

## GOLDEN BAY SANDY COAST ECOSYSTEM NATIVE PLANT RESTORATION LIST

<b>Locality:</b>	Coastal, sandy flats and dunes between Pohara and Collingwood.
<b>Topography:</b>	Low-lying, flat to gently contoured dunes narrow sand plains and spits, often with a series of parallel gentle ridges and hollows.
<b>Soils and Geology:</b>	Fine-grained unconsolidated sand adjacent to the shoreline, backed by areas of consolidated sand inland forming beach ridges. Derived mostly from sediments of the Aorere and Takaka Rivers. Fertility low to moderate. Mostly well-drained and drought-prone although moist hollows often with poorly-drained, thin swamp deposits of blue-grey sandy mud. Ground water often brackish.
<b>Climate:</b>	High to moderately high sunshine hours; frosts mild; mild annual temperatures. Rainfall 1500mm in the east to 2000mm in the west.
<b>Coastal influence:</b>	Entirely coastal.
<b>Original Vegetation:</b>	Tussock sand-binders on unconsolidated dunelands. Shrublands, low mixed broadleaf forest and podocarp - mixed broadleaf forest on consolidated sands and hollows. Sedge, rush and reedlands in the wettest hollows.
<b>Human Modification:</b>	Very few areas of native vegetation remaining. Dominated by exotic plants, especially marram. Earthworks and housing development have altered the hydrology and landforms that determine vegetation patterns. Most dunes now stabilised.

[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><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>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>W = freshwater wetlands D = sand dunes</p>	<p>F = Fruit/seeds</p> <p>N = Nectar</p> <p>B = Buds/foilage</p> <p>I = Insects</p>

PLANT SPECIES FOR GOLDEN BAY SANDY COAST 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	Freshwater Wetland			Sand Dunes
<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	2	0	1	½	½	½	½	0			5	FBI
Coprosma repens	taupata	2	0	1	1	1	1	0	0	½		D	5	FI
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	W		12	FNI
Coriaria arborea	tree tutu	2	0	½	1	1	1	0	½	0			6	F
Cyathea dealbata	ponga, silver fern	0	2	0	1	½	0	1	½	0			10	I
Cyathea medullaris	mamaku, black treefern	0	1	½	1	0	0	1	0	0			16	I

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Botanical Names	Māori & Common Names			Wet	Moist	Dry	Sun	Shade	Frost	Saline	Freshwater Wetland	Sand Dunes		
Dacrycarpus dacrydioides	kāhikatea	1	2	1	1	0	½	½	1	0	W		60	FI
Dodonaea viscosa	akeake	2	0	0	1	1	1	0	½	0		D	7	I
Griselinia lucida	puka	1	2	0	1	1	1	½	0	0			8	FBI
Hedycarya arborea	porokaiwhiri, pigeonwood	0	2	0	1	1	1	½	½	0			8	FBI
Kunzea ericoides	kānuka	2	0	0	½	1	1	0	1	0			15	NI
Kunzea "sand"	sand kānuka	2	0	½	1	½	1	0	½	½		D	7	NI
Laurelia novae-zelandiae	pukatea	0	2	1	½	0	0	1	½	0	W		35	BI
Leptospermum scoparium	mānuka	2	0	1	1	1	1	0	1	½	W		8	NI
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	
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		D	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
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 crassifolius	horoeka, lancewood	2	2	½	1	1	1	1	1	0			10	FNI
Rhopalostylis sapida	nīkau	0	2	½	1	0	0	1	0	0			10	FNI
Solanum aviculare	poroporo	2	0	0	1	½	½	½	½	0			3	F
Streblus heterophyllus	milkwood	1	1	0	1	1	½	½	½	0			10	FB
<b>SHRUBS</b>														
Carmichaelia australis var. "arenaria"	broom	2	1	½	1	1	1	½	1	½		D	2	NB
Coprosma acerosa	sand coprosma	2	0	0	½	1	1	0	½	½		D	1	F
Coprosma propinqua ssp. propinqua	mikimiki	2	1	1	1	1	1	0	1	0	W		5	F
Coprosma rhamnoides	bucks-horn coprosma	1	1	0	½	1	1	½	1	0			2	F
Coprosma tenuicaulis	swamp coprosma	2	1	1	1	0	1	½	1	0	W		3	F
Hebe stricta var. atkinsonii	koromiko	2	0	½	1	½	1	½	½	0			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			4	F
Leucopogon fraseri	pātōtara	2	0	0	1	1	1	0	1	½		D	0.2	F
Ozothamnus leptophyllus	tauhinu, cottonwood	2	0	0	½	1	1	0	1	½		D	2	I
Pimelea villosa ssp. "southern"	southern sand daphne	2	0	½	1	1	1	0	0	½		D	0.5	F
<b>CLIMBERS</b>														
Calystegia soldanella	shore convolvulus	2	0	0	½	1	1	0	0	½		D	0.2	
Fuchsia perscandens	scrambling fuchsia	0	1	½	1	0	½	½	½	0			2	FNBI
Metrosideros perforata	lowland rātā vine	0	2	0	1	½	½	1	½	0			15	N
Muehlenbeckia complexa	scrambling pōhuehue	2	0	0	½	1	1	0	1	½		D	2	FBI
Parsonsia capsularis	native jasmine	1	1	0	1	1	½	½	1	0			5	I
Rhipogonum scandens	kareao, supplejack	0	2	1	1	0	½	1	½	0			15	F
Rubus schmidelioides	shrub lawyer	0	1	0	1	1	1	½	1	0			5	F

