

## MOTUPIPI – TAKAKA TERRACES & PLAINS ECOSYSTEM NATIVE PLANT RESTORATION LIST

<b>Locality:</b>	Flats east of the Takaka and Motupipi River floodplains, extending from Pohara inland up the Takaka valley to Uruwhenua and backed in the east by limestone and marble hill country. Outliers west of Takaka River include terraces of Go-Ahead Creek and those north of One-Spec Creek.
<b>Topography:</b>	Plains and terraces, in the north reaching 40m above sea level and gently dipping to the north-west, and inland rising up to 80m above sea level. Low-lying towards Motupipi Inlet and coast.
<b>Soils and Geology:</b>	Alluvial, sandy and silty loams of moderate fertility derived from a range of sedimentary rocks, marble, granites and schist. Overlying unweathered glacial outwash gravels. Mostly well-drained except along low-gradient, meandering water courses and behind strip of sandy coast at Motupipi-Clifton where there are swamp deposits. Not drought-prone.
<b>Climate:</b>	High sunshine hours; frosts mild to moderate; mild annual temperatures. Rainfall 1600mm on the coast to 2600mm inland.
<b>Coastal Influence:</b>	Between Motupipi Estuary and Pohara up to ½ km inland.
<b>Original Vegetation:</b>	Mixed podocarp-broadleaf forest, especially tōtara, mataī, tītoki and northern rātā on the drier sites and kāhikatea and pukatea on the less well-drained sites. Wetlands in low-lying areas.
<b>Human Modification:</b>	No original vegetation remaining. A few small and isolated secondary forest and treeland remnants persist as well as numerous scattered individual trees, particularly tōtara.

[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, Saline</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 = coastal W = freshwater wetland = river banks (riparian)</p>	<p>F = Fruit/seeds N = Nectar B = Buds/foilage I = Insects</p>

PLANT SPECIES FOR MOTUPIPI-TAKAKA TERRACES & PLAINS ECOSYSTEM		PLANTING RATIO - EARLY STAGE	PLANTING RATIO - LATER STAGE	PLANT PREFERENCES									Maximum Height (metres)	Food Type
Botanical Names	Māori & Common Names			Wet	Moist	Dry	Sun	Shade	Frost	Saline	Coast Only	Freshwater Wetland Only		
<b>TREES</b>														
Alectryon excelsus	tītoki	0	2	0	1	1	0	1	0	0			15	FI
Aristotelia serrata	makomako, wineberry	1	2	½	1	0	0	1	½	0			10	FBI
Beilschmiedia tawa	tawa	0	1	0	1	0	0	1	0	0			20	FI
Carpodetus serratus	putaputāwētā, marbleleaf	1	1	1	1	0	1	½	1	0			10	FBI
Coprosma areolata	thin-leaved coprosma	1	2	0	1	½	½	½	½	0			5	FBI
Coprosma crassifolia	thick-leaved coprosma	1	0	0	½	1	1	½	1	0		R	5	FB
Coprosma grandifolia	raurekau	0	2	½	1	0	½	1	½	0			6	FB

