

## MOUTERE DOWNLANDS – HILL COUNTRY ECOSYSTEM NATIVE PLANT RESTORATION LIST

<b>Locality:</b>	Extensive hill country between the Waimea and Motueka Plains; extending from the coast at Kina, Moutere Bluffs and the western coast of Waimea Inlet, inland to Eves Valley and the western flanks of the Moutere catchment. Small outliers on eastern foothills between Wakefield and Richmond.
<b>Topography:</b>	Gently to strongly rolling downs and hill country. Steep coastal cliffs.
<b>Soils and Geology:</b>	Shallow, sandy, easily erodible loam with deep, heavy, leached clay subsoil and impeded drainage. Derived from underlying strongly weathered sedimentary gravels. Low fertility but good moisture-holding ability. Not drought-prone.
<b>Climate:</b>	High sunshine hours; mild annual temperatures; frosts slight to moderate; rainfall 890-1000mm.
<b>Coastal influence:</b>	Cliff faces and tops between Kina and Ruby Bay. Semi-coastal around Waimea and Moutere Inlets.
<b>Original Vegetation:</b>	Podocarp - mixed beech forest. Coastal shrublands. Swamp forest in gullies and hollows and on gentle toe-slopes.
<b>Human Modification:</b>	Almost no areas of native vegetation remain. Still a few modified wetlands in gullies. Much of the original top soil has been eroded off the slopes.

[Refer to the Ecosystem Restoration map showing the colour-coded area covered by this list.]

### KEY

PLANTING RATIO	PLANT PREFERENCES	TYPE OF FOOD PROVIDED FOR BIRDS AND LIZARDS
<p><b>Early Stage</b> plants are able to establish in open sites and can act as a nursery for later stage plants by providing initial cover.</p> <p><b>Later Stage</b> plants need cover to establish.</p> <p>2 = plant commonly 1 = plant less commonly 0 = not suitable to plant at this stage</p>	<p><b>Wet, Moist, Dry, Sun, Shade, Frost</b></p> <p>1 = prefers or tolerates ½ = prefers or tolerates some 0 = intolerant of</p> <p><b>Plant in habitat type:</b></p> <p>C = coast W = freshwater wetlands</p>	<p>F = Fruit/seeds</p> <p>N = Nectar</p> <p>B = Buds/foilage</p> <p>I = Insects</p>

PLANT SPECIES FOR MOUTERE DOWNLANDS – HILL COUNTRY ECOSYSTEM		EARLY STAGE PLANTING RATIO	LATER STAGE PLANTING RATIO	PLANT PREFERENCES								Maximum Height (metres)	Food Type
Botanical Names	Māori & Common Names			Wet	Moist	Dry	Sun	Shade	Frost	Coast Only	Wetlands Only		
<b>TREES</b>													
Alectryon excelsus	tītoki	0	2	0	1	1	0	1	0	C		15	FI
Aristotelia serrata	makomako, wineberry	1	2	½	1	0	0	1	½			10	FBI
Carpodetus serratus	putaputāwētā, marbleleaf	1	1	1	1	0	1	½	1			10	FBI
Coprosma grandifolia	raurekau	0	2	½	1	0	½	1	0			6	FB
Coprosma lucida	shining karamū	1	2	0	1	1	1	½	½			6	F
Coprosma repens	taupata	2	0	1	1	1	1	0	0	C		5	FI
Coprosma robusta	karamū	2	1	½	1	1	1	½	½			6	F
Cordyline australis	tī kouka, cabbage tree	2	0	1	1	1	1	0	1			12	FNI
Cordyline banksii	tī ngahere	0	1	1	1	1	1	½	½			4	FN
Coriaria arborea	tree tutu	2	0	½	1	1	1	0	½			6	F
Cyathea dealbata	ponga, silver fern	0	2	0	1	½	0	1	½			7	I

