

Kāpiti District Endemic Floral Species List

A species guide to use for Restorative Planting
Foxton Ecological District Version

Compiled by
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Kāpiti Endemic Floral Species List

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This list is compiled of all the known historical and contemporaneously documented floral species observed in any part of the area known presently as the Kāpiti District. The district is comprised of five Ecological Districts, the Foxton Ecological District is the largest represented and therefore, all available known botanical lists from it including those outside the Kāpiti District have been used to contribute to this compilation.

I would like to think there are many more species to add!

INTRODUCTION

The introduction and explanation of the reasoning behind the format of this list is aimed at making the restoration planner/planter aware of the factors which will make a project respectful to its surroundings and successful in the long term. The italicized headings which follow, start at the macro scale and head down in size so that informed decisions on species that will thrive may be made.

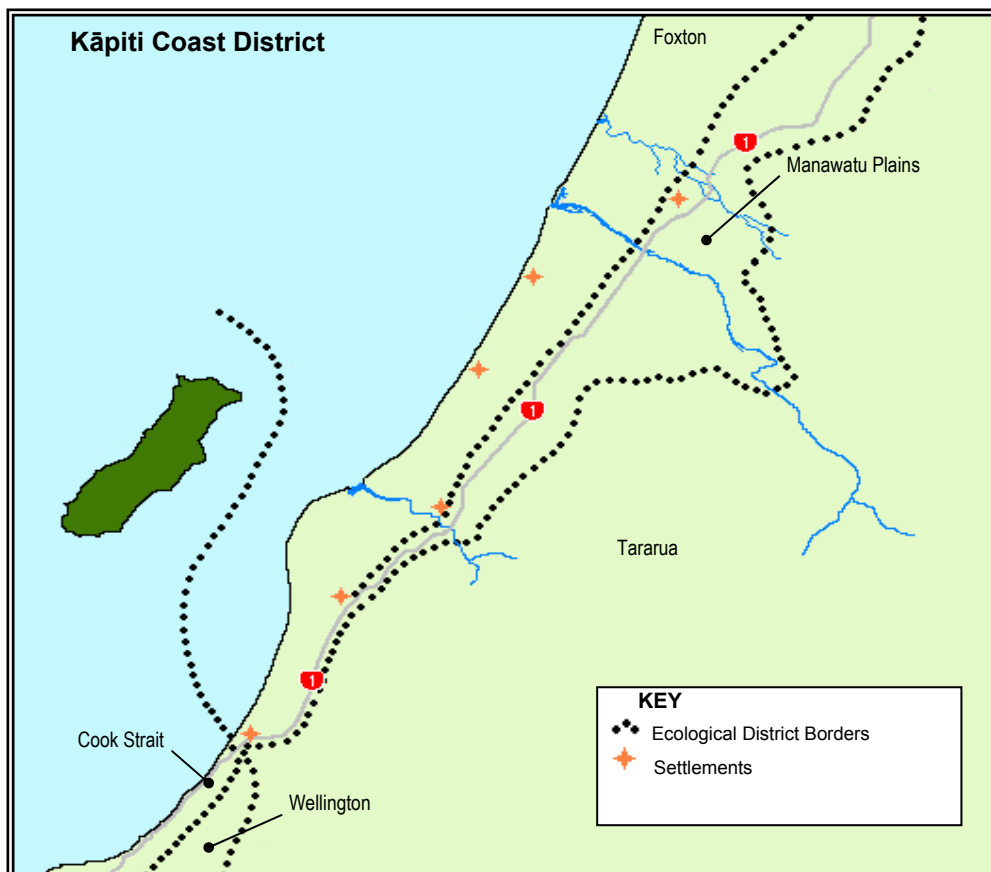
This list has been compiled from botanical survey data undertaken by competent and/or respected botanists from contemporary and historical times (see reference list). If the referenced list contained an imprecise description of a plant species for example "*oxalis* sp.", the entry was excluded from the list.

This list uses the most up-to-date Latin nomenclature in use, this may therefore not appear in original botanical lists used, prompting the historical used name to "**See**" the new name. To achieve this, up-to-date information was used from the online resource, "*New Zealand Plant Conservation Network*, © 2011 *New Zealand Plant Conservation Network*." The Māori translations of Latin species names are found in the online "*Māori Dictionary - Te Aka Māori-English, English-Māori Dictionary and Index*. © Copyright 2003-2009 John C Moorfield - All rights reserved."

Any species I have personally witnessed and evaluated as naturally occurring in that area have been listed. This is expressed beside the Latin name as a number bracketed in green referring to an observation date, which then corresponds to the reference list at the end of the document, for example "*Carmichaelia odorata* M,T**(1)**" (Due to more botanical lists being found and observations added, these personal observations may not appear chronologically correct).

ECOLOGICAL DISTRICTS

An Ecological Zone is defined by using topography, geology and soil, for example, the Foxton Ecological District is low-lying sand country of a geologically recent composition. The Kāpiti District is made up of five ecological districts. The capital letters immediately following each species name (*Alectryon excelsus* var. *excelsus* C,F,M,T,W), refer to the ecological district in which it has been recorded as referred to in **Figure 1**. If a copy of this list is used which has only one capital letter following the Latin name, then that list has been specifically extracted as a reference re-vegetation list suitable to a project in that ecological district, for example a list of species with "M" would suggest this is a list of Manawatu Plains Ecological District species suitable for use in that ecological district.



- (C)** Cook Strait Ecological District = Paekakariki escarpment and rocky shore zone, Kapiti Island.
- (F)** Foxton Ecological District = Otaki dunelands, Otaihanga, Waikanae dunelands, Paekakariki dunelands.
- (M)** Manawatu Plains Ecological District = Eastern Otaki, Eastern Waikanae.
- (T)** Tararua Ecological District = Eastern Paekakariki, Reikorangi, Paraparaumu hills, Raumati escarpment.
- (W)** Wellington Ecological District = Flat section above

Figure 1. Location and extent of the Ecological Districts featured within the Kāpiti Coast District

and east of the Paekakariki escarpment.

HABITAT

The habitat in which the botanical surveys or my observations have found the species will be noted in a separate column. The habitats generally correlate with the “Native Planting Zones” seen in the Kapiti Coast District Council (1999) publication “Growing Native Plants in Kapiti”. It is important that species used in restorative planting are able to cope with the habitat in which they are placed. Although planting areas are site specific, for example having a range of possible microclimates and wind/sun/soil scenarios unique to that small area, the relevance of using plants with the capability to handle all conditions that they may encounter should be considered. Some species are suitable in a range of habitat types. The habitats are as follows;

- (SE)** Saline Estuary = river mouth areas where tidal variation affects the margins and surrounding wet areas.
- (CE)** Coastal Escarpment = this coastline zone often includes rock faces, shale slopes, is highly exposed and may include seeps.
- (FD)** Fore Dune = this is the area directly next to the sea which is exposed and highly dynamic.
- (ED)** Established Dune = this is the area directly behind the fore-dunes and represents older established dune-land.
- (DS)** Dune-land Stream = streams which normally have steep eroded banks and meander across the established dune-land.
- (DW)** Dune-land Wetland = wet areas which may vary in water content seasonally.
- (RM)** Riparian Margin = this describes the areas around lakes, swamps, and river banks.
- (LT)** Lowland Terrace = these areas are higher than dune-lands and drain freely due substrate composition.
- (FS)** Forest Seepage/Wetland = these are places which are usually wet year round and within/or near forested areas.
- (FM)** Forest Margin = the area surrounding existing forest which allows plenty of light and some shelter.
- (FE)** Foothills, Escarpment = the intermediary areas between lowland terrace and montane forest habitats.
- (M)** Montane = the area moving higher toward and including the Tararua ranges, often with steep hills and high rain fall.

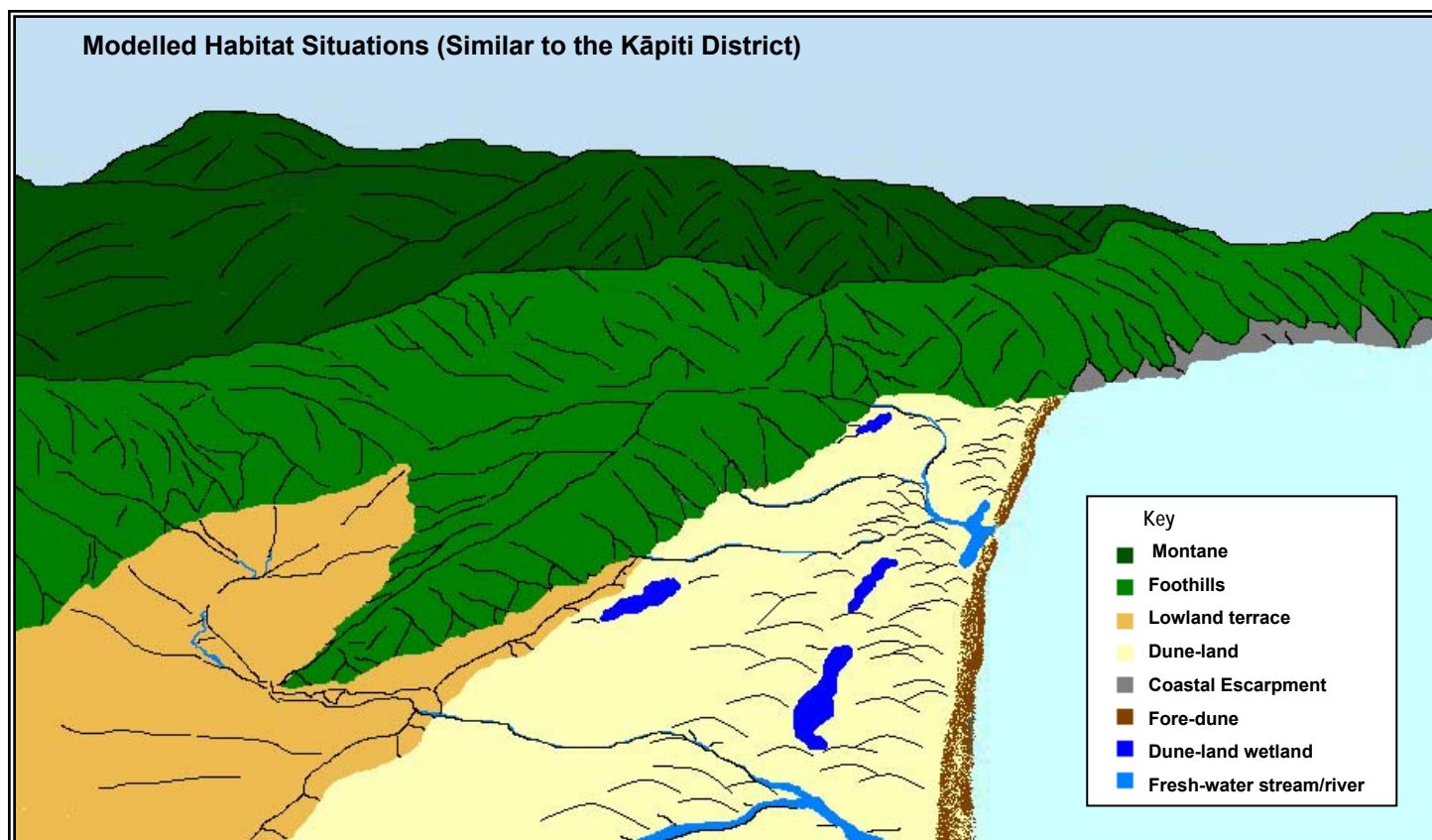


Figure 2. Habitat examples and relative situations which are similar to those in the Kāpiti Coast District

SITE CONDITIONS

The most common conditions which need to be considered for a plants ability to survive can be simplified into; Water-logging; Wind; Salt-wind; Frost; Drought; Low fertility; Animal browsing. Tolerances to these conditions can be the make or break of a plant survival in the long-term. For information about these tolerances each individual

species needs to be investigated, this information is beyond the scope of a botanical list but may be found at the “*Landcare - Green ToolBox native plant selector*” website. The habitat in which a plant has naturally been found is a good starting point to finding suitable species for restoration planting projects.