PLANT SPECIES FOR MOTUPIPI-TAKAKA TERRACES & PLAINS ECOSYSTEM		PLANTING RATIO - EARLY STAGE	PLANTING RATIO - LATER STAGE	PLANT PREFERENCES									Maximum Height (metres)	Food Type	
Botanical Names	Māori & Common Names			Wet	Moist	Dry	Sun	Shade	Frost	Saline	Coast Only	Freshwater Wetland Only			Riparian Mostly
Coprosma repens	taupata	1	0	1	1	1	1	0	0	½	C			5	FI
Coprosma robusta	karamū	2	1	½	1	1	1	½	½	0				6	F
Cordyline australis	tī kouka, cabbage tree	2	0	1	1	1	1	0	1	0				12	FNI
Coriaria arborea	tree tutu	2	0	½	1	1	1	0	½	0				6	F
Cyathea dealbata	ponga, silver fern	0	2	0	1	½	0	1	½	0				10	I
Cyathea medullaris	mamaku, black treefern	0	2	½	1	0	0	1	0	0				16	I
Dacrycarpus dacrydioides	kāhikatea	1	2	1	1	0	½	½	1	0				60	FI
Dacrydium cupressinum	rimu	0	1	1	1	½	½	½	1	0				35	FI
Dicksonia fibrosa	whekī ponga	0	2	½	1	0	½	1	1	0				7	I
Dicksonia squarrosa	whekī	0	2	½	1	0	0	1	1	0				7	I
Dodonaea viscosa	akeake	2	0	0	1	1	1	0	½	0				7	I
Elaeocarpus dentatus	hīnau	0	1	½	1	0	½	1	½	0				18	FNBI
Fuchsia excorticata	kōtukutuku, tree fuchsia	0	1	½	1	0	½	1	½	0				10	FNBI
Griselinia littoralis	papauma, broadleaf	1	1	0	1	1	1	1	1	0				12	FBI
Griselinia lucida	puka	1	2	0	1	1	1	½	0	0				8	FBI
Hedycarya arborea	porokaiwhiri, pigeonwood	0	2	0	1	1	1	½	½	0				8	FBI
Hoheria angustifolia	narrow-leaved lacebark	2	1	½	1	1	1	0	1	0		R		10	FI
Hoheria ovata	limestone lacebark	2	1	½	1	1	1	½	1	0				10	FI
Kunzea ericoides	kānuka	2	0	0	½	1	1	0	1	0				15	NI
Laurelia novae-zelandiae	pukatea	0	2	1	½	0	0	1	½	0				35	BI
Leptospermum scoparium	mānuka	1	0	1	1	1	1	0	1	½				8	NI
Lophomyrtus obcordata	rōhutu	2	1	½	1	1	1	1	½	0				8	FI
Macropiper excelsum	kawakawa, pepperwood	0	2	½	1	1	1	1	0	0				6	FI
Melicope simplex	poataniwha	1	2	0	1	1	1	1	½	0				5	
Melicytus ramiflorus	māhoe, whiteywood	0	2	½	1	1	½	1	½	0				10	FBI
Metrosideros robusta	northern rātā	1	2	½	1	½	½	0	½	0				30	N
Myoporum laetum	ngaio	2	0	0	1	1	1	0	0	½	C			10	FN
Myrsine australis	māpou	2	1	0	1	1	1	½	1	0				8	FI
Pennantia corymbosa	kaikōmako	2	2	1	1	1	1	1	1	0				12	FNBI
Pittosporum eugenioides	tarata, lemonwood	2	1	½	1	1	1	½	1	0				12	FI
Pittosporum tenuifolium	kōhūhū	2	1	0	1	1	1	½	1	0				9	FBI
Plagianthus regius	manatū, lowland ribbonwood	2	1	½	1	1	1	0	1	0		R		15	FBI
Podocarpus totara	tōtara	2	2	0	1	1	1	½	1	0				30	FBI
Prumnopitys taxifolia	mataī	1	2	0	1	1	1	½	1	0				25	FI
Pseudopanax arboreus	orihou, five finger	1	1	0	1	½	½	½	½	0				8	FNBI
Pseudopanax crassifolius	horoeka, lancewood	2	2	½	1	1	1	1	1	0				10	FNI
Pseudopanax ferox	fierce lancewood	2	1	0	½	1	1	½	½	0		R		8	FNI
Raukawa edgerleyi	raukawa	0	1	½	1	0	½	1	½	0				10	FI
Rhopalostylis sapida	nīkau	0	2	½	1	0	0	1	0	0				10	FNI
Schefflera digitata	patē, seven-finger	0	1	½	1	0	½	1	½	0				8	FBI
Solanum aviculare	poroporo	1	0	0	1	½	½	½	½	0				3	F
Sophora microphylla	kōwhai	2	1	0	½	1	1	½	1	0		R		10	NBI
Prumnopitys ferruginea	miro	0	1	½	1	0	½	½	1	0				25	FI
Streblus heterophyllus	milkwood	1	1	0	1	1	½	½	½	0				10	FB
<b>SHRUBS</b>															
Carmichaelia australis var. "flagelliformis"	whip broom	2	1	½	1	1	1	½	1	0		R		2	NB

