

WEST TAKAKA VALLEYS TERRACES & DOWNS ECOSYSTEM NATIVE PLANT RESTORATION LIST

Locality:	Widely scattered high terraces and downs between the Waingaro and Waikoropupu Rivers, and in the Little Onahau and lower Onahau catchments to Rangihaeata and Onahau estuary.
Topography:	Flat to gently-sloping high terraces and gently-undulating downs up to 140m altitude, low-lying basins and broad, gently-sloping valleys, dissected by low-gradient, shallow to deeply incised water courses.
Soils and Geology:	Poorly drained, infertile, old alluvial sandy loams overlying course, weathered gravels derived from glacial outwash gravels of sedimentary rocks and granite. Leached with the development of an iron pan. Peaty valley floors and basins which typically have a high water table.
Climate:	Moderately high sunshine hours. Moderate annual temperature range, most extreme in sheltered basins with cold air drainage. Frosts moderate to moderately severe. Rainfall from 2000mm near the coast to 2400mm inland.
Coastal influence:	At Rangihaeata and Onahau River mouth.
Original Vegetation:	Mostly covered in mixed podocarp-broadleaf-beech forest, especially rimu, yellow pine, silver pine, mountain tōtara, silver beech, quintinia, kāmahī and black beech. Hard beech on dry parts of downs. Swamp forest on low-lying flats and basins with kāhikatea, and pukatea where not too cold. Small areas of pākihi wetlands and bogs.
Human Modification:	Almost no original vegetation remains. Indigenous vegetation mostly induced pākihi from repeated burnings. Exotic pines, gorse and fire-adapted weeds widespread. Hydrology altered in places by drainage works.

[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>Early Stage plants are able to establish in open sites and can act as a nursery for later stage plants by providing initial cover.</p> <p>Later Stage plants need cover to establish.</p> <p>2 = plant commonly 1 = plant less commonly 0 = not suitable to plant at this stage</p>	<p>Wet, Moist, Dry, Sun, Shade, Frost, Saline</p> <p>1 = prefers or tolerates ½ = prefers or tolerates some 0 = intolerant of</p> <p>Plant in habitat type:</p> <p>D = downs T = terraces & valley floors C = coastal only W = freshwater wetland P = pākihi</p>	<p>F = Fruit/seeds N = Nectar B = Buds/foilage I = Insects</p>

PLANT SPECIES FOR WEST TAKAKA VALLEYS TERRACES & DOWNS 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	Downs	Terraces and Valley Floors	Coast Only	Freshwater Wetland		
TREES																
Aristotelia serrata	makomako, wineberry	1	2	½	1	0	0	1	½	0	D	T			10	FBI
Ascarina lucida	hutu	1	2	½	1	0	1	1	1	0	D	T			6	F
Carpodetus serratus	putaputāwētā, marbleleaf	1	2	1	1	0	1	½	1	0	D	T			10	FBI
Coprosma grandifolia	raurekau	0	2	½	1	0	½	1	½	0	D	T			6	FB
Coprosma lucida	shining karamū	1	1	0	1	1	1	½	½	0	D				6	F

