

Higher plants of lower Waimarino River terraces, and middle valley (part of Waiotaka Ecological Area and Kaimanawa Forest Park, NZMS 260 T19 650383 to 688338).

Nicholas Singers, 11 December 1999 surveyed the lower Waimarino River terraces and 1–3 April surveyed the middle river valley. The species list is for the area high-lighted below.

Vegetation Description

- Rimu (matai – miro) / kamahi / mahoe / katote – ponga on river terraces and hill slopes.
- Red beech (rimu – miro – matai) / kamahi / horopito – *Neomyrtus pedunculatus* – *Coprosma microcarpa* – ponga – katote / crown fern on river terrace and hill slopes.
- Blackbeech – red beech – kamahi / mingimingi – *Coprosma microcarpa* / crownfern – kidney fern on steep ridges.
- Red beech (30m) / kamahi / horopito / crown fern (*Dicksonia lanata*) on middle valley ridges and side slopes
- Red beech / kamahi – toatoa / soft mingimingi – *Coprosma microcarpa* on middle valley prominent ridges
- *Dracophyllum strictum* – manuka – *Gaultheria* species on pumice cliffs next to the Waimarino River.

Abundance Key

Species abundance was quantified subjectively using the following abundance key.

r = rare

u = uncommon

l = local

o = occasional

c = common, also lc = locally common

a = abundant, also la = locally abundant

* = exotic/adventive species

Gymnosperm Trees

<i>Dacrycarpus dacrydioides</i> ¹	kahikatea	r
<i>Dacrydium cupressinum</i>	rimu	a
<i>Phyllocladus toatoa</i>	toatoa	l
<i>Podocarpus hallii</i>	Hall's totara	c
<i>Podocarpus totara</i>	totara	r
<i>Prumnopitys ferruginea</i>	miro	c
<i>Prumnopitys taxifolia</i>	matai	c

Monocot Trees

<i>Cordyline australis</i>	cabbage tree	o
<i>Cordyline banksii</i>	forest cabbage tree	lc
<i>Cordyline indivisa</i>	mounatin cabbage tree	o

¹ Kahikatea is rare, two trees were noted one on a boggy ox-bow and another on the higher river terrace.

Dicot Trees

<i>Aristotelia serrata</i>	wineberry, makomako	c
<i>Carpodetus serratus</i>	putaputaweta	c
<i>Griselinia littoralis</i>	broadleaf	o
<i>Elaeocarpus hookerianus</i>	pokaka	o
<i>Fuchsia excorticata</i>	kotukutuku	u
<i>Kunzea ericoides</i>	kanuka	lc
<i>Melicytus ramiflorus</i> subsp. <i>ramiflorus</i>	mahoe	c
<i>Nestegis cunninghamii</i>	black maire	o
<i>Nothofagus fusca</i>	red beech	a
<i>Nothofagus menziesii</i>	silver beech	r
<i>Nothofagus solandri</i> var. <i>solandri</i>	black beech	l
<i>Pennantia corymbosa</i>	kaikomako	o
<i>Pittosporum eugenioides</i>	lemonwood	o
<i>Pseudopanax arboreus</i>	fivefinger	l
<i>Pseudopanax crassifolius</i>	lancewood	c
<i>Raukaua simplex</i>	three-finger	l
<i>Schefflera digitata</i>	pate	u
* <i>Salix cinerea</i>	grey willow	r
<i>Weinmannia racemosa</i>	kamahi	a

Dicot shrubs

<i>Brachyglottis repanda</i>	rangiora	o
* <i>Buddleja davidii</i>	buddleia	l
<i>Carmichaelia australis</i>	N.Z broom	l
<i>Coprosma depressa</i>		u
<i>Coprosma grandifolia</i>	kaono	o
<i>Coprosma foetidissima</i>	stinkwood	o
<i>Coprosma lucida</i>	shining karamu	c
<i>Coprosma microcarpa</i>	small seeded coprosma	c
<i>Coprosma robusta</i>	karamu	l
<i>Coprosma robusta</i> X <i>C. propinqua</i>		r
<i>Coprosma rugosa</i>		lc
<i>Coprosma</i> sp. t: " <i>taylorae</i> " (Eagle, 1982)	divaricating coprosma	c
<i>Coprosma tenuifolia</i>	wavy leafed karamu	c
<i>Coprosma rhamnoides</i>	divaricating coprosma	o
<i>Coriaria arborea</i>	tutu	lc
<i>Cyathodes juniperina</i>	prickly mingimingi	c
<i>Dracophyllum strictum</i>		la
* <i>Erica lusitanica</i> ²	Spanish heath	lc
<i>Gaultheria antipoda</i>	snowberry	o
<i>Gaultheria depressa</i>	prostrate snowberry	l
<i>Gaultheria oppositifolia</i>		l
<i>Gaultheria paniculata</i>		l
<i>Hebe stricta</i>	koromiko	o
<i>Hebe venustula</i>		u

² Locally common on dry river gravels and pumice cliffs with manuka etc.

