

TASMAN SANDY COAST ECOSYSTEM NATIVE PLANT RESTORATION LIST

Locality:	Coastal, sandy flats between Riwaka River mouth and Tahunanui and including Rabbit, Bells and Bests Islands.
Topography:	Low-lying, flat to gently contoured dunes and plains, often with a series of parallel gentle ridges and hollows.
Soils and Geology:	Fine-grained unconsolidated sand adjacent to the shoreline, and extensive areas of consolidated sand and gravels inland forming beach ridges; well-drained and drought-prone. Thin swamp deposits in hollows of blue-grey sandy mud; poorly-drained. Derived from Motueka River sediments and eroded Moutere gravels. Fertility low to moderate.
Climate:	High sunshine hours; frosts mild; mild annual temperatures, rainfall 920mm.
Coastal influence:	Entirely coastal.
Original Vegetation:	Podocarp - mixed broadleaf forest, low mixed broadleaf forest, shrublands and dunelands. Vegetated and open wetlands in sand and gravel dune hollows and on sand flats with high water table.
Human Modification:	Very few areas of native vegetation remaining. Earthworks have altered the hydrology and many of the original landforms that determine vegetation patterns. Base water table has been lowered.

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

PLANT SPECIES FOR TASMAN SANDY COAST ECOSYSTEM		EARLY STAGE PLANTING RATIO	LATER STAGE PLANTING RATIO	PLANT PREFERENCES									Maximum Height (metres)	Food Type
Botanical Names	Māori & Common Names			Wet	Moist	Dry	Sun	Shade	Frost	Freshwater Wetlands	Sand Dunes	River Deltas Only		
TREES														
Alectryon excelsus	tītoki	0	2	0	1	1	0	1	0				15	FI
Aristotelia serrata	makomako, wineberry	0	1	½	1	0	0	1	½				10	FBI
Brachyglottis repanda	rangiora	0	1	0	1	½	½	1	½				4	
Carpodetus serratus	putaputāwētā, marbleleaf	1	1	1	1	0	1	½	1				10	FBI
Coprosma areolata	thin-leaved coprosma	0	1	0	1	½	½	½	½				5	FBI
Coprosma crassifolia	thick-leaved coprosma	2	0	0	½	1	1	½	1				5	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				5	FI
Coprosma robusta	karamū	1	2	½	1	1	1	½	½				6	F
Cordyline australis	tī kouka, cabbage tree	2	0	1	1	1	1	0	1	W			12	FNI

