

# EASTERN GOLDEN BAY LIMESTONE ECOSYSTEM NATIVE PLANT RESTORATION LIST

<b>Locality:</b>	Limestone hill country of outcrops and soils derived from limestone mostly in the lower Takaka catchment between Ligar Bay and Rangihaeata and inland to Payne's Ford. Also includes Taupo Point and Tata Islands.
<b>Topography:</b>	Diverse karst landforms of limestone outcrops, bluffs and depressions. Occasional caves, sinkholes and shafts. Bedrock usually flat-topped and broken into blocks by dissolution fissures forming corridors (clints and grikes). Includes gentle landforms directly adjoining limestone.
<b>Soils and Geology:</b>	Mostly very well-drained, fertile silt loams derived from platy limestone. Limestone depth varies from 15-180 metres. Some impeded drainage in depressions and on flat limestone plates. Soil depth is highly variable depending on bedrock topography; often very shallow. Drought-prone.
<b>Climate:</b>	High sunshine hours; frosts nil to moderate; mild annual temperatures. Rainfall 1500mm on the coast to 2400mm inland.
<b>Coastal Influence:</b>	Rangihaeata headland, Motupipi estuary and from Pohara to Ligar Bay up to ½km inland. Also Tata Islands and Taupo Point.
<b>Original Vegetation:</b>	Mixed podocarp-broadleaf forest; especially of mataī, tōtara, northern rātā and tītoki.
<b>Human Modification:</b>	Much of ecosystem is still covered in native vegetation although little of it is original due to logging and burning. Weed infestation generally extensive. Limestone quarrying.

[Refer to the Ecosystem Restoration map showing the colour-coded area covered by this list.]

## KEY

<p><b>PLANTING RATIO</b></p> <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>PLANT PREFERENCES</b></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 R = river bank (riparian)</p>	<p><b>TYPE OF FOOD PROVIDED FOR BIRDS AND LIZARDS</b></p> <p>F = Fruit/seeds N = Nectar B = Buds/foilage I = Insects</p>
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PLANT SPECIES FOR EASTERN GOLDEN BAY LIMESTONE 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		
<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
Brachyglottis repanda	rangiora	0	1	0	1	½	½	1	½	0				4	
Carpodetus serratus	putaputāwētā, marbleleaf	1	1	1	1	0	1	½	1	0				10	FBI
Coprosma areolata	thin-leaved coprosma	1	1	0	1	½	½	½	½	0				5	FBI
Coprosma crassifolia	thick-leaved coprosma	1	0	0	½	1	1	½	1	0				5	FB
Coprosma grandifolia	raurekau	0	2	½	1	0	½	1	½	0				6	FB
Coprosma lucida	shining karamū	1	1	0	1	1	1	½	½	0				6	F
Coprosma repens	taupata	2	0	1	1	1	1	0	0	½	C			5	FI

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Botanical Names	Māori & Common Names			Wet	Moist	Dry	Sun	Shade	Frost	Saline	Coast Only	Freshwater Wetland Only	Riparian Mostly		
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	1	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
Dicksonia squarrosa	whekī	0	1	½	1	0	0	1	1	0				7	I
Dodonaea viscosa	akeake	2	0	0	1	1	1	0	½	0				7	I
Fuchsia excorticata	kōtukutuku, tree fuchsia	1	1	½	1	0	½	1	½	0				10	FNBI
Griselinia lucida	puka	2	1	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	2	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
Lophomyrtus obcordata	rōhutu	1	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	
Melicope ternata	whārangi	1	1	0	1	1	1	½	0	0	C			7	B
Melicytus ramiflorus	māhoe, whiteywood	0	2	½	1	1	½	1	½	0				10	FBI
Metrosideros robusta	northern rātā	1	1	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	2	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	0	1	0	1	½	½	½	½	0				8	FNBI
Pseudopanax rostratum	fierce lancewood	2	1	0	½	1	1	½	½	0				8	FNI
Pseudopanax macintyreii	limestone five-finger	0	1	0	1	1	1	1	½	0				5	F
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 longicarinata	limestone kōwhai	2	1	0	½	1	1	½	½	0				8	NBI
Streblus banksii	ewekurī, large-leaved milk tree	0	2	0	1	1	½	1	0	0	C			12	FB
Streblus heterophyllus	milkwood	1	1	0	1	1	½	½	½	0				10	FB
<b>SHRUBS</b>															
Carmichaelia australis var. "arenaria"	broom	1	1	½	1	1	1	½	1	½	C			2	NB
Coprosma propinqua ssp. propinqua	mikimiki	2	1	1	1	1	1	0	1	0				5	F
Hebe albicans ssp. "NWN glaucophyllus"	limestone koromiko	2	0	0	½	1	1	½	1	0				1	N
Melicytus obovatus	limestone māhoe	2	1	0	½	1	1	½	0	0				4	FB

