

COLLINGWOOD-ONEKAKA TERRACES & HILLS ECOSYSTEM NATIVE PLANT RESTORATION LIST

Locality:	Terraces, valleys and hill country between Patons Rock and Collingwood, draining the Otere River, Little Kaituna Stream, and the lower reaches of the Onekaka River and Tukurua Creek, and in the north, Burton Ale Creek. Backed by the Parapara Ridge mountain lands.
Topography:	A series of high, flat and undulating terraces and gently sloping fans between 10-100m; highest in the south and gently dipping to the north. Extensively down-cut and incised by numerous small watercourses with steep side-slopes, often with gentle basin headwaters. Terraces are also bisected by larger catchments with associated broad alluvial valley flats. Extensive high terraces and gently-sloping downlands north of Parapara River drained by slow-flowing meandering streams. Rolling to moderately steep, low-relief hill country inland of terraces up to 200 metres altitude.
Soils and Geology:	Hillsides and terrace side-slopes of mudstones and calcareous siltstones underlying moderately leached silty and sandy loams and loess of low to medium fertility. Terraces are strongly leached, low fertility sandy loams overlying weathered coarse gravels. An iron pan has resulted in impeded drainage and soil gleying on terraces and headwater basins. Lowest terraces near the coast at Milnethorpe with infertile gravels, sand and mud. On the alluvial flats, sandy, slightly leached loams of medium fertility, stony and shallow in places and overlying slightly weathered alluvial gravels with good drainage, although flood-prone.
Climate:	Moderately high sunshine hours; frosts moderate to moderately severe away from the coast; warm, sub-humid summers; rainfall 2000-2600mm. Droughts infrequent.
Coastal influence:	6km of coastline between Pariwhakaoho River mouth and Parapara Inlet, and a further 4km from Milnethorpe to Collingwood, up to ½ km inland.
Original Vegetation:	On infertile, poorly-drained terraces, various mixtures of tall podocarp-beech-broadleaf forest; dominated by rimu, cedar, mountain tōtara, western toatoa, northern rātā and silver beech with some silver and yellow pines, pōkākā, miro, quintinia, toro and kāmahī. Hill slopes dominated by rimu, hard beech, northern rātā and hīnau on ridges, with kāhikatea, pukatea and mixed broadleaved species in gullies. Fertile valley flats support most podocarps including mataī, tōtara and kāhikatea with riparian silver and black beeches
Human Modification:	Apart from scattered individual trees, all original native vegetation is gone. Most hill country and terrace side-slopes have retained a cover of secondary native vegetation dominated by mixed broadleaved species and mānuka - kānuka, including several coastal gullies. Almost no native vegetation remains on landforms with flat topography. On high terraces and associated headwater basins, small areas of pākihi vegetation still remain. Extensive areas of this vegetation type has been cleared in the last 50 years and hydrology altered to improve drainage.

[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 types:</p> <p>T = high terrace S = hillslope F = valley flats R = river banks (riparian) mainly W = freshwater wetlands P = pākihi C = coastal only</p>	<p>F = Fruit/seeds N = Nectar B = Buds/foilage I = Insects</p>

PLANT SPECIES FOR COLLINGWOOD-ONEKAKA TERRACES & HILLS 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	High Terraces	Hill Slopes	Valley Flats & River Banks	Freshwater Wetlands	Pākihi			Coast only
TREES																	
Alectryon excelsus	fitoki	0	1	0	1	1	0	1	0		S	F			C	15	FI
Aristotelia serrata	makomako, wineberry	1	2	½	1	0	0	1	½	T	S	F				10	FBI
Ascarina lucida	hutu	1	1	½	1	0	1	1	1		S					6	F
Carpodetus serratus	putaputāwētā, marbleleaf	2	1	1	1	0	1	½	1	T	S	F	W			10	FBI
Coprosma areolata	thin-leaved coprosma	0	1	0	1	½	½	½	½		S	F				5	FBI
Coprosma grandifolia	raurekau	0	2	½	1	0	½	1	½	T	S	F				6	FB
Coprosma linariifolia	yellow-wood	1	1	0	1	½	1	1	½				R			6	F
Coprosma lucida	shining karamū	1	1	0	1	1	1	½	½		S					6	F
Coprosma repens	taupata	2	0	1	1	1	1	0	0		S				C	5	FI

