

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 Matakītiki 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

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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 robusta	karamū	1	1	½	1	1	1	½	½					6	F
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 eugenoides	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	mataī	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

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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		
SHRUBS															
<i>Alseuosmia pusilla</i>	toropapa	0	1	½	1	0	0	1	½	P				1	FN
<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>Raukawa 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>	piripiri, 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

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