

# Indigenous vascular plants of four forest remnants on dunes in Manawatu (Lake Alice, Pakipaki) and Northland (Tapu, Pretty Bush)

## Wanganui Plant List 129 Colin Ogle, DoC Wanganui.

This list is extended from that in Ogle(1997), including the addition of Wanganui plant list 95 (L Alice dune forest).

*Last updated 30 Jan 2001*

- (a) Pakipaki, near Hokio, Levin, Horowhenua district  
(Druce 1972 [1991 revision]; Cooksley and Townsend 1992; Rapson et al. 1992; pers. obs. 1991, 1996); P Enright pers, comm. 1/01 ( his new records marked with ^)
- (b) Lake Alice near Bulls, Rangitikei district (Ogle, Beggs & Barkla 1996)
- (c) Pretty Bush, Pouto Peninsula, north head of Kaipara Harbour, Northland (Forester and Beechman 1987; Wright 1991; pers. obs. 1994)
- (d) Tapu Bush, Pouto Peninsula, Kaipara, Northland (Miller 1992; Reid 1977; Wright and Young 1991)
- X = recorded as present  
(X) = previously present (now extinct on site)  
O = not within recorded geographic range for this species

		Pakipaki	Lake Alice	Pretty	Tapu
<b>GYMNOSPERMS</b>					
<i>Dacrycarpus dacrydioides</i>	kahikatea	X	X		
<i>Podocarpus totara</i>	totara	X	X	X	X
<i>Prumnopitys ferruginea</i>	miro	X			
<i>Prumnopitys taxifolia</i>	matai	X			
<b>MONOCOT TREES</b>					
<i>Cordyline australis</i>	ti kouka, cabbage tree	X	X	X	X
<i>Rhopalostylis sapida</i>	nikau				X
<b>DICOT TREES AND SHRUBS</b>					
<i>Alectryon excelsus</i>	titoki	X	X	X	X
<i>Beilschmiedia tarairi</i>	taraire	O	O		X
<i>B. tawa</i>	tawa				X
<i>Brachyglottis repanda</i>	rangiora	(X)			X
<i>Carmichaelia australis</i>	NZ broom	X	X	X	X
<i>Carpodetus serratus</i>	putaputaweta				X
<i>Coprosma acerosa</i>	sand coprosma	X		X	X
<i>C. areolata</i>		X	X		X
<i>C. crassifolia</i>		X	X	X	X
<i>C. grandifolia</i>	kanono, raurekau			X	X
<i>C. lucida</i>	shining karamu			X	X
<i>C. macrocarpa</i>	coastal karamu	O	O	X	X
<i>C. propinqua</i>		X			
<i>C. parviflora</i> s.s.		O	O		X
<i>C. rhamnoides</i>		X	X	X	X
<i>C. rigida</i>		X		?	X
<i>C. robusta</i>	karamu			X	X
<i>C. spathulata</i>					X
<i>C. macrocarpa</i> x <i>C. robusta</i>				X	
<i>C. propinqua</i> x <i>C. robusta</i>		X^			
<i>Coriaria arborea</i>	tutu	X			
<i>Corokia cotoneaster</i>	korokio	X	X	X	X
<i>Corynocarpus laevigatus</i>	karaka		X	X	X
<i>Cyathodes (Leptecophylla) juniperina</i>	prickly mingimingi	X		X	X
<i>Discaria toumatou</i>	matagouri	(X)	X	O	O
<i>Dodonaea viscosa</i>	akeake	X	X	X	X
<i>Dysoxylum spectabile</i>	kohekohe			X	X