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Botanical Names	Māori & Common Names			Wet	Moist	Dry	Sun	Shade	Frost	Saline	Freshwater Wetland	Sand Dunes		
<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	1	0	1	1	½	½	½	0			1	
<i>Apodasmia similis</i> (=Leptocarpus)	oioi, jointed rush	2	0	½	1	0	1	0	½	½	W		1.5	I
<i>Arthropteris tenella</i>	jointed fern	0	1	0	1	½	0	1	0	0			5	
<i>Asplenium appendiculatum</i> ssp. <i>appendiculatum</i>	terrestrial spleenwort	0	1	0	1	½	0	1	½	0			0.3	
<i>Asplenium gracillimum</i>	graceful spleenwort	0	2	0	1	½	0	1	½	0			0.7	B
<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>Austrofestuca littoralis</i>	sand tussock	2	0	0	1	1	1	0	1	½		D	1	I
<i>Baumea huttonii</i>	twig sedge	2	0	1	½	0	1	0	½	0	W		1.5	I
<i>Blechnum filiforme</i>	climbing hardfern	0	2	0	1	1	0	1	0	0			5	
<i>Blechnum minus</i>	swamp kiokio	1	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	W		2	I
<i>Bolboschoenus caldwellii</i>	pūrua grass	2	0	1	½	0	1	0	½	½	W		1	I
<i>Carex flagellifera</i>	whip sedge	2	0	½	1	½	1	0	½	½			0.5	
<i>Carex forsteri</i>	forest sedge	1	1	0	1	1	½	½	½	0			1	
<i>Carex geminata</i>	toetoe rautahi	2	0	1	1	0	1	½	1	0	W		1.5	I
<i>Carex "geminata wide leaf"</i>	swamp rautahi	2	0	1	½	0	1	½	½	0	W		1.5	I
<i>Carex lambertiana</i>	coastal forest sedge	1	1	1	1	0	1	½	½	0			1	
<i>Carex lessoniana</i>	peat rautahi	2	0	1	½	0	1	½	½	0	W		1	I
<i>Carex maorica</i>	Māori sedge	1	0	1	½	0	1	0	1	0	W		1	
<i>Carex pumila</i>	sand sedge	2	0	0	½	1	1	0	½	½		D	0.2	
<i>Carex secta</i>	pūrei	2	1	1	½	0	1	½	1	0	W		2	I
<i>Carex solandri</i>	droop sedge	1	1	0	1	½	½	½	1	0			1	
<i>Carex testacea</i>	bootstrap sedge	1	0	0	1	1	1	½	1	0			0.6	
<i>Carex virgata</i>	pukio	2	1	1	½	0	1	½	1	0	W		1.5	I
<i>Cortaderia fulvida</i>	slender toetoe	2	0	1	1	1	1	0	½	½		D	3	I
<i>Cortaderia richardii</i>	South Island toetoe	2	0	1	1	1	1	0	1	0	W		2	I
<i>Cotula coronopifolia</i>	bachelors button	2	0	½	½	0	1	0	½	½	W		0.1	
<i>Cyperus ustulatus</i>	upoko tangata	2	0	½	1	½	1	0	½	½	W	D	1	F
<i>Desmoschoenus spiralis</i>	pīngao	2	0	1	1	1	1	0	1	½		D	1	I
<i>Disphyma australe</i>	horokaka, native iceplant	1	0	0	½	1	1	0	½	½			0.1	FB
<i>Eleocharis acuta</i>	spike rush	1	0	1	½	0	1	½	1	0	W		1	
<i>Euphorbia glauca</i>	native sand spurge, waiūatua	2	0	0	1	1	1	0	½	½		D	1	
<i>Gahnia xanthocarpa</i>	giant cutty sedge	1	1	1	1	0	1	1	1	0	W		2	F
<i>Hierochloa redolens</i>	karetū, holy grass	2	0	1	½	0	1	½	1	0	W		0.5	
<i>Hypolepis dicksonioides</i>	giant hypolepis	1	0	½	1	0	1	0	0	0	W		2	
<i>Isolepis nodosa</i>	knot sedge	2	0	0	½	1	1	0	½	½		D	1	
<i>Juncus australis</i>	wiwi	2	0	½	1	0	1	0	1	0	W		1	
<i>Juncus edgariae</i>	wiwi	1	0	½	1	0	1	0	1	0			1	
<i>Juncus pallidus</i>	tall swamp rush	2	0	1	1	0	1	0	½	0	W		2	
<i>Juncus pauciflorus</i>	slender rush	1	0	½	1	0	1	0	1	0			0.7	
<i>Juncus sarophorus</i>	blue wiwi	2	0	½	1	0	1	0	1	0			1	
<i>Lachnagrostis billardierei</i>	wind grass	1	0	0	½	1	1	0	½	½		D	0.5	