<i>*Leycesteria formosa</i>	Himalyalan honeysuckle	o
<i>Leptospermum scoparium</i>	manuka	l
<i>Leucopogon fasciculatus</i>	mingimingi	l
<i>Myrsine australis</i>	mapou	
<i>Neomyrtus pedunculatus</i>	rohutu	a
<i>Olearia arborescens</i>	tree daisy	u
<i>Olearia ilicifolia</i>	mountain holly	r
<i>Pseudowintera colorata</i>	horopito	a
<i>Schefflera digitata</i>	pate	u
<i>*Teline monspessulana</i>	Montpellier broom	u
<i>*Ulex europaeus</i>	gorse	u
<i>Urtica ferox</i>	ongaonga	o

Dicot liannes

<i>Clematis paniculata</i>	white clematis	o
<i>Metrosideros diffusa</i>	climbing rata	o
<i>Rubus cissoides</i>	bush lawyer	c

Ferns fern allies and mosses

<i>Asplenium bulbiferum subsp. bulbiferum</i>	hen and chicken fern	o
<i>Asplenium colensoi</i>		l
<i>Asplenium flaccidum</i>	hanging spleenwort	c
<i>Asplenium hookerianum</i>	perching spleenwort	l
<i>Asplenium polyodon</i>	sickle leaved spleenwort	lc
<i>Blechnum chambersii</i>		c
<i>Blechnum colensoi</i>		
<i>Blechnum fluviatile</i>	kiwakiwa	c
<i>Blechnum montanum</i>	mountain kiokio	
<i>Blechnum novae-zelandiae</i>	kiokio	c
<i>Blechnum vulcanicum</i>	mountain hard fern	o
<i>Ctenopteris heterophylla</i>	comb fern	u
<i>Cyathea dealbata</i>	silver fern	a
<i>Cyathea medullaris</i>	mamaku	l
<i>Cyathea smithii</i>	katote	a
<i>Deparia petersenii</i>		u
<i>Dicksonia fibrosa</i>	wheki ponga	o
<i>Dicksonia lanata</i>	stumpy tree fern	lc
<i>Dicksonia squarrosa</i>	wheki	o
<i>Grammitis billardierii</i>		o
<i>Histiopteris incisa</i>	water fern	o
<i>Hymenophyllum demissum</i>	irirangi, filmy fern	c
<i>Hymenophyllum dilatatum</i>	filmy fern	o
<i>Hymenophyllum multifidum</i>	filmy fern	a
<i>Lastreopsis glabella</i>	smooth sheild fern	o
<i>Lastreopsis hispida</i>	hairy fern	u
<i>Leptopteris hymenophylloides</i>	crepe fern	c
<i>Lycopodium varium</i>	clubmoss	l
<i>Lycopodium volubile</i>	clubmoss	o

<i>Phymatosorus pustulatus</i>	hounds tongue fern	a
<i>Pneumatopteris pennigera</i>	feather fern	l
<i>Polystichum vestitum</i>	prickly sheild fern	c
<i>Pyrrosia eleagnifolia</i>	leather leaf fern	c
<i>Sphagnum cristatum</i>	sphagnum	
<i>Sticherus cunninghamii</i>	umbrella fern	l
<i>Trichomanes reniforme</i>	kidney fern	c

Orchids

<i>Corybas trilobus</i>	spider orchid	c
<i>Earina autumnalis</i>	Easter orchid	c
<i>Earina mucronata</i>	bamboo orchid	c
<i>Pterostylis australis</i>	green hooded orchid	u
<i>Winika cunninghamii</i>	winika	u

Grasses

* <i>Agrostis capillaris</i>	brown top	l
* <i>Anthoxanthum odoratum</i>	sweet vernal	u
<i>Cortaderia fulvida</i>	toetoe	c
<i>Deyeuxia avenacea</i>	mountain oatgrass	
<i>Dichelachne crinata</i>	plume grass	l
<i>Festuca</i> spp.	fescue	u
* <i>Holcus lanatus</i>	Yorkshire fog grass	o
<i>Lachnagrostis elata</i>	tumble grass	
<i>Lachnagrostis filiformis</i>	windgrass	l
<i>Microlaena avenacea</i>	bush rice grass	a
<i>Microlaena stipoides</i>	meadow rice grass	u
<i>Poa anceps</i>	broad-leaved poa	l
<i>Poa breviglumis</i>		u
<i>Rytidosperma gracile</i>		lc
<i>Trisetum</i> spp.		lc

