WEST TAKAKA VALLEYS TERRACES & DOWNS ECOSYSTEM NATIVE PLANT RESTORATION LIST

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	Widely scattered high terraces and downs between the Waingaro and Waikoropupu
Locality:	Rivers, and in the Little Onahau and lower Onahau catchments to Rangihaeata and
	Onahau estuary.
	Flat to gently-sloping high terraces and gently-undulating downs up to 140m altitude, low-
Topography:	lying basins and broad, gently-sloping valleys, dissected by low-gradient, shallow to deeply
	incised water courses.
	Poorly drained, infertile, old alluvial sandy loams overlying course, weathered gravels
Saile and Caalemy	derived from glacial outwash gravels of sedimentary rocks and granite. Leached with the
Soils and Geology:	development of an iron pan. Peaty valley floors and basins which typically have a high
	water table.
	Moderately high sunshine hours. Moderate annual temperature range, most extreme in
Climate:	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.
	Mostly covered in mixed podocarp-broadleaf-beech forest, especially rimu, yellow pine,
Original Vagatations	silver pine, mountain tōtara, silver beech, quintinia, kāmahi and black beech. Hard beech
Original Vegetation:	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.
	Almost no original vegetation remains. Indigenous vegetation mostly induced pākihi from
Human Modification:	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
Early Stage plants are able to establish in open sites and can act as a nursery for later stage plants by	Wet, Moist, Dry, Sun, Shade, Frost, Saline 1 = prefers or tolerates 1/2 = prefers or tolerates some	F = Fruit/seeds
providing initial cover. Later Stage plants need cover to	0 = intolerant of	N = Nectar
establish.	Plant in habitat type:	B = Buds/foliage
 2 = plant commonly 1 = plant less commonly 0 = not suitable to plant at this stage 	D = downs T = terraces & valley floors C = coastal only W = freshwater wetland P = pākihi	I = Insects

PLANT SPECIES FOR WEST TAKAKA VALLEYS TERRACES & DOWNS ECOSYSTEM				PLANT PREFERENCES													
Botanical Names	Māori & Common Names	PLANTING RATIO - EARLY STA	PLANTING RATIO - LATER ST	Wet	Moist	Dry	Sun	Shade	Frost	Saline	Downs	Terraces and Valley Floors	Coast Only	Freshwater Wetland	Pākihi	Maximum Height (metres)	Food Type
TREES																	
Aristotelia serrata	makomako, wineberry	1	2	1/2	1	0	0	1	1/2	0	D	Т				10	FBI
Ascarina lucida	hutu	1	2	1/2	1	0	1	1	1	0	D	Т				6	F
Carpodetus serratus	putaputāwētā, marbleleaf	1	2	1	1	0	1	1/2	1	0	D	Т				10	FBI