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Botanical Names	Māori and Common Names			Wet	Moist	Dry	Sun	Shade	Frost	High Terraces	Hill Slopes	Valley Flats & River Banks	Freshwater Wetlands	Pākihi	Coast only		
Coprosma robusta	karamū	2	1	½	1	1	1	½	½	T	S	F	W		6	F	
Coprosma rotundifolia	hairy coprosma	1	1	½	1	0	½	1	1			F	W		5	FB	
Cordyline australis	tī kouka, cabbage tree	2	0	1	1	1	1	0	1		S	F	W		12	FNI	
Cordyline banksii	tī ngahere	0	1	½	1	1	1	½	½		S				4	FN	
Coriaria arborea	tree tutu	2	0	½	1	1	1	0	½	T	S	F	W		6	F	
Cyathea cunninghamii	gully treefern	0	1	½	1	0	0	1	½		S			C	20	I	
Cyathea dealbata	ponga, silver fern	0	2	0	1	½	0	1	½	T	S	F			10	I	
Cyathea medullaris	mamaku, black treefern	0	2	½	1	0	0	1	0		S	F			16	I	
Cyathea smithii	kātote, soft treefern	0	1	½	1	0	0	1	½	T	S	F			8	I	
Dacrycarpus dacrydioides	kāhikatea	1	2	1	1	0	½	½	1	T		F	W		60	FI	
Dacrydium cupressinum	rimu	1	2	1	1	½	½	½	1	T	S	F			35	FI	
Dicksonia fibrosa	whēkī ponga	0	2	½	1	0	½	1	1			F	W		7	I	
Dicksonia squarrosa	whēkī	0	2	½	1	0	0	1	1	T	S	F	W		7	I	
Dodonaea viscosa	akeake	2	0	0	1	1	1	0	½		S				7	I	
Elaeocarpus dentatus	hīnau	0	1	½	1	0	½	1	½		S	F			18	FNBI	
Elaeocarpus hookerianus	pōkākā	2	2	1	1	0	½	½	1	T	S	F	W		12	FI	
Fuchsia excorticata	kōtukutuku, tree fuchsia	0	2	½	1	0	½	1	½		S	F			10	FNBI	
Griselinia littoralis	papauma, broadleaf	2	2	0	1	1	1	1	1	T	S	F			12	FBI	
Griselinia lucida	puka	1	1	0	1	1	1	½	0	T	S	F			8	FBI	
Hedycarya arborea	porokaiwhiri, pigeonwood	0	2	0	1	1	1	½	½	T	S	F			8	FBI	
Hoheria ovata	limestone lacebark	1	0	½	1	1	1	½	1			F			10	FI	
Kunzea ericoides	kānuka	2	0	0	½	1	1	0	1	T	S	F			15	NI	
Laurelia novae-zelandiae	pukatea	0	2	1	½	0	0	1	½	T		F	W		35	BI	
Lepidothamnus intermedius	yellow pine	1	1	1	1	0	½	½	1	T					15	F	
Leptospermum scoparium	mānuka	2	0	1	1	1	1	0	1	T	S	F	W	P	8	NI	
Libocedrus bidwillii	pāhautea, southern cedar	0	1	1	1	0	0	½	1	T					15		
Lophomyrtus obcordata	rōhutu	2	1	½	1	1	1	1	½			F			8	FI	
Macropiper excelsum	kawakawa, pepperwood	0	2	½	1	1	1	1	0		S				6	FI	