PLANT SPECIES FOR MOTUPIPI-TAKAKA TERRACES & PLAINS ECOSYSTEM		PLANTING RATIO - EARLY STAGE	PLANTING RATIO - LATER STAGE	PLANT PREFERENCES									Maximum Height (metres)	Food Type
Botanical Names	Māori & Common Names			Wet	Moist	Dry	Sun	Shade	Frost	Saline	Coast Only	Freshwater Wetland Only		
<i>Coprosma propinqua</i> ssp. <i>propinqua</i>	mikimiki	2	1	1	1	1	1	0	1	0			5	F
<i>Coprosma rigida</i>	streamside coprosma	1	0	½	1	½	1	½	1	0		R	3	F
<i>Coprosma tenuicaulis</i>	swamp coprosma	2	1	1	1	0	1	½	1	0		W	3	F
<i>Hebe stricta</i> var. <i>atkinsonii</i>	koromiko	2	0	½	1	½	1	½	½	0			2	NBI
<i>Ozothamnus leptophyllus</i>	tauhinu, cottonwood	2	0	0	½	1	1	0	1	0,5			2	I
<i>Teucrium parvifolium</i>	native germander	1	2	0	1	1	½	½	½	0		R	1	
<b>CLIMBERS</b>														
<i>Brachyglottis sciadophila</i>	climbing groundsel	0	1	0	1	½	½	½	½	0			2	
<i>Clematis foetida</i>	dainty clematis	0	1	0	1	1	½	½	½	0			5	
<i>Freycinetia banksii</i>	kiekie	0	2	½	1	½	0	1	½	0			10	FNI
<i>Metrosideros colensoi</i>	limestone rātā vine	0	1	0	1	1	0	1	½	0			8	N
<i>Metrosideros perforata</i>	lowland rātā vine	0	2	0	1	½	½	1	½	0			15	N
<i>Parsonsia capsularis</i>	native jasmine	0	1	0	1	1	½	½	1	0			5	I
<i>Passiflora tetrandra</i>	kōhia, native passionvine	0	1	0	1	0	½	½	0	0			15	FN
<i>Rhipogonum scandens</i>	kareao, supplejack	0	2	1	1	0	½	1	½	0			15	F
<b>GRASSES, SEDGES &amp; GROUND COVERS</b>														
<i>Rubus schmidelioides</i>	shrub lawyer	0	1	0	1	1	1	½	1	0			5	F
<i>Acaena anserinifolia</i>	piripiri, bidibid	1	1	½	1	1	1	½	1	0			0.2	
<i>Anemanthele lessoniana</i>	gossamer grass	2	1	0	1	1	½	½	½	0			1	
<i>Arthropteris tenella</i>	jointed fern	0	1	0	1	½	0	1	0	0	C		5	
<i>Asplenium bulbiferum</i>	mauku, hen and chicken fern	0	2	½	1	0	0	1	½	0			0.5	B
<i>Asplenium oblongifolium</i>	shining spleenwort	0	1	0	1	1	½	1	0	0			0.5	
<i>Astelia fragrans</i>	ground lily	0	2	0	1	0	½	1	½	0			1.5	F
<i>Blechnum filiforme</i>	climbing hardfern	0	2	0	1	1	0	1	0	0	C		5	
<i>Blechnum minus</i>	swamp kiokio	2	2	1	1	0	1	½	1	0		W	0.5	
<i>Blechnum novae-zelandiae</i>	kiokio	2	1	1	1	1	½	1	1	0			2	I
<i>Bolboschoenus caldwellii</i>	pūrua grass	2	0	1	½	0	1	0	½	½	C	W	1	I
<i>Carex forsteri</i>	forest sedge	1	1	0	1	1	½	½	½	0	C		1	
<i>Carex geminata</i>	toetoe rautahi	2	0	1	1	0	1	½	1	0		W	1.5	I
<i>Carex "geminata wide leaf"</i>	swamp rautahi	2	0	1	½	0	1	½	½	0	C	W	1.5	I
<i>Carex lambertiana</i>	coastal forest sedge	1	1	1	1	0	1	½	½	0	C		1	
<i>Carex lessoniana</i>	peat rautahi	2	0	1	½	0	1	½	½	0	C	W	1	I
<i>Carex maorica</i>	Māori sedge	1	0	1	½	0	1	0	1	0		W	1	
<i>Carex secta</i>	pūrei	2	1	1	½	0	1	½	1	0		W	2	I
<i>Carex solandri</i>	droop sedge	1	1	0	1	½	½	½	1	0			1	
<i>Carex testacea</i>	bootstrap sedge	1	0	0	1	1	1	½	1	0	C		0.6	
<i>Carex virgata</i>	pukio	2	1	1	½	0	1	½	1	0		W	1.5	I
<i>Cortaderia richardii</i>	South Island toetoe	2	0	1	1	1	1	0	1	0			2	I
<i>Diplazium australe</i>	herringbone fern	1	2	0	1	0	½	½	½	0			0.5	
<i>Hierochloa redolens</i>	karetū, holy grass	2	0	1	½	0	1	½	1	0		W	0.5	
<i>Hypolepis ambigua</i>	hypolepis	1	0	½	1	0	1	½	1	0			1	
<i>Juncus australis</i>	wiwi	2	0	½	1	0	1	0	1	0			1	
<i>Juncus pallidus</i>	tall swamp rush	2	0	1	1	0	1	0	½	0		W	2	
<i>Juncus sarophorus</i>	blue wiwi	2	0	½	1	0	1	0	1	0			1	
<i>Lastreopsis microsora</i> ssp. <i>pentangularis</i>	creeping five-angle fern	0	1	0	1	½	0	1	0	0	C		0.3	

