

Wanganui Plant List 41

Vascular Plants of Ngamatea, Kutaroa and Otahupitara Swamps, Waiouru

List resulting from Department of Conservation survey of southern half of Ngamatea swamp, 15 September 1988; and parts of Kutaroa and Otahupitara Swamps (sometimes known collectively as "Irirangi Swamps"), 1 December 1988, 22 May 1989, 14-15 January 1992. (List excludes species seen only on adjoining high ground.) Last updated 24 December 1998

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* indicates adventive species; j = juvenile plants only

Grid references to NZMS 260, Sheet T 21

CHR numbers refer to voucher specimens lodged with DSIR Land Resources herbarium at Lincoln.

Location

- N - Ngamatea Swamp (records in brackets are from banks of Waiouru Stream, not main swamp) (Grid 410870)
- K - Kutaroa Swamp : mostly north of Waiaruhe Road (swamp centered on grid 380815 Reserve)
- O - Otahupitara Swamp, south of Maukuku Road Road (swamp centered on grid 390800 Reserve)

Abundance indicated as follows -

- a - abundant and occurring over extensive areas
- c - common and widespread
- o - occasional (but may be confined to one extensive vegetation type)
- u - uncommon (very few plants seen)
- l - local (common in small areas)

Trees, Shrubs and Lianes

Location

	<u>N</u>	<u>K</u>	<u>O</u>
Aristolelia fruticosa var. microphylla (mountain wineberry)		u	
A. serrata (wineberry, makomako)		uj	
Carmichaelia cunninghamii var. [C. flagellifera]		u	u
Carpodetus serratus (putaputaweta)		uj	u
Clematis quadibracteolata CHR 462497 (N)	u	u	l
Coprosma acerosa var. [C. brunnea]		l	
C. cheesemanii CHR 462488 (N)	u	o	u
C. propinqua		u	u
C. rhamnoides ssp. rhamnoides		u	uj
C. rigida CHR 464197 (K)		u	
	<u>N</u>	<u>K</u>	<u>O</u>

C. robusta (karamu)		u	u
C. rugosa CHR 462488 (N)	u	l	l
C. tenuifolia		u	u
C. propinqua x C. robusta		?	l
C. propinqua x C. tenuifolia		?	u
C. robusta x C. tenuifolia			u
C. sp [unnamed, included in C. parviflora by Allan (1961): "C. taylorae"]	u	l	l
Cordyline australis (cabbage tree)	u	u	u
Cyathodes empetrifolia	u	o	u
* Cytisus scoparius (European broom)	u	l	u
Dracophyllum subulatum (monoao)	o	o	o
Gaultheria antipoda (snowberry)		u	
G. macrostigma		l	u
G. sp. [unnamed; G. depressa var. novae-zelandiae]		u	u
Griselinia littoralis (broadleaf, puka)		uj	
Hebe stricta var. stricta (koromiko)	o	u	u
Hoheria populnea var. [H. sexstylosa] (houhere, lacebark)		u	
Lepidothamnus laxifolius (pigmy pine) CHR (K)		u	
Leptospermum scoparium (manuka)	c	o	o
Leucopogon fraseri s.s.		o	o
Libocedrus bidwillii (kaikawaka) CHR (K)		u	
Melicytus lanceolatus (narrow-leaved mahoe)			uj
Muehlenbeckia australis (pohuehue)		u	
Myrsine divaricata s.s. (weeping mapou)		u	u
Olearia virgata var. [small-leaved form of volcanic plateau] (shrub daisy)	c	o	o
Ozothamnus vauvilliersii (golden cassinia)	o	o	u
*Pinus contorta	o	o	c
Pittosporum tenuifolium (kohuhu)		u	u
Podocarpus hallii (mountain totara)		uj	uj
Pseudopanax arboreus (five-finger)			u
P. crassifolius (lancewood)		u	u
Pseudowintera colorata (horopito)		u	u
*Rosa rubiginosa (sweet brier)			u
Rubus schmidelioides var. schmidelioides (bush lawyer) CHR 462500 (N)	u	u	u
*Salix cinerea (grey pussy willow)	u	u	
*S. fragilis (crack willow)		u	