Sedges and rushes

<i>Carex dissita</i>	carex	u
<i>Carex lambertiana</i>	carex	u
<i>Carex secta</i>	niggerhead, purei	l
<i>Gahnia procera</i>	gahnia	u
<i>Isolepis</i> spp.		l
<i>Juncus gregiflorus</i>	rush	u
* <i>Juncus prismatocarpus</i>	rush	u
* <i>Juncus tenuis</i>	track rush	u
<i>Morelotia affinis</i>		u
<i>Luzula picta</i>	wood rush	l
<i>Uncinia gracilentata</i>	hook grass	o
<i>Uncinia uncinata</i>	hook grass	o

Monocot herbs other than grasses, sedges, rushes

<i>Astelia fragrans</i>	bush lily	c
<i>Astelia solandri</i>	pearching lily	o
<i>Collospermum microspermum</i>	pearching lily	c
<i>Dianella nigra</i>	turutu, blueberry	o
<i>Potamogeton cheesemanii</i>	red pondweed	l

Composite herbs

<i>Acaena anserinifolia</i>	bidibidi	o
<i>Anaphalioides bellidioides</i>	Hell's bells	l
<i>Anaphalioides trinervis</i>		l
* <i>Cirsium vulgare</i>	Scotch thistle	u
* <i>Conyza albida</i>	Canadian fleabane	u
* <i>Crepis capillaris</i>	smooth hawksbeard	o
<i>Craspedia uniflora</i> subsp. <i>uniflora</i>	woolly head	l
<i>Hieracium pilosella</i>	mouse-ear hawk weed	o
* <i>Hypochoeris radicata</i>	catsear	o
* <i>Lactuca serriola</i>	prickly lettuce	u
<i>Lagenifera pumila</i>	papataniwhaniwha	o
<i>Lagenifera strangulata</i>	parani	l
* <i>Leonotodon taraxacoides</i>	hawkbit	u
* <i>Mycelis muralis</i>	wall lettuce	o
<i>Raoulia australis</i>	scabweed	l
<i>Raoulia glabra</i>	scabweed	l
<i>Raoulia tenuicaulis</i>	scabweed	l
<i>Scleranthus biflorus</i>	Irish moss	l
* <i>Senecio bipinnatisectus</i>	Australian fireweed	o
* <i>Senecio jacobaea</i>	ragwort	lc
<i>Senecio wairauensis</i>	fireweed	u
<i>Vittadinia australis</i> ³	white fuzz weed	u

Dicot herbs

<i>Anisotome aromatica</i>	native carrot	l
<i>Cardamine debilis</i> agg.	land cress	o
* <i>Centaureum erythraea</i>	centaury	l
* <i>Cerastium fontanum</i>	mouse-eared chickweed	u
<i>Coriaria pteridoides</i>	feathery tutu	l
<i>Epilobium brunnescens</i>	willow herb	o
<i>Epilobium pedunculare</i>	willow herb	u
<i>Epilobium pubens</i>	willow herb	l
<i>Epilobium rotundifolium</i>	willow herb	l
<i>Geranium microphyllum</i>	small leaved cransbill	u
<i>Gunnera densiflora</i>		
<i>Hydrocotyle dissecta</i>	hydrocotyle	u
<i>Hydrocotyle heteromeria</i>	hydrocotyle	o

³ White fuzz weed is found on dry old river gravel's

<i>Hydrocotyle moschata</i>	hydrocotyle	u
* <i>Lotus pedunculatus</i>	lotus	u
<i>Myosotis forsteri</i>	for-get-me-not	r
<i>Nertera depressa</i>	nertera	o
<i>Nertera dichondrifolia</i>	nertera	o
<i>Oxalis magellanica</i>	creeping oxalis	o
* <i>Polygonum persicaria</i>	water pepper	u
<i>Pratia angulata</i>	pratia	l
* <i>Prunella vulgaris</i>	selfheal	l
<i>Ranunculus glabrifolius</i>	swamp buttercup	l
<i>Ranunculus reflexus</i>	bush buttercup	c
<i>Schizeilema</i> spp.		l
* <i>Stellaria alsine</i>	bog stichwort	u
* <i>Trifolium dubium</i>	suckling clover	u
<i>Urtica incisa</i>	bush nettle	c
<i>Viola filicaulis</i>	forest violet	l
<i>Viola lyallii</i>	New Zealand native violet	u
<i>Wahlenbergia gracilis</i>	slender harebell	u