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Botanical Names	Māori & Common Names			Wet	Moist	Dry	Sun	Shade	Frost	Saline	Downs	Terraces and Valley Floors	Coast Only	Freshwater Wetland	Pākihi		
Coprosma repens	taupata	2	0	1	1	1	1	0	0	½	D		C			5	FI
Coprosma robusta	karamū	2	1	½	1	1	1	½	½	0	D	T				6	F
Cordyline banksii	tī ngahere	0	1	½	1	1	1	½	½	0	D					4	FN
Coriaria arborea	tree tutu	2	0	½	1	1	1	0	½	0	D					6	F
Cyathea dealbata	ponga, silver fern	0	2	0	1	½	0	1	½	0	D					10	I
Cyathea medullaris	mamaku, black treefern	0	2	½	1	0	0	1	0	0	D	T				16	I
Cyathea smithii	kātote, soft treefern	0	1	½	1	0	0	1	½	0	D					8	I
Dacrycarpus dacrydioides	kāhikatea	1	2	1	1	0	½	½	1	0	D	T				60	FI
Dacrydium cupressinum	rimu	1	2	1	1	½	½	½	1	0	D	T				35	FI
Dicksonia squarrosa	whēkī	0	2	½	1	0	0	1	1	0	D	T				7	I
Dracophyllum elegantissimum	elegant neinei	0	1	½	1	0	0	1	1	0	D	T				10	I
Dracophyllum urvilleanum	weeping tree inaka	0	1	0	½	1	½	½	1	0	D					5	NI
Elaeocarpus dentatus	hīnau	0	1	½	1	0	½	1	½	0	D					18	FNBI
Elaeocarpus hookerianus	pōkākā	2	2	1	1	0	½	½	1	0	D	T				12	FI
Fuchsia excorticata	kōtukutuku, tree fuchsia	1	2	½	1	0	½	1	½	0	D	T				10	FNBI
Griselinia littoralis	papauma, broadleaf	1	2	0	1	1	1	1	1	0	D	T				12	FBI
Griselinia lucida	puka	0	1	0	1	1	1	½	0	0	D		C			8	FBI
Hedycarya arborea	porokaiwhiri, pigeonwood	0	1	0	1	1	1	½	½	0	D					8	FBI
Kunzea ericoides	kānuka	2	0	0	½	1	1	0	1	0	D	T				15	NI
Laurelia novae-zelandiae	pukatea	0	2	1	½	0	0	1	½	0	D	T				35	BI
Lepidothamnus intermedius	yellow pine	1	2	1	1	0	½	½	1	0	D	T				15	F
Leptospermum scoparium	mānuka	2	0	1	1	1	1	0	1	½	D	T				8	NI
Libocedrus bidwillii	pāhautea, southen cedar	1	2	1	1	0	0	½	1	0	D	T				15	
Macropiper excelsum	kawakawa, pepperwood	0	1	½	1	1	1	1	0	0	D					6	FI
Manoao colensoi	silver pine, manoao	1	2	1	1	0	½	½	1	0	D	T				15	F
Melicytus ramiflorus	māhoe, whiteywood	0	2	½	1	1	½	1	½	0	D					10	FBI
Metrosideros robusta	northern rātā	2	1	½	1	½	½	0	½	0	D	T				30	N
Myoporum laetum	ngaio	1	0	0	1	1	1	0	0	½	D		C			10	FN
Myrsine australis	māpou	1	1	0	1	1	1	½	1	0	D	T				8	FI
Myrsine divaricata	weeping māpou	2	2	1	1	1	½	1	1	0	D	T				4	F
Myrsine salicina	toro	1	2	½	1	0	½	1	1	0	D	T				8	F
Neomyrtus pedunculata	rōhutu	1	2	1	1	0	½	1	1	0	D	T				6	F
Nothofagus menziesii	silver beech	1	1	1	1	1	½	½	1	0	D					30	F
Nothofagus solandri var. solandri	black beech	1	2	0	1	1	1	½	1	0	D	T				25	FNI
Nothofagus truncata	hard beech	1	2	0	½	1	1	½	½	0	D					30	FNI
Olearia rani	heketara	0	1	0	1	1	½	½	½	0	D					7	I
Phyllocladus "forest"	western toatoa	0	2	1	1	0	½	½	1	0	D	T				10	
Phyllocladus trichomanoides	tānekaha	1	1	0	1	1	1	½	½	0						20	I
Pittosporum eugenioides	tarata, lemonwood	1	0	½	1	1	1	½	1	0	D					12	FI
Pittosporum tenuifolium	kōhūhū	2	0	0	1	1	1	½	1	0	D	T				9	FBI
Podocarpus hallii	mountain tōtara, thin-barked tōtara	1	2	0	1	1	1	½	1	0	D	T				20	FBI
Pseudopanax arboreus	orihou, five finger	1	1	0	1	½	½	½	½	0	D					8	FNBI
Pseudopanax crassifolius	horoeaka, lancewood	2	2	½	1	1	1	1	1	0	D	T				10	FNI
Pseudowintera axillaris	lowland horopito	0	1	½	1	0	0	1	½	0	D					7	F
Pseudowintera colorata	horopito	1	1	1	1	0	½	1	1	0	D	T				6	F