Ferns and Fern Allies

Blechnum fluviatile agg.		u	
B. minusauct. NZ (swamp kiokio)	c	o	o
B. novae-zelandiae (kiokio)		u	
B. penna-marina	o	o	o
Dicksonia fibrosa (wheki-ponga)		u	
	<u>N</u>	<u>K</u>	<u>O</u>

D. squarrosa (wheki)		u	
Gleichenia dicarpa (umbrella fern)	a	a	c
Histiopteris incisa		u	u
Lycopodium australianum CHR 464135 (K), 462493 (N)	o	u	
L. fastigiatum		u	u
L. laterale		l	
Paesia scaberula (ring fern)		u	
Phymatosorus diversifolius (hound's tongue)			u
Polystichum vestitum (prickly shield fern)	u	u	l
Pteridium esculentum (bracken)		u	u

Grasses

*Agrostis capillaris (browntop)	u		
*Alopecurus geniculatus (kneed foxtail)			l
*Anthoxanthum odoratum (sween vernal)	u	c	c
Chionochloa rubra (red tussock)	c	a	c
Cortaderia fulvida (toetoe)	o	u	l
*Cynosurus dactylon (crested dog's tail)	u		
*Dactylis glomerata (cocksfoot)		o	u
Elymus solandri (blue wheat grass)		u	
*Festuca nigrescens (chewings fescue)		o	u
F. novae-zelandiae (hard tussock)		l	l
*Glyceria declinata (floating sweetgrass)	u	u	l
Hierochloe redolens (holy grass)	o	o	o
*Holcus lanatus (Yorkshire fog)	o	c	c
Lachnagrostis sp. elata			
CHR 464198 (K)		u	
*Lolium perenne (perennial ryegrass)		o	
Poa anceps ssp. anceps	u	o	u
*P. trivialis		o	o
Rytidosperma gracile (danthonia)	u	o	o
Trisetum lasiorhachis CHR (K,O)		u	u

Rushes

Centrolepis ciliata CHR 464128 (K)	o	o	
Empodisma minus (wire rush)	a	a	a
*Juncus articulatus (jointed-leaved rush)	c	o	o
*J. bufonius (toad rush)			l
*J. canadensis CHR 462485 (N)	o	o	o
*J. effusus	u	o	o
J. gregiflorus	o	o	
J. planifolius		u	u
J. pallidus		u	
J. pusillus	(o)		
	<u>N</u>	<u>K</u>	<u>O</u>

*J. tenuis var. tenuis		u	u
*J. tenuis var. anthelatus CHR 464193 (O)			u

*J. sp. CHR 464131 (K)		o	
Luzula migrata (woodrush)		u	u
L. subclavata (woodrush) CHR 464196 (K)		u	

Sedges

Baumea arthropphylla CHR 462492 (N), (K)	o	l	l
B. rubiginosa	c	a	a
B. tenax CHR 462491 (N)	o	c	o
B. teretifolia CHR 464194 (O)			o
Carex breviculmis	(u)		u
C. coriacea	o	c	c
*C. demissa		u	
C. dipsacea var. [C. tahoata] CHR 464137 (K)	(u)	u	l?
C. echinata var. [C. stellulata var. australis]	l	o	o
C. flagellifera [red-brown form of central North Island]		u	l
C. gaudichaudiana	(u)	u	
C. geminata s.s.		l	l
C. maorica	u	u	u
*C. ovalis	(u)	l	l
C. secta s.s.	c	o	l
C. sinclairii		o	l
Carpha alpina	o	o	o
Eleocharis acuta (sharp spike sedge)	u	o	o
E. gracilis (slender spike sedge)	c	o	c
E. sphacelata (bamboo spike sedge) CHR 464125 (K)		u	
Isolepis crassiuscula CHR 464132 (K)		l	
I. distigmata CHR (K)		l	
I. fluitans CHR 464127, 464133, 464134 (all K)	u	o	
I. inundata CHR 464192 (K)		u	
I. reticularis		u	
I. subtilissima CHR 464138 (K), 462494 (N)	u	u	u
Lepidosperma australe (four-square)	a	a	a
Oreobolus pectinatus (comb sedge)	l	o	c
Schoenus fluitans CHR 464129 (K), 462495 (N)	u	o	
S. maschalinus CHR 464136 (K)		o	
S. pauciflorus	a	a	a
Uncinia rubra	(u)	u	

