

EASTERN TAKAKA HILLS & HIGH TERRACES ECOSYSTEM NATIVE PLANT RESTORATION LIST

Locality:	Hills, valleys and high terraces regularly scattered from Tarakohe southwards to East Takaka and extending westward to Motupipi Hill and Black Birch Hill north-west of Takaka township. Backed in the east by the steep marble and granite of slopes the Pikikiruna Range. Scattered outliers also on west side of Takaka River from Hamama to Upper Takaka.
Topography:	Discrete areas of low relief, rolling to moderately steep hill country up to 130m high near the coast and 200m high furthest inland at Upper Takaka. Hill slopes often capped with high terraces, especially at East Takaka. Terraces trending and gently dipping to the north-west. Hills drained by incised, low-volume, low to moderate-gradient streams.
Soils and Geology:	Hill country and terrace side-slopes comprising mudstones and calcareous siltstones, or quartz sandstones and conglomerates with thin coal seams. Underlying moderately to strongly leached sandy, silty and clayey loams of low to medium fertility. Soils often eroded. Usually adjoining areas of limestone. Terraces comprise soils of moderately strongly leached, low fertility sandy loams and loess overlying weathered, coarse outwash gravels especially of gabbro, marble. A thin iron pan has resulted in impeded drainage and soil gleying.
Climate:	High sunshine hours; frosts mild to moderate; mild annual temperatures and warm summers. Rainfall 1500mm at the coast to 2400mm inland. Droughts infrequent.
Coastal influence:	Mostly confined to Motupipi Hill, but also hills between Tarakohe and Clifton up to ½ km inland.
Original Vegetation:	Hill slopes dominated by rimu, hard beech, black beech, tītoki and northern rātā on drier ridges and slopes, with kāhikatea, pukatea, nikau and mixed broadleaved species in gullies. On infertile terraces, tall podocarp-beech-broadleaf forest; dominated by rimu, northern rātā and silver beech with mataī, tōtara and black beech on the drier sites, and on the wetter sites: kāhikatea, pukatea and northern rātā with pōkākā, miro, toro and kāmahī.
Human Modification:	All original native vegetation is gone with a few original individual trees still persisting. In several places, especially around East Takaka, Clifton and Motupipi Hill, hill country gullies and terrace side-slopes have retained a cover of secondary native vegetation dominated by mānuka, kānuka, mixed broadleaved species and mamaku. Almost no native vegetation remains on the high terraces. Significant residential subdivision around Pohara.

[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</p> <p>1 = prefers or tolerates ½ = prefers or tolerates some 0 = intolerant of</p> <p>Plant in habitat type:</p> <p>C = coastal</p>	<p>F = Fruit/seeds N = Nectar B = Buds/foilage I = Insects</p>