		Pakipaki	L Alice	Pretty	Tapu
<i>Elaeocarpus dentatus</i>	hinau	X <sup>4</sup>			X
<i>Gaultheria macrostigma</i>	snowberry	(X)		O	O
<i>Geniostoma rupestre</i> ssp. <i>ligustrifolium</i>	hangehange	X	X	X	X
<i>Hebe stricta</i> var. <i>stricta</i>	koromiko	(X)		X	X
<i>H. sp.</i> ( <i>H. diosmifolia</i> agg.)		O	O	X	X
<i>Hedycarya arborea</i>	pigeonwood	X			
<i>Ileostylus micranthus</i>	mistletoe	(X)	X		
<i>Knighitia excelsa</i>	rewarewa	X	X	X	X
<i>Korthalsella salicornioides</i>	dwarf mistletoe	(X)			
<i>Kunzea ericoides</i> s.l.	kanuka	X	X	X	X
<i>Laurelia novae-zelandiae</i>	pukatea			X	
<i>Leptospermum scoparium</i>	manuka	X		X	X
<i>Leucopogon fasciculatus</i>	mingimingi	X	X	X	X
<i>L. fraseri</i>	patotara	(X)			
<i>Litsea calicaris</i>	mangeao	O	O	X	
<i>Lophomyrtus bullata</i>	ramarama			X	
<i>L. obcordata</i>	rohutu	X	X	X	X
<i>Macropiper excelsum</i>	kawakawa	X	X	X	X
<i>Melicope ternata</i>	wharangi			X	
<i>Melicytus micranthus</i>				X	
<i>M. ramiflorus</i>	mahoe	X	X	X	X
<i>Metrosideros robusta</i>	northern rata				X
<i>Myoporum laetum</i>	ngaio	X	X		
<i>Myrsine australis</i>	mapou	X	X	X	X
<i>M. divaricata</i>	weeping mapou				X
<i>Nestegis lanceolata</i>	white maire	X <sup>5</sup>		X	X
<i>N. montana</i>	narrow-leaved maire	X		X	X
<i>Olearia albida</i>		O	O	X	X
<i>O. furfuracea</i>	akepiro	O	O	X	X
<i>O. paniculata</i>	akiraho	X			
<i>O. rani</i>	heketa				X
<i>O. solandri</i>			X		
<i>Ozothamnus (Cassinia) leptophyllus</i> (incl. <i>C. retorta</i> )	tauhinu	X		X	X
<i>Pennantia corymbosa</i>	kaikomako	X	X		
<i>Pimelea tomentosa</i>		(X)			
<i>Pittosporum tenuifolium</i> s.l.	kohuhu	X	X	X	X
<i>Pomaderris ericifolia</i>		(X)			X
<i>Pseudopanax arboreus</i>	five finger	(X)		X	X
<i>P. crassifolius</i>	lancewood	X	X	X	X
<i>P. ferox</i>	fierce lancewood			X	X
<i>P. lessonii</i>	houpara	O	O	X	
<i>P. crassifolius</i> x <i>P. lessonii</i>				X	
<i>P. ferox</i> x <i>P. lessonii</i>				X	
<i>Schefflera digitata</i>	pate			X	
<i>Solanum laciniatum</i>	poroporo		X		
<i>Sophora microphylla</i> agg.	kowhai	X	X	X	X
<i>Streblus heterophyllus</i>	small-leaved milk tree				X
<i>Vitex lucens</i>	puriri	O	O		X
<b>DICOT LIANES</b>					
<i>Clematis cunninghamii</i>		O	O		X
		<b>Pakipaki</b>	<b>Lake Alice</b>	<b>Pretty</b>	<b>Tapu</b>
<i>C. forsteri</i>	X	X			
<i>C. paniculata</i>	puawhangana	X			
<i>Metrosideros diffusa</i>	white rata vine, aka				X

<sup>4</sup> Druce (1972, 1991) recorded *Elaeocarpus dentatus*; Cooksley and Townsend (1992) recorded *E. hookerianus* in their species list (p. 65), but *E. dentatus* in their figure on p. 67, and have told me (pers.comm. 1996) that *E. hookerianus* was an error; Rapson et al. (1992) recorded *E. hookerianus* only; I have seen *E. dentatus* only. No observer has recorded both species unambiguously, so only *E. dentatus* is retained at present on the above list.

<sup>5</sup> The only *Nestegis* species recorded by Druce (1972, 1991) is *N. montana*, a species I also saw at Pakipaki in 1991, 1996, along with *N. lanceolata*. Cooksley and Townsend (1992) and Rapson et al. (1992) record *N. cunninghamii* (but not *N. montana*), and Rapson et al. also list *N. lanceolata*. *N. cunninghamii* may be an error for *N. lanceolata* and is not retained in the above list.

