

Wanganui Plant list 154 Rangitawa Stream Bush
Wanganui Plant List No 154

Vascular Plants of Rangitawa Stream Bush, Kakariki, Manawatu Plains Ecological Region
Map reference: NZMS250 S23 Marton; 27193E, 61167N (old concrete works site entrance)

C Ogle & J Howard (26 Nov 2002);

C Ogle, J Howard, A Dijkgraaf and 8 others of Wanganui Botanical Group (30 Nov. 2002)
 (Last updated C Ogle, 22 Forres Street, Wanganui, 1 Dec 2002, Nomenclature correction 10 Dec 2002)

Secondary forest on gravel river terraces, fragmented and understorey grazed; palatable shrubs mainly on terrace scarps and cliffs. Forest canopy dominated by kanuka with some totara; titoki and kowhai quite common in places. Flat terrace surfaces in pasture grasses or dominated by meadow rice-grass under partial shade; steep terrace scarps with ferns, shrubs and locally common bamboo rice-grass; very small damp areas at base of scarps (at the back of terraces).

Here but regionally uncommon species are bamboo ricegrass (*Microlaena polynoda*) and probably *Carex raoulii* and the unnamed *Pellaea* fern; several others have a rather patchy or local distribution in the region, including ribbonwood, *Libertia ixioides*, *Parietaria debilis*, leafless lawyer and, perhaps, *Australina pusilla*. The golden totara is of horticultural importance (see footnote #1).

The area has many weed species, the result of broken forest canopy, much edge habitat, the unstable stream bed and continued disturbance by stock. Urgent control needed of old man's beard (only 1 patch of mature vines, but numerous seedlings); because the following are aggressive weeds elsewhere but in only small amounts at Rangitawa Stream so far, it is desirable also to remove silver wattle, boxthorn, broom, barberry, hawthorn, elderberry, horsetail. Control of wandering jew is desirable but a huge job because it is widespread and abundant.

List includes species seen in pasture-dominated gaps in the forest and forest edges. Species found only in open places (pasture, gravel) indicated with 'p' under "Only in open sites?".

* denotes adventive species.

Plant abundances: a = abundant; c = common; o = occasional; u = uncommon; l = local (found in few places, but can be common or abundant in those places, hence la = locally abundant, etc.).

Formal name	Common name(s)	Abundance	Only in open sites?
<u>Gymnosperm Trees</u>			
<i>Dacrycarpus dacrydioides</i>	kahikatea	o	
<i>Podocarpus totara</i> s.s.	totara	c	
<i>Podocarpus acutifolia</i> x <i>P. totara</i>	golden totara ¹	2	
<i>Prumnopitys taxifolia</i>	matai	u	
<u>Dicot Trees and Shrubs</u>			
* <i>Acacia dealbata</i>	silver wattle	l	
<i>Alectryon excelsus</i>	titoki	c	
<i>Beilschmiedia tawa</i>	tawa	u	
* <i>Berberis glaucocarpa</i>	barberry	o	
<i>Brachyglottis repanda</i> s.s.	rangiora	lc	
<i>Carmichaelia australis</i>	NZ broom	l	
<i>Coprosma areolata</i>		o	

¹ This hybrid origin was determined by Dr Brian Molloy by flavenoid analysis for the 1 rather battered tree near shingle quarry (the source of much of the golden totara in cultivation); a 2nd golden totara was found further up Rangitawa Stream on 30.11.02 and its possible hybrid origin has not been proven. The tree near the quarry is male, the newly found tree is female.