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Botanical Names	Māori and Common Names			Wet	Moist	Dry	Sun	Shade	Frost	High Terraces	Hill Slopes	Valley Flats & River Banks	Freshwater Wetlands	Pākihi	Coast only		
Manoao colensoi	silver pine, manao	0	1	1	1	0	½	½	1	T			W			15	F
Melicope simplex	poataniwha	1	2	0	1	1	1	1	½				F			5	
Melicytus lanceolatus	māhoe wao, narrow-leaved māhoe	1	1	½	1	0	½	½	1		S	F				6	F
Melicytus ramiflorus	māhoe, whiteywood	0	2	½	1	1	½	1	½	T	S	F				10	FBI
Metrosideros robusta	northern rātā	2	2	½	1	½	½	0	½	T	S	F				30	N
Myoporum laetum	ngaio	2	0	0	1	1	1	0	0		S					10	FN
Myrsine australis	māpou	2	1	0	1	1	1	½	1	T	S	F				8	FI
Myrsine divaricata	weeping māpou	1	1	1	1	1	½	1	1	T		F	W			4	F
Myrsine salicina	toro	1	2	½	1	0	½	1	1	T	S	F				8	F
Neomyrtus pedunculata	rōhutu	1	1	1	1	0	½	1	1	T		F	W			6	F
Nothofagus fusca	red beech	1	1	0	1	0	½	½	1			R				30	FNI
Nothofagus menziesii	silver beech	2	2	1	1	1	½	½	1	T	S	F	W			30	F
Nothofagus solandri var. solandri	black beech	2	2	0	1	1	1	½	1	T	S	F				25	FNI
Nothofagus truncata	hard beech	2	2	0	½	1	1	½	½		S					30	FNI
Olearia rani	heketara	0	1	0	1	1	½	½	½		S					7	I
Pennantia corymbosa	kaikōmako	2	2	1	1	1	1	1	1			F				12	FNBI
Phyllocladus "forest"	western toatoa	0	1	1	1	0	½	½	1	T						10	
Phyllocladus trichomanoides	tānekaha	1	1	0	1	1	1	½	½		S					20	I
Pittosporum eugenioides	tarata, lemonwood	2	1	½	1	1	1	½	1	T	S	F				12	FI
Pittosporum tenuifolium	kōhūhū	2	1	0	1	1	1	½	1	T	S	F				9	FBI
Podocarpus hallii	mountain tōtara, thin-barked tōtara	2	1	0	1	1	1	½	1	T	S					20	FBI
Podocarpus totara	tōtara	2	1	0	1	1	1	½	1			F				30	FBI
Prumnopitys ferruginea	miro	0	1	½	1	0	½	½	1	T	S	F				25	FI
Prumnopitys taxifolia	mataī	1	2	0	1	1	1	½	1		S	F				25	FI
Pseudopanax arboreus	orihou, five finger	1	1	0	1	½	½	½	½	T	S	F				8	FNBI
Pseudopanax crassifolius	horoeaka, lancewood	2	2	½	1	1	1	1	1	T	S	F				10	FNI
Pseudowintera axillaris	lowland horopito	0	1	½	1	0	0	1	½	T	S	F				7	F
Pseudowintera colorata	horopito	1	1	1	1	0	½	1	1	T		F				6	F

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Quintinia serrata	tāwheowheo, quintinia	0	2	½	1	0	½	1	1	T	S	F				12	N
Raukaua edgerleyi	raukawa	0	1	½	1	0	½	1	½	T	S	F				10	FI
Rhopalostylis sapida	nīkau	0	1	½	1	0	0	1	0		S					10	FNI
Schefflera digitata	patē, seven-finger	0	1	½	1	0	½	1	½	T	S	F	W			8	FBI
Sophora microphylla	kōwhai	1	0	0	½	1	1	½	1			F			C	10	NBI
Streblus heterophyllus	milkwood	1	1	0	1	1	½	½	½			F				10	FB
Weinmannia racemosa	kāmahi	1	2	½	1	½	½	½	1	T	S	F				10	NI
SHRUBS																	
Alseuosmia macrophylla	toropapa	0	1	½	1	0	0	1	½	T	S					2	FNB
Alseuosmia pusilla	dwarf toropapa	0	1	½	1	0	0	1	½							1	FN
Carmichaelia australis var. "flagelliformis"	whip broom	2	1	½	1	1	1	½	1			R				2	NB
Coprosma foetidissima	hūpiro, stinkwood	1	2	1	1	0	½	1	1	T	S	F	W			3	FB
Coprosma propinqua ssp. propinqua	mikimiki	2	1	1	1	1	1	0	1			F				5	F
Coprosma rhamnoides	bucks-horn coprosma	1	1	0	½	1	1	½	1	T	S					2	F
Coprosma rigida	streamside coprosma	1	1	½	1	½	1	½	1			F				3	F
Coprosma tayloriae	tier coprosma	1	1	1	1	1	1	½	1	T	S	F	W			2	F
Coprosma tenuicaulis	swamp coprosma	2	1	1	1	0	1	½	1				W	P		3	F
Dracophyllum filifolium	inaka	1	0	0	½	1	1	½	1		S					2	NI
Epacris pauciflora	tāmingi	1	1	1	1	0	1	½	1					P		1.5	I
Hebe salicifolia	South Island koromiko	2	0	½	1	0	1	½	1		S	F	W			2	NBI
Hebe stricta var. atkinsonii	koromiko	2	0	½	1	½	1	½	½	T	S	F			C	2	NBI
Leptecophylla juniperina	prickly mingimingi	1	1	0	½	1	1	½	1	T	S	F				3	F
Leucopogon fasciculatus	mingimingi	0	2	0	½	1	½	½	1	T	S	F				4	F
Ozothamnus leptophyllus	tauhinu, cottonwood	2	0	0	½	1	1	0	1	T	S					2	I
Raukaua anomalus	stout netting bush	1	2	½	1	½	½	1	1	T		F				2	FN
CLIMBERS																	
Clematis foetida	dainty clematis	0	1	0	1	1	½	½	½			F				5	
Clematis paniculata	puawānanga, bush clematis	1	1	0	1	0	½	½	½	T	S	F				7	