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Botanical Names	Māori & Common Names			Wet	Moist	Dry	Sun	Shade	Frost	Saline	Freshwater Wetland	Sand Dunes			
<i>Lastreopsis microsora</i> ssp. <i>pentangularis</i>	creeping five-angle fern	0	1	0	1	½	0	1	0	0			0.3		
<i>Libertia ixioides</i>	native iris	1	2	0	1	½	½	½	½	0			0.3		
<i>Libertia peregrinans</i>	sand iris	2	0	½	1	½	1	0	½	½		D	0.5		
<i>Lobelia anceps</i>	shore lobelia	0	1	½	1	1	1	½	0	½			2		
<i>Microlaena polynoda</i>	bamboo grass	0	1	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	0	1	0	1	1	½	1	½	0			0.2	B	
<i>Mimulus repens</i>	native musk	1	0	1	1	0	1	0	½	½	W		0.1		
<i>Oplismenus hirtellus</i> ssp. <i>imbecillus</i>	rug grass	0	1	0	1	1	½	½	0	0			0.1		
<i>Phormium cookianum</i>	wharariki, coastal flax	2	0	0	1	1	1	0	1	½		D	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>Ranunculus macropus</i>	waoriki	0	1	1	½	0	½	½	½	0	W		0.5		
<i>Schoenoplectus tabernaemontani</i>	kāpungawhā, lake clubrush	2	0	1	½	0	1	0	½	½	W		2	I	
<i>Spinifex sericeus</i>	kōwhangatara, spinifex	2	0	0	1	1	1	0	½	½		D	0.5	I	
<i>Tetragonia tetragonioides</i>	New Zealand spinach	2	0	0	½	1	1	½	0	½		D	0.3	B	
<i>Tetragonia implexicoma</i>	coastal spinach	1	1	0	1	½	1	½	0	½		D	0.5	F	
<i>Typha orientalis</i>	raupō	2	0	1	½	0	1	0	1	½	W		3		
<i>Uncinia uncinata</i>	hookgrass	1	2	½	1	½	½	1	1	0			0.5		