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<i>Cyathea medullaris</i>	mamaku, black treefern	0	1	½	1	0	0	1	0			10	I
<i>Dacrycarpus dacrydioides</i>	kāhikatea	1	2	1	1	0	½	½	1			60	FI
<i>Dacrydium cupressinum</i>	rīmu	0	2	1	1	½	½	½	1			35	FI
<i>Dicksonia squarrosa</i>	whekī	0	2	½	1	0	0	1	1			6	I
<i>Dodonaea viscosa</i>	akeake	2	0	0	1	1	1	0	½			7	I
<i>Elaeocarpus dentatus</i>	hīnau	0	1	½	1	0	½	1	½			18	FNBI
<i>Fuchsia excorticata</i>	kōtukutuku, tree fuchsia	0	2	½	1	0	½	1	½			10	FNBI
<i>Griselinia littoralis</i>	papauma, broadleaf	1	2	0	1	1	1	1	1			12	FBI
<i>Griselinia lucida</i>	puka	1	2	0	1	1	1	½	0			8	FBI
<i>Hedycarya arborea</i>	porokaiwhiri, pigeonwood	0	2	0	1	1	1	½	½			8	FBI
<i>Kunzea ericoides</i>	kānuka	2	0	0	½	1	1	0	1			15	NI
<i>Laurelia novae-zelandiae</i>	pukatea	0	1	1	½	0	0	1	0	C	W	35	BI
<i>Leptospermum scoparium</i>	mānuka	1	0	1	1	1	1	0	1			8	NI
<i>Macropiper excelsum</i>	kawakawa, pepperwood	0	2	½	1	1	1	1	0	C		6	FI
<i>Melicytus ramiflorus</i>	māhoe, whiteywood	0	2	½	1	1	½	1	½			10	FBI
<i>Myoporum laetum</i>	ngaio	2	1	0	1	1	1	0	0	C		10	FN
<i>Myrsine australis</i>	māpou	2	1	0	1	1	1	½	1			8	FI
<i>Nothofagus menziesii</i>	silver beech	1	1	1	1	1	½	½	1			30	F
<i>Nothofagus solandri</i> var. <i>solandri</i>	black beech	1	2	0	1	1	1	½	1			25	FNI
<i>Nothofagus truncata</i>	hard beech	1	2	0	½	1	1	½	½			30	FNI
<i>Olearia paniculata</i>	akiraho	2	0	0	½	1	1	0	½	C		6	I
<i>Olearia rani</i>	heketara	0	2	0	1	1	½	½	½			7	I
<i>Pittosporum eugenioides</i>	tarata, lemonwood	2	1	½	1	1	1	½	1			12	FI
<i>Pittosporum tenuifolium</i>	kōhūhū	2	1	0	1	1	1	½	1			9	FBI
<i>Podocarpus hallii</i>	mountain tōtara, thin-barked tōtara	1	2	0	1	1	1	½	1			20	FBI
<i>Prumnopitys ferruginea</i>	miro	0	1	½	1	0	½	½	1			25	FI
<i>Pseudopanax arboreus</i>	orihou, five finger	1	2	0	1	½	½	½	½			8	FNBI
<i>Pseudopanax crassifolius</i>	horoeka, lancewood	2	2	½	1	1	1	1	1			10	FNI
<i>Rhopalostylis sapida</i>	nīkau	0	1	½	1	0	0	1	0			10	FNI
<i>Schefflera digitata</i>	patē, seven-finger	0	1	½	1	0	½	1	½			8	FBI
<i>Weinmannia racemosa</i>	kāmahi	1	2	½	1	½	½	½	1			10	NI
<b>SHRUBS</b>													
<i>Coprosma microcarpa</i>	beech coprosma	0	2	0	1	½	0	1	1			2	F
<i>Coprosma rhamnoides</i>	bucks-horn coprosma	1	2	0	½	1	1	½	1			2	F
<i>Coprosma tayloriae</i>	tier coprosma	2	1	1	1	1	1	½	1			2	F
<i>Coprosma tenuicaulis</i>	swamp coprosma	2	1	1	1	0	1	½	1		W	3	F
<i>Dracophyllum filifolium</i>	inaka	1	1	0	½	1	½	½	½			2	NI
<i>Hebe stricta</i> var. <i>atkinsonii</i>	koromiko	2	0	½	1	½	1	½	½	C		2	NBI
<i>Helichrysum lanceolatum</i>	niniao	1	1	0	½	1	1	½	½			1	I
<i>Leptecophylla juniperina</i>	prickly mingimingi	1	2	0	½	1	1	½	1			3	F
<i>Leucopogon fasciculatus</i>	mingimingi	0	2	0	½	1	½	½	1			4	F
<i>Olearia avicenniifolia</i>	grey tree daisy	1	0	0	½	1	1	0	1	C		4	I
<i>Ozothamnus leptophyllus</i>	tauhinu, cottonwood	2	0	0	½	1	1	0	1			2	I
<i>Clematis paniculata</i>	puawānanga, bush clematis	0	1	0	1	0	½	½	½			7	
<i>Freycinetia banksii</i>	kiekie	0	1	½	1	½	0	1	½			10	FNI
<i>Metrosideros diffusa</i>	rātā vine	0	1	½	1	0	½	1	½			10	N