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Botanical Names	Māori and Common Names			Wet	Moist	Dry	Sun	Shade	Frost	High Terraces	Hill Slopes	Valley Flats & River Banks	Freshwater Wetlands	Pākihi	Coast only		
<i>Freycinetia banksii</i>	kiekie	0	2	½	1	½	0	1	½	T	S	F	W			10	FNI
<i>Metrosideros diffusa</i>	rātā vine	0	2	½	1	0	½	1	½	T	S	F				10	N
<i>Metrosideros fulgens</i>	scarlet rātā vine	0	1	0	1	½	½	1	½	T	S					15	NI
<i>Metrosideros perforata</i>	lowland rātā vine	0	1	0	1	½	½	1	½	T	S	F				15	N
<i>Muehlenbeckia complexa</i>	scrambling pōhuehue	2	0	0	½	1	1	0	1	T	S	F			C	2	FBI
<i>Parsonsia heterophylla</i>	native jasmine	1	1	½	1	½	½	½	½	T	S	F				7	I
<i>Passiflora tetrandra</i>	kōhia, native passionvine	0	1	0	1	0	½	½	0			F			C	15	FN
<i>Rhipogonum scandens</i>	kareao, supplejack	0	2	1	1	0	½	1	½	T	S	F				15	F
<i>Rubus australis</i>	swamp lawyer	0	1	1	1	0	1	½	1	T		F	W			5	F
<i>Rubus cissoides</i>	bush lawyer	0	1	½	1	½	½	1	½	T	S	F				10	F
<i>Rubus schmidelioides</i>	shrub lawyer	1	1	0	1	1	1	½	1			F				5	F
GRASSES, SEDGES, FERNS & GROUND COVERS																	
<i>Asplenium bulbiferum</i>	mauku, hen and chicken fern	0	2	½	1	0	0	1	½			F				0.5	B
<i>Asplenium gracillimum</i>	graceful spleenwort	0	2	0	1	½	0	1	½		S					0.7	B
<i>Asplenium oblongifolium</i>	shining spleenwort	0	1	0	1	1	½	1	0		S					0.5	
<i>Astelia fragrans</i>	ground lily	0	2	0	1	0	½	1	½	T	S	F				1.5	F
<i>Astelia trinervia</i>	kauri lily	0	2	½	1	0	½	1	½	T	S					2	F
<i>Baumea rubiginosa</i>	stout pākihi sedge	2	0	1	1	0	1	0	1				W	P		1.5	I
<i>Baumea tenax</i>	slender pākihi sedge	2	0	1	1	0	1	0	1					P		0.8	
<i>Baumea teretifolia</i>	pākihi sedge	2	0	1	1	0	1	0	1				W	P		1	I
<i>Blechnum discolor</i>	piupiu crown fern	0	2	0	1	½	½	1	½	T	S	F				0.5	I
<i>Blechnum filiforme</i>	climbing hardfern	0	1	0	1	1	0	1	0			F			C	5	
<i>Blechnum fluviatile</i>	kiwakiwa, creek fern	0	2	1	1	0	0	1	1			F				0.3	
<i>Blechnum fraseri</i>	zig-zag hardfern	0	1	½	1	0	½	1	½		S					1	
<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		S	F	W			2	I
<i>Blechnum penna-marina</i>	little hardfern	1	1	1	1	½	½	½	1				W			0.2	

