpar			Non- endemic
<i>Microtis unifolia</i>	FAC	(G.Forst.) Rchb.f.	MICuni	<i>Microtis unifolia</i>	Onion orchid	Non- endemic
<i>Mitrasacme montana var. helmsii</i>	OBL	Kirk				Endemic
<i>Mitrasacme novae- zealandiae</i>	OBL	Hook.f.	MITnov			Endemic
<i>Montia campylostigma</i>	FAC	(Heenan) Heenan				Endemic
<i>Montia fontana L. subsp. fontana</i>	OBL	L.	MONfon		Blinks	Non- endemic

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

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

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



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

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<i>Plantago obconica</i>	OBL	Sykes	PLAobc			Endemic
<i>Plantago raoulii</i>	FAC	Decne.	PLArao			Endemic
<i>Plantago spathulata</i>	FACU	Hook.f.	PLAspa			Endemic
<i>Plantago triandra</i>	FACW	Berggr.	PLAtri	<i>Plantago triandra subsp. triandra</i> , <i>P. triandra subsp. masoniae</i>		Endemic
<i>Plantago unibracteata</i>	OBL	Rahn	PLAuni	<i>Plantago uniflora</i>		Endemic
<i>Pneumatopteris pennigera</i>	FACU	(G.Forst.) Holttum	PNEpen	<i>Thelypteris pennigera</i>	Gully fern	Non-endemic
<i>Poa annua</i>	FACU	L.	POAann		Annual poa	Exotic
<i>Poa chathamica</i>	FAC	Petrie	POAcha			Endemic
<i>Poa cita</i>	FACU	Edgar	POAcit		Silver tussock	Endemic
<i>Poa palustris</i>	FACW	L.	POApal		Swamp poa	Exotic
<i>Poa pratensis</i>	FACU	L.	POApra		Kentucky bluegrass	Exotic
<i>Podocarpus cunninghamii</i>	FACU	Colenso	PODcun	<i>Podocarpus hallii</i>	Mountain tōtara, Hall's tōtara	Endemic
<i>Podocarpus totara var. totara</i>	FACU	G.Benn. Ex D.Don	PODtot		Tōtara	Endemic
<i>Polypogon monspeliensis</i>	FAC	(L.) Desf.	POLmon		Montpellier broom	Exotic
<i>Polystichum vestitum</i>	FACU	(G.Forst.) C.Presl	PLOves		Prickly shieldfern	Non-endemic
<i>Potamogeton cheesemanii</i>	OBL	A.Benn.	POTche		Red pondweed, manihi	Non-endemic
<i>Potamogeton crispus</i>	OBL	L.	POTcri		Curly pondweed	Exotic
<i>Potamogeton ochreatus</i>	OBL	Raoul	POToch		Blunt pondweed	Non-endemic
<i>Potamogeton suboblongus</i>	OBL	Hagstr.	POTsub		Mud pondweed, rerewai	Endemic
<i>Potentilla anglica</i>	FAC	Laichard.	POTANGang			Exotic
<i>Potentilla anserinoides</i>	FACW	Raoul	POTans		Silverweed	Endemic
<i>Potentilla reptans</i>	FAC	L.	POTrep			Exotic
<i>Prasophyllum colensoi</i>	FAC	Hook.f.	PRacol		Leek orchid	Endemic
<i>Prasophyllum hectorii</i>	OBL	(Buchanan) Molloy, D.L.Jones & M.A.Clem.	PRapat	<i>Prasophyllum patens</i>		Endemic
<i>Prunella vulgaris</i>	FACU	L.	PRUvul		Self-heal	Exotic
<i>Pseudopanax arboreus</i>	UPL	(Murray) Philipson	PSEarb		Five-finger	Endemic