C=Cook Strait **F**=Foxton **M**=Manawatu Plains **T**=Taranaki **W**=Wellington

SE=Saline Estuary **CE**=Coastal Escarpment **FD**=Fore Dune **ED**=Established Dune **DS**=Dune-land Stream **DW**=Dune-land Wetland **RM**=Riparian Margin **LT**=Lowland Terrace **FS**=Forest Seepage/Wetland **FM**=Forest Margin **FE**=Foothills, Escarpment **M**=Montane

Latin name	Maori name	Common name	Habitat
GYMNOSPERM TREES			
<i>Dacrycarpus dacrydioides</i> C,F,M,T,W	Kahikatea	White Pine	ED, DW, LT
<i>Dacrydium cupressium</i> C,F,M,T,W	Rimu	Red Pine	ED, LT, M
<i>Podocarpus dacrydioides</i> See <i>Dacrycarpus dacrydioides</i>			
<i>Podocarpus spicatus</i> See <i>Prumnopitys taxifolia</i>			
<i>Podocarpus totara</i> C,F,M,T,W	Tōtara	Tōtara	LT
<i>Prumnopitys ferruginea</i> C,F,M,T,W	Miro	Brown pine	ED, LT, FE, M
<i>Prumnopitys taxifolia</i> C,F,M,T	Mataī	Black pine	ED, DW, RM, LT, FE, M
MONOCOT TREES			
<i>Cordyline australis</i> C,F,M,T	Tī kōuka	Cabbage tree	ED, DW
<i>Rhopalostylis sapida</i> C,F,M,T	Nīkau	Nīkau	DW, RM, LT, FS, FM, FE
DICOT TREES/SHRUBS			
<i>Alectryon excelsus</i> var. <i>excelsus</i> C,F,M,T,W	Tītōki	Tītōki	ED, DW, LT, M
<i>Aristotelia racemosa</i> See <i>Aristotelia serrata</i>			
<i>Aristotelia serrata</i> C,F,M,T,W	Makomako	Wineberry	FM, M
<i>Beilschmedia tarairi</i> F	Tarairē	Tarairē	ED, DW, LT, M
<i>Beilschmedia tawa</i> C,F,M,T,W	Tawa	Tawa	ED, DW, LT, M
<i>Brachyglottis repanda</i> C,F,M,T,W	Rangiora	Tree daisy	CE, LT, M
<i>Carmichaelia arborea</i> C,F,T,W		South Island or swamp broom	CE, ED, LT
<i>Carmichaelia australis</i> C,F,T	Tainoka, taunoka	Common broom	FE, M
<i>Carmichaelia cunninghamii</i> See <i>Carmichaelia australis</i>			
<i>Carmichaelia flagelliformis</i> See <i>Carmichaelia australis</i>			
<i>Carmichaelia hookeri</i> See <i>Carmichaelia australis</i>			
<i>Carpodetus serratus</i> C,F,M,T,W	Putaputaweta	Marbleleaf	LT, M
<i>Cassinia leptophylla</i> See <i>Ozothamnus leptophylla</i>			
<i>Coprosma acerosa</i> C,F	Tarakupenga	Sand coprosma	ED
<i>Coprosma areolata</i> C,F,M,T,W		Thin-leaved coprosma	ED, FM, M
<i>Coprosma crassifolia</i> C,F,M			ED, LT
<i>Coprosma grandifolia</i> C,F,M,T,W	Kanono	Kanono	ED, DW, RM, FE, M
<i>Coprosma lucida</i> C,F,M,T	Karamū	Shining karamū	LT, FE, M
<i>Coprosma macrocarpa</i> ssp. <i>minor</i> F		Shore karamū	ED, CE
<i>Coprosma parviflora</i> var. <i>dumosa</i> See <i>Coprosma dumosa</i>			
<i>Coprosma propinqua</i> var. <i>propinqua</i> C,F,M,T,W	Mingimingi	Mingimingi	ED, DW, RM, LT, FS
<i>Coprosma pseudociliata</i> F			ED, FE, M
<i>Coprosma repens</i> C,F,M,T	Taupata	Mirror leaf	DW, FD, ED, LT
<i>Coprosma rhamnoides</i> C,F,M,T,W		<i>Coprosma rhamnoides</i>	CE, ED, DW, LT, FE, M
<i>Coprosma rigida</i> F,M			FM, LT
<i>Coprosma robusta</i> C,F,M,T,W	Karamū	Karamū	ED, DS, DW, RM, FS, FM, FE, M
<i>Coprosma rotundifolia</i> C,F,T			FM, M
<i>Coprosma rubra</i> F			LT, FM, M
<i>Coprosma rugosa</i> T(30)		<i>Coprosma rugosa</i>	LT, RM, FM, M
<i>Coprosma tayloriae</i> T			M
<i>Coprosma tenuicaulis</i> C,F,M,T	Hukihuki	Swamp coprosma	DW, LT, FS
<i>Coprosma tenuifolia</i> F			DS, LT, FE, M
<i>Corokia cotoneaster</i> F	Korokio tāraŋga	Wire netting bush	ED
<i>Corynocarpus laevigatus</i> C,F,M,T,W	Karaka	Karaka	CE, ED, DW, LT
<i>Cyathodes empetrifolia</i> See <i>Androstoma empetrifolia</i>			
<i>Cyathodes fasciculata</i> See <i>Leucopogon fasciculatus</i>			
<i>Cyathodes fraseri</i> See <i>Leucopogon fraseri</i>			
<i>Cyathodes juniperina</i> See <i>Leptecophylla juniperina</i> subsp. <i>juniperina</i>			
<i>Discaria toumatou</i> C,F	Tūmatakuru	Matagouri, Wild Irishman	CE, FD, ED, LT, M
<i>Dodonaea viscosa</i> C,F,M	Akeake	Akeake	ED, FE, LT
<i>Dysoxylum spectabile</i> C,F,M,T,W	Kohekohe	Kohekohe	DW, LT
<i>Elaeocarpus dentatus</i> C,F,M,T,W	Hīnau		DW, LT, FE, M
<i>Elaeocarpus hookerianus</i> F,M,T	Pōkākā		LT,M
<i>Eugenia maire</i> See <i>Syzygium maire</i>			
<i>Fuchsia excorticata</i> C,F,M,T,W	Kōtukutuku	Tree fuchsia	DS, DW, RM, FS, FM, M
<i>Gaultheria macrostigma</i> F		Prostrate snowberry	ED,
<i>Geniostoma ligustrifolium</i> var. <i>ligustrifolium</i> F,M,T,W	Hangehange	New Zealand privet	ED, LT, M
<i>Geniostoma rupestre</i> var. <i>ligustrifolium</i> See <i>Geniostoma ligustrifolium</i> var. <i>ligustrifolium</i>			
<i>Griselinia littoralis</i> F,T	Kāpuka	Broadleaf	M
<i>Griselinia lucida</i> C,F,M,T,W	Puka	Broadleaf	CE, ED, DW, LT, M
<i>Gymnelaea cunninghamii</i> See <i>Nestegis cunninghamii</i>			
<i>Gymnelaea lanceolata</i> See <i>Nestegis lanceolata</i>			
<i>Gymnelaea montana</i> See <i>Nestegis montana</i>			
<i>Hebe stricta</i> var. <i>stricta</i> F,M,T(1), W	Koromiko		RM
<i>Hedycarya arborea</i> C,F,M,T,W	Porokaiwhiri	Pigeonwood	ED, DW, LT, FE, M
<i>Helichrysum aggregatum</i> var. <i>aggregatum</i> See <i>Helichrysum lanceolatum</i>			
<i>Hoheria augustifolia</i> F,M	Houhere	Narrow-leaved lacebark	LT, FE