Coprosma grandifolia	raurekau	0	2	1/2	1	0	1/2	1	1/2	0	D	Т				6	FB
Coprosma lucida	shining karamū	1	1	0	1	1	1	1/2	1/2	0	D					6	F

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PLANT SPECIES FOR VALLEYS TERRACES & D		PLANT PREFERENCES															
Botanical Names	Māori & Common Names	PLANTING RATIO - EARLY STAGE	PLANTING RATIO - LATER ST	Wet	Moist	Dry	Sun	Shade	Frost	Saline	Downs	Terraces and Valley Floors	Coast Only	Freshwater Wetland	Pākihi	Maximum Height (metres)	Food Type
Coprosma repens	taupata	2	0	1	1	1	1	0	0	1/2	D		С			5	FI
Coprosma robusta	karamū	2	1	1/2	1	1	1	1/2	1/2	0	D	Т				6	F
Cordyline banksii	tī ngahere	0	1	1/2	1	1	1	1/2	1/2	0	D					4	FN
Coriaria arborea	tree tutu	2	0	1/2	1	1	1	0	1/2	0	D					6	F
Cyathea dealbata	ponga, silver fern	0	2	0	1	1/2	0	1	1/2	0	D					10	- 1
Cyathea medullaris	mamaku, black treefern	0	2	1/2	1	0	0	1	0	0	D	Т				16	- 1
Cyathea smithii	kātote, soft treefern	0	1	1/2	1	0	0	1	1/2	0	D					8	- 1
Dacrycarpus dacrydioides	kāhikatea	1	2	1	1	0	1/2	1/2	1	0	D	Т				60	FI
Dacrydium cupressinum	rimu	1	2	1	1	1/2	1/2	1/2	1	0	D	Т				35	FI
Dicksonia squarrosa	whekī	0	2	1/2	1	0	0	1	1	0	D	Т				7	- 1
Dracophyllum elegantissimum	elegant neinei	0	1	1/2	1	0	0	1	1	0	D	Т				10	ı
Dracophyllum urvilleanum	weeping tree inaka	0	1	0	1/2	1	1/2	1/2	1	0	D					5	NI
Elaeocarpus dentatus	hīnau	0	1	1/2	1	0	1/2	1	1/2	0	D					18	FNBI
Elaeocarpus hookerianus	pōkākā	2	2	1	1	0	1/2	1/2	1	0	D	Т				12	FI
Fuchsia excorticata	kōtukutuku, tree fuchsia	1	2	1/2	1	0	1/2	1	1/2	0	D	Т				10	FNBI
Griselinia littoralis	papauma, broadleaf	1	2	0	1	1	1	1	1	0	D	Т				12	FBI
Griselinia lucida	puka	0	1	0	1	1	1	1/2	0	0	D		С			8	FBI
Hedycarya arborea	porokaiwhiri, pigeonwood	0	1	0	1	1	1	1/2	1/2	0	D		_			8	FBI
Kunzea ericoides	kānuka	2	0	0	1/2	1	1	0	1	0	D	Т				15	NI
Laurelia novae-zelandiae	pukatea	0	2	1	1/2	0	0	1	1/2	0	D	Т				35	BI
Lepidothamnus intermedius	yellow pine	1	2	1	1	0	1/2	1/2	1	0	D	Т				15	F
Leptospermum scoparium	mānuka	2	0	1	1	1	1	0	1	1/2	D	T				8	NI
Libocedrus bidwillii	pāhautea, southen cedar	1	2	1	1	0	0	1/2	1	0	D	T				15	141
Macropiper excelsum	kawakawa, pepperwood	0	1	1/2	1	1	1	1	0	0	D					6	FI
Manoao colensoi	silver pine, manoao	1	2	1	1	0	1/2	1/2	1	0	D	Т				15	F
Melicytus ramiflorus	māhoe, whiteywood	0	2	1/2	1	1	1/2	1	1/2	0	D	'				10	FBI
Metrosideros robusta	northern rātā	2	1	1/2	1	1/2	1/2	0	1/2	0	D	Т				30	N
Myoporum laetum		1	0	0	1	1	1	0	0	1/2	D	'	С			10	FN
Myrsine australis	ngaio	1	1	0	1	1	1	1/2	1	0	D	Т	C			8	FI