Monocot herbs other than grasses, rushes and sedges

Astelia grandis		u	
Chiloglottis cornuta		u	
	<u>N</u>	<u>K</u>	<u>O</u>

Corybas rivularis agg. (spider orchid)	(u)?	l	l?
Herpolirion novae-zelandiae	u	o	u
Lemna sp. [L. minor auct NZ] (duckweed)	o	u	
Libertia peregrinans (sand iris) [reported by			

A P Druce]	(u)		
Microtis oligantha		o	o
M. unifolia		o	o
Phormium cookianum (wharariki, mountain flax)		u	
P. tenax (harakeke, NZ flax)	a	o	o
P. cookianum x P. tenax		u	
Potamogeton cheesemanii (pondweed) CHR 464124 (K)		o	o
P. suboblongus (pondweed) CHR 464126 (K)	l	o	c
Prasophyllum colensoi	u	o	o
P. sp (unamed; aff. P. patens) [sent live to CHR, Jan 1992]		l	u
Pterostylis "linearis" (ident. J B Irwin)		u	
P. sp. (possibly P. micromega)		u	
Spiranthes novae-zelandiae			u
Thelymitra cyanea (sun orchid)	o	o	l
T. decora (sun orchid)		u	
Triglochin striata		o	o
Typha muelleri (raupo)	l	u	
 <u>Dicot herbs</u>			
Acaena anserinifolia (bidibidi)	u	u	u
*A. novae-zelandiae (bidibidi)		u	u
*Achillea millefolium (yarrow)		u	
Aciphylla sp. [cf A. squarrosa] (speargrass)	u	u	u
Anaphalioides bellidioides	(o)		
A. trinervis?	(u)		
*Callitriche stagnalis (starwort)		o	l
*Cardamine pratensis (lady's smock) CHR 462498 (N)	l		
C. sp. [C. debilis agg. "Long Style" of Pritchard 1957] (bittercress)		l	u
C. sp [C. debilis agg. "Narrow Petal" of Pritchard 1957] (bittercress)	u?	u	u
Carduus tenuiflorus (wing thistle)			
Celmisia gracilentia (mountain daisy)	(u)	u	u
C. sp. [unnamed, cf. C. graminifolia, plants rhizomatous]	o	o	o
*Centaureum erythraea (centaury)		u	
Centella uniflora	(u)	c	o
*Cerastium glomeratum (mouse-eared chickweed)	o	u	o
*C. fontanum subsp. vulgare (mouse-eared chickweed)		u	
*Cirsium arvense (Californian thistle)		o	u
*C. vulgare (Scotch thistle)	u	u	u
Craspedia minor var. minor (woolly-head)	(u)	u	
C. sp. [unnamed bog sp.] (bog woolly-head)	o	c	c
	<u>N</u>	<u>K</u>	<u>Q</u>
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Dichondra sp. [D. brevifolia agg.]	u	o	u
Drosera binata (forked sundew)	u	o	o
D. pygmaea (pygmy sundew) CHR 464122 (K)		u	u
D. spathulata (sundew)	(u)	u	
*Duchesnea indica (Indian strawberry)		l	l
Epilobium alsinoides	(o)		u