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Latin name	Maori name	Common name	Habitat
<i>Hoheria populnea</i> var. <i>angustifolia</i> See <i>Hoheria angustifolia</i>			
<i>Hoheria sexstylosa</i> C,F		Lacebark	LT, FE
<i>Hymenanchera crassifolia</i> See <i>Meliclytus crassifolius</i>			
<i>Ileostylus micranthus</i> F,M	Pirita	Green mistletoe	ED, LT, FE, (M)
<i>Knightia excelsa</i> C,F,M,T,W	Rewarewa	New Zealand honeysuckle	ED, DW, LT, FE, M
<i>Korthalsella salicornioides</i> (on mānuka) F,M		Dwarf mistletoe	ED, DW, M
<i>Kunzea ericoides</i> var. <i>ericoides</i> C,F,M,T,W	Kānuka	White tea tree	CE, ED, FE, M
<i>Laurelia novae-zealandiae</i> C,F,M,T,W	Pukatea	Pukatea	ED, DW, LT, FS, M
<i>Leptecophylla juniperina</i> subsp. <i>juniperina</i> C,F	Mingimingi	Prickly mingimingi	ED, LT
<i>Leptospermum ericoides</i> See <i>Kunzea ericoides</i> var. <i>ericoides</i>			
<i>Leptospermum scoparium</i> C,F,M,T	Mānuka	Tea tree	DW, FS, M
<i>Leucopogon fasciculatus</i> C,F,M(21),T	Mingimingi	Tall mingimingi	LT, M
<i>Leucopogon fraseri</i> C,F	Pātötara	Dwarf mingimingi	CE, FD, ED, LT, M
<i>Lophomyrtus bullata</i> C,F,M,T	Ramarama	New Zealand myrtle	ED, DW, FM, FE, M
<i>Lophomyrtus obcordata</i> C,F,M,T	Röhutu	New Zealand myrtle	ED, DW, LT, FE, M
<i>Loranthus micranthus</i> See <i>Ileostylus micranthus</i>			
<i>Macropiper excelsum</i> var. <i>excelsum</i> C,F,M,T,W	Kawakawa	Pepper tree	ED, DW, LT, FE, M
<i>Melicope simplex</i> C,F,M	Poataniwha		CE, ED, LT, FE, M
<i>Melicope ternata</i> C,F,M,T,W	Wharangī	Wharangī	CE, ED, LT, FM, FE, M
<i>Meliclytus micranthus</i> F		Swamp mahoe	DW, FS, LT
<i>Meliclytus ramiflorus</i> C,F,M,T,W	Māhoe	Whiteywood	ED, DW, RM, LT, FE, M
<i>Metrosideros robusta</i> F,M,T	Rātā	Northern rātā	RM, FE, M
<i>Mida salicifolia</i> C,F,T	Maire taike	Willow-leaved maire	FE, M
<i>Myoporum laetum</i> C,F,M,T,W	Ngaio	Ngaio	CE, ED, DW, RM, LT, FE
<i>Myrsine australis</i> C,F,M,T,W	Matipo	Red mapou	ED, DW, RM, LT, FM, FE, M
<i>Myrsine salicina</i> C,F,M,T	Toro	Toro	ED, LT, M
<i>Myrtus bullata</i> See <i>Lophomyrtus bullata</i>			
<i>Myrtus obcordata</i> See <i>Lophomyrtus obcordata</i>			
<i>Nestegis cunninghamii</i> C,F,M,T	Maire rau nui	Black maire	ED, LT
<i>Nestegis lanceolata</i> C,F,M,T	Maire rauriki	White maire	ED, LT, FE
<i>Nestegis montana</i> C,F,M,T	Maire kōtāe or rōroro	Narrow-leaved maire	ED, LT, FE, M
<i>Olea cunninghamii</i> See <i>Nestegis cunninghamii</i>			
<i>Olea lanceolata</i> See <i>Nestegis lanceolata</i>			
<i>Olea montana</i> See <i>Nestegis montana</i>			
<i>Olearia cheesemanii</i> F,T(3)		Streamside or Cheeseman's daisy	RM
<i>Olearia furfuracea</i> F	Akepiro		LT, RM, FM
<i>Olearia paniculata</i> C,F,T,W	Akiraho	Golden akeake	LT, FE, M
<i>Olearia rani</i> var. <i>colorata</i> C,F,M,T,W	Heketara	Tree daisy	LT, FM, FE, M
<i>Olearia solandri</i> C,F,M,T,W		Coastal tree daisy	FD, CE, ED, LT, FE
<i>Olearia virgata</i> F,M,T(12)		Twiggy tree daisy	DW, FS
<i>Ozothamnus leptophylla</i> C,F,M,T,W	Tauhinu	Cottonwood	CE, FD, ED, DW, LT, FM, M
<i>Paratrophis banksii</i> See <i>Streblus banksii</i>			
<i>Paratrophis microphylla</i> See <i>Streblus heterophyllus</i>			
<i>Pennantia corymbosa</i> C,F,M,T,W	Kaikōmako	Kaikōmako	DW, RM, LT, FS, FM, FE, M
<i>Pernettya macrostigma</i> See <i>Gaultheria macrostigma</i>			
<i>Pimelea arenaria</i> See <i>Pimelea villosa</i>			
<i>Pimelea prostrata</i> ssp. <i>prostrata</i> C,F	Wharengāngara	Strathmore weed	CE, ED, FE, M
<i>Pimelea tomentosa</i> C,F			CE, LT, FE, M
<i>Pimelea villosa</i> C,F	Toroheke	Sand daphne	FD, CE
<i>Pittosporum cornifolium</i> F,T(27)	Wharewhareatua	Perching pittosporum	ED, LT, FE
<i>Pittosporum eugenioides</i> C,F,M,T	Tarata	Lemonwood	CE, ED, RM, LT, FM, FE, M
<i>Pittosporum tenuifolium</i> C,F,M,T,W	Kōhūhū	Kōhūhū	ED, DW, LT, FM, FE, M
<i>Plagianthus divaricatus</i> C,F	Mākaka	Saltmarsh ribbonwood	SE, DW
<i>Pseudopanax anomalus</i> See <i>Raukaua anomalus</i>			
<i>Pseudopanax arboreus</i> C,F,M,T,W	Whauwhaupaku	Five finger	ED, LT, FE, M
<i>Pseudopanax crassifolius</i> C,F,M,T,W	Horoeka	Lancewood	ED, LT, FE, M
<i>Pseudopanax edgerleyi</i> See <i>Raukaua edgerleyi</i>			
<i>Pseudopanax simplex</i> See <i>Raukaua simplex</i>			
<i>Pseudowintera axillaris</i> C,F,T	Horopito	Lowland horopito	FE, M
<i>Schefflera digitata</i> C,F,M,T,W	Patē	Seven finger	ED, LT, FE, M
<i>Solanum aviculare</i> var. <i>aviculare</i> C,F,M,T	Poroporo		ED, LT, FM
<i>Solanum laciniatum</i> C,F,M,T,W	Poroporo	Poroporo	CE, ED, DW, RM, LT, FS, FM, FE, M
<i>Sophora microphylla</i> C,F,M,T	Kōwhai		RM, FE
<i>Streblus banksii</i> C,F,M,T,W	Turepo	Large leaved milk tree	DW, LT, FE
<i>Streblus heterophyllus</i> C,F,M,T	Turepo	Small leaved milk tree	DW, LT, FE
<i>Syzygium maire</i> C,F,M,T	Maire tawake	Swamp maire	DW, FS
<i>Urtica ferox</i> C,F,T,W	Ongaonga	Tree nettle	RM, FM
<i>Veronica arborea</i> See <i>Hebe parviflora</i>			
<i>Weinmannia racemosa</i> C,F,M,T	Kāmahi	Kāmahi	FM, FE, M

MONOCOT LIANES

<i>Freycinetia banksii</i> C,F,M,T	Kiekie	Kiekie	ED, LT, FE, M
<i>Freycinetia baueriana</i> spp <i>banksii</i> See <i>Freycinetia banksii</i>			
<i>Ripogonum scandens</i> C,F,M,T,W	Kareao	Supplejack	ED, DW, LT, FE, M

DICOT LIANES

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Latin name	Maori name	Common name	Habitat
<i>Calystegia sepium</i> ssp. <i>roseata</i> C,F	Rauparaha	Pink bindweed	CE, FD, ED, LT, FM, (M)
<i>Calystegia soldanella</i> C,F	Panahi	Shore bindweed	CE, FD, ED, DS
<i>Calystegia turguriorum</i> C,F,M,T	Pōwhihi	Climbing convolvulus	CE, ED, DW, RM, LT, FM, M
<i>Clematis foetida</i> F,M			CE, LT, FM, FE
<i>Clematis forsteri</i> C,F,T	Puataua	Small white clematis	CE, ED, LT, FM, FE
<i>Clematis paniculata</i> F,M,T,W	Puawānanga	White clematis	CE, ED, LT, FE, M
<i>Fuchsia perscandens</i> C,F,M		Fuchsia	ED, LT, FM
<i>Metrosideros colensoi</i> C,F,M,T		Rata	ED, RM, LT, FE
<i>Metrosideros diffusa</i> C,F,M,T,W	Rātā	White rātā	CE, ED, DW, RM, LT, FE
<i>Metrosideros fulgens</i> C,F,M,T	Akatawhiwhi	Scarlet rātā	CE, ED, DW, RM, LT, FE, M
<i>Metrosideros perforata</i> C,F,M,T,W	Akatorotoro	Small white rātā	CE, ED, DW, RM, LT, FE, M
<i>Muehlenbeckia australis</i> C,F,M,T	Pōhuehue	Large leaved muehlenbeckia	CE, ED, DW, RM, FM, FE, LT, M
<i>Muehlenbeckia complexa</i> C,F,M,T,W	Pōhuehue	Wire vine	CE, ED, RM, LT, FM, FE,
<i>Parsonsia capsularis</i> var. <i>capsularis</i> C,F,T,W	Akakiore	NZ Jasmine	ED, LT, FM, FE
<i>Parsonsia heterophylla</i> C,F,M,T,W	Akakiore	NZ Jasmine	ED, DW, LT, FS, FM, FE
<i>Passiflora tetrandra</i> C,F,M,T,W	Kohia	Passion vine	ED, RM, FM
<i>Rubus australis</i> C,F,M,T	Taraheke	Swamp lawyer	DW, FS
<i>Rubus cissoides</i> C,F,M,T	Tātaramoa	Bush lawyer	ED, LT, FE, M
<i>Rubus schmidelioides</i> var. <i>schmidelioides</i> C,F,M,T	Taramoa	White leaved lawyer	ED, LT, FE
<i>Rubus squarrosus</i> C,F		Leafless lawyer	CE, ED, LT, FM, FE, M
<i>Tetragonia implexicoma</i> C(18),F	Kōkihi	NZ spinach	FD, ED
<i>Tetragonia trigyna</i> See <i>Tetragonia implexicoma</i>			
<i>Tetrapathea tetrandra</i> See <i>Passiflora tetrandra</i>			