Myrsine divaricata	māpou weeping māpou	2	2	1	1	1	1/2	1	1	0	D	T				4	F
Myrsine salicina	, , ,	1	2	1/2	1	0	1/2	1	1	0	D	T				8	F
Neomyrtus pedunculata	rōhutu	1	2	1	1	0	1/2	1	1	0	D	T				6	F
Nothofagus menziesii	silver beech	1	1	1	1	1	1/2	1/2	1	0	D	'				30	F
Nothofagus solandri var. solandri	black beech	1	2	0	1	1	1	1/2	1	0	D	Т				25	FNI
									1/			1					
Nothofagus truncata	hard beech	1	2	0	1/2	1	1 1/2	1/2	1/2	0	D D					30 7	FNI
Olearia rani Phyllogladus "forcet"	heketara	0	2	1	1	-	1/2	1/2	1/2	0	D	Т				10	1
Phyllocladus "forest"	western toatoa		1	0	1	0			1/		D						1
Phyllocladus trichomanoides Pittosporum eugenioides	tānekaha	1	0	1/2	1	1	1	1/2	½ 1	0	D					20 12	FI
Pittosporum eugenioides Pittosporum tenuifolium	tarata, lemonwood kōhūhū	2	0	0	1	1	1	1/2	1	0	D	Т				9	FBI
Podocarpus hallii	mountain tōtara, thin-	1	2	0	1	1	1	1/2	1	0	D	Т				20	FBI
Pseudopanax arboreus	barked tōtara orihou, five finger	1	1	0	1	1/2	1/2	1/2	1/2	0	D					8	FNBI
Pseudopanax crassifolius	horoeka, lancewood	2	2	1/2	1	1	1	1	1	0	D	Т				10	FNI
Pseudopanax crassilolius Pseudowintera axillaris	lowland horopito	0	1	1/2	1	0	0	1	1/2	0	D	'				7	FINI
Pseudowintera axiliaris Pseudowintera colorata	horopito	1	1	1	1	0	1/2	1	1	0	D	Т				6	F
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PLANT SPECIES FOR VALLEYS TERRACES & D		PLANT PREFERENCES															
Botanical Names	Māori & Common Names	PLANTING RATIO - EARLY STAGE	PLANTING RATIO - LATER ST	Wet	Moist	Dry	Sun	Shade	Frost	Saline	Downs	Terraces and Valley Floors	Coast Only	Freshwater Wetland	Pākihi	Maximum Height (metres)	Food Type
Quintinia serrata	tāwheowheo, quintinia	0	2	1/2	1	0	1/2	1	1	0	D	Т				12	N
Raukaua edgerleyi	raukawa	0	1	1/2	1	0	1/2	1	1/2	0	D					10	FI
Rhopalostylis sapida	nīkau	0	1	1/2	1	0	0	1	0	0	D					10	FNI
Schefflera digitata	patē, seven-finger	0	1	1/2	1	0	1/2	1	1/2	0	D					8	FBI
Prumnopitys ferruginea	miro	0	1	1/2	1	0	1/2	1/2	1	0	D	Т				25	FI
Weinmannia racemosa	kāmahi	1	2	1/2	1	1/2	1/2	1/2	1	0	D	T				10	NI
SHRUBS																	
Alseuosmia macrophylla	toropapa	0	1	1/2	1	0	0	1	1/2	0	D					2	FNB
Coprosma foetidissima	hūpiro, stinkwood	1	2	1	1	0	1/2	1	1	0	D	Т				3	FB
<u> </u>		1	1	0	1/		^{7/2}	1/		0		T					FB
Coprosma rhamnoides	bucks-horn coprosma			<u> </u>	1/2	1		1/2	1		D					2	F
Coprosma tayloriae	tier coprosma	2	1	1	1	1	1	1/2	1	0	D	T		144	Р	2	F
Coprosma tenuicaulis	swamp coprosma	2	1	1	1	0	1	1/2	1	0	D	T		W	Р	3	
Dracophyllum filifolium	inaka	1	0	0	1/2	1	1	1/2	1	0	D	Т				2	NI
Epacris pauciflora	tāmingi	1	1	1	1	0	1	1/2	1	0		Т			Р	1.5	I