E. chionanthum (willow herb)	u	u	
*E. ciliatum			u
E. insulare		u	l
E. pallidiflorum (willow herb)	l	l	l
E. tenuipes		u	u
Euphrasia cuneata (eye-bright)		o	
*Galium palustre ssp. palustre (marsh bedstraw)	o		
G. perpusillum	(o)	u	
G. propinquum		u	
G. trilobum CHR 464123 (K)		u	
Geranium microphyllum	u	u	u
Gnaphalium audax		u	u
G. limosum s.s.	u	u	o
G. sp. (cf. G. traversii)		o	u
G. sp.		u	
Gonocarpus aggregatus	u	o	a
G. micranthus ssp. micranthus	o	c	c
Gratiola sexdentata		u	
Gunnera prorepens	(o)	u	l
Helichrysum filicaule		o	o
*Hieracium pilosella		o	o
Hydrocotyle microphylla		o	o
H. novae-zeelandiae s.s.		u	u
H. pterocarpa CHR 464140 (K), 462490 (N)	u	u	
H. sulcata CHR 464139 (K)		o	l
Hypericum japonicum agg.	(u)	o	o
H. sp [unnamed; plants small, glaucous]	(u)		
*Hypochoeris radicata (cat's ear)	o	o	o
Lagenifera cuneata		u	o
L. pumila		u	l
*Leontodon taraxacoides (hawk's beard)	o	o	o
*Leucanthemum vulgare (oxeye daisy)		u	
*Linum catharticum (purging flax)	o	c	c
*Lotus pedunculatus (lotus)	c	u	o
Mazus radicans s.s.	(u)		
Mentha cunninghamii (native mint)		u	u
Microseris scapigera	(u)		
*Mimulus guttatus (monkey musk)			l
*M. moschatus (musk)		u	u
Montia fontana s.s.	u	u	
*Mycelis muralis (wall lettuce)		u	u
	<u>N</u>	<u>K</u>	<u>O</u>
<hr/>			
*Myosotis laxa ssp. caespitosa (water forgetmenot)	u	u	u
Myriophyllum pedunculatum		u	
M. propinquum (water milfoil)	(u)	o	
M. triphyllum		u	
*Nasturtium nasturtium-aquaticum (watercress)	o?	l?	l
Nertera ciliata CHR 462499 (N)	u	o	u
N. depressa		u	u
N. scapanioides CHR 464195 (K)		o	u

N. setulosa		u	l
N. villosa		u	
Oreostylidium subulatum		u	
Ourisia macrophylla subsp. robusta (mountain foxglove)		l	
Oxalis magellanica	(o)		
*Parentucellia viscosa (tarweed)		o	u
*Plantago lanceolata (narrow-leaved plantain)		u	u
*P. major (broad-leaved plantain)		u	u
P. raoulii var. [narrow-leaved form]		u	u
P. triandra		u	
Potentilla anserinoides		o	o
Pratia angulata agg.	(o)	o	o
*Prunella vulgaris (selfheal)	u	o	o
*Ranunculus acris (giant buttercup)		u	l
R. amphitrichus (waoriki)	o	o	u
*R. flammula (spearwort) CHR 464486 (N)	u	o	
R. glabrifolius (waoriki)	(u)	u	o
R. reflexus (bush buttercup)	u	u	u
*R. repens (creeping buttercup)	o	o	o
*R. trichophyllus (floating buttercup)		u	
*Rumex acetosella (sheep's sorrel)		u	
*R. crispus (curled dock)	u	u	
R. flexuosus	(u)		
Selliera microphylla (alpine halfstar) CHR 464130 (K), 462496 (N)	u	c	o
Senecio glomeratus (fireweed)		u	
*S. jacobaea (ragwort)		u	
S. minimus (fireweed)		u	u
Stackhousia minima	(u)	o	
Stellaria decipiens		u	u
*S sp. (marsh chickweed)	u	u	
*Taraxacum officinale (dandelion)	u	u	u
*Trifolium dubium (suckling clover)		o	
*T. pratense (red clover)		o	o
*T. repens (white clover)	o	o	
Utricularia novae-zelandiae (bladderwort)		c	o
Viola cunninghamii (NZ violet)	(u)	c	c
Wahlenbergia albomarginata (harebell)	(o)	u	
Totals: Native species	67 (+28)	178	110
Adventive species	28 (+1)	40	17
	—	—	—
	93 (+28)	153	77
	—	—	—