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Botanical Names	Māori & Common Names			Wet	Moist	Dry	Sun	Shade	Frost	Coast Only	Wetlands Only		
<i>Metrosideros fulgens</i>	scarlet rātā vine	0	2	0	1	½	½	1	½			15	NI
<i>Metrosideros perforata</i>	lowland rātā vine	0	2	0	1	½	½	1	½			15	N
<i>Muehlenbeckia complexa</i>	scrambling pōhuehue	2	0	0	½	1	1	0	1	C		2	FBI
<i>Rhipogonum scandens</i>	kareao, supplejack	0	2	1	1	0	½	1	½			15	F
<i>Rubus cissoides</i>	bush lawyer	0	1	½	1	½	½	1	½			10	F
<b>GRASSES, SEDGES, RUSHES &amp; GROUND COVERS</b>													
<i>Acaena anserinifolia</i>	piripiri, bidibid	1	1	½	1	1	1	½	1			0.2	
<i>Asplenium gracillimum</i>	graceful spleenwort	0	2	0	1	½	0	1	½			0.7	B
<i>Asplenium oblongifolium</i>	shining spleenwort	0	1	0	1	1	½	1	0	C		0.5	
<i>Astelia fragrans</i>	ground lily	0	2	0	1	0	½	1	½			1.5	F
<i>Blechnum discolor</i>	piupiu crown fern	0	2	0	1	½	½	1	½			0.5	I
<i>Blechnum minus</i>	swamp kiokio	2	2	1	1	0	1	½	1		W	0.5	
<i>Blechnum novae-zelandiae</i>	kiokio	2	0	1	1	1	½	1	1			2	I
<i>Blechnum procerum</i>	beech hardfern	0	2	0	1	1	0	1	1			0.5	
<i>Carex comans</i>	maurea	2	0	0	1	1	1	0	1			0.3	
<i>Carex flagellifera</i>	bootlace sedge	2	0	½	1	½	1	0	½	C		0.5	
<i>Carex forsteri</i>	forest sedge	1	0	0	1	1	½	½	½	C		0.5	
<i>Carex geminata</i>	toetoe rautahi	2	0	1	1	0	1	½	1		W	1.5	I
<i>Carex "geminata wide leaf"</i>	swamp rautahi	2	0	1	½	0	1	½	½	C	W	1.5	I
<i>Carex lessoniana</i>	rautahi	2	0	1	½	0	1	½	½		W	1	I
<i>Carex maorica</i>	Māori sedge	2	0	1	½	0	1	0	1		W	1	
<i>Carex raoulii</i>	coast sedge	1	0	0	1	1	1	½	½	C		0.5	
<i>Carex virgata</i>	pukio	2	1	1	½	0	1	½	1		W	1.5	I
<i>Cortaderia richardii</i>	South Island toetoe	2	0	1	1	1	1	0	1	C	W	3	I
<i>Cyperus ustulatus</i>	upoko tangata	2	0	½	1	½	1	0	½	C		1	F
<i>Dianella nigra</i>	tūrutu, blueberry	0	2	0	1	1	1	½	½			0.3	F
<i>Gahnia pauciflora</i>	small cutty sedge	1	1	0	1	1	1	½	½			1.5	F
<i>Gahnia setifolia</i>	cutty sedge	2	1	0	1	1	1	½	½			2	F
<i>Gahnia xanthocarpa</i>	giant cutty sedge	2	1	1	1	0	1	1	1		W	2	F
<i>Ficinia nodosa (= Isolepis nodosa)</i>	knot sedge	1	0	0	½	1	1	0	½	C		1	
<i>Juncus pallidus</i>	tall swamp rush	2	0	1	1	0	1	0	½		W	2	
<i>Juncus sarophorus</i>	blue wiwi	2	0	½	1	0	1	0	1		W	1	
<i>Microsorium pustulatum</i>	hounds tongue	1	1	0	1	1	½	1	½			0.2	B
<i>Paesia scaberula</i>	mātātā, scented fern	2	0	0	1	1	1	0	1			0.3	
<i>Phormium cookianum</i>	wharariki, coastal flax	2	0	0	1	1	1	0	1	C		1.5	N
<i>Phormium tenax</i>	harakeke, swamp flax	2	0	1	1	½	1	0	1		W	2	N
<i>Poa aff. cita</i>	coastal silver tussock	2	0	0	1	1	1	0	½	C		0.5	I
<i>Poa anceps</i>	carpet poa	0	1	0	1	1	½	½	½	C		0.2	I
<i>Typha orientalis</i>	raupō	2	0	1	½	0	1	0	1		W	3	
<i>Uncinia banksii</i>	tufted hookgrass	0	1	0	½	1	½	½	½			0.3	
<i>Uncinia uncinata</i>	hookgrass	1	2	½	1	½	½	1	1			0.5	