PLANT SPECIES FOR EASTERN TAKAKA HILLS & HIGH TERRACES ECOSYSTEM		EARLY STAGE PLANTING RATIO	LATER STAGE PLANTING RATIO	PLANT PREFERENCES							Maximum Height (metres)	Food Type
Botanical Names	Māori and Common Names			Wet	Moist	Dry	Sun	Shade	Frost	Coast Only		
TREES												
Alectryon excelsus	tītoki	0	1	0	1	1	0	1	0		15	FI
Aristotelia serrata	makomako, wineberry	1	2	½	1	0	0	1	½		10	FBI
Carpodetus serratus	putaputāwētā, marbleleaf	2	1	1	1	0	1	½	1		10	FBI
Coprosma grandifolia	raurekau	0	2	½	1	0	½	1	½		6	FB
Coprosma lucida	shining karamū	1	1	0	1	1	1	½	½		6	F
Coprosma repens	taupata	1	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	½	1	1	1	½	½		4	FN
Coriaria arborea	tree tutu	2	0	½	1	1	1	0	½		6	F
Cyathea cunninghamii	gully treefern	0	1	½	1	0	0	1	½		20	I
Cyathea dealbata	ponga, silver fern	0	2	0	1	½	0	1	½		10	I
Cyathea medullaris	mamaku, black treefern	0	2	½	1	0	0	1	0		16	I
Dacrycarpus dacrydioides	kāhikatea	1	2	1	1	0	½	½	1		60	FI
Dacrydium cupressinum	rimu	1	2	1	1	½	½	½	1		35	FI
Dicksonia squarrosa	whekī	0	2	½	1	0	0	1	1		7	I
Dodonaea viscosa	akeake	2	0	0	1	1	1	0	½		7	I
Elaeocarpus dentatus	hīnau	0	2	½	1	0	½	1	½		18	FNBI
Elaeocarpus hookerianus	pōkākā	1	1	1	1	0	½	½	1		12	FI
Fuchsia excorticata	kōtukutuku, tree fuchsia	0	1	½	1	0	½	1	½		10	FNBI
Griselinia littoralis	papauma, broadleaf	1	1	0	1	1	1	1	1		12	FBI
Griselinia lucida	puka	1	2	0	1	1	1	½	0		8	FBI
Hedycarya arborea	porokaiwhiri, pigeonwood	0	2	0	1	1	1	½	½		8	FBI
Kunzea ericoides	kānuka	2	0	0	½	1	1	0	1		15	NI
Laurelia novae-zelandiae	pukatea	0	2	1	½	0	0	1	½		35	BI
Leptospermum scoparium	mānuka	2	0	1	1	1	1	0	1		8	NI
Macropiper excelsum	kawakawa, pepperwood	0	2	½	1	1	1	1	0		6	FI
Melicytus ramiflorus	māhoe, whiteywood	0	2	½	1	1	½	1	½		10	FBI
Metrosideros robusta	northern rātā	1	2	½	1	½	½	0	½		30	N
Myoporum laetum	ngaio	2	0	0	1	1	1	0	0	C	10	FN
Myrsine australis	māpou	2	1	0	1	1	1	½	1		8	FI
Myrsine salicina	toro	1	1	½	1	0	½	1	1		8	F
Neomyrtus pedunculata	rōhutu	1	1	1	1	0	½	1	1		6	F
Nothofagus menziesii	silver beech	1	2	1	1	1	½	½	1		30	F
Nothofagus solandri var. solandri	black beech	1	2	0	1	1	1	½	1		25	FNI
Nothofagus truncata	hard beech	1	2	0	½	1	1	½	½		30	FNI
Olearia rani	heketara	0	1	0	1	1	½	½	½		7	I
Pittosporum eugenioides	tarata, lemonwood	2	1	½	1	1	1	½	1		12	FI
Pittosporum tenuifolium	kōhūhū	2	1	0	1	1	1	½	1		9	FBI
Podocarpus totara	tōtara	1	1	0	1	1	1	½	1		30	FBI
Prumnopitys ferruginea	miro	0	1	½	1	0	½	½	1		25	FI
Prumnopitys taxifolia	mataī	1	1	0	1	1	1	½	1		25	FI
Pseudopanax arboreus	orihou, five finger	2	1	0	1	½	½	½	½		8	FNBI
Pseudopanax crassifolius	horoeaka, lancewood	2	2	½	1	1	1	1	1		10	FNI