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<i>Pseudopanax chathamicus</i>	FACU	Kirk	PSEcha			Endemic
<i>Pseudopanax colensoi</i>	UPL	(Hook.f.) Philipson	NEOcol		Three-finger	Endemic
<i>Pseudopanax crassifolius</i>	FACU	(Sol. ex A.Cunn.) K.Koch	PSEcra		Lancewood	Endemic
<i>Pseudopanax ferox</i>	UPL	Kirk	PSEfer		Fierce lancewood	Endemic
<i>Psychrophila obtusa</i>	OBL	(Cheeseman) W.A.Weber	CALobt	<i>Caltha obtusa</i>	White caltha	Endemic
<i>Pteridium esculentum</i>	FACU	(G.Forst.) Cockayne	PTEesc		Bracken	Non-endemic
<i>Pterostylis micromega</i>	OBL	Hook.f.	PTEmic			Endemic
<i>Puccinellia distans</i>	FACW	(L.) Parl.	PUCdis			Exotic
<i>Puccinellia fasciculata</i>	FACW	(Torr.) E.P.Bicknell	PUCfas			Exotic
<i>Puccinellia stricta</i>	FAC	(Hook.f.) Blom	PUCstr		Saltgrass	Non-endemic
<i>Pycreus polystachyos</i>	FACW	(Rottb.) P.Beauv.		<i>Cyperus polystachus</i>		Exotic
<i>Pycreus sanguinolentus</i>	FAC	(Vahl.) Nees				Exotic
<i>Pyrrosia eleagnifolia</i>	UPL	(Bory) Hovenkamp	PYRele		Leatherleaf	Endemic
<i>Quintinia serrata</i>	UPL	A.Cunn.	QUlser		Tāwheowheo	Endemic
<i>Ranunculus acaulis</i>	FACW	DC.	RANaca		Sand buttercup	Non-endemic
<i>Ranunculus acris</i>	FAC	L.	RANacr		Meadow buttercup	Exotic
<i>Ranunculus amphitrichus</i>	OBL	Colenso	RANamp		Waoriki	Non-endemic
<i>Ranunculus brevis</i>	OBL	Garn.-Jones	RANbre	<i>Ranunculus depressus</i>		Endemic
<i>Ranunculus bulbosus</i>	FAC	L.	RANbul		Bulbous buttercup	Exotic
<i>Ranunculus carsei</i>	OBL	Petrie	RANcar			Endemic
<i>Ranunculus cheesemanii</i>	OBL	Kirk	RANche			Endemic
<i>Ranunculus flammula</i>	FACW	L.	RANfla		Spearwort	Exotic
<i>Ranunculus foliosus</i>	FAC	Kirk	RANfol			Endemic
<i>Ranunculus glabrifolius</i>	OBL	Hook.	RANgla			Non-endemic
<i>Ranunculus gracilipes</i>	FACW	Hook.f.	RANgra			Endemic
<i>Ranunculus kirkii</i>	FACW	Petrie	RANKir			Endemic
<i>Ranunculus limosella</i>	OBL	Kirk	RANlim			Endemic
<i>Ranunculus macropus</i>	OBL	Hook.f.	RANmar		Swamp buttercup	Endemic
<i>Ranunculus maculatus</i>	OBL	Cockayne & Allan	RANmcl			Endemic

