

MURCHISON PLAINS & TERRACES ECOSYSTEM NATIVE PLANT RESTORATION LIST

Locality:	Valley floors and extensive plains of the Murchison basin associated with the Buller River and the lower reaches of the Matakītaki and Matiri Rivers.
Topography:	Flat to gently undulating flood-plains, low terraces and fans.
Soils and Geology:	Well-drained, moderately fertile, alluvial sandy and silty loams. Stoniness is variable and increases with depth. Derived from greywackes and granites. Low-lying areas are flood-prone. Not drought-prone.
Climate:	Moderate annual temperature range due to inland location. Warm summers. Frosts only moderate despite frequent cold air ponding, ameliorated by high number of fog days. Rainfall 1600mm.
Coastal influence:	None.
Original Vegetation:	Podocarp - mixed beech forest on high terraces and mixed podocarp-broadleaf-beech forests on floodplains. Wetlands in flood-plain channels, low-lying flats and depressions. Possibly frost flat shrublands on the frostiest sites.
Human Modification:	A few very small and scattered forest and treeland patches remaining. Hydrology altered in places by drainage and river channelisation. Some lower terraces mined for alluvial gold.

[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>F = flood plains and low terraces R = river banks (riparian) S = frost-flat shrublands W = freshwater wetlands</p>	<p>F = Fruit/seeds N = Nectar B = Buds/foilage I = Insects</p>

PLANT SPECIES FOR MURCHISON PLAINS & TERRACES 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	Flood Plains & Low Terraces mostly	River Banks only	Frost Flat Shrublands			Freshwater Wetland
TREES															
Aristotelia serrata	makomako, wineberry	1	2	½	1	0	0	1	½					10	FBI
Brachyglottis hectorii	large-leaved tree-daisy	0	1	0	1	0	½	1	½	P				4	I
Carpodetus serratus	putaputāwētā, marbleleaf	1	2	1	1	0	1	½	1					10	FBI
Coprosma grandifolia	raurekau	0	2	½	1	0	½	1	½	P				6	FB
Coprosma linariifolia	yellow-wood	1	2	0	1	½	1	1	½		R			6	F
Coprosma lucida	shining karamū	1	1	0	1	1	1	½	½		R			6	F
Coprosma robusta	karamū	1	1	½	1	1	1	½	½					6	F