SOME VEGETATION TYPES OF KUTAROA & OTAHUPITARA SWAMPS

1. Red tussock/sweet vernal (*Carex coriacea*) - (Yorkshire fog) : burnt and oversown tussockland with occasional comb sedge cushions, on margins of Kutaroa and Otahupitara swamps.
2. (Red tussock)/wirerush - (monoao) - [foursquare] - [*Schoenus pauciflorus*]/wirerush - (holy grass) - [foursquare] - [*Cyathodes empetrifolia*] : rushland with scattered tussocks and low shrubs.
3. Baumea rubiginosa - [B. tenax]/[*Carpha*] - [*Carex echinata*] : sedgeland.
4. Baumea arthropphylla- [B. rubiginosa]/[wire rush] - [umbrella fern]: sedgeland, with scattered *Prasophyllum patens*, *Thelymitra cyanea*, bladderwort, bog woollyhead.
5. Umbrella fern/wirerush : fern-rushland.
6. (Monoao) - [golden cassinia]/(*Baumea rubiginosa*)/wirerush : rushland with scattered emergent shrubs and sedge (unburnt in recent years).
7. Golden cassinia - [manuka] (0.5-1-2m)/monoao/wirerush - umbrella fern - (*Carex coriacea*): scrub, with a few pigmy pine (unburnt area in central Kutaroa Swamp)
8. [*Cabbage tree*]/swamp flax/Carex secta - *Baumea rubiginosa* : flax - sedge tussockland with scattered cabbage trees; small patches beside main stream of Kutaroa swamp.
9. (*Potamogeton cheesemanii*) - [*Myriophyllum* spp.] - [*Ranunculus flammula*] - [*R. fluitans*] : "herbfield" in main stream of Kutaroa Swamp (floating and submerged aquatic plants).
10. Manuka (2 - 3 m)/Baumea rubiginosa/*Juncus articulatus* : scrub in south-west of Kutaroa Swamp.
11. (*Olearia virgata*) (to 1m) - [*Pinus contorta*]/*Baumea rubiginosa*/ (*Eleocharis gracilis*):shrubland on Otahupitara Swamp.
12. *Olearia virgata* (2-4m)/(*Coprosma "taylorae"*) - (*C. tenuifolia*) - [lancewood] - [horopito]/prickly shield fern - (*Blechnum penna-marina*) : scrub in head of western arm of Otahupitara Swamp.
13. *Olearia virgata* (2-3m) - (manuka) - [flax]/(*Carex geminata*(?)) - (*C. secta*)/lotus - Yorkshire fog - (giant buttercup): scrub in arm of Otahupitara Swamp.
14. Swamp flax/wire rush - umbrella fern : flax-rushland on swamp edges in several places.
15. Manuka - [lancewood] - [*kohuhu*]/(*Coprosma "taylorae"*), with *Parsonsia capsularis*, *Rubus schmidelioides*, *Coprosma rigida*, *C. propinqua*, *C. rhamnoides*, *Myrsine divaricata*, *Pseudopanax anomalus*, *Neomyrtus* : on higher ground adjoining type 8, above.

Note: Cover contributions of each species in each vegetation stratum are indicated by, e.g.:-

<u>red tussock</u>	>	50% cover
red tussock	=	20 - 49% cover
(red tussock)	=	10 - 19% cover
[red tussock]	<	10% cover

Different strata separated by slashes, e.g. [monoao]/red tussock indicates dense or moderately dense red tussocks with a thin scattering of taller monoao shrubs.