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<i>Ranunculus membranifolius</i>	FAC	(Kirk) Garn.-Jones	RABmem	<i>Ranunculus hirtus</i> var. <i>membranifolius</i>		Endemic
<i>Ranunculus multiscapus</i>	UPL	Hook.f.	RANbpm			Endemic
<i>Ranunculus ophioglossifolius</i>	OBL	Vill.	RANoph			Exotic
<i>Ranunculus ranceorum</i>	OBL	de Lange	RANran			Endemic
<i>Ranunculus recens</i>	FAC	Kirk	RANrec			Endemic
<i>Ranunculus reflexus</i>	FACU	Garn.-Jones	RANref	<i>Ranunculus hirtus</i>		Endemic
<i>Ranunculus repens</i>	FAC	L.	RANrep		Creeping buttercup	Exotic
<i>Ranunculus sardous</i>	FAC	Crantz	RANSar		Hairy buttercup	Exotic
<i>Ranunculus sceleratus</i>	OBL	L.	RANSce		Celery buttercup	Exotic
<i>Ranunculus simulans</i>	FAC	Garn.-Jones	RANSim	<i>Ranunculus depressus</i> var. <i>stewartiae</i>		Endemic
<i>Ranunculus ternatifolius</i>	FACW	Kirk	RANter			Endemic
<i>Ranunculus trichophyllus</i>	OBL	Chaix	RANtri	<i>Ranunculus fluitans</i>	Water buttercup	Exotic
<i>Ranunculus urvilleanus</i>	FACW	Cheeseman	RANurv			Endemic
<i>Ranunculus verticillatus</i>	FAC	Kirk	RANver			Endemic
<i>Raukaua anomalus</i>	FACU	(Hook.) A.D.Mitch., Frodin & Heads	RAUano	<i>Pseudopanax anomalus</i>		Endemic
<i>Raukaua simplex</i>	UPL	(G.Forst.) A.D.Mitch., Frodin & Heads	RAUsim	<i>Pseudopanax simplex</i>	Haumakaroa	Endemic
<i>Rhopalostylis sapida</i>	FACU	H.Wendl. & Drude	RHOsap		Nikau	Endemic
<i>Ripogonum scandens</i>	FACU	J.R.Forst. & G.Forst.	RIPsca		Supplejack	Endemic
<i>Rorippa amphibia</i>	FACW	(L.) Besser	RORamp		Tall yellow cress	Exotic
<i>Rorippa palustris</i>	OBL	(L.) Besser	RORPAL	<i>Rorippa islandica</i>	Marsh yellow cress, poniu	Non-endemic
<i>Rorippa sylvestris</i>	FAC	(L.) Besser	RORSyl		Creeping yellow cress	Exotic
<i>Rosa rubiginosa</i>	UPL	L.	ROSub		Sweet briar	Exotic
<i>Rostkovia magellanica</i>	FACW	(Lam.) Hook.f.	ROSmag			Non-endemic
<i>Rubus argutus</i>	FACU	Link	RUBarg			Exotic
<i>Rubus australis</i>	FAC	G.Forst.	RUBaus		Swamp lawyer	Endemic
<i>Rubus cissoides</i>	FACU	A.Cunn.	RIUBcis		Bush lawyer	Endemic
<i>Rubus fruticosus</i>	FACU	L.	RUBfru		Blackberry	Exotic
<i>Rubus schmidelioides</i>	FAC	A.Cunn.	RUBsch		Tātārāmoa,	Endemic