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Formal name	Common name(s)	Abundance	Only in open sites?
<i>Coprosma crassifolia</i>		a	
<i>Coprosma rhamnoides</i>		c	
<i>Coprosma rigida</i>		o	
<i>Coprosma robusta</i>	karamu	2	
<i>Coprosma rotundifolia</i>		o	
* <i>Crataegus monogyna</i>	hawthorn	1	
* <i>Cytisus scoparius</i>	European broom	lc	
<i>Elaeocarpus dentatus</i>	hinau	1	
<i>Geniostoma rupestre</i> ssp. <i>ligustrifolium</i>	hangehange	u	
<i>Hebe stricta</i>	koromiko	u	
<i>Hoheria populnea</i> var. (<i>H. sexstylosa</i>)	lacebark, houhere	o	
* <i>Hypericum androsaemum</i>	tutsan	u	
<i>Knightia excelsa</i>	rewarewa	1	
<i>Kunzea ericoides</i> var.	kanuka	a	
* <i>Laburnum anagyroides</i>	laburnum	2 ²	
<i>Leptospermum scoparium</i>	manuka	lc	
* <i>Ligustrum ovalifolium</i>	privet	1	
<i>Lophomyrtus obcordata</i>	rohutu	2	
* <i>Lupinus arboreus</i>	tree lupin	lc	p
* <i>Lycium ferocissimum</i>	boxthorn	1	
<i>Macropiper excelsum</i>	kawakawa	c	
<i>Melicope simplex</i>	poataniwha	o	
<i>Melicytus ramiflorus</i> ssp. <i>ramiflorus</i>	mahoe	c	
<i>Myoporum laetum</i> var. <i>laetum</i>	ngaio	o	
<i>Myrsine australis</i>	mapou	u	
<i>Pennantia corymbosa</i>	kaikomako	c	
<i>Pittosporum tenuifolium</i> ssp. <i>tenuifolium</i>	kohuhu	o	
<i>Plagianthus regius</i>	ribbonwood	2	
* <i>Prunus</i> sp.	plum?	1	
<i>Pseudopanax arboreus</i>	five-finger	1	
<i>Pseudopanax crassifolius</i>	lancewood, horoeka	o	
* <i>Rosa rubiginosa</i>	sweet brier	u	
* <i>Salix fragilis</i>	crack willow	la	
* <i>Sambucus nigra</i>	elderberry	u	
* <i>Solanum pseudocapsicum</i>	Jerusalem cherry	c	
<i>Sophora godleyi</i>	kowhai	o	
<i>Streblus heterophyllus</i>	small-leaved milktree	1	
* <i>Ulex europaeus</i>	gorse	la	
<u>Monocot Trees and Shrubs</u>			
<i>Cordyline australis</i>	cabbage tree, ti kouka	u	
<u>Dicot Lianes</u>			
<i>Calystegia sepium</i> agg.		o	
<i>Calystegia tuguriorum</i>		u?	
<i>Clematis foetida</i>		o (mostly juv.)	
<i>Clematis forsteri</i>		u	

² Shrub 2.5 m tall with much die-back, trunk 100 mm d.b.h.; + one 300 mm seedling (removed for herbarium)

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Formal name	Common name(s)	Abundance	Only in open sites?
* Clematis vitalba	old man's beard	la ³	
Metrosideros colensoi	white-flowered	u	
Muehlenbeckia australis	pohuehue	o	
Parsonia capsularis	NZ jasmine	l ⁴	
Parsonia heterophylla	NZ jasmine	o	
Passiflora tetrandra	native passionflower, kohia	o	
*Rubus fruticosus agg.	blackberry	o	
Rubus schmidelioides var. schmidelioides	lawyer	o	
Rubus squarrosus	leafless lawyer	u	
Rubus schmidelioides x R. squarrosus		o	
* Senecio mikanioides	German ivy	u	
<u>Ferns and fern allies</u>			
Adiantum cunninghamii	maidenhair fern	o	
Asplenium flabellifolium agg.	necklace fern	o	
Asplenium flaccidum	hanging spleenwort	u	
Asplenium gracillimum		c	
Asplenium hookerianum s.s.		a	
Asplenium oblongifolium	shining spleenwort	o	
Azolla filiculoides ssp. rubra	floating water fern	la	
Blechnum chambersii		lc	
Blechnum fluviatile		u	
Blechnum novae-zelandiae	kiokio	o	
Cyathea dealbata	ponga, silver fern	o	
Cyathea medullaris	mamaku	o	
Dicksonia fibrosa	wheki-ponga	lc	
Dicksonia squarrosa	wheki	lc	
Diplazium australe		u	
* Equisetum arvense	horsetail	u? ⁵	
Histiopteris incisa	water fern	u	
Hypolepis ambigua		a	
Lastreopsis glabella		u	
Microsorium pustulatum	hound's tongue, kowaowao	o	
Paesia scaberula	ring fern	lc	
Pellaea rotundifolia	button fern, tarawera	c	
Pellaea sp. (unnamed; aff. P. falcata/ P.rotundifolia)		c?	
Pneumatopteris pennigera		u	
Polystichum richardii	hard shield fern	c	
Pteridium esculentum	bracken	lc	
Pteris tremula	shaking brake, turawera	o	
Pyrrosia eleagnifolia	leather-leaf fern	lc	
<u>Orchids</u>			
Microtis unifolia	onion-leaved orchid	u	