CLUBMOSES & QUILLWORTS

<i>Isoetes kirkii</i> F(19)		Quillwort	DW, RM
FERN & FERN ALLIES			
<i>Adiantum cunninghamii</i> C,F,M,T	Puhinui	Common maiden hair	ED, LT, FE
<i>Alsophila smithii</i> See <i>Cyathea smithii</i>			
<i>Alsophila tricolor</i> See <i>Cyathea dealbata</i>			
<i>Anarthropteris lanceolata</i> See <i>Loxogramme dictyopteris</i>			
<i>Arthropteris tenella</i> C,F,M,T,W		Jointed fern	LT, FE
<i>Asplenium appendiculatum</i> ssp. <i>maritimum</i> F		Coastal spleenwort	CE, ED, DW
<i>Asplenium bulbiferum</i> C,F,M,T,W	Pikopiko	Hen & chickens	ED, DS, DW, RM, LT, FS, FE, M
<i>Asplenium falcatum</i> See <i>Asplenium polyodon</i>			
<i>Asplenium flabellifolium</i> C,F,M,T		Butterfly fern, necklace fern	ED, DS, RM, LT, FM, M
<i>Asplenium flaccidum</i> C,F,M,T,W	Makawe o Raukauri	Hanging spleenwort	ED, DS, DW, LT, FS, FE, M
<i>Asplenium gracillimum</i> C,F,M,T		Hen and chicken fern	ED, DS, DW, RM, LT, FS, FE, M
<i>Asplenium hookerianum</i> var. <i>hookerianum</i> C,F,M,T,W		Spleenwort	ED, DS, RM, LT, FS, FE, M
<i>Asplenium oblongifolium</i> C,F,M,T,W	Huruhuruwhenua	Shining spleenwort	CE, ED, DS, DW, RM, LT, FS, FE
<i>Asplenium lucidum</i> See <i>Asplenium oblongifolium</i>			
<i>Asplenium polyodon</i> C,F,M,T,W	Petako	Sickle spleenwort	CE, ED, DS, DW, RM, LT, FS, FE, M
<i>Asplenium terrestre</i> ssp. <i>maritimum</i> See <i>Asplenium appendiculatum</i> ssp. <i>appendiculatum</i>			
<i>Azolla filiculoides</i> C,F,M,T		Pacific azolla, red azolla	DS, DW, FS
<i>Azolla rubra</i> See <i>Azolla filiculoides</i>			
<i>Blechnum banksii</i> See <i>Blechnum blechnoides</i>			
<i>Blechnum capense</i> agg. See <i>Blechnum novae-zelandiae</i>			
<i>Blechnum chambersii</i> C,F,M,T,W	Nini	Lance fern	ED, RM, LT, FE, M
<i>Blechnum discolor</i> C,F,T,W	Petipeti	Crown fern	ED, LT, FE, M
<i>Blechnum filiforme</i> C,F,M,T,W	Pānako	Thread fern	ED, DW, LT, FE, M
<i>Blechnum fluviatile</i> C,F,M,T,W	Kiwikiwi	Creek fern	ED, DS, RM, LT, FS, FE, M
<i>Blechnum membranaceum</i> C,F,M,T,W			ED, DS, RM, LT, FS, FE, M
<i>Blechnum minus</i> C,F,M,T	Kiokio	Swamp kiokio	DW, DS, RM, FS, M
<i>Blechnum novae-zelandiae</i> C,F,M,T,W	Kiokio	Palm leaf fern	ED, DS, DW, RM, LT, FS, FM, FE, M
<i>Blechnum pennamarina</i> C,F,T		Alpine hard fern	ED, RM, LT, FM, FE, M
<i>Blechnum procerum</i> C,F,M,T	Kiokio	Small kiokio	ED, DS, DW, RM, LT, FS, FM, FE, M
<i>Botrychium australe</i> F	Patotara	Parsley fern	ED, DS, DW, RM, LT
<i>Cardiomanes reniforme</i> C,F,T	Raurenga	Kidney fern	ED, LT, FE, M
<i>Cheilanthes humilis</i> See <i>Cheilanthes sieberi</i> ssp. <i>sieberi</i>			
<i>Ctenitis decomposita</i> See <i>Lastreopsis microsora</i> ssp. <i>pentangularis</i>			
<i>Ctenitis velutina</i> See <i>Lastreopsis velutina</i>			
<i>Cyathea cunninghamii</i> C,F,T	Pūnui	Gully tree fern	FE, M
<i>Cyathea dealbata</i> C,F,M,T	Ponga	Silver fern	ED, LT, FE, M
<i>Cyathea medullaris</i> C,F,M,T,W	Mamaku	Black tree fern	ED, LT, FE
<i>Cyathea smithii</i> C,F,M,T	Kātote	Soft tree fern	ED, LT, FE, M
<i>Dicksonia fibrosa</i> C,F,T	Whekī-ponga	Golden tree fern	ED, LT, FE
<i>Dicksonia squarrosa</i> F,M,T,W	Whekī	Whekī	ED, LT, FE
<i>Diplazium australe</i> C,F,M,T			DS, DW, RM, FS, FE, M
<i>Doodia squarrosa</i> C,F			ED, DS, RM, LT, FS
<i>Gleichenia cirratta</i> See <i>Gleichenia dicarpa</i>			
<i>Gleichenia microphylla</i> F		Carrier tangle fern, parasol fern	CE, DW, FS, M
<i>Grammitis billardierei</i> C,F(13),T	Paretao	Common strap fern	ED, LT, FE, M
<i>Grammitis heterophylla</i> See <i>Ctenopteris heterophylla</i>			
<i>Histiopteris incisa</i> C,F,M,T	Mātā	Water fern	DW, RM, LT, FM, M
<i>Huperzia varia</i> C,F,T		Clubmoss	ED, LT, FE, M
<i>Hymenophyllum bivalve</i> C,F,T,W	Mauku	Filmy fern	ED, LT, FE, M

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<i>Hymenophyllum demissum</i> C,F,M,T	Piripiri	Droping filmy fern	ED, LT, FE
<i>Hymenophyllum ferriugineum</i> See <i>Hymenophyllum frankliniae</i>			
<i>Hymenophyllum flabellatum</i> C,F,M,T	Mauku	Filmy fern	ED, LT
<i>Hymenophyllum flexuosum</i> C,F,M,T	Mauku	Filmy fern	ED, LT, FE
<i>Hymenophyllum frankliniae</i> F,T		Rusty filmy fern	ED, LT, FE, M
<i>Hymenophyllum multifidum</i> F,M,T	Mauku	Much-divided filmy fern	ED, LT, FE, M
<i>Hymenophyllum rarum</i> C,F,M,T	Mauku	Filmy fern	ED, LT, FE, M
<i>Hymenophyllum revolutum</i> C,F,T	Mauku	Filmy fern	ED, LT, FE, M
<i>Hymenophyllum sanguinolentum</i> C,F,M,T	Mauku	Filmy fern	ED, LT, FE, M
<i>Hypolepis ambigua</i> C,F,M,T,W			ED, LT
<i>Hypolepis distans</i> C,F,M			ED, LT
<i>Hypolepis lactea</i> C,F,M			ED, LT
<i>Hypolepis millefolium</i> F(10)	Huarau	Thousand leaved fern	ED, LT, FE, M
<i>Hypolepis punctata</i> See <i>Hypolepis ambigua</i>			
<i>Hypolepis rufobarbata</i> C,F,T		Sticky pig fern	ED, LT
<i>Hypolepis tenuifolia</i> See <i>Hypolepis ambigua</i>			
<i>Lastreopsis glabella</i> C,F,M,T,W		Smooth shield fern	ED, LT, FE
<i>Lastreopsis hispida</i> C,F,M,T	Tuakura	Hairy fern	ED, LT, FE, M
<i>Lastreopsis microsora</i> ssp. <i>pentangularis</i> C,F,M,T			ED, LT, FE, M
<i>Lastreopsis velutina</i> C,F(11),M,T,W		Velvet fern	ED, LT, FE
<i>Leptopteris hymenophylloides</i> C,F,M,T,W	Heruheru	Single crape fern	ED, LT, FE, M
<i>Lindsaea cuneata</i> See <i>Lindsaea trichomanoides</i>			
<i>Lindsaea linearis</i> F(10)			ED, DW, LT, FS, FE
<i>Lomaria latifolia</i> see <i>Blechnum procerum</i>			
<i>Loxogramme dictyopteris</i> C,F,T		Lancefern	ED, LT, FE
<i>Lycopodium varium</i> See <i>Huperzia varia</i>			
<i>Microsorium pustulatum</i> ssp. <i>pustulatum</i> C,F,M,T,W	Pāharahara	Hound's tongue	CE, ED, DW, LT, FM, FE, M
<i>Microsorium scandens</i> C,F,M,T,W	Mokimoki	Climbing hound's tongue	ED, DW, LT, FE
<i>Ophioglossum petiolatum</i> F		Stalked adders tongue	DW, RM, FS
<i>Paesia scaberula</i> C,F,M,T,W	Mātātā	Lace fern, ring fern	CE, ED, LT, FE, M
<i>Pellaea rotundifolia</i> C,F,M,T,W	Tarawera	New Zealand cliff brake, button fern	CE, FE, M
<i>Phymatosorus diversifolius</i> See <i>Microsorium pustulatum</i> ssp. <i>pustulatum</i>			
<i>Phymatosorus scandens</i> See <i>Microsorium scandens</i>			
<i>Pneumatopteris pennigera</i> C,F,M,T,W	Pākauroharoha	Gully fern, feather fern	DS, RM, FS
<i>Polystichum richardii</i> See (now 4 species) <i>Polystichum neozelandicum</i> ssp. <i>neozelandicum</i> or <i>Polystichum neozelandicum</i> ssp. <i>zerophyllum</i> or			
<i>Polystichum occulatum</i> or <i>Polystichum wawranum</i> (Northland only)			
<i>Pteridium aquilinum</i> var. <i>esculentum</i> See <i>Pteridium esculentum</i>			
<i>Pteridium esculentum</i> C,F,M,T	Rārahu	Bracken	CE, ED, DS, DW, RM, LT, FM, FE, M
<i>Pteris macilenta</i> C,F,M,T,W	Titipo	Brake, sweet fern	ED, LT, FE, M
<i>Pteris pendula</i> See <i>Pteris macilenta</i>			
<i>Pteris tremula</i> C,F,M,T	Turawera	Shaking brake	ED, LT, FE, M
<i>Pyrrosia eleagnifolia</i> C,F,M,T,W	Ota	Leatherleaf fern	CE, ED, DS, DW, RM, LT, FM, FE, M
<i>Pyrrosia serpens</i> See <i>Pyrrosia eleagnifolia</i>			
<i>Rumohra adiantiformis</i> C,F,T	Karuwai	Leathery shield fern	CE, ED, DS, DW, RM, LT, FM, FE, M
<i>Rumohra hispida</i> See <i>Lastreopsis hispida</i>			
<i>Sphaeropteris medullaris</i> See <i>Cyathea medullaris</i>			
<i>Thelypteris pennigera</i> See <i>Pneumatopteris pennigera</i>			
<i>Tmesipteris elongata</i> C,F,M,T		Fork fern	ED, LT, FE, M
<i>Tmesipteris tannensis</i> F,M,T		Fork fern	ED, LT, FE, M
<i>Todea hymenophylloides</i> See <i>Leptopteris hymenophylloides</i>			
<i>Todea superba</i> See <i>Leptopteris superba</i>			
<i>Trichomanes reniforme</i> See <i>Cardiomanes reniforme</i>			
<i>Trichomanes venosum</i> F,T,W		Veined bristle fern	ED, LT, FE, M