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Botanical Names	Māori & Common Names			Wet	Moist	Dry	Sun	Shade	Frost	Flood Plains & Low Terraces mostly	River Banks only	Frost Flat Shrublands	Freshwater Wetland		
Coprosma rotundifolia	hairy coprosma	1	2	½	1	0	½	1	1				5	FB	
Coprosma wallii	bloodwood	2	1	½	1	½	1	½	1		S		4	FI	
Cordyline australis	tī kouka, cabbage tree	2	0	1	1	1	1	0	1	P		W	12	FNI	
Cordyline banksii	tī ngahere	0	1	½	1	1	1	½	½		R		4	FN	
Coriaria arborea	tree tutu	1	0	½	1	1	1	0	½				6	F	
Cyathea smithii	kātote, soft treefern	0	2	½	1	0	0	1	½				7	I	
Dacrycarpus dacrydioides	kāhikatea	1	2	1	1	0	½	½	1			W	60	FI	
Dicksonia fibrosa	whēki ponga	0	2	½	1	0	½	1	1	P			6	I	
Discaria toumatou	tūmatakuru, matagouri	2	0	0	½	1	1	0	1		S		4	I	
Elaeocarpus hookerianus	pōkākā	2	1	1	1	0	½	½	1				12	FI	
Fuchsia excorticata	kōtukutuku, tree fuchsia	1	2	½	1	0	½	1	½				10	FNBI	
Griselinia littoralis	papauma, broadleaf	2	2	0	1	1	1	1	1				12	FBI	
Hoheria angustifolia	narrow-leaved lacebark	2	1	½	1	1	1	0	1	P			10	FI	
Hoheria ovata	NW Nelson lacebark	1	1	½	1	1	1	½	1	P			10	FI	
Kunzea ericoides	kānuka	2	0	0	½	1	1	0	1		S		15	NI	
Leptospermum scoparium	mānuka	1	0	1	1	1	1	0	1			W	8	NI	
Lophomyrtus obcordata	rōhutu	0	1	½	1	1	1	1	½	P			8	FI	
Melicope simplex	poataniwha	0	1	0	1	1	1	1	½	P			5		
Melicytus lanceolatus	māhoe wao, narrow-leaved māhoe	0	1	½	1	0	½	½	1	P			6	F	
Melicytus ramiflorus	māhoe, whiteywood	0	1	½	1	1	½	1	½	P			10	FBI	
Myrsine australis	māpou	0	1	0	1	1	1	½	1				8	FI	
Myrsine divaricata	weeping māpou	2	1	1	1	1	½	1	1		S		4	F	
Neomyrtus pedunculata	rōhutu	1	1	1	1	0	½	1	1				6	F	
Nothofagus fusca	red beech	2	2	0	1	0	½	½	1				30	FNI	
Nothofagus menziesii	silver beech	2	2	1	1	1	½	½	1				30	F	
Nothofagus solandri var. solandri	black beech	2	2	0	1	1	1	½	1				25	FNI	
Olearia hectorii	leafless tree daisy	2	0	½	1	0	1	0	1	P			6	I	
Pennantia corymbosa	kaikōmako	1	2	1	1	1	1	1	1	P			12	FNBI	
Pittosporum eugenioides	tarata, lemonwood	2	1	½	1	1	1	½	1	P			12	FI	
Pittosporum tenuifolium	kōhūhū	2	0	0	1	1	1	½	1				9	FBI	
Plagianthus regius	manatū, lowland ribbonwood	2	1	½	1	1	1	0	1	P			15	FBI	
Podocarpus totara	tōtara	1	2	0	1	1	1	½	1	P			30	FBI	
Prumnopitys taxifolia	matai	1	2	0	1	1	1	½	1				25	FI	
Pseudopanax colensoi	mountain five-finger	0	1	½	1	0	½	1	1				5	FNBI	
Pseudopanax crassifolius	horoeaka, lancewood	2	2	½	1	1	1	1	1				10	FNI	
Pseudowintera colorata	horopito	1	1	1	1	0	½	1	1				6	F	
Schefflera digitata	patē, seven-finger	0	1	½	1	0	½	1	½				8	FBI	
Sophora microphylla	kōwhai	2	1	0	½	1	1	½	1	P			10	NBI	
Prumnopitys ferruginea	miro	0	1	½	1	0	½	½	1				25	FI	
Streblus heterophyllus	milkwood	0	1	0	1	1	½	½	½	P			10	FB	
SHRUBS															
Alseuosmia pusilla	toropapa	0	1	½	1	0	0	1	½	P			1	FN	