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Blechnum procerum	beech hardfern	0	2	0	1	1	0	1	1	T	S	F				0.5	
Bolboschoenus caldwellii	pūrua grass	2	0	1	½	0	1	0	½				W		C	1	I
Carex comans	maurea	2	0	0	1	1	1	0	1	T						0.3	
Carex coriacea	rautahi	2	0	1	1	0	1	0	1			F				0.5	
Carex dissita	backwater sedge	1	1	1	1	0	½	1	1				W			0.5	
Carex flagellifera	whip sedge	2	0	½	1	½	1	0	½		S	F				0.5	
Carex forsteri	forest sedge	2	0	0	1	1	½	½	½		S	F			C	1	
Carex geminata	toetoe rautahi	2	0	1	1	0	1	½	1				W			1.5	I
Carex lambertiana	coastal forest sedge	1	1	1	1	0	1	½	½		S	F			C	1	
Carex lessoniana	peat rautahi	2	0	1	½	0	1	½	½				W			1	I
Carex maorica	Māori sedge	1	0	1	½	0	1	0	1				W			1	
Carex secta	pūrei	2	1	1	½	0	1	½	1				W			2	I
Carex solandri	droop sedge	1	1	0	1	½	½	½	1		S	F				1	
Carex testacea	bootstrap sedge	1	0	0	1	1	1	½	1		S	F			C	0.6	
Carex virgata	pūkio	2	1	1	½	0	1	½	1				W			1.5	I
Chionochloa conspicua	hunangāmoho, streambank snow-tussock	1	1	½	1	0	1	½	1			R				2	I
Cortaderia richardii	South Island toetoe	2	0	1	1	1	1	0	1	T	S	F	W			2	I
Cyperus ustulatus	upoko tangata	1	0	½	1	½	1	0	½			F	W		C	1	F
Dianella nigra	tūrutu, blueberry	0	1	0	1	1	1	½	½	T	S	F				0.3	F
Eleocharis acuta	spike rush	1	0	1	½	0	1	½	1				W			1	
Eleocharis sphacelata	kuta	2	0	1	0	0	1	0	1				W			2	I
Empodisma minor	wire rush	2	0	1	1	0	1	0	1					P		0.4	
Ficinia nodosa (=Isolepis nodosa)	knot sedge	2	0	0	½	1	1	0	½	T	S	F			C	1	
Gahnia pauciflora	small cutty sedge	1	1	0	1	1	1	½	½		S					1.5	F
Gahnia rigida	pākihi cutty sedge	2	0	1	1	0	1	0	1					P		2	I
Gahnia setifolia	cutty sedge	2	1	0	1	1	1	½	½	T	S					2	F
Gahnia xanthocarpa	giant cutty sedge	2	1	1	1	0	1	1	1	T		F	W			2	F

PLANT SPECIES FOR COLLINGWOOD-ONEKAKA TERRACES & HILLS 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	High Terraces	Hill Slopes	Valley Flats & River Banks	Freshwater Wetlands	Pākihi	Coast only		
<i>Gleichenia dicarpa</i>	tangle fern	2	0	1	½	0	1	½	1				P		0.5	I	
<i>Hypolepis ambigua</i>	hypolepis	1	1	½	1	0	1	½	1	T		F			1		
<i>Hypolepis dicksonioides</i>	giant hypolepis	1	0	½	1	0	1	0	0			F		C	2		
<i>Juncus australis</i>	wiwi	2	0	½	1	0	1	0	1	T		F			1		
<i>Juncus edgariae</i>	wiwi	2	0	½	1	0	1	0	1	T		F			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	T		F			1		
<i>Lepidosperma australe</i>	square stem	1	0	½	1	0	1	0	1			W	P		1		
<i>Libertia mooreae</i>	native iris	0	1	0	1	½	½	½	½	T	S	F			0.3		
<i>Microlaena avenacea</i>	bush ricegrass	1	2	½	1	½	½	1	1	T	S	F			0.5		
<i>Phormium cookianum</i>	wharariki, coastal flax	2	0	0	1	1	1	0	1	T	S	F			1.5	N	
<i>Phormium tenax</i>	harakeke, swamp flax	2	0	1	1	½	1	0	1	T		F	W		2	N	
<i>Pneumatopteris pennigera</i>	pākau, gully fern	0	1	0	1	0	0	1	½			F			1	I	
<i>Poa aff. cita</i>	coastal silver tussock	2	0	0	1	1	1	0	½		S			C	0.5	I	
<i>Poa anceps</i>	carpet poa	0	1	0	1	1	1	½	½		S			C	0.2	I	
<i>Polystichum neozelandicum</i> ssp. <i>zerophyllum</i> (=P. <i>richardii</i>)	lowland shield fern	0	1	0	1	½	0	1	½		S				0.5		
<i>Polystichum vestitum</i>	prickly shield fern	1	2	½	1	0	½	1	1	T		F			1	I	
<i>Schoenoplectus tabernaemontani</i>	kāpungawhā, lake clubrush	2	0	1	½	0	1	0	½			W		C	2	I	
<i>Sticherus cunninghamii</i>	umbrella fern	1	0	1	1	0	1	½	1	T	S		P		1		
<i>Tetragonia implexicoma</i>	coastal spinach	1	1	0	1	½	1	½	0		S			C	0.5	F	
<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		S	F			0.3		
<i>Uncinia uncinata</i>	hookgrass	1	2	½	1	½	½	1	1	T	S	F			0.5		