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Botanical Names	Māori & Common Names			Wet	Moist	Dry	Sun	Shade	Frost	Saline	Coast Only	Freshwater Wetland Only	Riparian Mostly		
<i>Pimelea longifolia</i>	coastal daphne	0	1	0	½	1	½	½	½	0				2	FI
<i>Teucrium parvifolium</i>	native germander	1	2	0	1	1	½	½	½	0			R	1	
<b>CLIMBERS</b>															
<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	2	0	1	1	0	1	½	0				8	N
<i>Metrosideros perforata</i>	lowland rātā vine	0	1	0	1	½	½	1	½	0				15	N
<i>Parsonsia capsularis</i>	native jasmine	1	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
<i>Rubus schmidelioides</i>	shrub lawyer	0	1	0	1	1	1	½	1	0				5	F
<b>GRASSES, SEDGES &amp; GROUND COVERS</b>															
<i>Acaena anserinifolia</i>	piripiri, bidibid	1	1	½	1	1	1	½	1	0				0.2	
<i>Anemanthele lessoniana</i>	gossamer grass	2	2	0	1	1	½	½	½	0				1	
<i>Apium prostratum</i> ssp. <i>prostratum</i>	sea celery	1	0	0	1	½	1	½	½	½	C			0.1	
<i>Arthropodium cirratum</i>	renga renga	2	2	0	½	1	1	½	½	½	C			0.5	
<i>Arthropteris tenella</i>	jointed fern	0	1	0	1	½	0	1	0	0				5	
<i>Asplenium gracillimum</i>	graceful spleenwort	0	2	0	1	½	0	1	½	0				0.7	B
<i>Asplenium lyallii</i>	limestone spleenwort	0	1	0	1	½	0	1	½	0				0.5	
<i>Asplenium oblongifolium</i>	shining spleenwort	0	2	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>Astelia solandri</i>	kōwharawhara	0	2	0	1	½	½	1	½	0				1	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	0	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 geminata</i>	toetoe rautahi	2	0	1	1	0	1	½	1	0		W		1.5	I
<i>Carex lambertiana</i>	coastal forest sedge	2	1	1	1	0	1	½	½	0	C			1	
<i>Carex solandri</i>	droop sedge	1	1	0	1	½	½	½	1	0				1	
<i>Carex virgata</i>	pukio	2	1	1	½	0	1	½	1	0		W		1.5	I
<i>Collospermum hastatum</i>	perching lily	1	2	0	1	1	½	½	½	0				0.7	F
<i>Cortaderia richardii</i>	South Island toetoe	2	0	1	1	1	1	0	1	0				2	I
<i>Cyperus ustulatus</i>	upoko tangata	2	0	½	1	½	1	0	½	½	C			1	F
<i>Dichondra repens</i>	kidney creeper	1	0	0	½	1	1	½	½	0	C			0.1	
<i>Diplazium australe</i>	herringbone fern	1	2	0	1	0	½	½	½	0				0.5	
<i>Disphyma australe</i>	horokaka, native iceplant	2	0	0	½	1	1	0	½	½	C			0.1	FB
<i>Elymus solandri</i>	blue wheatgrass	1	0	0	½	1	1	0	½	½	C			0.3	
<i>Euphorbia glauca</i>	native sand spurge, waiūatua	1	0	0	1	1	1	0	½	½	C			1	
<i>Hypolepis ambigua</i>	hypolepis	1	0	½	1	0	1	½	1	0				1	
<i>Isolepis nodosa</i>	knot sedge	1	0	0	½	1	1	0	½	½	C			1	
<i>Lastreopsis microsora</i> ssp. <i>pentangularis</i>	creeping five-angle fern	0	2	0	1	½	0	1	0	0	C			0.3	
<i>Libertia ixioides</i>	native iris	0	1	0	1	½	½	½	½	0				0.3	
<i>Linum monogynum</i>	rauhua	1	0	0	1	1	1	½	½	½	C			0.5	
<i>Lobelia anceps</i>	shore lobelia	1	0	½	1	1	1	½	0	½	C			2	

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Botanical Names	Māori & Common Names			Wet	Moist	Dry	Sun	Shade	Frost	Saline	Coast Only	Freshwater Wetland Only	Riparian Mostly		
<i>Microlaena avenacea</i>	bush ricegrass	0	1	½	1	½	½	1	1	0				0.5	
<i>Microlaena polynoda</i>	bamboo grass	1	2	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>Pellaea rotundifolia</i>	button fern	0	1	0	1	½	½	1	½	0				0.2	
<i>Phormium cookianum</i>	wharariki, coastal flax	2	0	0	1	1	1	0	1	½	C			1.5	N
<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>Poa aff. cita</i>	coastal silver tussock	2	0	0	1	1	1	0	½	½	C			0.5	I
<i>Poa anceps</i>	carpet poa	1	2	0	1	1	1	½	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				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>Typha orientalis</i>	raupō	2	0	1	½	0	1	0	1	0		W		3	
<i>Uncinia uncinata</i>	hookgrass	1	2	½	1	½	½	1	1	0				0.5	