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Botanical Names	Māori & Common Names			Wet	Moist	Dry	Sun	Shade	Frost	Flood Plains & Low Terraces mostly	River Banks only	Frost Flat Shrublands	Freshwater Wetland		
<i>Aristotelia fruticosa</i>	mountain wineberry	2	1	0	1	1	1	½	1			S		2	F
<i>Carmichaelia australis</i> var. "flagelliformis"	whip broom	2	1	½	1	1	1	½	1		R			2	NB
<i>Carmichaelia odorata</i> var. "angustata"	large-leaved broom	1	1	1	1	½	1	½	1		R			2	NB
<i>Coprosma foetidissima</i>	hūpiro, stinkwood	1	2	1	1	0	½	1	1					3	FB
<i>Coprosma obconica</i>	base coprosma	2	1	½	1	1	½	½	1	P		S		2	F
<i>Coprosma propinqua</i> ssp. <i>propinqua</i>	mikimiki	2	0	1	1	1	1	0	1			S		5	F
<i>Coprosma rhamnoides</i>	bucks-horn coprosma	0	1	0	½	1	1	½	1					2	F
<i>Coprosma rigida</i>	streamside coprosma	2	1	½	1	½	1	½	1		R	S		3	F
<i>Coprosma rubra</i>	lacy coprosma	2	1	½	1	½	1	½	1	P				4	FB
<i>Coprosma rugosa</i>	wiry coprosma	2	0	½	1	1	1	0	1	P	R			2	F
<i>Coprosma tayloriae</i>	tier coprosma	2	1	1	1	1	1	½	1			S		2	F
<i>Coriaria sarmentosa</i>	shrub tutu	2	0	½	1	0	1	½	1					1	FN
<i>Corokia cotoneaster</i>	korokio	2	0	0	½	1	1	½	1		R	S		2	FI
<i>Gaultheria rupestris</i>	bank heath	1	1	0	½	1	1	½	1		R			2	
<i>Hebe leiophylla</i> (= <i>H. gracillima</i>)	arching koromiko	1	0	½	1	½	½	½	1		R			2	
<i>Hebe salicifolia</i>	South Island koromiko	2	0	½	1	0	1	½	1		R			2	NBI
<i>Hebe stenophylla</i> var. <i>stenophylla</i>	narrow-leaved hebe	2	0	0	½	1	1	½	1		R			2	NI
<i>Meliccytus flexuosus</i>	leafless māhoe	1	2	0	1	½	1	½	1			S		3	FI
<i>Olearia avicenniifolia</i>	grey tree daisy	1	0	0	½	1	1	0	1		R			4	I
<i>Olearia virgata</i>	small-leaved shrub daisy	2	0	0	1	1	1	0	1			S		3	I
<i>Pittosporum divaricatum</i>	wiry kōhūhū	1	1	0	1	1	1	½	1			S		2	
<i>Podocarpus acutifolius</i>	needle-leaved tōtara	2	0	0	1	½	1	0	1			S		5	FI
<i>Raukaua anomalus</i>	stout netting bush	2	1	½	1	½	½	1	1					2	FN
<i>Teucrium parvifolium</i>	native germander	1	2	0	1	1	½	½	½	P				1	
CLIMBERS															
<i>Clematis forsteri</i>	scrub clematis	0	1	0	1	½	1	0	1			S		5	I
<i>Clematis paniculata</i>	puawānanga, bush clematis	0	1	0	1	0	½	½	½					7	
<i>Fuchsia perscandens</i>	scrambling fuchsia	0	1	½	1	0	½	½	½	P				2	FNBI
<i>Metrosideros diffusa</i>	rātā vine	0	1	½	1	0	½	1	½	P				10	N
<i>Parsonsia heterophylla</i>	native jasmine	0	1	½	1	1	1	1	½					6	
<i>Rubus australis</i>	swamp lawyer	0	1	1	1	0	1	½	1	P				5	F
<i>Rubus cissoides</i>	bush lawyer	0	1	½	1	½	½	1	½					10	F
<i>Rubus schmidelioides</i>	shrub lawyer	0	1	0	1	1	1	½	1			S		5	F
GRASSES, SEDGES & GROUND COVERS															
<i>Acaena anserinifolia</i>	pipiri, bidibid	0	1	½	1	1	1	½	1					0.2	
<i>Asplenium bulbiferum</i>	mauku, hen and chicken fern	0	2	½	1	0	0	1	½	P				0.5	B
<i>Astelia fragrans</i>	ground lily	0	2	0	1	0	½	1	½					1.5	F
<i>Blechnum discolor</i>	piupiu crown fern	0	2	0	1	½	½	1	½					0.5	I
<i>Blechnum fluviatile</i>	kiwakiwa, creek fern	0	2	½	1	0	0	1	1					0.5	
<i>Blechnum minus</i>	swamp kiokio	1	2	1	1	0	1	½	1			W		0.5	