³ Patch of huge vines into canopy at mouth of "Waterfall Gully" (Grid NZMS260 27195E 61164N); many seedlings nearby and scattered ones elsewhere.

⁴ Many seedlings and young vines could not be identified to species; only 1 adult *P. capsularis* seen

⁵ Only one patch seen, about a metre diameter, on main stream bank

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Grasses			
* <i>Agrostis capillaris</i>	browntop	c	
* <i>Agrostis stolonifera</i>	creeping bent	lc	
* <i>Aira caryophylla</i>	silvery hair grass	lc	p
* <i>Anthoxanthum odoratum</i>	sweet vernal	a	p
* <i>Briza minor</i>	shivery grass	lc	p
* <i>Bromus hordeaceus</i>	softbrome	lc	p
* <i>Catapodium rigidum</i>		lc	P
* <i>Cynosurus dactylon</i>	Indian doab	u	P
* <i>Dactylis glomerata</i>	crested dogtail	c	
* <i>Ehrharta erecta</i>	veld grass	u	
* <i>Festuca rubra</i> ssp. <i>commutata</i>	Chewings fescue	c	
* <i>Glyceria declinata</i>	floating sweet grass	lc	
* <i>Holcus lanatus</i>	Yorkshire fog	o	
* <i>Hordeum (Critesion) murinum</i>	barley grass	la	
* <i>Lolium perenne</i>	perennial rye grass	o	
<i>Microlaena polynoda</i>	bamboo rice-grass	la	
<i>Microlaena stipoides</i>	meadow rice-grass	a	
<i>Poa anceps</i>		u	
* <i>Poa pratensis</i>	Kentucky bluegrass	u?	p
* <i>Schedonorus phoenix</i>	tall fescue	o	p
* <i>Sporobolus africanus</i>	ratstail	lc	P
* <i>Vulpia bromoides</i>	vulpia hairgrass	la	p
Sedges			
* <i>Carex divulsa</i>		c	
<i>Carex flagellifera</i>		l	
<i>Carex forsteri</i>		l	
<i>Carex raoulii</i> s.s.		u	
<i>Carex virgata</i>		u	
<i>Carex</i> sp. (unidentified; young fl. heads; 3stigmas; 2-folded leaves; planted for later ID)			
* <i>Cyperus eragrostis</i>		o	
<i>Cyperus ustulatus</i>	mariscus	u	
<i>Uncinia laxiflora</i>	hook grass	c	
<i>Uncinia uncinata</i>	hook grass	u	
Rushes			
* <i>Juncus articulatus</i>	jointed-leaved rush	lc	
* <i>Juncus bufonius</i>	toad rush	u	
<i>Juncus edgarae</i> (= <i>J. gregiflorus</i> of NZ authors)		lc	p
* <i>Juncus effusus</i>	soft rush	o	p
* <i>Juncus</i> sp. (unidentified; tall species in Section <i>Poiophylli</i>)	u	p	
Monocot Herbs (other than Orchids, Grasses, Sedges, Rushes)			