ORCHIDS

<i>Acianthus fornicatus</i> var. <i>sinclairii</i> See <i>Acianthus sinclairii</i>			
<i>Acianthus sinclairii</i> F,T(9)		Heart-leaved orchid, pixie cap	LT, FE, M
<i>Adelopetalum tuberculatum</i> F			CE, ED, RM, LT, FM, FE, M
<i>Bulbophyllum pygmaeum</i> See <i>Ichthyostomum pygmaeum</i>			
<i>Bulbophyllum tuberculatum</i> See <i>Adelopetalum tuberculatum</i>			
<i>Caladenia carnea</i> agg. See <i>Petalochilus bartlettii</i>			
<i>Caladenia catenata</i> See <i>Petalochilus alatus</i>			
<i>Chiloglottis cornuta</i> See <i>Simpliglottis cornuta</i>			
<i>Corybas cheesmanii</i> F		Helmet orchid, cheesemans spider orchid	ED, LT, FE, M
<i>Corybas macranthus</i> See <i>Nematoceras longipetalum</i>			
<i>Corybus rivularis</i> See <i>Nematoceras rivulare</i>			
<i>Corybas trilobus</i> See <i>Nematoceras trilobum</i>			
<i>Cyrtostylis oblonga</i> F		Winter Orchid	ED, CE, FS, FE
<i>Cyrtostylis reniformis</i> See <i>Cyrtostylis rotundifolia</i>			
<i>Cyrtostylis rotundifolia</i> F		Winter Orchid	ED, CE, FS, FE
<i>Dendrobium cunninghamii</i> See <i>Winika cunninghamii</i>			
<i>Diplodium alobulum</i> C,F,M,T(9)		Greenhood	ED,FE
<i>Diplodium trullifolium</i> F(6),T(9)		Trowel-leaved orchid	FE
<i>Drymoanthus adversus</i> C,F,M,T		Drymoanthus	ED, LT, FE, M
<i>Earina aestivalis</i> F		Bamboo orchid, summer orchid	CE, ED
<i>Earina autumnalis</i> C,F,M,T	Raupeka	Autumn orchid	CE, ED, LT, FE, M
<i>Earina mucronata</i> C,F,M,T,W	Peka-a-waka	Bamboo orchid	CE, ED, LT, FE, M

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<i>Gastrodia cunninghamii</i> F,T	Perei	Black orchid	FE, M
<i>Gastrodia sesamoides</i> F		Pot bellied orchid, cinnamon sticks	ED
<i>Gastrodia minor</i> F		Small potato orchid, <i>Gastrodia</i>	ED, LT, FE, M
<i>Ichthyostomum pygmaeum</i> C,F,T		Pygmy tree orchid	CE, ED, RM, LT, FM, FE, M
<i>Lyperanthus antarcticus</i> See <i>Waireia stenopetala</i>			
<i>Microtis unifolia</i> C,F,M,T		Onion leaved orchid	CE, ED, DW, LT, FM, FE, M
<i>Nematoceras trilobum</i> C,F,M,T		Spider orchid	ED, LT, FE, M
<i>Orthocerus stricta</i> F,T(2)		Horned orchid	CE, LT, FE, M
<i>Orthocerus strictum</i> See <i>Orthocerus novae-zeelandiae</i>			
<i>Petalochilus alatus</i> F,M,T			ED, LT, FE, M
<i>Petalochilus bartlettii</i> C,F,T		Mauve fingers	ED, LT, FE, M
<i>Pterostylis alobula</i> See <i>Diplodium alobula</i>			
<i>Pterostylis banksii</i> C,F,M,T	Tutukiwi	Greenhood	ED, LT, FM, FE, M
<i>Pterostylis montana</i> C,F,T		Greenhood	ED, DW, DS, RM, LT, FE, M
<i>Sarcochilus adversus</i> See <i>Drymoanthus adversus</i>			
<i>Simpliglottis cornuta</i> C,F,T		Bird orchid, ant orchid	ED, DW, RM, LT, FM, FE, M
<i>Spiranthes novae-zeelandiae</i> F,T(33)		Ladies tresses	CE, DW, DS, RM, LT, FS, FE, M
<i>Thelymitra longifolia</i> C,F,M,T,W	Maikuku	Common sun orchid	CE, ED, LT, FE, M
<i>Winika cunninghamii</i> C,F,M,T	Winika, pekapeka	Christmas orchid	CE, ED, LT, FE, M

GRASSES

<i>Agropyron kirkii</i> See <i>Elymus multiflorus</i> subsp. <i>multiflorus</i>			
<i>Agropyron scabrum</i> See <i>Connorochloa tenuis</i>			
<i>Amphibromus fluitans</i> F		Water brome	ED, RM, M
<i>Arundo conspicua</i> See <i>Cortaderia fulvida</i>			
<i>Atropis stricta</i> See <i>Puccinellia stricta</i>			
<i>Austroderia fulvida</i> C,F,T,W	Toetoe	Toetoe	CE, DS, DW, RM, LT, FS, FE, M
<i>Austroderia splendens</i> F		Toetoe	CE, FD, ED, DS, DW
<i>Austroderia toetoe</i> C,F,M,T	Toetoe	Toetoe	DS, DW, RM, FS, FE, M
<i>Austrofestuca littoralis</i> See <i>Poa billardierei</i>			
<i>Connorochloa tenuis</i> F		Prostrate bluegrass	ED, LT
<i>Cortaderia fulvida</i> See <i>Austroderia fulvida</i>			
<i>Cortaderia splendens</i> See <i>Austroderia splendens</i>			
<i>Cortaderia toetoe</i> See <i>Austroderia toetoe</i>			
<i>Deyeuxia billardierei</i> See <i>Lachnagrostis billardierei</i>			
<i>Echinopogon ovatus</i> C,F,M,T		Hedgehog grass	ED, LT
<i>Lachnagrostis billardierei</i> C,F		Sand wind grass	CE, FD, ED, RM
<i>Lachnagrostis filiformis</i> C,F		New Zealand wind grass	CE, ED, RM, M
<i>Microlaena avenacea</i> C,F,M,T		Bush rice grass	ED, LT, FE, M
<i>Microlaena polynoda</i> F		Bamboo grass	ED, LT, FE, M
<i>Microlaena stipoides</i> C,F,M,T		Slender rice grass	ED, LT, FE, M
<i>Oplismenus hirtellus</i> ssp. <i>imbecillus</i> C,F,M			CE, LT, FE, M
<i>Oplismenus imbecillus</i> See <i>Oplismenus hirtellus</i> ssp. <i>imbecillus</i>			
<i>Poa anceps</i> C,F,T,W		Broad-leaved poa	CE, LT, FE, M
<i>Poa billardierei</i> C,F		Sand tussock	FD, ED
<i>Poa pusilla</i> F,M			LT, FE, M
<i>Puccinellia stricta</i> C,F		Salt grass	SE, RM, M
<i>Rytidosperma clavatum</i> C,F,M,T		Bristle grass	ED, LT, FE, M
<i>Rytidosperma gracile</i> C,F,M,T		Dainty bristle grass	ED, LT, FE, M
<i>Spinifex hirsutus</i> See <i>Spinifex sericeus</i>			
<i>Spinifex sericeus</i> C,F	Kōwhangatara	Spinifex	FD
<i>Zoysia minima</i> F		Prickly couch	CE, ED, DS

SEDGES

<i>Baumea arthropphylla</i> See <i>Machaerina arthropphylla</i>			
<i>Baumea articulata</i> See <i>Machaerina articulata</i>			
<i>Baumea huttonii</i> See <i>Machaerina arthropphylla</i>			
<i>Baumea juncea</i> See <i>Machaerina juncea</i>			
<i>Baumea rubiginosa</i> See <i>Machaerina rubiginosa</i>			
<i>Baumea tenax</i> See <i>Machaerina tenax</i>			
<i>Baumea teretifolia</i> See <i>Machaerina teretifolia</i>			
<i>Bolboschoenus caldwellii</i> C,F	Purua grass	Caldwell's clubrush	SE, ED, DW
<i>Bolboschoenus fluviatilis</i> F	Kukuraho	Marsh clubrush	SE, ED, DW, DS, RM
<i>Carex buechananii</i> F		Buchanan's sedge, cutty grass	ED, DS, DW, RM, FS, M
<i>Carex dipsacea</i> F		Teasel sedge	ED, DW, LT, RM, FS, FE
<i>Carex dissita</i> C,F,M,T		Forest sedge	ED, DS, LT, RM, FS, FE
<i>Carex flagellifera</i> C,F,M,T		Trip me up, Glen Murray tussock	ED, LT, FE, M
<i>Carex forsteri</i> C,F,T		Forster's sedge	ED, DS, DW, LT, RM, FS, FE, M
<i>Carex geminata</i> C,F,M,T		Cutty grass	ED, DS, DW, LT, RM, FS, FE, M
<i>Carex inversa</i> C,F,M,T		Creeping lawn sedge	ED, LT, FE
<i>Carex lambertiana</i> C,F		Forest sedge	ED, DS, LT, RM, FE
<i>Carex lessoniana</i> F,M,T		Cutty grass	ED, DW, LT, FS
<i>Carex litorosa</i> F		Sea sedge	SE
<i>Carex lucida</i> See <i>Carex flagellifera</i>			
<i>Carex maorica</i> C,F,M,T	Makura	Maori sedge	CE, DS, DW, LT, FS
<i>Carex pumila</i> C,F		Sand sedge	ED, DS
<i>Carex 'raotest'</i> F			CE, ED, LT, FE, M