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					Bush lawyer, White-leaved lawyer	
<i>Rumex acetosa</i>	FAC	L.			Sorrel	Exotic
<i>Rumex acetosella</i>	FACU	L.	RUMace		Sheep's sorrel	Exotic
<i>Rumex conglomeratus</i>	FAC	Murray	RUMcon		Clustered dock	Exotic
<i>Rumex crispus</i>	FAC	L.	RUMcri		Curled dock	Exotic
<i>Rumex flexuosus</i>	FAC	Spreng.	RUMfle			Endemic
<i>Rumex frutescens</i>	FACW	Thouars	RUMfru		Argentine dock	Exotic
<i>Rumex neglectus</i>	FACW	Kirk	RUMneg			Endemic
<i>Rumex obtusifolius</i>	FAC	L.	RUMobt		Broad-leaved dock	Exotic
<i>Rumex sagittatus</i>	FACU	Thunb.	RUMsag		Cimbing dock	Exotic
<i>Rumohra adiantiformis</i>	UPL	(G.Forst.) Ching	RUMadi		Buckler fern	Non- endemic
<i>Ruppia megacarpa</i>	OBL	R.Mason	RUPmeg			Non- endemic
<i>Ruppia polycarpa</i>	OBL	R.Mason	RUPpol			Non- endemic
<i>Rytidosperma gracile</i>	FACU	(Hook.f.) Connor & Edgar	RYTgra		Danthonia	Non- endemic
<i>Rytidosperma nigricans</i>	FACW	(Petrie) Connor & Edgar	RYTnig			Endemic
<i>Rytidosperma nudum</i>	OBL	(Hook.f.) Connor & Edgar	RYTnud			Endemic
<i>Rytidosperma pulchrum</i>	OBL	(Zotov) Connor & Edgar	RYTpul			Endemic
<i>Sagina procumbens</i>	FACU	L.	SAGpro		Pearlwort	Exotic
<i>Salix xreichardtii</i>	FACW	A.Kern.	SALxre		Pussy willow	Exotic
<i>Salix alba L. var. alba</i>	FACW	L.	SALalb		White willow	Exotic
<i>Salix alba var. vitellina</i>	FACW	(L.) Stokes			Golden willow	Exotic
<i>Salix babylonica</i>	FACW	L.	SALbab		Weeping willow	Exotic
<i>Salix caprea</i>	FACW	L.	SALcap		Goat willow	Exotic
<i>Salix cinerea subsp. oleifolia</i>	FACW	(Sm.) Macreight			Grey willow	Exotic
<i>Salix elaeagnos</i>	FACW	Scop.	SALela			Exotic
<i>Salix fragilis</i>	FACW	L.	SALfra		Crack willow	Exotic
<i>Salix purpurea</i>	FACW	L.	SALpur		Purple osier	Exotic
<i>Salix viminalis</i>	FACW	L.	SALvim		Osier	Exotic
<i>Salvinia molesta</i>	OBL	D.S.Mitch.	SALmol	<i>Salvinia herzogii</i>	Kariba weed	Exotic
<i>Sambucus nigra</i>	FACU	L.	SAMnig		Elder	Exotic
<i>Samolus repens</i>	FAC	(J.R.Forst. &	SAMrep		Sea primrose	Non-

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		G.Forst.) Pers.				endemic
<i>Sarcocornia quinqueflora</i>	FACW	(Bunge ex Ung.-Sternb.) A.J.Scott	SARqui	<i>Salicornia australis</i>	Glasswort	Non-endemic
<i>Schedonorus arundinaceus</i>	FAC	(Schreb.) Dumort.	SCHaru	<i>Schedonorus phoenix</i> , <i>Festuca arundinacea</i>	Tall fescue	Exotic
<i>Schizaea australis</i>	FAC	Gaudich.	SCHaus		Southern comb fern	Non-endemic
<i>Schizaea bifida</i>	FAC	Willd.	SCHbif		Forked comb fern	Non-endemic
<i>Schizaea fistulosa</i>	FAC	Labill.	SCHfis		Comb fern	Non-endemic
<i>Schizeilema cockaynei</i>	FACW	(Diels) Cheeseman	SCHcoc			Endemic
<i>Schizeilema nitens</i>	FACW	(Petrie) Domin	SCHnit			Endemic
<i>Schoenoplectus pungens</i>	OBL	(Vahl) Palla	SCHpun	<i>Scirpus americanus</i>	Three-square	Non-endemic
<i>Schoenoplectus tabernaemontani</i>	OBL	(C.C.Gmel.) Palla	SCHtab	<i>Schoenoplectus validus</i> , <i>Scirpus lacustris</i>	Lake sedge, kuta	Non-endemic
<i>Schoenus apogon</i>	FACW	Roem. & Schult.	SCHapo			Non-endemic
<i>Schoenus brevifolius</i>	FACW	R.Br.	SCHbre			Non-endemic
<i>Schoenus carsei</i>	FACW	Cheeseman	SCHcar			Non-endemic
<i>Schoenus concinnus</i>	FACW	Hook.f.	SCHcon	<i>Schoenus nitens</i> var. <i>concinnus</i>		Endemic
<i>Schoenus fluitans</i>	OBL	Hook.f.	SCHflu			Non-endemic
<i>Schoenus maschalinus</i>	FACW	Roem. & Schult.	SCHmas			Non-endemic
<i>Schoenus nitens</i>	FACW	(R.Br.) Roem. & Schult.	SCHnit	<i>Schoenus nitens</i> var. <i>nitens</i>		Non-endemic
<i>Schoenus pauciflorus</i>	FACW	(Hook.f.) Hook.f.	SCHpau		Bog rush	Endemic
<i>Schoenus tendo</i>	FAC	(Hook.f.) Hook.f.	SCHten			Endemic
<i>Scirpus georgianus</i>	FACW	R.M.Harper				Exotic
<i>Scirpus polystachyus</i>	FACW	F.Muell.				Exotic
<i>Scrophularia auriculata</i>	FAC	L.	SCRaur		Figwort	Exotic
<i>Sebaea ovata</i>	FACW	(Labill.) R.Br.	SEBova			Non-endemic
<i>Selaginella kraussiana</i>	FAC	(Kunze) A.Braun	SELkra			Exotic
<i>Selliera microphylla</i>	FACW	Colenso	SELmic			Endemic
<i>Selliera radicans</i>	FACW	Cav.	SELrad		Remuremu	Endemic
<i>Senecio bipinnatisectus</i>	FACU	Belcher	SENBip		Fireweed	Exotic