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Botanical Names	Māori & Common Names			Wet	Moist	Dry	Sun	Shade	Frost	Saline	Downs	Terraces and Valley Floors	Coast Only	Freshwater Wetland	Pākihi		
Quintinia serrata	tāwheowheo, quintinia	0	2	½	1	0	½	1	1	0	D	T				12	N
Raukaua edgerleyi	raukawa	0	1	½	1	0	½	1	½	0	D					10	FI
Rhopalostylis sapida	nīkau	0	1	½	1	0	0	1	0	0	D					10	FNI
Schefflera digitata	patē, seven-finger	0	1	½	1	0	½	1	½	0	D					8	FBI
Prumnopitys ferruginea	miro	0	1	½	1	0	½	½	1	0	D	T				25	FI
Weinmannia racemosa	kāmahi	1	2	½	1	½	½	½	1	0	D	T				10	NI
SHRUBS																	
Alseuosmia macrophylla	toropapa	0	1	½	1	0	0	1	½	0	D					2	FNB
Coprosma foetidissima	hūpiro, stinkwood	1	2	1	1	0	½	1	1	0	D	T				3	FB
Coprosma rhamnoides	bucks-horn coprosma	1	1	0	½	1	1	½	1	0	D	T				2	F
Coprosma tayloriae	tier coprosma	2	1	1	1	1	1	½	1	0	D	T				2	F
Coprosma tenuicaulis	swamp coprosma	2	1	1	1	0	1	½	1	0	D	T		W	P	3	F
Dracophyllum filifolium	inaka	1	0	0	½	1	1	½	1	0	D	T				2	NI
Epacris pauciflora	tāmingi	1	1	1	1	0	1	½	1	0		T			P	1.5	I
Hebe leiophylla (= H. gracillima)	arching koromiko	1	0	½	1	½	½	½	1	0		R				2	
Hebe salicifolia	South Island koromiko	2	0	½	1	0	1	½	1	0	D	T				2	NBI
Leptecophylla juniperina	prickly mingimingi	1	1	0	½	1	1	½	1	0	D					3	F
Leucopogon fasciculatus	mingimingi	0	2	0	½	1	½	½	1	0	D	T				4	F
Ozothamnus leptophyllus	tauhinu, cottonwood	2	0	0	½	1	1	0	1	½	D		C			2	I
Pimelea longifolia	coastal daphne	0	1	0	½	1	½	½	½	0	D	T				2	FI
Pittosporum divaricatum	wiry kōhūhū	1	1	0	1	1	1	½	1	0	D					2	
Raukaua anomalus	stout netting bush	1	2	½	1	½	½	1	1	0	D	T				2	FN
CLIMBERS																	
Clematis paniculata	puawānanga, bush clematis	1	1	0	1	0	½	½	½	0	D	T				7	
Freycinetia banksii	kiekie	0	2	½	1	½	0	1	½	0	D	T				10	FNI
Metrosideros diffusa	rātā vine	0	2	½	1	0	½	1	½	0	D	T				10	N
Metrosideros fulgens	scarlet rātā vine	0	2	0	1	½	½	1	½	0	D	T				15	NI
Metrosideros perforata	lowland rātā vine	0	1	0	1	½	½	1	½	0	D					15	N
Rhipogonum scandens	kareao, supplejack	0	2	1	1	0	½	1	½	0	D	T				15	F
Rubus australis	swamp lawyer	0	1	1	1	0	1	½	1	0		T				5	F
Rubus cissoides	bush lawyer	0	1	½	1	½	½	1	½	0	D					10	F
GRASSES, SEDGES & GROUND COVERS																	
Apodasmia similis (=Leptocarpus)	oiioi, jointed rush	2	0	½	1	0	1	0	½	½		T	C			1.5	I
Astelia fragrans	ground lily	0	2	0	1	0	½	1	½	0	D	T				1.5	F
Astelia "nervosa broad"	giant ground lily	0	1	½	1	0	½	1	1	0	D	T				1.5	F
Astelia solandri	kōwharawhara	0	1	0	1	½	½	1	½	0	D					1	F
Astelia trinervia	kauri lily	0	2	½	1	0	½	1	½	0	D	T				2	F
Baumea rubiginosa	stout pākihi sedge	2	0	1	1	0	1	0	1	0		T		W	P	1.5	I
Baumea tenax	slender pākihi sedge	2	0	1	1	0	1	0	1	0		T		W	P	0.8	
Baumea teretifolia	pākihi sedge	2	0	1	1	0	1	0	1	0		T		W	P	1	I
Blechnum discolor	piupiu crown fern	0	1	0	1	½	½	1	½	0	D	T				0.5	I
Blechnum fraseri	zig-zag hardfern	0	2	½	1	0	½	1	½	0	D	T				1	
Blechnum minus	swamp kiokio	2	2	1	1	0	1	½	1	0		T		W		0.5	
Blechnum novae-zelandiae	kiokio	2	0	1	1	1	½	1	1	0	D	T				2	I