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Botanical Names	Māori & Common Names			Wet	Moist	Dry	Sun	Shade	Frost	Freshwater Wetlands	Sand Dunes	River Deltas Only			
Coriaria arborea	tree tutu	2	0	½	1	1	1	0	½				6	F	
Dacrycarpus dacrydioides	kāhikatea	1	2	1	1	0	½	½	1	W			60	FI	
Discaria toumatou	tūmatakuru, matagouri	2	0	0	½	1	1	0	1				4	I	
Dodonaea viscosa	akeake	2	0	0	1	1	1	0	½				7	I	
Griselinia lucida	puka	1	2	0	1	1	1	½	0				8	FBI	
Hedycarya arborea	porokaiwhiri, pigeonwood	0	1	0	1	1	1	½	½				8	FBI	
Hoheria angustifolia	narrow-leaved lacebark	1	1	½	1	1	1	0	1			D	10	FI	
Kunzea ericoides	kānuka	2	0	0	½	1	1	0	1				15	NI	
Leptospermum scoparium	mānuka	2	0	1	1	1	1	0	1	W			8	NI	
Lophomyrtus obcordata	rōhutu	1	1	½	1	1	1	1	½				8	FI	
Macropiper excelsum	kawakawa, pepperwood	0	2	½	1	1	1	1	0				6	FI	
Melicope simplex	poataniwha	1	2	0	1	1	1	1	½				5		
Melicytus ramiflorus	māhoe, whiteywood	0	2	½	1	1	½	1	½				10	FBI	
Myoporum laetum	ngaio	2	0	0	1	1	1	0	0				10	FN	
Myrsine australis	māpou	2	1	0	1	1	1	½	1				8	FI	
Olearia paniculata	akiraho	2	0	0	½	1	1	0	½				6	I	
Pennantia corymbosa	kaikōmako	2	2	1	1	1	1	1	1				12	FNBI	
Pittosporum eugenioides	tarata, lemonwood	1	1	½	1	1	1	½	1				12	FI	
Pittosporum tenuifolium	kōhūhū	2	1	0	1	1	1	½	1				9	FBI	
Plagianthus regius	manatū, lowland ribbonwood	1	1	½	1	1	1	0	1			D	15	FBI	
Podocarpus totara	tōtara	2	2	0	1	1	1	½	1				30	FBI	
Prumnopitys taxifolia	mataī	1	2	0	1	1	1	½	1				25	FI	
Pseudopanax crassifolius	horoeaka, lancewood	2	1	½	1	1	1	1	1				10	FNI	
Solanum aviculare	poroporo	1	0	0	1	½	½	½	½				3	F	
Sophora microphylla	kōwhai	1	1	0	½	1	1	½	1			D	10	NBI	
Streblus heterophyllus	milkwood	1	1	0	1	1	½	½	½				10	FB	
SHRUBS															
Carmichaelia australis var. "flagelliformis"	whip broom	2	1	½	1	1	1	½	1			D	2	NB	
Coprosma acerosa	sand coprosma	2	0	0	½	1	1	0	½		S		1	F	
Coprosma propinqua	mikimiki	2	1	1	1	1	1	0	1				5	F	
Coprosma rhamnoides	bucks-horn coprosma	1	1	0	½	1	1	½	1				2	F	
Hebe stricta var. atkinsonii	koromiko	2	0	½	1	½	1	½	½				2	NBI	
Leptecophylla juniperina	prickly mingimingi	1	2	0	½	1	1	½	1				3	F	
Leucopogon fasciculatus	mingimingi	0	2	0	½	1	½	½	1				4	F	
Melicytus "Waipapa"	lowland porcupine shrub	2	0	0	½	1	1	½	1				0.5	F	
Melicytus crassifolius	coastal porcupine shrub	2	0	0	½	1	1	0	½				0.5	F	
Ozothamnus leptophyllus	tauhinu, cottonwood	2	0	0	½	1	1	0	1				2	I	
Pimelea villosa ssp. "southern"	southern sand daphne		2	½	1	1	1	0	0		S		0.5	F	
CLIMBERS															
Calystegia sepium ssp. sepium	native convolvulus	0	1	½	1	0	1	½	½				3		
Calystegia soldanella	shore convolvulus	2	0	0	½	1	1	0	0		S		0.2		
Muehlenbeckia axillaris	mat pōhuehue	1	0	0	1	1	1	0	1				0.1	I	
Muehlenbeckia complexa	scrambling pōhuehue	2	0	0	½	1	1	0	1				2	FBI	
Parsonsia capsularis	native jasmine	1	1	0	1	1	½	½	1				5	I	
Rubus squarrosus	leafless lawyer	1	1	0	1	1	1	½	½			D	5	F	