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<i>Senecio glomeratus</i>	FACU	Poir.	SENglo			Non-endemic
<i>Senecio minimus</i>	FACU	Poir.	SENmin			Non-endemic
<i>Simpliglottis cornuta</i>	FACU	(Hook.f.) Szlach.	SIMcor	<i>Chiloglottis cornuta</i>		Endemic
<i>Sisyrinchium iridifolium</i>	FAC	Kunth	SISiri			Exotic
<i>Solanum dulcamara</i>	FACU	L.	SOLdul		Bittersweet	Exotic
<i>Solanum nigrum</i>	FACU	L.	SOLnig		Black nightshade	Exotic
<i>Solanum nodiflorum</i>	FACU	Jacq.	SOLame			Non-endemic
<i>Sonchus asper</i>	FACU	(L.) Hill	SONasp		Prickly sowthistle	Exotic
<i>Sophora microphylla</i>	FACU	Aiton	SOPmic		Kōwhai	Endemic
<i>Sparganium subglobosum</i>	OBL	Morong	SPAsub		Burr-reed, maru	Non-endemic
<i>Spartina alterniflora</i>	OBL	Loisel.	SPAalt		Smooth cord grass	Exotic
<i>Spartina anglica</i>	OBL	C.E.Hubb.	SPAang		Cord grass	Exotic
<i>Spartina X townsendii</i>	OBL	H.Groves & J.Groves	SPAtow			Exotic
<i>Spergularia marina</i>	FAC	(L.) Griseb.	SPEmar		Sea spurrey	Exotic
<i>Spergularia media</i>	FAC	(L.) C.Presl	SPEmed		Sea spurrey	Non-endemic
<i>Sphagnum species</i>	OBL		SPHxxx		Sphagnum	Non-endemic
<i>Spiranthes aff. novae-zelandiae (CHR 518297; Motutangi)</i>	FACW					Uncertain
<i>Spiranthes novae-zelandiae</i>	FACW	(R.Br.) H.Hara & Kitam.	SPInov	<i>Spiranthes sinensis</i> var. <i>australis</i>	Ladies tresses	Endemic
<i>Sporadanthus ferrugineus</i>	OBL	de Lange, Heenan & B.D.Clarkson	SPOfer		Bamboo rush, cane rush	Endemic
<i>Sporadanthus traversii</i>	OBL	(F.Muell.) F.Muell. ex Kirk	SPOtra		Chatham Island bamboo rush	Endemic
<i>Sprengelia incarnata</i>	FACW	Sm.	SPRinc		Pink swamp heath	Non-endemic
<i>Stackhousia minima</i>	FAC	Hook.f.	STAmin			Endemic
<i>Stegostyla lyallii</i>	FACU	(Hook.f.) D.L.Jones et M.A.Clem.	STELYa	<i>Caladenia lyallii</i>		Endemic
<i>Stellaria alsine</i>	FACW	Grimm	STEals		Bog stitchwort	Exotic
<i>Stellaria graminea</i>	FAC	L.	STEgra		Stitchwort	Exotic