Hebe leiophylla (= H. gracillima)	arching koromiko	1	0	1/2	1	1/2	1/2	1/2	1	0		R				2	
Hebe salicifolia	South Island koromiko	2	0	1/2	1	0	1	1/2	1	0	D	Т				2	NBI
Leptecophylla juniperina	prickly mingimingi	1	1	0	1/2	1	1	1/2	1	0	D					3	F
Leucopogon fasciculatus	mingimingi	0	2	0	1/2	1	1/2	1/2	1	0	D	Т				4	F
Ozothamnus leptophyllus	tauhinu, cottonwood	2	0	0	1/2	1	1	0	1	1/2	D		С			2	- 1
Pimelea longifolia	coastal daphne	0	1	0	1/2	1	1/2	1/2	1/2	0	D	Т				2	FI
Pittosporum divaricatum	wiry kōhūhū	1	1	0	1	1	1	1/2	1	0	D					2	
Raukaua anomalus	stout netting bush	1	2	1/2	1	1/2	1/2	1	1	0	D	Т				2	FN
CLIMBERS																	
Clematis paniculata	puawānanga, bush clematis	1	1	0	1	0	1/2	1/2	1/2	0	D	Т				7	
Freycinetia banksii	kiekie	0	2	1/2	1	1/2	0	1	1/2	0	D	Т				10	FNI
Metrosideros diffusa	rātā vine	0	2	1/2	1	0	1/2	1	1/2	0	D	Т				10	N
Metrosideros fulgens	scarlet rātā vine	0	2	0	1	1/2	1/2	1	1/2	0	D	T				15	NI
Metrosideros perforata	lowland rātā viņe	0	1	0	1	1/2	1/2	1	1/2	0	D					15	N
•			1		1			1				Т					F
Rhipogonum scandens Rubus australis	kareao, supplejack	0	2	1	1	0	1/2	1/	1/2	0	D	T				15 5	F
	swamp lawyer		1	1/	1		1/	1/2	1/		_	1					
Rubus cissoides GRASSES, SEDGES & GROUND COVERS	bush lawyer	0	1	1/2	1	1/2	1/2	1	1/2	0	D					10	F
Apodasmia similis (=Leptocarpus)	oioi, jointed rush	2	0	1/2	1	0	1	0	1/2	1/2		Т	С			1.5	- 1
Astelia fragrans	ground lily	0	2	0	1	0	1/2	1	1/2	0	D	Т				1.5	F
Astelia "nervosa broad"	giant ground lily	0	1	1/2	1	0	1/2	1	1	0	D	T				1.5	F
Astelia solandri	kōwharawhara	0	1	0	1	1/2	1/2	1	1/2	0	D					1.5	F
Astelia solandii Astelia trinervia	kauri lily	0	2	1/2	1	0	1/2	1	1/2	0	D	Т				2	F
	,	2	0	1	1	0	1	0		0	U	T		W	Р	1.5	
Baumea rubiginosa	stout pākihi sedge			-					1								
Baumea tenax	slender pākihi sedge	2	0	1	1	0	1	0	1	0		T		W	Р	0.8	
Baumea teretifolia	pākihi sedge	2	0	1	1	0	1	0	1	0		T -		W	Р	1	- 1
Blechnum discolor	piupiu crown fern	0	1	0	1	1/2	1/2	1	1/2	0	D	T				0.5	- 1
Blechnum fraseri	zig-zag hardfern	0	2	1/2	1	0	1/2	1	1/2	0	D	Т				1	
Blechnum minus	swamp kiokio	2	2	1	1	0	1	1/2	1	0		Т		W		0.5	
Blechnum novae-zelandiae	kiokio	2	0	1	1	1	1/2	1	1	0	D	Т				2	1

PLANT SPECIES FOR VALLEYS TERRACES & D	AGE	STAGE				PL	.ANT	PRE	FER	ENC	ES						
Botanical Names	Māori & Common Names	PLANTING RATIO - EARLY STAGE	PLANTING RATIO - LATER ST.	Wet	Moist	Dry	Sun	Shade	Frost	Saline	Downs	Terraces and Valley Floors	Coast Only	Freshwater Wetland	Pākihi	Maximum Height (metres)	Food Type
Blechnum penna-marina	little hardfern	1	0	1	1	1/2	1/2	1/2	1	0		Т				0.2	
Blechnum procerum	beech hardfern	0	2	0	1	1	0	1	1	0	D	Т				0.5	