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<i>Blechnum novae-zelandiae</i>	kiokio	2	2	1	1	1	½	1	1			R			2	I
<i>Blechnum penna-marina</i>	little hardfern	0	1	1	1	½	½	½	1						0.2	
<i>Blechnum procerum</i>	beech hardfern	0	2	0	1	1	0	1	1						0.5	
<i>Carex cockayneana</i>	bush sedge	0	1	½	1	0	1	½	1						1	
<i>Carex comans</i>	maurea	2	0	0	1	1	1	0	1						0.3	
<i>Carex coriacea</i>	rautahi	2	0	1	1	0	1	0	1	P					0.5	
<i>Carex diandra</i>	peat sedge	1	2	1	0	0	1	0	1					W	1	
<i>Carex dissita</i>	backwater sedge	0	1	1	1	0	½	½	1					W	0.5	
<i>Carex "forest"</i>	glade sedge	0	2	1	1	0	1	½	1					W	1	
<i>Carex maorica</i>	Māori sedge	1	0	1	½	0	1	0	1					W	1	
<i>Carex secta</i>	pūrei	2	1	1	½	0	1	½	1					W	2	I
<i>Carex sinclairii</i>	sward sedge	0	2	1	0	0	1	0	1					W	0.5	
<i>Carex tenuiculmis</i>	red swamp tussock	2	1	1	1	0	1	½	1					W	1	
<i>Carex virgata</i>	pukio	2	1	1	½	0	1	½	1					W	1.5	I
<i>Chionochloa conspicua</i>	hunangāmoho, streambank snow-tussock	1	1	½	1	0	1	½	1			R			2	I
<i>Cortaderia richardii</i>	South Island toetoe	2	0	1	1	1	1	0	1					W	3	I
<i>Dianella nigra</i>	tūrutu, blueberry	0	1	0	1	1	1	½	½						0.3	F
<i>Eleocharis acuta</i>	spike rush	1	0	1	½	0	1	½	1					W	1	
<i>Hypolepis ambigua</i>	hypolepis	1	0	½	1	0	1	½	1						1	
<i>Juncus australis</i>	wiwi	2	0	½	1	0	1	0	1						1	
<i>Juncus edgariae</i>	wiwi	2	0	½	1	0	1	0	1						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						0.7	
<i>Juncus sarophorus</i>	blue wiwi	2	0	½	1	0	1	0	1						1	
<i>Libertia ixioides</i>	native iris	1	1	0	1	½	½	½	½	P					0.3	
<i>Microlaena avenacea</i>	bush ricegrass	0	2	½	1	½	½	1	1						0.5	
<i>Microsorium pustulatum</i>	hounds tongue fern	0	1	0	1	1	½	1	½	P					0.2	B
<i>Paesia scaberula</i>	mātātā, scented fern	2	0	0	1	1	1	0	1						0.3	
<i>Phormium cookianum</i>	wharariki, coastal flax	2	0	0	1	1	1	0	1			R			1.5	N
<i>Phormium tenax</i>	harakeke, swamp flax	2	0	1	1	½	1	0	1					W	2	N
<i>Pneumatopteris pennigera</i>	pākau, gully fern	0	2	0	1	0	0	1	½	P					1	I
<i>Polystichum vestitum</i>	prickly shield fern	1	2	½	1	0	½	1	1				S		1	I
<i>Typha orientalis</i>	raupō	2	0	1	½	0	1	0	1					W	3	
<i>Uncinia ferruginea</i>	fierce hookgrass	0	2	½	1	0	½	1	1						0.5	
<i>Uncinia strictissima</i>	rush sedge	1	2	½	1	0	1	½	1					W	0.5	
<i>Uncinia uncinata</i>	hookgrass	0	2	½	1	½	½	1	1						0.5	