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Blechnum penna-marina	little hardfern	1	0	1	1	½	½	½	1	0		T				0.2	
Blechnum procerum	beech hardfern	0	2	0	1	1	0	1	1	0	D	T				0.5	
Bolboschoenus caldwellii	pūrua grass	2	0	1	½	0	1	0	½	½		T	C	W		1	I
Carex cockayneana	bush sedge	1	1	½	1	0	1	½	1	0	D					1	
Carex geminata	toetoe rautahi	2	0	1	1	0	1	½	1	0		T		W		1.5	I
Carex "geminata wide leaf"	swamp rautahi	2	0	1	½	0	1	½	½	0		T	C	W		1.5	I
Carex secta	pūrei	2	1	1	½	0	1	½	1	0		T		W		2	I
Carex sinclairii	sward sedge	2	0	1	½	0	1	0	1	0		T		W		0.5	
Carex virgata	pukio	2	1	1	½	0	1	½	1	0		T		W		1.5	I
Chionochloa conspicua	hunangāmoho, streambank snow-tussock	1	1	½	1	0	1	½	1	0		R				2	I
Cortaderia richardii	South Island toetoe	2	0	1	1	1	1	0	1	0		T		W		2	I
Dianella nigra	tūrutu, blueberry	0	1	0	1	1	1	½	½	0	D					0.3	F
Eleocharis acuta	spike rush	1	0	1	½	0	1	½	1	0		T		W		1	
Eleocharis sphacelata	kuta	2	0	1	0	0	1	0	1	0		T		W		2	I
Empodisma minor	wire rush	1	0	1	1	0	1	0	1	0		T			P	0.4	
Gahnia pauciflora	small cutty sedge	2	1	0	1	1	1	½	½	0	D					1.5	F
Gahnia rigida	pākihi cutty sedge	2	0	1	1	0	1	0	1	0		T			P	2	I
Gahnia setifolia	cutty sedge	2	1	0	1	1	1	½	½	0	D	T				2	F
Gahnia xanthocarpa	giant cutty sedge	2	1	1	1	0	1	1	1	0		T		W		2	F
Gleichenia dicarpa	tangle fern	2	0	1	½	0	1	½	1	0		T			P	0.5	I
Gleichenia microphylla	tangle fern	2	1	½	1	0	1	½	1	0		T			P	0.7	I
Isolepis polifer	multiplying sedge	1	0	1	½	0	1	0	1	0		T		W		0.2	
Juncus australis	wiwi	2	0	½	1	0	1	0	1	0		T				1	
Juncus edgariae	wiwi	2	0	½	1	0	1	0	1	0		T				1	
Juncus pallidus	tall swamp rush	2	0	1	1	0	1	0	½	0		T		W		2	
Juncus sarophorus	blue wiwi	2	0	½	1	0	1	0	1	0		T				1	
Lepidosperma australe	square stem	2	0	½	1	0	1	0	1	0		T			P	1	
Lepidosperma filiforme	gumland oioi	1	0	½	1	0	1	0	1	0		T			P	1.5	
Microlaena avenacea	bush ricegrass	1	2	½	1	½	½	1	1	0	D	T				0.5	
Paesia scaberula	mātātā, scented fern	2	0	0	1	1	1	0	1	0	D	T				0.3	
Phormium cookianum	wharariki, coastal flax	1	0	0	1	1	1	0	1	½	D	T				1.5	N
Phormium tenax	harakeke, swamp flax	2	0	1	1	½	1	0	1	0		T		F		2	N
Polystichum neozelandicum ssp. zerophyllum (=P. richardii)	lowland shield fern	0	2	0	1	½	0	1	½	0	D					0.5	
Polystichum vestitum	prickly shield fern	1	1	½	1	0	½	1	1	0	D					1	I
Ranunculus macropus	waoriki	0	1	1	½	0	½	½	½	0		T	C	F		0.5	
Schoenoplectus tabernaemontani	kāpungawhā, lake clubrush	2	0	1	½	0	1	0	½	½		T	C	F		2	I
Sticherus cunninghamii	umbrella sedge	1	0	1	1	0	1	½	1	0	D	T			P	1	
Typha orientalis	raupō	2	0	1	½	0	1	0	1	½		T		F		3	
Uncinia uncinata	hookgrass	1	2	½	1	½	½	1	1	0	D	T				0.5	