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Botanical Names	Māori & Common Names			Wet	Moist	Dry	Sun	Shade	Frost	Freshwater Wetlands	Sand Dunes	River Deltas Only			
GRASSES, SEDGES, RUSHES & GROUND COVERS															
<i>Acaena anserinifolia</i>	piripiri, bidibid	1	1	½	1	1	1	½	1				0.2		
<i>Anemanthele lessoniana</i>	gossamer grass	1	2	0	1	1	½	½	½				1		
<i>Apodasmia similis</i> (=Leptocarpus)	oiioi, jointed rush	2	0	s.5	s1	0	1	0	½	W			1.5	I	
<i>Arthropteris tenella</i>	jointed fern	0	1	0	1	½	0	1	0				5		
<i>Asplenium appendiculatum</i> ssp. <i>appendiculatum</i>	terrestrial spleenwort	0	1	0	1	½	0	1	½				0.3		
<i>Asplenium flabellifolium</i>	necklace fern	0	1	0	½	1	½	1	½				0.1		
<i>Asplenium oblongifolium</i>	shining spleenwort	0	1	0	1	1	½	1	0				0.5		
<i>Atriplex cinerea</i>	grey salt bush	2	0	S.5	1	0	1	0	1				1		
<i>Baumea articulata</i>	stout jointed sedge	2	0	1	½	0	1	0	½	W			3		
<i>Blechnum filiforme</i>	climbing hardfern	0	2	0	1	1	0	1	0				5		
<i>Blechnum novae-zelandiae</i>	kiokio	2	0	1	1	1	½	1	1	W			2	I	
<i>Blechnum penna-marina</i>	little hardfern	1	1	1	1	½	½	½	1				0.2		
<i>Bolboschoenus caldwellii</i>	pūrua grass	2	0	1	½	0	1	0	½	W			2		
<i>Carex comans</i>	maurea	2	0	0	1	1	1	0	1				0.3		
<i>Carex flagellifera</i>	bootlace sedge	2	0	½	1	½	1	0	½				0.5		
<i>Carex forsteri</i>	forest sedge	1	0	0	1	1	½	½	½				0.5		
<i>Carex "geminata wide leaf"</i>	swamp rautahi	2	0	1	½	0	1	½	½	W			1.5	I	
<i>Carex pumila</i>	sand sedge	2	0	0	½	1	1	0	½		S		0.2		
<i>Carex raoulii</i>	coast sedge	1	0	0	1	1	1	½	½				0.5		
<i>Carex solandri</i>	droop sedge	1	1	0	1	½	½	½	1				1		
<i>Carex testacea</i>	bootstrap sedge	2	0	0	1	1	1	½	1				0.6		
<i>Carex virgata</i>	pukio	1	0	1	½	0	1	½	1	W			1.5	I	
<i>Centella uniflora</i>	centella	0	1	1	1	½	1	½	½				0.1		
<i>Cortaderia richardii</i>	South Island toetoe	2	0	1	1	1	1	0	1				3	I	
<i>Cotula coronopifolia</i>	bachelors button	1	0	s.5	½	0	1	0	½	W			0.1		
<i>Cyperus ustulatus</i>	upoko tangata	2	0	½	1	½	1	0	½				1	F	
<i>Desmoschoenus spiralis</i>	pīngao	2	0	1	1	1	1	0	1		S		1	I	
<i>Dichondra repens</i>	kidney creeper	1	0	0	½	1	1	½	½				0.1		
<i>Disphyma australe</i>	horokaka, native iceplant	2	0	0	½	1	1	0	½				0.1	FB	
<i>Eleocharis acuta</i>	spike rush	1	0	1	½	0	1	½	1	W			1		
<i>Elymus solandri</i>	blue wheatgrass	1	0	0	½	1	1	0	½				0.3		
<i>Euphorbia glauca</i>	native sand spurge, waiūatua	1	2	0	1	1	1	0	½				1		
<i>Gahnia xanthocarpa</i>	giant cutty sedge	1	1	1	1	0	1	1	1	W			2	F	
<i>Haloragis erecta</i>	toatoa	1	0	0	1	1	1	½	½				0.5		
<i>Hypolepis dicksonioides</i>	giant hypolepis	1	0	½	1	0	1	0	0	W			2		
<i>Ficinia nodosa</i> (= <i>Isolepis nodosa</i>)	knot sedge	2	0	0	½	1	1	0	½				1		
<i>Juncus australis</i>	wiwi	2	0	½	1	0	1	0	1	W			1		
<i>Juncus edgariae</i>	wiwi	2	0	½	1	0	1	0	1	W			1		
<i>Juncus pallidus</i>	tall swamp rush	2	0	1	1	0	1	0	½	W			2		
<i>Juncus pauciflorus</i>	slender rush	1	0	½	1	0	1	0	1	W			0.7		
<i>Juncus sarophorus</i>	blue wiwi	2	0	½	1	0	1	0	1	W			1		
<i>Lachnagrostis billardierei</i>	wind grass	1	0	0	½	1	1	0	½				0.5		
<i>Leucopogon fraseri</i>	pātōtara	2	0	0	1	1	1	0	1				0.2	F	
<i>Libertia peregrinans</i>	sand iris	2	0	½	1	½	1	0	½		S		0.5		

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<i>Linum monogynum</i>	rauhua	1	0	0	1	1	1	½	½				0.5	
<i>Microlaena polynoda</i>	bamboo grass	0	2	0	1	1	½	½	½				2	
<i>Microlaena stipoides</i>	meadow ricegrass	1	2	0	1	1	½	½	½				0.2	
<i>Microsorium pustulatum</i>	hounds tongue	1	2	0	1	1	½	1	½				0.2	B
<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	W			2	N
<i>Poa aff. cita</i>	coastal silver tussock	2	0	0	1	1	1	0	½				0.5	I
<i>Poa anceps</i>	carpet poa	0	1	0	1	1	1	½	½				0.2	I
<i>Polygonum salicifolium</i>	tūtunāwai, swamp willow-weed	2	0	1	1	0	1	½	½	W			0.1	F
<i>Ranunculus macropus</i>	waoriki	0	2	1	½	0	½	½	½	W			0.5	
<i>Raoulia aff. hookeri</i> (=R. "Makara")	coastal mat daisy	1	0	0	1	½	1	0	½		S		0.1	
<i>Schoenoplectus tabernaemontani</i>	kāpungawhā, lake clubrush	2	0	1	½	0	1	0	½	W			2	I
<i>Senecio glomeratus</i>	woolly fire daisy	1	0	0	1	1	1	0	½				0.8	
<i>Spinifex sericeus</i>	kōwhangatara, spinifex	2	0	0	1	1	1	0	½		S		0.5	I
<i>Tetragonia tetragonioides</i>	New Zealand spinach	2	0	0	½	1	1	½	0				0.3	B
<i>Typha orientalis</i>	raupō	2	0	1	½	0	1	0	1	W			3	