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<i>Stuckenia pectinata</i>	OBL	(L.) Börner	POTpec	<i>Potamogeton pectinatus</i>		Non-endemic
<i>Suaeda novae-zelandiae</i>	FAC	Allan	SUANov		Sea blite	Endemic
<i>Symphotrichum subulatum</i>	FAC	(Michx.) G.L.Nesom	ASTsbl	<i>Aster subulatus</i>	Sea aster	Exotic
<i>Syzygium maire</i>	OBL	(A.Cunn.) Sykes & Garn.-Jones	SYZmai	<i>Eugenia maire</i>	Swamp maire	Endemic
<i>Tetrachondra hamiltonii</i>	FACW	Petrie ex Oliv.	TETHam			Endemic
<i>Tetraria capillaris</i>	FACW	(F.Muell.) J.M.Black	TETcap		Hair sedge	Non-endemic
<i>Thelymitra aemula</i>	FAC	Cheeseman	THEaem		Gumland sun orchid	Endemic
<i>Thelymitra cyanea</i>	FACW	(Lindl.) Benth.	THEcya	<i>Thelymitra venosa</i>	Veined sun orchid	Non-endemic
<i>Thelymitra formosa</i>	FAC	Colenso	THEfor			Non-endemic
<i>Thelymitra ixiooides</i>	FAC	Sw.	THEixi			Non-endemic
<i>Thelymitra malvina</i>	FACW	M.A.Clem., D.L.Jones et Molloy			Mauve sun orchid	Non-endemic
<i>Thelymitra pulchella</i>	FACW	Hook.f.	THEpul			Endemic
<i>Thelymitra sanscilia</i>	FACU	Irwin ex Hatch			Sun orchid	Endemic
<i>Thelypteris confluens</i>	OBL	(Thunb.) C.V.Morton	THEcon	<i>Thelypteris palustris</i> var. <i>squamigera</i>	Marsh fern	Non-endemic
<i>Thyridia repens</i>	FACW	(R.Br.) W.R.Barker & Beardsley	MIMrep	<i>Mimulus repens</i>		Non-endemic
<i>Trichomanes reniforme</i>	UPL	G.Forst.	TRlren	<i>Cardiomanes reniforme</i>	Kidney fern	Endemic
<i>Trifolium arvense</i>	UPL	L.	TRlarv		Haresfoot clover	Exotic
<i>Trifolium dubium</i>	UPL	Sibth.	TRIdub		Suckling clover	Exotic
<i>Trifolium pratense</i>	FACU	L.	TRlpra		Red clover	Exotic
<i>Trifolium repens</i>	FACU	L.	TRlrep		White clover	Exotic
<i>Triglochin palustris</i>	OBL	L.	TRlpls			Non-endemic
<i>Triglochin striata</i>	OBL	Ruiz & Pav.	TRlstr		Arrow grass	Non-endemic
<i>Trithuria inconspicua</i>	OBL	Cheeseman	HYDinc	<i>Hydatella inconspicua</i>		Endemic
<i>Typha orientalis</i>	OBL	C.Presl	TYPori		Raupo	Non-endemic
<i>Ulex europaeus</i>	FACU	L.	ULEeur		Gorse	Exotic
<i>Uncinia divaricata</i>	FAC	Boott	UNCdic			Endemic