PLANT SPECIES FOR MOTUPIPI-TAKAKA TERRACES & PLAINS ECOSYSTEM		PLANTING RATIO - EARLY STAGE	PLANTING RATIO - LATER STAGE	PLANT PREFERENCES										Maximum Height (metres)	Food Type
Botanical Names	Māori & Common Names			Wet	Moist	Dry	Sun	Shade	Frost	Saline	Coast Only	Freshwater Wetland Only	Riparian Mostly		
<i>Libertia ixioides</i>	native iris	1	1	0	1	½	½	½	½	0				0.3	
<i>Libertia mooreae</i>	native iris	1	1	0	1	½	½	½	½	0				0.3	
<i>Microlaena avenacea</i>	bush ricegrass	1	2	½	1	½	½	1	1	0				0.5	
<i>Microlaena polynoda</i>	bamboo grass	0	1	0	1	1	½	½	½	0				2	
<i>Microlaena stipoides</i>	meadow ricegrass	0	1	0	1	1	½	½	½	0				0.2	
<i>Microsorium pustulatum</i>	hounds tongue fern	1	1	0	1	1	½	1	½	0				0.2	B
<i>Pellaea aff. falcata</i>	large button fern	0	1	½	1	½	0	1	½	0				0.3	
<i>Phormium tenax</i>	harakeke, swamp flax	2	0	1	1	½	1	0	1	0		W		2	N
<i>Pneumatopteris pennigera</i>	pākau, gully fern	0	2	0	1	0	0	1	½	0				1	I
<i>Polystichum neozelandicum</i> ssp. <i>zerophyllum</i> (=P. <i>richardii</i> )	lowland shield fern	0	2	0	1	½	0	1	½	0				0.5	
<i>Polystichum vestitum</i>	prickly shield fern	0	1	½	1	0	½	1	1	0				1	I
<i>Ranunculus macropus</i>	waoriki	0	1	1	½	0	½	½	½	0	C	W		0.5	
<i>Schoenoplectus tabernaemontani</i>	kāpungawhā, lake clubrush	2	0	1	½	0	1	0	½	½	C	W		2	I
<i>Scutellaria novae-zelandiae</i>	shovel mint	0	2	0	1	1	0	½	½	0				0.1	
<i>Typha orientalis</i>	raupō	2	0	1	½	0	1	0	1	½		W		3	
<i>Uncinia laxiflora</i>	tussock hookgrass	0	2	0	1	½	½	½	½	0				0.7	
<i>Uncinia uncinata</i>	hookgrass	1	2	½	1	½	½	1	1	0				0.5	