TASMAN ESTUARIES AND RIVER MOUTHS ECOSYSTEM NATIVE PLANT RESTORATION LIST

	The high tide fringes of extensive intertidal areas between Richmond and Riwaka, all of
Locality	
Locality:	which are associated with river mouths and inlets. These include Waimea and Moutere
	Inlets and their river mouth deltas, and the major Motueka-Riwaka Rivers delta system.
Topography:	Tidal flats, low relief islets, deltas and margins of coastal terraces around mean high tide.
Topography:	Usually part of an inlet enclosed by a coastal spit or barrier island and fed by a river.
	Sandy mud and organic matter from river deposits and estuarine vegetation. Pebbles and
Soils and Geology:	cobbles either sub-surface or scattered over substrate. Highly saline, infertile and
	anaerobic with iron and sulphur staining. High-shore flats have greater amounts of
	cobbles, pebbles and rafted organic matter and are also drought-prone in summer.
Climate:	High sunshine hours; frosts mild; mild annual temperatures; rainfall 920mm.
	Entirely coastal. Tidal and saline influences of seawater are profound and are the most
	dominant influences on the ecosystem. Lower estuarine zone inundated by seawater on
Coastal influence:	all but neap tides. High shore flats of the upper estuarine zone inundated only on spring
	tides. Salt water may wedge up rivers for many metres creating a brackish wetland
	environment around river mouths.
	Salt marsh shrublands, rushlands, sedgelands and succulent herbfields. Brackish sedge
Original Vegetation:	
Original Vegetation.	coastal forest.
	Extensive reclamation, especially around the Motueka and Waimea River deltas, has
Human Modification	· · · · · · · · · · · · · · · · · · ·
	freshwater and saltwater hydrologies, and coastal processes.

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

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PLANTING RATIO	PLANT PREFERENCES	TYPE OF FOOD PROVIDED FOR BIRDS AND LIZARDS					
Early Stage plants are able to	Wet, Moist, Dry, Sun, Shade, Frost, Saline						
establish in open sites and can act		F = Fruit/seeds					
as a nursery for later stage plants by	1 = prefers or tolerates						
providing initial cover.	½ = prefers or tolerates some	N = Nectar					
Later Stage plants need cover to	0 = intolerant of						
establish.		B = Buds/foliage					
	Plant in habitat type:						
2 = plant commonly		I = Insects					
1 = plant less commonly	U = best suited to upper estuarine zone						
0 = not suitable to plant at this stage	L = best suited to lower estuarine zone						
	B = best suited to brackish wetland						

PLANT SPECIES FOR TASMAN ESTUARIES AND RIVER MOUTHS ECOSYSTEM		TAGE	STAGE	PLANT PREFERENCES												
Botanical Names	Māori & Common Names	PLANTING RATIO - EARLY S	ANTING RATIO - EARLY	PLANTING RATIO - LATER S'	Wet	Moist	Dry	Sun	Shade	Frost	Saline	Upper Estuarine Zone	Lower Estuarine Zone	Brackish Wetland	Maximum Height (metres)	Food Type
SHRUBS & CLIMBERS																
Coprosma propinqua	mikimiki	2	1	1	1	1	1	0	1	1/2	U			3	F	
Leptospermum scoparium	mānuka	2	0	1	1	1	1	0	1	1/2	U			4	NI	
Plagianthus divaricatus	mākaka, coastal ribbonwood	2	0	1/2	1	1	1	0	1	1/2	U			1.5		
Muehlenbeckia complexa	scrambling pōhuehue	2	0	0	1/2	1	1	0	1	1/2	U			2	FBI	

Prepared by Shannel Courtney for Tasman District Council, June 2004 Last update: July 2008 $\,$

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Botanical Names	Māori & Common Names	PLANTING RATIO - EARLY STAGE	RATIO -	PLANTING RATIO - LATER ST	Wet	Moist	Dry	Sun	Shade	Frost	Saline	Upper Estuarine Zone	Lower Estuarine Zone	Brackish Wetland	Maximum Height (metres)	Food Type
GRASSES, SEDGES & GROUND COVERS																
Apium prostratum ssp. prostratum	sea celery	0	1	0	1	1/2	1	1/2	1/2	1/2	U			0.1		
Apodasmia similis (=Leptocarpus)	oioi, jointed rush	2	0	1/2	1	0	1	0	1/2	1/2	U		В	1.5	1	
Atriplex cinerea	grey salt bush	2	0	0	1	0	1	0	1	1/2	U			1		
Austrostipa stipoides	estuary needle tussock	2	0	1/2	1	1	1	0	1/2	1/2	U	L		1	1	
Bolboschoenus caldwellii	pūrua grass	2	0	1	1/2	0	1	0	1/2	1/2			В	1	1	
Carex flagellifera	whip sedge	2	0	1/2	1	1/2	1	0	1/2	1/2	U			0.5		
Carex litorosa	delta sedge	2	0	1	1	0	1	0	1/2	1/2	U	L		0.7		
Centella uniflora	centella	0	1	1	1	1/2	1	1/2	1/2	1/2	U		В	0.1		
Chenopodium glaucum var. ambiguum	hua inanga	0	1	1/2	1	1	1	0	1/2	1/2	U	L		0.1	В	
Cotula coronopifolia	bachelors button	0	2	1/2	1/2	0	1	0	1/2	1/2			В	0.1		
Cyperus ustulatus	upoko tangata	2	0	1/2	1	1/2	1	0	1/2	1/2			В	1	F	
Ficinia nodosa (= Isolepis nodosa)	knot sedge	2	0	0	1/2	1	1	0	1/2	1/2	U	L		1		
Juncus kraussii ssp. australiensis	sea rush	2	0	1	1	0	1	0	1/2	1	U	L		1	- 1	
Lachnagrostis billardierei	wind grass	1	0	0	1/2	1	1	0	1/2	1/2	U			0.5		
Leptinella dioica	coastal button	0	2	1/2	1	1/2	1	1/2	1/2	1/2	U			0.1	- 1	
Lobelia anceps	shore lobelia	0	1	1/2	1	1	1	1/2	0	1/2	U			2		
Mimulus repens	native musk	0	2	1	1	0	1	0	1/2	1/2			В	0.1		
Samolus repens	sea primrose	0	2	1/2	1	1/2	1	0	1/2	1	J	L		0.1		
Sarcocornia quinqueflora	glasswort	2	0	1	1/2	0	1	0	1/2	1		L		0.1		
Schoenoplectus pungens	three square	2	0	1	1/2	0	1	0	1	1	U	L		8.0		
Schoenoplectus tabernaemontani	kāpungawhā, lake clubrush	2	0	1	1/2	0	1	0	1/2	1/2			В	2	1	
Selliera radicans	remuremu	2	0	1/2	1	1	1	0	1/2	1	U			0.1		
Suaeda novae-zelandiae	sea blite	2	0	1	1/2	0	1	0	1/2	1		L		0.1		
Tetragonia tetragonioides	New Zealand spinach	2	0	0	1/2	1	1	1/2	0	1/2	U			0.3	В	
Typha orientalis	raupō	2	0	1	1/2	0	1	0	1	1/2			В	3		