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<i>Carex secta</i> C,F,M,T	Pukio	Niggerhead	DW, FS, M
<i>Carex solandri</i> C,F,M,T		Forest sedge, solanders sedge	CE, DS, RM, FS, M
<i>Carex ternaria</i> F	Rautahi	Southern cutty grass	ED, DS, DW, LT, RM, FS, FE, M
<i>Carex testacea</i> C,F,T(14)		Speckled sedge, trip me up	CE, ED, LT, FE, M
<i>Carex virgata</i> C,F,M,T		Swamp sedge	CE, DS, DW, RM, LT, FS, FE, M
<i>Cyperus ustulatus f. ustulatus</i> C,F,M,T	Toetoe upokotangata	Giant umbrella sedge	DW
<i>Desmoschoenus spiralis</i> See <i>Ficinia spiralis</i>			
<i>Eleocharis acuta</i> C,F,T		Sharp spike sedge	DS, DW, RM, LT, FS, FE, M
<i>Eleocharis gracilis</i> C,F,M,T		Slender spike sedge	DS, DW, RM, LT, FS, FE, M
<i>Eleocharis neozelandica</i> F		Sand spike sedge, spike sedge	SE, DW, RM
<i>Eleocharis sphacelata</i> F	Kuta	Bamboo spike sedge	DW, RM, LT
<i>Ficinia nodosa</i> C,F,T	Wiwi	Knobby club rush, ethel sedge	ED, DW, M
<i>Ficinia spiralis</i> C,F	Pingao	Golden sand sedge	FD
<i>Gahnia pauciflora</i> F,T		Cutting sedge	ED, LT, FE, M
<i>Gahnia setifolia</i> C,F,T	Mapere	Giant Gahnia, Razor Sedge	ED, RM, LT, FE, M
<i>Gahnia xanthocarpa</i> C,F,M	Tupari maunga	Gahnia	ED, DW, DS, RM, LT, FS, FE, M
<i>Isolepis basilaris</i> F		Pygmy clubrush	SE, DW, RM, FS
<i>Isolepis cernua var. cernua</i> C,F,T		Slender clubrush	CE, DW, DS, RM, FS
<i>Isolepis distigmata</i> F(24)			DW, RM, FS, M
<i>Isolepis inundata</i> C,F,M,T			DW, DS, RM, FS, M
<i>Isolepis nodosa</i> See <i>Ficinia nodosa</i>			
<i>Isolepis praetextata</i> C,F			CE, ED, DW
<i>Isolepis prolifer</i> C,F,M,T			DW, DS, RM, M
<i>Isolepis reticularis</i> C,F,T,W			CE, DS, RM, FS, M
<i>Isolepis subtilissima</i> F			DW, M
<i>Lepidosperma australe</i> C,F		Square stemmed sedge	ED, DW, LT, M
<i>Lepidosperma laterale</i> F		Sword sedge	ED, DW, LT
<i>Machaerina arthropphylla</i> F			DW, DS, RM, FS
<i>Machaerina articulata</i> F		Jointed baumea or twig rush	DS, DW, RM
<i>Machaerina rubiginosa</i> C,F,M		Baumea	DW, DS, RM, FS, M
<i>Machaerina tenax</i> C,F,M			DW, RM, M
<i>Machaerina teretifolia</i> F		Common twig rush, pakihi sedge	DW, DS
<i>Mariscus ustulatus</i> See <i>Cyperus ustulatus f. ustulatus</i>			
<i>Schoenoplectus pungens</i> C,F		Three square	SE, DS, RM, FS, M
<i>Schoenoplectus tabernaemontani</i> C,F			SE, DS, RM, FS, M
<i>Schoenoplectus validus</i> See <i>Schoenoplectus tabernaemontani</i>			
<i>Schoenus maschalinus</i> C,F,T		Dwarf bog rush	SE, ED, DW, DS, RM, LT, FS, FE, M
<i>Schoenus nitens</i> C,F			SE, DW, DS, RM
<i>Schoenus tendo</i> F		Kauri sedge, kauri schoenus	ED, DW, LT
<i>Scirpus americanus</i> See <i>Schoenoplectus pungens</i>			
<i>Scirpus caldwellii</i> See <i>Bolboschoenus caldwellii</i>			
<i>Scirpus cernuus</i> See <i>Isolepis cernua var. cernua</i>			
<i>Scirpus fluvatililis</i> See <i>Bolboschoenus fluvatililis</i>			
<i>Scirpus habrus</i> See <i>Isolepis habra</i>			
<i>Scirpus inundatus</i> See <i>Isolepis inundata</i>			
<i>Scirpus lacustris</i> See <i>Schoenoplectus tabernaemontani</i>			
<i>Scirpus nodosus</i> See <i>Ficinia nodosa</i>			
<i>Scirpus prolifer</i> See <i>Isolepis prolifer</i>			
<i>Scirpus pungens</i> See <i>Schoenoplectus pungens</i>			
<i>Scirpus reticularis</i> See <i>Isolepis reticularis</i>			
<i>Uncinia banksii</i> C,F,T		Fine-leaved bastard grass	ED, LT, FE, M
<i>Uncinia clavata</i> F		Bastard grass, fish hooks	RM, FE, M
<i>Uncinia ferruginea</i> C,F,T		Bastard grass, cavers beard	ED, LT, FE, M
<i>Uncinia scabra</i> C,F,T		Harsh-leaved bastard grass	ED, LT, FE, M
<i>Uncinia uncinata</i> C,F,M,T,W	Matau a Māui	Hooked sedge	ED, LT, FE, M

RUSHES & ALLIED SPECIES

<i>Apodasmia similis</i> C,F	Oioi	Jointed wire rush	SE, DS, RM
<i>Juncus antarcticus</i> F,T		Dwarf rush	DW, FS, M
<i>Juncus australis</i> C,F,M,T	Wiwi	Leafless rush	ED, DW, LT, FS, FE, M
<i>Juncus caespiticus</i> C,F,T		Grass-leaved rush	CE, DW, FS, FE
<i>Juncus edgariae</i> C,F,M,T		Edgars rush	DW, LT, FS, M
<i>Juncus gregiflorus</i> See <i>Juncus edgariae</i>			
<i>Juncus kraussii var. australiensis</i> C,F		Sea rush	SE, DS
<i>Juncus maritimus var. australiensis</i> See <i>Juncus kraussii var. australiensis</i>			
<i>Juncus pallidus</i> C,F,T		Giant rush, leafless rush	CE, DW, RM, LT, FS
<i>Juncus planifolius</i> C,F,M,T,W		Grass-leaved rush	DW, LT, FS, M
<i>Juncus sarophorus</i> C,F,M,T		Fan flowered rush	DW, RM, LT, FS
<i>Leptocarpus similis</i> See <i>Apodasmia similis</i>			
<i>Luzula picta var. picta</i> C,F,T			CE, ED, RM, LT, FM, FE, M

MONOCOT HERBS OTHER THAN ORCHIDS, GRASSES, SEDGES

<i>Arthropodium candidum</i> C,F,M,T	Rengarenga	NZ lily, bush lily	ED, LT, FE
<i>Astelia fragrans</i> C,F,M,T	Kakaha	Bush flax, bush lily	ED, DW, LT, FE
<i>Astelia grandis</i> F,M	Karearea	Swamp astelia	DW, RM, FS, M
<i>Astelia solandri</i> C,F,T	Kōwharawhara	Perching astelia	CE, ED, DS, DW, RM, LT, FS, FE

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<i>Astelia trinervia</i> F		Kauri grass	ED, FE
<i>Collospermum hastatum</i> C,F,M,T,W	Kahakaha	Kahakaha	ED, LT, FE, M
<i>Dianella nigra</i> C,F,T	Tūrutu	NZ Blueberry	ED, DW, LT, FE, M
<i>Lemna minor</i> C,F,M,T	Kārearea	Common duck weed	DW, DS, RM, FS
<i>Libertia ixioides</i> C,F,T	Mīkoikoi	NZ iris	CE, ED, DS, RM, LT, FE, M
<i>Libertia peregrinans</i> F	Mīkoikoi	NZ iris	CE, ED, DS
<i>Libertia pulchella</i> See <i>Libertia micrantha</i>			
<i>Phormium cookianum</i> ssp. <i>hookeri</i> C,F	Wharariki	Mountain flax	CE, ED, LT, FE, M
<i>Phormium tenax</i> C,F,M,T,W	Harakeke	Flax	DW, DS, RM, FS, M
<i>Potamogeton cheesemanii</i> C,F,T		Red pond weed	DW, DS, RM, FS
<i>Potamogeton pectinatus</i> See <i>Stuckenia pectinata</i>			
<i>Ruppia megacarpa</i> F		Horses mane weed, lakeweed	SE, DS
<i>Ruppia polycarpa</i> F		Horses mane weed, lakeweed	SE, DS
<i>Sparganium subglobosum</i> C,F	Maru	Burr-reed	DW, DS, RM, FS
<i>Stuckenia pectinata</i> F		Fennel-leaved pond weed, sago pond-weed	SE, DS
<i>Triglochin striata</i> C,F,T		Triglochin	CE, ED, DW, LT, FS, FE
<i>Triglochin striatum</i> See <i>Triglochin striata</i>			
<i>Typha muelleri</i> See <i>Typha orientalis</i>			
<i>Typha orientalis</i> C,F,M,T	Raupō	Bulrush	DW, RM, FS
<i>Wolffia australiana</i> F,T		Water-meal	DW, RM, FS

DAISY-LIKE HERBS (COMPOSITES)

<i>Anaphalioides keriensis</i> ssp. See <i>Anaphalioides trinervis</i>			
<i>Centipeda cunninghamii</i> F		Sneezeweed	ED, DS, RM, FS, M
<i>Centipeda elatanoides</i> F,T		Sneezeweed, snuff weed	ED, DS, RM, FS, M
<i>Centipeda minima</i> ssp. <i>minima</i> C,F		Sneezeweed, centipeda	ED, DW, FS
<i>Centipeda orbicularis</i> See <i>Centipeda elatanoides</i>			
<i>Cotula coronopifolia</i> C,F		Bachelors button, yellow buttons	ED, RM
<i>Cotula doica</i> ssp. <i>monoica</i> See <i>Leptinella dioica</i>			
<i>Cotula membranacea</i> See <i>Leptinella tenella</i>			
<i>Craspedia minor</i> var. <i>viscosa</i> See <i>Craspedia viscosa</i>			
<i>Erechtites minima</i> See <i>Senecio minimus</i>			
<i>Euchiton audax</i> C,F,M,T			ED, LT
<i>Euchiton collinus</i> C,F,M,T		Cudweed	ED, LT, FE, M
<i>Euchiton delicatus</i> F			ED, DW, LT
<i>Euchiton gymnocephalus</i> See <i>Euchiton collinus</i>			
<i>Euchiton involucratus</i> C,F,M,T			DW, FS
<i>Euchiton limosus</i> C,F,M,T			DW, RM, LT, FS, M
<i>Gnaphalium audax</i> See <i>Euchiton audax</i>			
<i>Gnaphalium collinum</i> See <i>Euchiton collinus</i>			
<i>Gnaphalium gymnocephalum</i> See <i>Euchiton collinus</i>			
<i>Gnaphalium involucratum</i> See <i>Euchiton involucratus</i>			
<i>Gnaphalium kerianse</i> See <i>Anaphalioides trinervis</i>			
<i>Gnaphalium limosum</i> See <i>Euchiton limosus</i>			
<i>Gnaphalium luteo-album</i> See <i>Pseudognaphalium luteoalbum</i>			
<i>Gnaphalium sphaericus</i> See <i>Euchiton sphaericus</i>			
<i>Helichrysum bellidioides</i> See <i>Anaphalioides bellidioides</i>			
<i>Helichrysum filicaule</i> C,F,M,T,W		Creeping slender everlasting daisy	ED, LT, FE, M
<i>Lagenifera pumila</i> C,F,T,W	Papataniwhaniwha		ED, LT, FE
<i>Leptinella dioica</i> C,F		Shore cotula	DW, ED, FS
<i>Leptinella dispersa</i> ssp. <i>dispersa</i> C,F			CE
<i>Leptinella tenella</i> C,F,T			DW, DS, RM, FS
<i>Pseudognaphalium luteoalbum</i> C,F,M,T,W			ED, LT, FE, M
<i>Raoulia hookeri</i> var. <i>hookeri</i> C,F		Scabweed mat daisy	CE, M
<i>Senecio biserratus</i> F		Fireweed	CE, ED, LT
<i>Senecio minimus</i> F,M,T,W		Fireweed	CE, ED, LT, FM, FE, M
<i>Senecio glomeratus</i> ssp. <i>glomeratus</i> C,F		Fireweed	CE, ED, DW, LT, FS, FM, FE, M
<i>Senecio hispidulus</i> C,F,M,T		Fireweed	CE, ED, LT, FE, M
<i>Senecio lagopus</i> See <i>Brachyglottis lagopus</i>			
<i>Senecio lautus</i> var. <i>lautus</i> C, F		Shore or variable groundsel	CE, FD, ED, LT
<i>Senecio minimus</i> C,F,M,T		Fireweed	CE, ED, LT, FM, FE, M
<i>Senecio quadridentatus</i> C,F		Cotton or white fireweed	CE, ED, RM, LT, FM, FE, M
<i>Senecio saxifragoides</i> See <i>Brachyglottis lagopus</i>			
<i>Sonchus kirkii</i> C,F	Pūhā, raurōroa	New Zealand sow thistle	CE
<i>Sunchus littoralis</i> See <i>Sonchus kirkii</i>			
<i>Vittadinia australis</i> C,F,T		White fuzzweed	CE, RM, FE, M