<i>M. perforata</i>	white rata vine, aka				X
<i>Muehlenbeckia australis</i>	pohuehue	X	X		
<i>M. complexa</i>	small-leaved pohuehue	X	X	X	X
<i>Parsonsia capsularis</i>	NZ jasmine	X	X	X <sup>6</sup>	X <sup>6</sup>
<i>P. heterophylla</i>	NZ jasmine	(X)			
<i>Passiflora tetrandra</i>	kohia, NZ passionflower		X		
<i>Rubus australis</i>	bush lawyer	(X)			
<i>R. cissoides</i>	bush lawyer	(X)			X
<i>R. schmidelioides</i>	bush lawyer	X	X		
<i>R. squarrosus</i>	leafless lawyer		X		
<i>R. schmidelioides</i> x <i>R. squarrosus</i>			X		
<i>Tetragonia trigyna</i>	NZ spinach	X			

#### MONOCOT LIANE

<i>Ripogonum scandens</i>	supplejack	X	X		
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#### FERN ALLY

<i>Huperzia (Lycopodium) varia</i>	clubmoss				X
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#### FERNS

<i>Adiantum aethiopicum</i>	maidenhair fern				X
<i>A. cunninghamii</i>	maidenhair fern	X <sup>^</sup>	X	?	X
<i>A. hispidulum</i>	rosy maidenhair			X	X
<i>Asplenium flabellifolium</i>		X	X		
<i>A. flaccidum</i>	hanging spleenwort	X	X	X	X
<i>A. gracillimum</i>		X	X	X	X
<i>A. hookerianum</i>		X	X		X
<i>A. oblongifolium</i>	shining spleenwort	X	X	X	X
<i>A. polyodon</i>	sickle spleenwort	X	X	X	X
<i>A. flaccidum</i> x <i>A. gracillimum</i>		X			
<i>Blechnum filiforme</i>	climbing blechnum				X
<i>Cyathea dealbata</i>	ponga				X
<i>C. medullaris</i>	mamaku	(X)	X	X	X
<i>Dicksonia squarrosa</i>	wheki	X	X		
<i>Doodia media</i>	pukapuka			X	X
<i>Grammitis ciliata</i>					X
<i>Hymenophyllum bivalve</i>		(X)			
<i>H. dilatatum</i>				X	X
<i>H. flexuosum</i>					X
<i>H. multifidum</i>		(X)			
<i>H. revolutum</i>					X
<i>H. sanguinolentum</i>		X		X	X
<i>H. scabrum</i>					X
<i>Hypolepis ambigua</i>		X	X		
<i>Microsorium pustulatum</i>	hound's tongue fern	X	X	X	X
<i>M. scandens</i>					X
<i>Paesia scaberula</i>	ring fern	X		X	
<i>Pellaea rotundifolia</i>	button fern	X	X	X	X
<i>Polystichum richardii</i>		X	X	X	X
<i>Pteridium esculentum</i>	bracken	X	X	X	X
<i>Pteris tremula</i>	shaking brake	X	X	X	X
<i>Pyrrosia eleagnifolia</i>	leather leaf fern	X	X	X	X
<i>Trichomanes reniforme</i>	kidney fern	(X)		X	X

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#### Pakipaki    Lake Alice    Pretty Tapu

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#### MONOCOT HERBS

<i>Acianthus sinclairii</i>		X		X	X
<i>Astelia solandri</i>	perching lily			?	X

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<sup>6</sup> Most references for the Northland forests do not identify the *Parsonsia* to species level, except that Reid (1977) listed *P. heterophylla* and not *P. capsularis*. Broad-leaved forms of *P. capsularis* are locally common in Northland, and only the latter is retained in the above list.