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Botanical Names	Māori and Common Names			Wet	Moist	Dry	Sun	Shade	Frost	Coast Only		
<i>Pseudowintera axillaris</i>	lowland horopito	0	1	½	1	0	0	1	½		7	F
<i>Rhopalostylis sapida</i>	nīkau	0	2	½	1	0	0	1	0		10	FNI
<i>Schefflera digitata</i>	patē, seven-finger	0	2	½	1	0	½	1	½		8	FBI
<i>Sophora microphylla</i>	kōwhai	1	0	0	½	1	1	½	1	C	10	NBI
<i>Weinmannia racemosa</i>	kāmahi	1	2	½	1	½	½	½	1		10	NI
SHRUBS												
<i>Coprosma rhamnoides</i>	bucks-horn coprosma	1	2	0	½	1	1	½	1		2	F
<i>Coprosma tayloriae</i>	tier coprosma	1	2	1	1	1	1	½	1		2	F
<i>Geniostoma ligustrifolium</i>	hangehange	0	1	0	1	½	½	1	0		3	NB
<i>Hebe stricta</i> var. <i>atkinsonii</i>	koromiko	2	0	½	1	½	1	½	½	C	2	NBI
<i>Helichrysum lanceolatum</i> var. "aggregatum"	niniao	1	1	0	½	1	1	½	½		1	I
<i>Leptecophylla juniperina</i>	prickly mingimingi	1	1	0	½	1	1	½	1		3	F
<i>Leucopogon fasciculatus</i>	mingimingi	0	2	0	½	1	½	½	1		4	F
<i>Ozothamnus leptophyllus</i>	tauhinu, cottonwood	2	0	0	½	1	1	0	1		2	I
<i>Pimelea longifolia</i>	coastal daphne	0	1	0	½	1	½	½	½	C	2	FI
<i>Raukaua anomalus</i>	stout netting bush	1	1	½	1	½	½	1	1		2	FN
CLIMBERS												
<i>Clematis paniculata</i>	puawānanga, bush clematis	0	1	0	1	0	½	½	½		7	
<i>Freycinetia banksii</i>	kieke	0	2	½	1	½	0	1	½		10	FNI
<i>Metrosideros diffusa</i>	rātā vine	0	1	½	1	0	½	1	½		10	N
<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>Parsonsia capsularis</i>	native jasmine	1	1	0	1	1	½	½	1		5	I
<i>Parsonsia heterophylla</i>	native jasmine	1	1	½	1	½	½	½	½		7	I
<i>Passiflora tetrandra</i>	kōhia, native passionvine	0	1	0	1	0	½	½	0	C	15	FN
<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
GRASSES, SEDGES, FERNS & GROUND COVERS												
<i>Asplenium gracillimum</i>	graceful spleenwort	0	2	0	1	½	0	1	½		0.7	B
<i>Asplenium oblongifolium</i>	shining spleenwort	0	2	0	1	1	½	1	0		0.5	
<i>Astelia fragrans</i>	ground lily	0	2	0	1	0	½	1	½		1.5	F
<i>Astelia solandri</i>	kōwharawhara	0	1	0	1	½	½	1	½		1	F
<i>Astelia trinervia</i>	kauri lily	0	1	½	1	0	½	1	½		2	F
<i>Blechnum filiforme</i>	climbing hardfern	0	2	0	1	1	0	1	0	C	5	
<i>Blechnum novae-zelandiae</i>	kiokio	2	0	1	1	1	½	1	1		2	I
<i>Carex comans</i>	maurea	1	0	0	1	1	1	0	1		0.3	
<i>Carex flagellifera</i>	whip sedge	2	0	½	1	½	1	0	½	C	0.5	
<i>Carex forsteri</i>	forest sedge	1	1	0	1	1	½	½	½	C	1	
<i>Carex lambertiana</i>	coastal forest sedge	1	1	1	1	0	1	½	½	C	1	
<i>Carex solandri</i>	droop sedge	1	1	0	1	½	½	½	1		1	
<i>Collospermum hastatum</i>	perching lily	0	1	0	1	1	½	½	½		0.7	F
<i>Cortaderia richardii</i>	South Island toetoe	2	0	1	1	1	1	0	1		2	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	1	0	1	1	1	½	½		0.3	F
<i>Doodia australis</i>	rasp fern		1	0	1	1	½	½	½	C	0.3	

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Botanical Names	Māori and Common Names			Wet	Moist	Dry	Sun	Shade	Frost	Coast Only		
<i>Ficinia nodosa</i> (=Isolepis nodosa)	knot sedge	2	0	0	½	1	1	0	½	C	1	
<i>Gahnia pauciflora</i>	small cutty sedge	1	1	0	1	1	1	½	½		1.5	F
<i>Gahnia setifolia</i>	cutty sedge	1	1	0	1	1	1	½	½		2	F
<i>Gahnia xanthocarpa</i>	giant cutty sedge	0	1	1	1	0	1	1	1		2	F
<i>Hypolepis ambigua</i>	hypolepis	2	0	½	1	0	1	½	1		1	
<i>Hypolepis dicksonioides</i>	giant hypolepis	1	0	½	1	0	1	0	0	C	2	
<i>Juncus australis</i>	wiwi	1	0	½	1	0	1	0	1		1	
<i>Juncus edgariae</i>	wiwi	1	0	½	1	0	1	0	1		1	
<i>Juncus sarophorus</i>	blue wiwi	2	0	½	1	0	1	0	1		1	
<i>Libertia mooreae</i>	native iris	0	1	0	1	½	½	½	½		0.3	
<i>Microlaena avenacea</i>	bush ricegrass	1	2	½	1	½	½	1	1		0.5	
<i>Microlaena stipoides</i>	meadow ricegrass	1	1	0	1	1	½	½	½		0.2	
<i>Microsorium pustulatum</i>	hounds tongue fern	1	1	0	1	1	½	1	½		0.2	B
<i>Microsorium scandens</i>	fragrant fern	0	1	0	1	½	½	1	½		0.5	
<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		1.5	N
<i>Phormium tenax</i>	harakeke, swamp flax	2	0	1	1	½	1	0	1		2	N
<i>Pneumatopteris pennigera</i>	pākau, gully fern	0	2	0	1	0	0	1	½		1	I
<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	1	½	½	C	0.2	I
<i>Polystichum neozelandicum</i> ssp. <i>zerophyllum</i> (=P. <i>richardii</i>)	lowland shield fern	0	2	0	1	½	0	1	½		0.5	
<i>Polystichum vestitum</i>	prickly shield fern	0	1	½	1	0	½	1	1		1	I
<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	