DICOT HERBS OTHER THAN COMPOSITES

<i>Acaena anserinifolia</i> C,F,M,T	Hutiwai	Bidibidi	ED, DS, RM, LT, FM, M
<i>Acaena novae-zelandiae</i> F,M,T		Red Bidibid	ED, DS, RM, LT, FM, M
<i>Apium australe</i> See <i>Apium prostratum</i> ssp. <i>prostratum</i> var. <i>filiforme</i>			
<i>Apium prostratum</i> ssp. See <i>Apium prostratum</i> ssp. <i>prostratum</i> var. <i>filiforme</i>			
<i>Apium prostratum</i> ssp. <i>prostratum</i> var. <i>filiforme</i> C,F		New Zealand celery	DS, DW, ED, LT
<i>Callitriche muelleri</i> F,M,T		Muellers starwort	ED, DS, DW, RM, LT, FS, FE, M
<i>Cardamine debilis</i> agg. C,F,M,T,W	Panapana	NZ bitter cress	ED, DS, RM, LT, FS, FE
<i>Centella uniflora</i> C,F,M,T,W		Centella	DW, LT
<i>Chenopodium ambiguum</i> C,F			ED, DW

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<i>Crassula tetramera</i> See <i>Crassula colligata</i> ssp. <i>colligata</i>			
<i>Dichondra brevifolia</i> agg. F,M,T,W		Dichondra	ED, LT, M
<i>Dichondra repens</i> C,F,M,T		Mercury bay weed	ED, LT, FE, M
<i>Drosera auriculata</i> C,F,T		Sundew	ED, LT, FE, M
<i>Drosera binata</i> C,F		Forked or scented sundew	DW, FS, M
<i>Drosera peltata</i> ssp. <i>auriculata</i> See <i>Drosera auriculata</i>			
<i>Elatostema rugosum</i> F	Parataniwha	New Zealand Begonia	DW, DS, FS
<i>Epilobium bilardioreanum</i> C,F		Willowherb	ED, DS, DW, LT, RM, FS, FE, M
<i>Epilobium chionanthum</i> C,F		Marsh willowherb	DS, DW, RM, FS, M
<i>Epilobium cinereum</i> C,F		Willowherb	DS, RM, M
<i>Epilobium insulare</i> C,F,T		Willowherb	ED, DS, DW, LT, RM, FS, FE, M
<i>Epilobium komarovianum</i> C,F,T		Creeping willowherb	CE, ED, DS, DW, LT, RM, FS, FE, M
<i>Epilobium linnaeoides</i> See <i>Epilobium pedunculare</i>			
<i>Epilobium nummulariifolium</i> C,F,M,T		Creeping willowherb	CE, DS, RM, FS, M
<i>Epilobium pallidiflorum</i> C,F,M		Swamp willowherb	ED, DS, DW, LT, FS, FE, M
<i>Epilobium pedunculare</i> C,F,M,T,W		Long-staked willowherb	ED, DS, DW, LT, FS, FE, M
<i>Galium propinquum</i> C,F,M,T			ED, DS, DW, LT, FS, FE, M
<i>Galium tenuicaule</i> See <i>Galium trilobum</i>			
<i>Galium trilobum</i> C,F		Native bedstraw	ED, DS, DW, LT, FS, FE, M
<i>Gentiana matthewsii</i> See <i>Gentianella grisebachii</i>			
<i>Gentiana patula</i> See <i>Gentianella patula</i>			
<i>Geranium microphyllum</i> C,F,T			CE, FE
<i>Geranium potentilloides</i> F			ED, DS, RM, LT, FE, M
<i>Glossostigma elatinooides</i> F			SE, DS, DW
<i>Gonocarpus micranthus</i> ssp. <i>micranthus</i> C,F,T			DW, FS
<i>Gratiola sexdentata</i> C,F		Gratiola	DW, RM
<i>Gunnera arenaria</i> F			ED, DW, RM
<i>Gunnera dentata</i> F			ED, DW, RM
<i>Gunnera prorepens</i> F			ED, DW, RM
<i>Haloragis erecta</i> ssp. <i>erecta</i> C,F,T	Toatoa	Fireweed, shrubby haloragis	CE, FM, FE, M
<i>Haloragis incana</i> See <i>Gonocarpus incanus</i>			
<i>Haloragis micrantha</i> See <i>Gonocarpus micranthus</i> ssp. <i>micranthus</i>			
<i>Hydrocotyle americana</i> See <i>Hydrocotyle heteromeria</i>			
<i>Hydrocotyle elongata</i> C,F,T			ED, DW, LT, FS, FM, FE, M
<i>Hydrocotyle heteromeria</i> C,F,M,T		Waxweed, waxweed pennywort	ED, LT, FM, FE
<i>Hydrocotyle hydrophila</i> C,F			DW
<i>Hydrocotyle microphylla</i> F			ED, DW, LT, FS
<i>Hydrocotyle moschata</i> See <i>Hydrocotyle moschata</i> var. <i>moschata</i> or <i>Hydrocotyle moschata</i> var. <i>parvifolia</i>			
<i>Hydrocotyle moschata</i> var. <i>moschata</i> C,F,M,T,W		Hairy pennywort	ED, LT, FM, FE, M
<i>Hydrocotyle moschata</i> var. <i>parvifolia</i> F,M,T,W		Hairy pennywort	ED, LT, FM, FE, M
<i>Hydrocotyle novae-zelandiae</i> var. <i>novae-zelandiae</i> F,M,T			ED, DW, LT
<i>Hydrocotyle pterocarpa</i> F			DW
<i>Hypericum japonicum</i> C,F,M,T		Swamp hypericum	DW, LT, FS, M
<i>Leptostigma setulosa</i> C,F,M,T			DW, LT
<i>Lilaeopsis ruthiana</i> F			DW, RM, FS
<i>Limosella lineata</i> C,F		Mudwort	DW, DS, RM, LT
<i>Lobelia anceps</i> C,F,T	Punakura	NZ lobelia, shore lobelia	CE, DS, DW, RM, FS, M
<i>Lobelia angulata</i> F,T(3)		Pratia	CE, DS, RM, LT, M
<i>Lobelia perpusilla</i> F			ED,DW
<i>Mazus novaezeelandiae</i> subsp. <i>impolitus</i> f. <i>impolitus</i> F		Dwarf musk, mat-leaved mazus	ED, DW
<i>Mimulus repens</i> C,F		Native musk, Native monkey flower	SE, RM
<i>Myosotis australis</i> var. <i>lyttletonensis</i> See <i>Myosotis lyttletonensis</i>			
<i>Myosotis pygmaea</i> var. <i>minutiflora</i> See <i>Myosotis brevis</i>			
<i>Myriophyllum pedunculatum</i> subsp. <i>novaezeelandiae</i> F			DW, FS, M
<i>Myriophyllum propinquum</i> C,F,T		Common water milfoil	DW, FS, M
<i>Myriophyllum triphyllum</i> C,F		Water milfoil	DW, FS, M
<i>Myriophyllum votschii</i> C,F			CE, RM, FS
<i>Nertera ciliata</i> F,M,T			ED, LT, FE, M
<i>Nertera depressa</i> C,F,M,T		Bead plant, fruiting duckweed	CE, DW, RM, LT, FS, FE, M
<i>Nertera setulosa</i> See <i>Leptostigma setulosa</i>			
<i>Nertera scapanioides</i> F(5),T(31)			ED, DW, M
<i>Oreomyrrhis ramosa</i> aff. See <i>Chaerophyllum ramosum</i>			
<i>Oxalis exilis</i> C,F,M,T,W			
<i>Oxalis lacteal</i> See <i>Oxalis magellanica</i>			
<i>Oxalis rubens</i> C,F			
<i>Parietaria debilis</i> C,F,M,T,W	Panapana	Dune oxalis	ED
<i>Pelargonium inodorum</i> F	Kopata	NZ pellitory	ED, DW, LT, FE
<i>Persicaria decipens</i> C,F,M			CE, ED, LT, M
<i>Plantago raoulii</i> C,F,M			DS, DW, RM, FS, M
<i>Plantago uniflora</i> See <i>Plantago unibracteata</i>			CE, LT, FE
<i>Polygonum decipiens</i> See <i>Persicaria decipens</i>			
<i>Polygonum plebium</i> F		Small knotweed	DS, DW, RM, FS, M
<i>Polygonum salicifolium</i> agg. See <i>Persicaria decipens</i>			
<i>Potentilla anserinoides</i> C,F		Silverweed	DW, LT, FS, FE, M
<i>Pratia angulata</i> See <i>Lobelia angulata</i>			
<i>Pratia perpusilla</i> See <i>Lobelia perpusilla</i>			
<i>Ranunculus acaulis</i> C,F		Sand or shore buttercup	CE, DS, RM