<i>A. trinervia</i>	kauri grass	O			X
<i>Bulbophyllum pygmaeum</i>					X
<i>Caladenia catenata</i> (?)		(X)			
<i>Carex dissita</i>		(X)			
<i>C. dipsacea</i>		(X)			
<i>C. virgata</i>		X			
<i>C. sp.</i> (cf <i>C. raoulii</i> , <i>C. testacea</i> ) <sup>7</sup>		X		X	X
<i>Chiloglottis cornuta</i>		X			
<i>Collospermum hastatum</i>	perching lily		X		X
<i>C. microspermum</i>	perching lily				X
<i>Cortaderia splendens</i>	toetoe	O	O	X	X
<i>Corybas cheesemanii</i>		(X)			
<i>C. trilobus</i> agg.	spider orchid	X	X	X	X
<i>Cyperus ustulatus</i>		X			
<i>Cyrtostylis oblonga</i>		X			
<i>Dianella nigra</i>	turutu			X	X
<i>Dichelachne crinita</i>	plume grass	X <sup>^</sup>			
<i>Drymoanthus adversus</i>		X	X		X
<i>Earina autumnalis</i>	autumn orchid		X	X	X
<i>E. mucronata</i>		X		X	X
<i>Echinopogon ovatus</i>	hedgehog grass	X	X		
<i>Gahnia setifolia</i>					X
<i>G. xanthocarpa</i>					X
<i>Gastrodia minor</i>		(X)			
<i>Isolepis nodosa</i>	club sedge	X		X	X
<i>I. reticularis</i> ?				X	
<i>Juncus pallidus</i>		X <sup>^</sup>			
<i>J. sarophorus</i>			X		
<i>Lepidosperma australe</i>	four square	(X)			
<i>L. laterale</i>		O	O		X
<i>Leptocarpus similis</i>	jointed wire-rush				X
<i>Luzula picta</i> s.s.	woodrush	X	X		
<i>Microlaena polynoda</i>	bamboo ricegrass			X	X
<i>M. stipoides</i>	meadow ricegrass	X	X	X	X
<i>Microtis unifolia</i>	onion-leaved orchid	X	X		
<i>Morelotia affinis</i>					X
<i>Oplismenus imbecillus</i>			X	X	X
<i>Phormium tenax</i>	harakeke, NZ flax		X	X	X
<i>Poa anceps</i> s.l.		X		X	X
<i>P. imbecilla</i>		X <sup>^</sup>			
<i>P. pusilla</i>					X
<i>Pterostylis alobula</i>	greenhood orchid	X		X	X
<i>P. banksii</i>	greenhood orchid	X <sup>^</sup>			
<i>P. montana</i> s.l.	greenhood orchid	(X)			
<i>Rytidosperma gracile</i>	danthonia				X
<i>Schoenus tendo</i>		O	O		X
<i>Uncinia banksii</i>	hook grass			?	X
<i>U. distans</i> hook grass			X <sup>8</sup>		
<i>U. uncinata</i>	hook grass	X		X	X
<i>U. zotovii</i>	hook grass				X
<i>Winika (Dendrobium) cunninghamii</i>	bamboo orchid				X

**Pakipaki    Lake Alice    Pretty Tapu**

**DICOT HERBS**

<i>Acaena anserinifolia</i>	bidibidi	X			
<i>Cardamine</i> sp. (unnamed; <i>C. debilis</i> agg.)					
<i>C.</i> "Narrow Petal" of Pritchard 1957)	bittercross	X	X		
<i>Cardamine</i> sp. (unnamed; <i>C. debilis</i> agg.)					
<i>C.</i> "Long Style" of Pritchard 1957)	bittercross	X <sup>^</sup>			
<i>Dichondra repens</i>	Mercury Bay weed	X	X		
<i>D. sp.</i> (unnamed; <i>D. brevifolia</i> agg.)			X		

<sup>7</sup> This unnamed *Carex* species has double-folded leaves (similar to those of *C. raoulii*) and, like *C. testacea*, has glabrous (not hispid) utricles, and the male spikes without fruits at their distal ends. The unnamed species seems to be largely coastal or semi-coastal in New Zealand. I lodged a CHR voucher from Pretty Bush.

<sup>8</sup> Most plant lists from Pretty Bush contain one *Uncinia* species in addition to *U. uncinata* (Wright 1991 recorded "*U. ?rubra/scabra*" and Forster and Beachman recorded *U. banksii*). In 1994 I saw only one fine-leaved species of *Uncinia* in Pretty Bush, *U. distans*.