Bolboschoenus caldwellii	pūrua grass	2	0	1	1/2	0	1	0	1/2	1/2		Т	С	W		1	- 1
Carex cockayneana	bush sedge	1	1	1/2	1	0	1	1/2	1	0	D					1	
Carex geminata	toetoe rautahi	2	0	1	1	0	1	1/2	1	0		Т		W		1.5	1
Carex "geminata wide leaf"	swamp rautahi	2	0	1	1/2	0	1	1/2	1/2	0		Т	С	W		1.5	- 1
Carex secta	pūrei	2	1	1	1/2	0	1	1/2	1	0		Т		W		2	ı
Carex sinclairii	sward sedge	2	0	1	1/2	0	1	0	1	0		Т		W		0.5	
Carex virgata	pukio	2	1	1	1/2	0	1	1/2	1	0		Т		W		1.5	- 1
Chionochloa conspicua	hunangāmoho, streambank snow-tussock	1	1	1/2	1	0	1	1/2	1	0		R				2	ı
Cortaderia richardii	South Island toetoe	2	0	1	1	1	1	0	1	0		Т		W		2	- 1
Dianella nigra	tūrutu, blueberry	0	1	0	1	1	1	1/2	1/2	0	D					0.3	F
Eleocharis acuta	spike rush	1	0	1	1/2	0	1	1/2	1	0		Т		W		1	
Eleocharis sphacelata	kuta	2	0	1	0	0	1	0	1	0		Т		W		2	- 1
Empodisma minor	wire rush	1	0	1	1	0	1	0	1	0		Т			Р	0.4	
Gahnia pauciflora	small cutty sedge	2	1	0	1	1	1	1/2	1/2	0	D					1.5	F
Gahnia rigida	pākihi cutty sedge	2	0	1	1	0	1	0	1	0		Т			Р	2	- 1
Gahnia setifolia	cutty sedge	2	1	0	1	1	1	1/2	1/2	0	D	Т				2	F
Gahnia xanthocarpa	giant cutty sedge	2	1	1	1	0	1	1	1	0		Т		W		2	F
Gleichenia dicarpa	tangle fern	2	0	1	1/2	0	1	1/2	1	0		Т			Р	0.5	- I
Gleichenia microphylla	tangle fern	2	1	1/2	1	0	1	1/2	1	0		Т			Р	0.7	- I
Isolepis polifer	multiplying sedge	1	0	1	1/2	0	1	0	1	0		Т		W		0.2	
Juncus australis	wiwi	2	0	1/2	1	0	1	0	1	0		Т				1	
Juncus edgariae	wiwi	2	0	1/2	1	0	1	0	1	0		Т				1	
Juncus pallidus	tall swamp rush	2	0	1	1	0	1	0	1/2	0		Т		W		2	
Juncus sarophorus	blue wiwi	2	0	1/2	1	0	1	0	1	0		Т				1	
Lepidosperma australe	square stem	2	0	1/2	1	0	1	0	1	0		Т			Р	1	
Lepidosperma filiforme	gumland oioi	1	0	1/2	1	0	1	0	1	0		Т			Р	1.5	
Microlaena avenacea	bush ricegrass	1	2	1/2	1	1/2	1/2	1	1	0	D	Т				0.5	
Paesia scaberula	mātātā, scented fern	2	0	0	1	1	1	0	1	0	D	Т				0.3	
Phormium cookianum	wharariki, coastal flax	1	0	0	1	1	1	0	1	1/2	D	Т				1.5	N
Phormium tenax	harakeke, swamp flax	2	0	1	1	1/2	1	0	1	0		Т		F		2	N
Polystichum neozelandicum ssp. zerophyllum (=P. richardii)	lowland shield fern	0	2	0	1	1/2	0	1	1/2	0	D					0.5	
Polystichum vestitum	prickly shield fern	1	1	1/2	1	0	1/2	1	1	0	D					1	- 1
Ranunculus macropus	waoriki	0	1	1	1/2	0	1/2	1/2	1/2	0		Т	С	F		0.5	
Schoenoplectus tabernaemontani	kāpungawhā, lake clubrush	2	0	1	1/2	0	1	0	1/2	1/2		Т	C	F		2	- 1
Sticherus cunninghamii	umbrella sedge	1	0	1	1	0	1	1/2	1	0	D	Т			Р	1	
Typha orientalis	raupō	2	0	1	1/2	0	1	0	1	1/2		Т		F		3	
Uncinia uncinata	hookgrass	1	2	1/2	1	1/2	1/2	1	1	0	D	Т				0.5	