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Lemna sp. (L. minor of NZ authors)	duckweed	la	
Libertia ixioides	native iris	u ⁶	
Phormium cookianum	mountain flax, wharariki		
* Tradescantia fluminensis	wandering Jew	la	
Composite Herbs			
* Arctium minus	burdock	o	
* Carduus pycnocephalus (?)	slender wing thistle	lc	p
* Cirsium vulgare	Scotch thistle	o	p
Euchiton gymnocephalus	NZ cudweed	o	
* Gnaphalium ?coarctatum	cudweed	o	p
* Hypochoeris radicata	catsear	c	p
* Lapsana communis	nipplewort	o	
* Matricaria dioscoidea	rayless chamomile	lc	p
* Mycelis muralis	wall lettuce	o	
Pseudognaphalium luteo-album agg.	cudweed	u	
* Senecio bipinnatisectus	fireweed	u	
* Senecio glastifolius	pink ragwort	l	
* Senecio jacobaea	ragwort	u	
Senecio rufiglandulosus		u	
Dicot Herbs (Other than Composites)			
* Acaena agnipila	sheeps burr	u	p
Acaena anserinifolia	bidibid; piripiri	u	
Australina pusilla		2	
* Callitriche stagnalis	starwort	lc	
* Cardamine pratensis	lady's smock	lc	
Cardamine sp. (C. debilis agg.;"Narrow Petal" of Pritchard 1957)	NZ bittercress	o	
* Conium maculatum	hemlock	u	
* Conyza albida	fleabane	o	
Epilobium insulare	willow-herb	u	
Epilobium nerteroides	willow-herb	u	
Epilobium rotundifolium	willow-herb	u	
* Erigeron karvinskianus	Mexican daisy	lc	
* Foeniculum vulgare	fennel	lc	p
* Galium palustre	marsh bedstraw	u	
* Galium divaricatum		lc	p
Geranium microphyllum		u	
* Geranium molle	soft dove's foot	o	
Hydrocotyle elongata		a	
Hydrocotyle heteromeria ?	wax weed	lc	
Hydrocotyle novae-seelandiae		u	
* Linum bienne	pale flax	o	p
* Lotus pedunculatus	lotus major	u	
* Lotus suaveolens	hairy lotus	lc	p
* Medicago lupulina	black medick	c	p

⁶ patch of about 6 plants, several with large capsules of *L. ixioides*

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* <i>Mentha pulegium</i>	pennyroyal	lc	
* <i>Modiola caroliniana</i>	creeping mallow	o	p
* <i>Myosotis laxa</i>	water forget-me-not	u	
* <i>Orobanche major</i>	broomrape	o	p
<i>Oxalis exilis</i>		o	
* <i>Parentucellia viscosa</i>	tarweed	lc	p
<i>Parietaria debilis</i>		lc	
* <i>Plantago lanceolata</i>	narrow-leaved plantain	o	p
* <i>Polygonum hydropiper</i>	water pepper	o	
* <i>Ranunculus acris</i>	giant buttercup	o	
* <i>Ranunculus repens</i>	creeping buttercup	lc	
* <i>Ranunculus parviflorus</i>	small-flowered buttercup	u	
<i>Ranunculus reflexus</i>	bush buttercup	u	
* <i>Rumex acetosella</i>	sorrel	u?	P
* <i>Salvia</i> sp. (unidentified)	?sage	lc	P
* <i>Silene gallica</i>	catchfly	la	p
* <i>Sisymbrium officinale</i>	hedge mustard	u	
* <i>Solanum chenopodioides</i>	velvety nightshade	o	
* <i>Solanum nigrum</i>	black nightshade	o	
* <i>Stellaria graminea</i>	stitchwort	o	
* <i>Stellaria media</i>	chickweed	u	
<i>Stellaria parviflora</i>	NZ chickweed	u	
* <i>Trifolium arvense</i>	hare's foot trefoil	o	p
* <i>Trifolium dubium</i>	suckling clover	o	P
* <i>Trifolium glomeratum</i>	clustered clover	lc	P
* <i>Trifolium pratense</i>	red clover	u	p
* <i>Trifolium repens</i>	white clover	c	
* <i>Urtica urens</i>	nettle	la	
* <i>Verbascum thapsus</i>	woolly mullein	l	
* <i>Vicia sativa</i>	vetch	o	
<i>Wahlenbergia rupestris</i>	white harebell	u	
TOTAL number of indigenous species =	108		
TOTAL number of exotic species =	95		