<i>Drosera peltata</i> ssp. <i>auriculata</i>	sundew	(X)			
<i>Euchiton</i> ( <i>Gnaphalium</i> ) <i>gymnocephala</i>			X		
<i>Galium propinquum</i>		X			
<i>Gnaphalium gymnocephalum</i>	cudweed	X			
<i>Geranium microphyllum</i>		X?^	X		
<i>Gonocarpus incanus</i>					X
<i>Hydrocotyle heteromeria</i>	waxweed	X^	X		
<i>H. moschata</i>	hairy pennywort	X	X		
<i>Lagenifera pumila</i>		X			
<i>Oxalis exilis</i>	creeping oxalis	X			
<i>Parietaria debilis</i>		X			
<i>Pseudognaphalium</i> sp. ( <i>P. luteo-album</i> agg.)	cudweed				X
<i>Ranunculus reflexus</i>	bush buttercup	X	X		
<i>Senecio glomeratus</i>	fireweed		X		
<i>S. hispidulus</i>	fireweed	X	X		X
<i>S. minimus</i>	fireweed	X			X
<i>S. quadridentatus</i>		(X)			
<i>Solanum americanum</i>	small-flowered nightshade	X		X	X
<i>Stellaria decipiens</i>		(X)	X		X
<i>Urtica incisa</i>		(X)			
<i>Wahlenbergia violacea</i> <sup>9</sup>	harebell	X			

#### DOUBTFUL RECORDS

NAME USED	AUTHOR(S) <sup>10</sup>	PLACE	PROBABLE IDENTITY
<i>Agropyron scabrum</i>	C	Pakipaki	<i>Elymus rectisetus</i> (adventive; see Connor 1994, Duguid 1990)
<i>Asplenium bulbiferum</i>	Ra, Re	Pakipaki, Tapu	<i>A. gracillimum</i>
<i>Asplenium bulbiferum</i> x <i>A. flaccidum</i>	C	Pakipaki	<i>A. flaccidum</i> x <i>A. gracillimum</i>
<i>Astelia banksii</i>	Re	Tapu Bush	<i>A. solandri</i> ?
<i>Carex fluviatilis</i>	C	Pakipaki	?
<i>Carex littoralis</i>	C	Pakipaki	?
<i>Carex testacea</i>	Wr, Wy	Pretty, Tapu	<i>Carex</i> sp. unnamed (see plant list above)
<i>Cladium baumea</i>	C	Pakipaki	? etiolated <i>Isolepis nodosa</i>
<i>Coprosma lucida</i> x <i>C. macrocarpa</i>	F	Pretty	? <i>C. macrocarpa</i> x <i>C. robusta</i>
<i>Cortaderia fulvida</i>	M	Tapu Bush	<i>C. splendens</i> ?
<i>Elaeocarpus hookerianus</i>	C,Ra	Pakipaki	<i>E. dentatus</i>
<i>Hydrocotyle elongata</i>	C	Pakipaki	<i>H. moschata</i> ?
<i>Isachne globosa</i> ("small bush grass")	M	Tapu Bush	? <i>Oplismenus imbecillus</i>
<i>Mida salicifolia</i>	C	Pakipaki	<i>Nestegis</i> sp. or spp.
<i>Nestegis cunninghamii</i>	C,Ra	Pakipaki	<i>N. lanceolata</i>
<i>Parsonsia heterophylla</i>	Re	Tapu Bush	<i>P. capsularis</i> ? (see footnote, p.23)
<i>Pterostylis areolata</i> [reported seen 13.7.92]	Ra	Pakipaki	<i>P. alobula</i> ?
<i>Sophora tetraptera</i>	C	Pakipaki	<i>S. microphylla</i> agg.
<i>Stellaria gracilentia</i>	C	Pakipaki	<i>S. decipiens</i> ?
<i>Uncinia banksii</i>	F	Pretty	<i>U. distans</i> ?
<i>Uncinia "rubra/scabra"</i>	Wr	Pretty	<i>U. distans</i> ?
<i>Urtica linearifolia</i>	C	Pakipaki	Not in forest portion?
<i>Wahlenbergia gracilis</i>	C	Pakipaki	<i>W. violacea</i>

#### REFERENCES

Ogle, C C 1997. Sand movement and the protection of natural areas on Pouto Peninsula, Northland. Conservancy Advisory Science notes 145. DoC Wellington. 24p.

(Other references in footnotes etc. on this plant list 129 are given in full in Ogle 1997)

<sup>9</sup> Recorded by Enright et al. 2000, but probably what Cooksley & Townsend<sup>10</sup> recorded as *W. gracilis*.

<sup>10</sup> C = Cooksley and Townsend (1992); F = Forester and Beachman (1987, 1990); M = Miller (1992); Ra = Rapson et al. (1992); Re = Reid (1977); Wr = Wright (1991); Wy = Wright and Young (1991)