

MARINGIAWAI STREAM BUSH (2201A)

Topomap T27 & T28 320065 Alt 180-260m

Indigenous Vascular Plants

East Wa

Olaf John, Pat Enright 06/06/99

Pat Enright 12/06/99

Orchids on
base

unc = uncommon

Site description:

This site is in the Maungaraki range on Maori land leased by the McGregor family. It is on the true right of the Maringiawai stream in a steep sided valley that trends NW/SE. In the lower reaches the stream has cut deeply into the bedrock forming a number of waterfalls and deep pools. Further upstream the valley broadens a little with a flat valley floor. There is a swampy area on the flats downstream from the main bush area, and a small bush patch above it, that have been included in the survey. The bush is mainly on the true right of the stream and hence has a more shaded southerly aspect especially near the valley floor. The area is grazed by cattle with the consequent lack of herbs, ferns, sedges and grasses and tracking throughout

The bush remnant covers an area of approximately 15 hectares. Approaching from the west a narrow strip of bush grows along the stream where fencing to keep the cattle out of the deep streambed has afforded protection. This then broadens into tall kanuka (*Kunzea ericoides*), which continues in a broad belt up and around the hill to the head of the remnant. This is probably induced by the amount of sun that reaches this area with the kanuka giving way to more shade tolerant and moisture loving species further downslope. Other species growing with the kanuka are kowhai (*Sophora microphylla*), totara (*Podocarpus hallii* near the top and *P. totara*) and narrow leaved lacebark (*Hoheria sexstylosa*). The understory is relatively bare with large patches of necklace fern (*Asplenium flabellifolium*), scattered coprosma species (*Coprosma rhamnoides*, *C. areolata*, *C. rotundifolia* and *C. rigida*) and native broom (*Carmichaelia australis*). Downhill from the kanuka grow scattered black and occasional white maire (*Nestegis cunninghamii* and *N. lanceolata*) rewarewa (*Knightia excelsa*) kahikitea (*Dacrycarpus dacrydioides*) with quite a bit of titoki (*Alectryon excelsus*) supplejack (*Ripogonum scandens* and *Melicope simplex*). The valley floor has a beautiful stand of large puketea (*Laurelia novaezelandiae*); some with large puka (*Griselinia lucida*) perched high up with their roots trailing down to the ground. The water loving fern *Pneumatopteris pennigera* is common here with many plants having short trunks of a metre or more. Probably the most common shrub and one that is hard not to notice is the tree nettle (*Urtica ferox*).

Epiphytes were rare with the only specimens seen being solitary plants of *Collospermum hastatum* and the perching orchid (*Earina mucronata*) both on a fallen dead maire and the pukas in the pukateas.

Climbers were well represented both in numbers of species and individual plants with three species each of rata and bush lawyer and most of the other common species. *Clematis paniculata* was a notable exception as no specimens were seen.

There are no weed problems apart from a few broom bushes (*Cytisus scoparius*) near the top of the remnant and an old large deciduous vine growing near the top of the hill on the kanuka (a large leaved clematis?)

Species of note were:

Mazus novaezealandiae subsp. novaezealandiae a seven square metre patch was found well up the true right of the stream under tall kanuka. The site is very unlikely to have had kahikatea growing on it and the only podocarp in the vicinity was a large totara. The site is unusual compared to other sites seen in the Maungaraki range in that it is on a steep bank where a seepage comes out of the limestone rather than a flat boggy area.

Adiantum diaphanum: some quite large patches of this maidenhair fern were growing under the scrub.

Rubus squarrosus (Leafless lawyer): A solitary large plant of was found on the bush edge on top of the hill.

Arthropteris tenella: Several nice specimens of this climbing fern were seen

Olearia virgata: A few shrubby specimens in the wetland passed on the way to the main bush area

Rhopalostylis sapida (Nikau): Several adult trees and some regenerating plants where the cattle had not yet found them.

There was no sign of possum control with no bait stations or 1080 warning signs noted. A wild cat was seen and a few hares. There was a little rabbit sign up the hill amongst the kanuka.

The general state of the bush would be classed as degraded due to the presence of the cattle, who are being particularly hard on the bush, as there is little pasture for them to eat. This is definitely a bush remnant worth protecting both due to its size and its species content and variety. There are several other remnants in the catchment of the Maringiawai Stream and others nearby which could and would seed over into this area helping recover those species that will have been lost already.

Total time spent in the area was 9 hours and the survey would be classed as medium to thorough. A subsequent survey in early autumn, 12 months after exclusion of stock would complete the picture for ferns and sedges and a spring survey should show up any orchids present

Gymnosperm trees and shrubs

<i>Dacrycarpus dacrydioides</i>	kahikatea
<i>Podocarpus hallii</i>	hall's totara
<i>Podocarpus totara</i>	totara
<i>Prumnopitys taxifolia</i>	matai

Monocotyledonous trees and shrubs

<i>Cordyline australis</i>	ti kouka, cabbage tree
<i>Rhopalostylis sapida</i>	nikau