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<i>Ranunculus amphitrichus</i> F,T	Waoriki		DS, DW, RM, FS, M
<i>Ranunculus glabiflorus</i> F			DS, DW, RM, FS, M
<i>Ranunculus hirtus</i> See <i>Ranunculus membranifolus</i>			
<i>Ranunculus macropus</i> C,F		Swamp buttercup	DW, FS, M
<i>Ranunculus membranifolus</i> F,T			ED, LT, FE, M
<i>Ranunculus recens</i> F			ED, DW, FS, M
<i>Ranunculus reflexus</i> C,F,M,T,W	Maru	Hairy buttercup	ED, LT, FE, M
<i>Ranunculus rivularis</i> See <i>Ranunculus amphitrichus</i> or <i>Ranunculus glabifolius</i>			
<i>Rorippa palustris</i> C,F	Poniu	Marsh yellow cress	DS, DW, RM, FS, M
<i>Samolus repens</i> var. <i>repens</i> C,F		Sea primrose, shore pimpernel	ED
<i>Sarcocornia quinqueflora</i> var. <i>quinqueflora</i> C,F		Glasswort	CE, FD
<i>Sebaea ovatus</i> F		Sebaea	DW, DS
<i>Selliera radicans</i> F		Selliera	CE, FD
<i>Solanum americanum</i> See <i>Solanum nodiflorum</i>			
<i>Solanum nodiflorum</i> F,M		Small flowered nightshade	ED, LT
<i>Stellaria decipiens</i> See <i>Stellaria decipiens</i> var. <i>decipens</i>			
<i>Stellaria decipiens</i> var. <i>decipens</i> C,F,M,T,W			ED, LT, FE, M
<i>Stellaria parviflora</i> C,F,T		New Zealand chickweed	ED, LT, FE, M
<i>Urtica incisa</i> C,F,T	Ongaonga	Scrub nettle	CE, ED, LT, FM, FE, M
<i>Urtica linearifolia</i> C,F		Swamp nettle	DW, FS
<i>Viola cunninghamii</i> C,F		Mountain or white violet	ED, LT, FS, FE, M
<i>Viola lyallii</i> F		NZ native violet	ED, LT, FS, FE, M
<i>Wahlenbergia colensoi</i> See <i>Wahlenbergia littoricola</i> ssp. <i>vernicaosa</i> ; <i>Wahlenbergia ramosa</i> ; <i>Wahlenbergia rupestris</i>			
<i>Wahlenbergia gracilis</i> See <i>Wahlenbergia ramosa</i> ; <i>Wahlenbergia rupestris</i> ; <i>Wahlenbergia violacea</i>			
<i>Wahlenbergia marginata</i> See <i>Wahlenbergia violacea</i>			
<i>Wahlenbergia rupestris</i> F,M,T		White harebell	CE, ED, LT, FE, M
<i>Wahlenbergia violacea</i> F,M,T		Violet harebell	ED, LT, FE

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18 Ward, M.D. (2010) Personal Observation, *Tetragonia implexicoma* abundant on the slopes of the Paekākāriki Escarpment growing in places over various other floral species or on otherwise bare substrate. Observed 18th October 2010.

34 Ward, M.D. (2012) Personal Observation, *Pimelea prostrata* s.l. several specimens growing on the Paekakariki Escarpment just on the border of the Kāpiti District. A specimen has been collected and attempted to be classified by Peter de Lange of D.o.C. Auckland, the specimen has been recorded and collected at the Auckland Museum Herbarium as AK 330465 for future diagnosis. Observed 7th March 2012.

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- 5 Ward, M.D.** (2010) Personal Observation, in the area known as the Raumati peat-lands directly east of the planned route of the motorway, amongst bracken, gorse and blackberry. Observed 5th March 2010.
- 6 Ward, M.D.** (2011) Personal Observation, in the area known as the Jack's Bush, a single flowering specimen of *Diplodinium trullifolium* accompanied by many not as yet flowering specimens, was spotted in the undergrowth below the regenerating scrub in the peaty area in the South West of Reserve. Observed 14th June 2011.
- 10 Ward, M.D.** (2010) Personal Observation, *Lindsaea linearis* growing in the undergrowth of the largest part of the remnant collection known as Haruatai Park. Observed 28th June 2010.
- 11 Ward, M.D.** (2011) Personal Observation, *Lastreopsis velutina* growing in several locations on the established banks at the western side of the oxbow. Observed 8th July 2011.
- 13 Ward, M.D.** (2010) Personal Observation, *Grammitis billardierei* growing happily among all three of the remnant bush blocks in the Haruatai Park area. Observed 7th July 2010.
- 19 Ward, M.D.** (2010) Personal Observation, *Isoetes kirkii* has likely existed beside and inside the Waimeha lagoon for hundreds of years, however we have just sprayed and replanted an area close to the lagoon which ephemerally inundates, thus allowing this species to grow again without being regularly mowed. Observed 20th October 2010.
- 24 Ward, M.D.** (2011) Personal Observation, *Isolepis distigmatica* may be have missed on many botanical lists primarily due to its size, this species has been seen in other local ecological districts by myself and will be added to them in the future when spotted again. Observed 28th January 2011.
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15 Ward, M.D. (2010) Personal Observation, on Kiripiti Scientific Reserve, Otaki, *Korthalsella lindsayi* growing on *Melicope simplex*. I have managed to find more than one plant hosting the parasite therefore suggesting there are more to be found. Observed 21st May 2010.

21 Ward, M.D. (2010) Personal Observation, *Leucopogon fasciculatus* seen in swampy area of the Pukehou Swamp, Ōtaki. Observed 27th October 2010.

28 Ward, M.D. (2011) Personal Observation, *Nothofagus solandri* var. *solandri*, seen growing on the banks of the Ōtaki River, in an area that is very close to the border of this ecological district and that of the Tararua Ecological District. Observed 5th October 2011.

29 Ward, M.D. (2011) Personal Observation, during a 60 minute visit to the Ōtaki Gorge Road Reserve *Coriaria sarmentosa*, growing on the lower bank of the true left of the Ōtaki River. Observed 31st October 2011.

Wassilieff, M.C. & Clark, D.J. (1986) Plant Checklist for Kiripiti Scientific Reserve. Scenic Reserves of the Lower North Island. Biological Survey of Reserves No. 14. Prepared by Wassilieff, M. C.; Clark, D. J. Gridref. N157 667 823. List compiled in September 1983.

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TARARUA ECOLOGICAL DISTRICT

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1 Ward, M.D. (2010) Personal Observation, seen on the bank of the Ōtaki River below the Bridgeview Track river access on Ōtaki Gorge Road. Observed 13th January 2010.

2 Ward, M.D. (2010) Personal Observation, seen on a clay bank of the hautere water supply reserve, reserve was accessed from 530 Ōtaki Gorge Road. Observed 13th January 2010.

3 Ward, M.D. (2010) Personal Observation, seen on the bank of the Ōtaki River on a rocky out crop at the intersection of a tributary and the main river below the un-sealed section of Ōtaki Gorge Road. Observed 8th February 2010.

4 Ward, M.D. (2010) Personal Observation, *Carex echinata*, several specimens growing along side the access road toward the end before the “Fence-line Track” turn off on the Ōtaki Forks Road. Observed 11th May 2011.

7 Ward, M.D. (2010) Personal Observation, seen in a seepage above the Ōtaki Forks river branches, the specimens were growing amongst Sphagnum moss below *Coprosma tenuicaulis* in an area approximately five metres from the track that heads back to the larger tributary of the Ōtaki River. Observed 13th May 2010.

8 Ward, M.D. (2010) Personal Observation, in a remnant known locally as the “devils elbow” on a higher river terrace of the Waikanae River toward Reikorangi. Observed 25th May 2010.

9 Ward, M.D. (2010) Personal Observation, *Diplodium alobulum*, *D. trullifolium* and *Acianthus sinclairii* seen in several locations in leaf litter on the second west facing slope of what is known as the Muaupoko Bush East of SH1 when travelling eastward, Paraparaumu. The specimens of *Diplodium alobulum* and *D. Trullifolium* in one situation were growing side by side on a mossy

patch that had grown on a low-lying horizontal growth of mature *Olearia paniculata* trunk which had a diameter of approximately 500mm. Observed 27th May 2010.

14 Ward, M.D. (2010) Personal Observation, *Carex testacea* found growing beside a D.O.C. trapping line on the Northwest facing easternmost section of the Paraparaumu Scenic Reserve. The specimens were growing below *Dysoxylum spectabile* in a semi clearing which would have been created by a tree fall. Observed 27th July 2010.

16 Ward, M.D. (2010) Personal Observation, *Nematocerus iridescens* hundreds of specimens found growing along the side the "Fenceline" walking track at the end of the Ōtaki Forks public road. Observed 30th August 2010.

17 Ward, M.D. (2010) Personal Observation, *Drymoanthus flavus* specimens found on wind fallen *Beilschmedia tawa* section on the Southern lookout route of the Nikau Reserve. Observed 13th October 2010.

20 Ward, M.D. (2010) Personal Observation, *Brachyglottis kirkii* var. *kirkii* growing as an epiphyte on *Beilschmedia tawa* in the Maungakotukutuku Scenic Reserve, Paraparaumu. Observed 26th October 2010.

22 Ward, M.D. (2010) Personal Observation, *Petalochilus variegatus* growing as a loan specimen on the clay bank beside the entrance track of the Hautere Water Tank Reserve, Ōtaki. Observed 22nd November 2010.

23 Ward, M.D. (2010) Personal Observation, *Petalochilus chlorostylus* in flower, growing on the forest floor in mature mixed podocarp forests along side the access tracks in both the Kaitawa Scenic Reserve, Reikorangi, and Maungakotukutuku Scenic Reserve, Paraparaumu. Observed 3rd & 9th December 2010 respectively.

26 Ward, M.D. (2011) Personal Observation, *Coprosma dumosa*, abundantly growing along side the track which ascends to the Field Hut and Syme Hut, when travelling from the Boielles Flat terminus in the Ōtaki Forks. Observed 20th July 2011.

12 Ward, M.D. (2011) Personal Observation, *Olearia virgata*, only a single specimen noted at this first inspection growing in the under-storey in a soggy part of the walking track Te Araroa between The fenceline track and Mangoane Walkway. Observed 19th July 2011.

25 Ward, M.D. (2011) Personal Observation, *Doodia australis*, noted in several places in similar growing conditions which are generally below kanuka/manuka on North facing slopes, the first observation was on the lower levels of the Paraparaumu Scenic Reserve boundary with private property on the eastern most reaches. Observed 10th August 2011.

27 Ward, M.D. (2011) Personal Observation, *Pittosporum cornifolium* growing high in the canopy of a *Dacrydium cupressium* beside one of the track which head east in the Maungakotukutuku Scenic Reserve. Observed 30th August 2011.

31 Ward, M.D. (2010) Personal Observation, *Nertera scapanoides* growing on the forest floor on rotting stump about half way up the southern side of the tramping track, noted whilst tramping in the weekend. Observed2010.

30 Ward, M.D. (2011) Personal Observation, during a 80 minute visit to the Ōtaki Forks area travelling over to the Waitewaewae Track Suspension bridge an area west of the bridge at river level contained a *Coprosma rugosa* I wasn't sure of its species until going for a walk with Olaf John and Chris Moore, which after using a hand lense and reference book concluded this specimens authenticity. Confirmed finding from earlier observation on 7th November 2011.

32 Ward, M.D. (2012) Personal Observation, *Prasophyllum colensoi* several specimens seen in fruit beside a manuka/shpagnum dominated wetland on the immediate western wetland from the opening out of the track on the Waitewaewae trail. Observed 18th Januray 2012.

33 Ward, M.D. (2012) Personal Observation, *Spiranthes novae-zelandiae* numerous specimens forming a large colony of about 100 plants, this is only the third group of plants known in the Greater wellington area. This species is regarded as Nationally Vulnerable and therefore makes this find a special one. Observed 5th March 2012.

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WELLINGTON ECOLOGICAL DISTRICT

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