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<i>Uncinia egmontiana</i>	FACW	Hamlin	UNCegm			Endemic
<i>Uncinia nervosa</i>	FACW	Boott	UNCner			Non-endemic
<i>Uncinia rubra</i>	FAC	Boott	UNCrub			Endemic
<i>Uncinia sinclairii</i>	FAC	Boott	UNCsin			Endemic
<i>Uncinia strictissima</i>	FACW	(Kük.) Petrie	UNCstr			Endemic
<i>Uncinia uncinata</i>	FACU	(L.f.) Kük.	UNCunc		Hook-sedge	Non-endemic
<i>Urtica linearifolia</i>	FACW	(Hook.f.) Cockayne	URTlin		Swamp nettle	Endemic
<i>Utricularia australis</i>	OBL	R.Br.	UTRaus	<i>Utricularia protrusa</i>	Yellow bladderwort	Non-endemic
<i>Utricularia delicatula</i>	OBL	Cheeseman	UTRdel	<i>Utricularia lateriflora</i>		Endemic
<i>Utricularia dichotoma</i>	OBL	Labill.	UTRdic	<i>Utricularia novae-zelandiae, U. monanthos</i>	Bladderwort	Non-endemic
<i>Utricularia gibba</i>	OBL	L.	UTRbif	<i>Utricularia biflora</i>		Exotic
<i>Vallisneria australis</i>	OBL	S.W.L.Jacobs & Les	VALgig	<i>Vallisneria gigantea</i>		Exotic
<i>Vellereophyton dealbatum</i>	FACU	(Thunb.) Hilliard & B.L.Burt	VELdea			Exotic
<i>Veronica americana</i>	OBL	Benth.	VERame		Brooklime	Exotic
<i>Veronica anagallis-aquatica</i>	OBL	L.	VERana		Water speedwell	Exotic
<i>Veronica catenata</i>	OBL	Pennell	VERact			Exotic
<i>Veronica scutellata</i>	OBL	L.	VERscu		Marsh speedwell	Exotic
<i>Veronica serpyllifolia</i>	FAC	L.	VERser		Turf speedwell	Exotic
<i>Viola cunninghamii</i>	FAC	Hook.f.	VIOcun			Non-endemic
<i>Viola filicaulis</i>	FAC	Hook.f.	VIOfil			Endemic
<i>Viola lyallii</i>	FAC	Hook.f.	VIOlya			Endemic
<i>Vitex lucens</i>	UPL	Kirk	VITluc		Pūriri	Endemic
<i>Wahlenbergia albomarginata</i>	FACU	Hook.	WAHalb		Harebell	Endemic
<i>Waireia stenopetala</i>	FAC	(Hook.f.) D.L.Jones, M.A.Clem. & Molloy	LYPant	<i>Lyperanthus antarcticus</i>		Endemic
<i>Weinmannia racemosa</i>	FACU	L.f.	WEIrac		Kāmahi, Tawheo, Tāwhero	Endemic
<i>Weinmannia silvicola</i>	FACU	Sol. ex A.Cunn.	WEIsil		Towai,	Endemic

FullName	Rating	Authority	Code*	Synonym(s)	Common name	Biostatus Origin
					Tāwhero	
<i>Wolffia australiana</i>	OBL	(Benth.) Hartog & Plas	WOLaus		Watermeal	Non-endemic
<i>Zannichellia palustris</i>	OBL	L.	ZANpal		Horned pondweed	Non-endemic
<i>Zantedeschia aethiopica</i>	FAC	(L.) Spreng.	ZANaet		Arum lily	Exotic
<i>Zizania latifolia</i>	OBL	(Griseb.) Stapf	ZIZlat		Manchurian wild rice	Exotic
<i>Zostera muelleri subsp. capricorni</i>	OBL	(Setch.) S.W.L.Jacobs	ZOScap	<i>Zostera capricorni</i>		Uncertain
<i>Zostera muelleri subsp. novozelandica</i>	OBL	(Setch.) S.W.L.Jacobs	ZOSnov	<i>Zostera novozelandica</i>		Non-endemic
<i>Zotovia thomsonii</i>	FACW	(Petrie) Edgar & Connor	MICtho	<i>Microlaena thomsonii</i>		Endemic

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