Dicotyledonous trees and shrubs

<i>Alectryon excelsus</i> var. <i>excelsus</i>	titoki
<i>Aristotelia serrata</i>	makomako, wineberry
<i>Brachyglottis repanda</i>	rangiora
<i>Carmichaelia australis</i>	makaka, native broom
<i>Carpodetus serratus</i>	putaputaweta
<i>Coprosma areolata</i>	
<i>Coprosma propinqua</i> subsp. <i>propinqua</i>	
<i>Coprosma rhamnoides</i>	
<i>Coprosma rigida</i>	
<i>Coprosma robusta</i>	
<i>Coprosma rotundifolia</i>	
<i>Coprosma robusta</i> x <i>C. propinqua</i>	
<i>Coriaria arborea</i>	tutu
<i>Fuchsia excorticata</i> (unc)	kotukutuku
<i>Griselinia lucida</i>	puka, broadleaf
<i>Hebe stricta</i> var. <i>atkinsonii</i>	koromiko
<i>Hedycarya arborea</i>	porokaiwhiri,
pigeonwood	
<i>Helichrysum aggregatum</i> (unc)	niniao
<i>Hoheria sexstylosa</i>	houhi ongaonga,
narrow leaved lacebark	
<i>Knightia excelsa</i>	rewarewa
<i>Kunzea ericoides</i>	kanuka
<i>Laurelia novaezelandiae</i>	pukatea
<i>Leptospermum scoparium</i>	manuka
<i>Lophomyrtus obcordata</i>	rohutu
<i>Macropiper excelsum</i> var. <i>excelsum</i>	kawakawa
<i>Melicope simplex</i>	poataniwha
<i>Melicytus ramiflorus</i> subsp. <i>ramiflorus</i>	mahoe, whitey wood
<i>Myoporum laetum</i>	ngaio
<i>Myrsine australis</i>	mapou
<i>Myrsine divaricata</i> (unc)	weeping matipo
<i>Nestegis cunninghamii</i>	black maire
<i>Nestegis lanceolata</i>	white maire

Ozothamnus leptophylla
Olearia virgata (unc)
Pittosporum eugenioides
Pittosporum tenuifolium (unc)
Pennantia corymbosa
Pseudopanax arboreus (unc)
Pseudopanax crassifolius
Raukaua anomalus
Schefflera digitata
Solanum laciniatum (unc)
Sophora microphylla
Streblus heterophyllus
Urtica ferox

tauhinu
taraheke
tarata, lemonwood
kohuhu
kaikomako
whauwhaupaku
horoeka, lancewood

pate
poroporo
kowhai
turepo, milk tree
ongaonga, tree nettle

Monocotyledonous lianes

Ripogonum scandens

rareao, supplejack

Dicotyledonous lianes and related trailing plants

Calystegia tuguriorum
bindweed
Clematis foetida
Metrosideros colensoi
Metrosideros diffusa
Metrosideros perforata (unc)
Muehlenbeckia australis
Muehlenbeckia complexa
Parsonsia capsularis
Parsonsia heterophylla
Passiflora tetrandra
Rubus cissoides
Rubus schmidelioides
Lawyer
Rubus squarrosus (unc)

powhiwhi, native

akatea
akatea
pohuehue

kaiwhiria
kaihua
kohia, passionvine
tataramoa, bush lawyer
tataramoa, bush

leafless lawyer

Psilopods, Lycopods and Quillworts

Ferns

Adiantum cunninghamii
Adiantum diaphanum
Arthropteris tenella
Asplenium gracillimum
Asplenium flabellifolium
Asplenium flaccidum ss
spleenwort
Asplenium hookerianum

huruhuru tapairu

manamana
necklace fern
makawe, hanging

Asplenium oblongifolium (unc)	huruhuru whenua
Asplenium polyodon (unc)	petako
Blechnum chambersii	nini
Blechnum filiforme	panako
Blechnum fluviatile	kiwakiwa
Blechnum triangularifolium	Green Bay kiokio
Cyathea dealbata (unc)	ponga
Hypolepis ambigua	
Lastreopsis glabella	
Lastreopsis velutina	
Pellaea rotundifolia	tarawera
Phymatosorus pustulatus	kowaowao
Phymatosorus scandens	mokimoki
Pneumatopteris pennigera	pakau
Polystichum richardii	pikopiko
Pteridium esculentum	rarahu, bracken
Pteris macilenta	sweet fern
Pteris tremula	turawera, shaking
brake	
Pyrrhosia eleagnifolia	leather-leaf fern

Orchids

Earina mucronata (unc) ✓	peka a waka
--------------------------	-------------

Grasses

Echinopogon ovatus
Microlaena stipoides
Poa anceps subsp. anceps (unc)
Poa imbecilla

Sedges

Baumea rubignosa	
Carex secta	purei
Carex virgata	
Carex sp. (probably dissita but seed head had been browsed)	
Eleocharis acuta	
Schoenus maschalinus	
Uncinia uncinata	matau a Maui

Rushes and allied plants

Juncus caespiticius	
Juncus gregiflorus	wiwi
Juncus pallidus	

Remaining Monocotyledonous plants

Arthropodium candidum	repehinapapa
Collospermum hastatum (unc)	kahakaha
Lemna minor	karearea

Daisy-like herbs (Composites)

Craspedia major	puatea
Gnaphalium gymnocephalum	
Lagenifera pumila (unc)	
Pseudognaphalium luteoalbum	
Senecio hispidulus (unc)	
Senecio minimus	

Dicotyledonous herbs other than Composites

Acaena anserinifolia	piripiri, bidibidi
Australina pusilla	
Cardamine sp. (C. debilis agg.)("Long Style" of Pritchard 1957)	
Daucus glochidiatus	
Dichondra sp. (long thin petioles)	
Epilobium billardioreanum subsp billardioreanum (unc)	
Epilobium brunnescens	
Epilobium insulare	
Epilobium nerteroides	
Epilobium nummulariifolium	
Haloragis erecta	toatoa
Hydrocotyle elongata	
Hydrocotyle heteromeria	
Hydrocotyle moschata	
Hydrocotyle novaezelandiae	
Mazus novaezelandiae subsp. novaezelandiae (unc)	
Oxalis exilis	
Plantago raoulii	
Ranunculus amphitrichus	
Ranunculus reflexus	maruru, hairy buttercup
Stellaria decipiens	
Wahlenbergia sp.	wahu

Birds:

Chaffinch
Fantail
Grey warbler
Magpie
Pukeko
Tui
Waxeye