

## Botanical Notes re Whareroa Farm Reserve

Pat Enright May 2015.

Whareroa Farm has a number of relatively small and scattered bush blocks and a number of areas where regeneration is taking place through areas of gorse. Most of bush blocks have been fenced and protected by a DoC covenant in recent years but the Ramaroa block has been protected for about 27 years and can be used as a yardstick for the other blocks. The 2005 photo showed the state the blocks were in before fencing with mostly bare ground under the kohekohe canopy and the situation now with very good regeneration. Comparison with the Ramaroa block shows that things have quite a ways to go as yet with some species currently out competing others for dominance and the rate of weed infestation both exotic and native. Kawakawa is doing the best at present but longer term thins out somewhat and other species catch up albeit slowly. Life is tough under the kohekohe and a coming problem is the proliferation of karaka (<http://www.conservation.org.nz/documents/science-and-technical/DSIS101.pdf>) with its even better ability to shade out competition. Control of this species can be a contentious issue especially as the basis for control would require removal of mature fruiting specimens. As a food source ([http://kete.pukekura.org.nz/documents/0000/0000/0284/Karaka\\_fruits\\_as\\_bird\\_food.pdf](http://kete.pukekura.org.nz/documents/0000/0000/0284/Karaka_fruits_as_bird_food.pdf)) this could be mitigated by the removal of possums and the subsequent increase of kohekohe and tawa fruit and the drupes on the coprosmas. Short term use of tree lucerne is also used in some situations as food source for native pigeons (<http://nzbirdsonline.org.nz/species/new-zealand-pigeon>)

All the bush areas surveyed so far are on the lower slopes on Whareroa farm and are dominated by kohekohe. Scattered tawa, titoki and rewarewa on the slopes and pukatea in the gullies have a varying presence but other emergent species e.g the podocarps (matai, kahikatea, rimu and totara) are uncommon. Of note is the presence of the large leaved milktree with isolated specimens probably of both sexes as there are some juvenile plants although birds may be responsible for the seed transfer. The only flowering specimen seen may be male as there is no regen obvious in that area. Having said that, it is present in a small bush patch (Little Bush) that is not currently protected by a stock fence and a covenant. This bush patch also contains a mature totara which is regenerating and a solitary kahikatea which is not. It is also the only site so far where the small sedge *Carex breviculmis* grows. Nikau palm is relatively common in most blocks where there is sufficient moisture. Solitary white and narrow leaved maires have so far been seen.

The rasp fern (*Blechnum parrisiae*) is another species that is rather uncommon locally and it is seen in both Big Bush and Little Bush. *Deparia petersenii* subsp *congrua* is another fern that has a scattered presence on the Kapiti Coast which seems to be its southern limit in the Wellington area. Tree ferns were obviously once more common in the area as evidenced by the number of dead tree fern trunks. The open nature of the blocks when grazed would have been a major contributor to their demise and the removal of juveniles would have compounded this. There are enough mature and juvenile tree ferns remaining to remedy this over time. The gully fern *Cyathea cunninghamii* is never common in any area in my experience and the presence of at least three mature plants augers well for its future. The hard tree fern *Dicksonia fibrosa* is currently known from a single juvenile plant but it may well exist in better numbers in the higher bush blocks. There are three maidenhair species (*Adiantum*)(four if you count the exotic *A. raddianum*) present in the bush blocks. The rough maidenhair (*A. viridescens*) is locally common in several blocks and the small maidenhair (*A. diaphanum*) is present in the same blocks but much rarer. The common maidenhair (*A. cunninghamii*) is the most uncommon species locally on Whareroa.

Along the bottom boundary of Upper Bush there are a number of plants that vegetatively look to be *Solanum aviculare* var. *aviculare* (poroporo) which is currently nationally as "At Risk – Declining". In the flowering season next summer a check of the flowers will confirm/correct the id.

## List of vascular weeds and planted exotic species at Whareroa Farm Topo 50 BP32 672622

Pat Enright, Chris Hopkins 11/4/15 (6hrs) Kohekohe Bush. Through the kohekohe forest near the lookout and adjacent block with the forest walk. Then back around the access road to the carpark

Pat Enright, Chris Hopkins 19/4/15 (5½hrs) Matai Bush. Through the bush block.

Pat Enright, Chris Hopkins 25/4/15 (7hrs) Through the Ramaroa bush block, over the fence and up the Ramaroa stream Valley for a ways.

unc = uncommon. Only 1 or 2 plants or a single patch seen

\* = herbarium specimen taken

f = in flower at date specified

fr = in fruit at date specified

s = in seed at date specified

### Adventives

#### Gymnosperm trees and shrubs

Pinus radiata p	Monterrey pine
Cupressus macrocarpa p	macrocarpa

#### Dicotyledonous trees and shrubs

Acacia melanoxylon blackwood	Tasmanian
Acer pseudoplatanus	sycamore
Casuarina cunninghamiana subsp miodon ? p	sheoak
Chamaecytisus palmensis	tree lucerne
Eucalyptus leucoxydon subsp. megalocarpa "Carnea" (f 25/4/15) p	yellow gum
Juglans ailantifolia (s 25/4/15) (juveniles under parent tree)	Japanese walnut
Lupinus arboreus	tree lupin
Phytolacca octandra (fr 11/4/15)	inkweed
Populus alba	silver poplar
Salix cinerea (unc)	grey willow
Salix fragilis	crack willow

*Sambucus niger* elderberry

*Ulex europaeus* (f 11/4/15) gorse

#### Dicotyledonous lianes and related trailing plants

*Calystegia silvatica* bindweed

*Lonicera japonicus* Japanese  
honeysuckle

*Passiflora tripartita* var. *mollissima* banana  
passionfruit

*Rubus procerus* blackberry

*Rumex sagittatus* (f & s 19/4/15) climbing dock

*Vicia sativa* vetch

#### Psilopsids, Lycopods and Quillworts

None recorded

#### Ferns

*Adiantum raddianum* (unc) maidenhair fern

*Dryopteris filix-mas* (unc) male fern

#### Grasses

*Agrostis capillaris* browntop

*Agrostis stolonifera* creeping bent

*Anthoxanthum odoratum* sweet vernal

*Arrhenatherum elatius* subsp. *elatius* tall oat grass

*Cortaderia selloana* (unc) pampas grass

*Critesion murinum* subsp. *lepinorum* barley grass

*Cynodon dactylon* Bermuda grass

*Cynosurus cristatus* crested dog's tail

*Dactylis glomerata* cocksfoot

*Ehrharta erecta* veld grass

*Holcus lanatus* Yorkshire fog

Lolium perenne grass	perennial	rye
Paspalum dilatatum	paspalum	
Rytidosperma racemosum	wallaby grass	
Schedonorus arundinaceous	tall fescue	
Sporobolus africanus	rats tail grass	

### Sedges

Cyperus eragrostis	umbrella sedge
Isolepis sepulcralis	

### Rushes and allied plants

Juncus articulatus	jointed rush
Juncus effusus var. effusus	soft rush
Juncus tenuis subsp. tenuis	track rush

### Remaining Monocotyledonous plants

Agapanthus praecox subsp orientalis	agapanthus
Allium triquetrum	onion weed
Tradescantia fluminensis	wandering Willie
Zantedeschia aethiopica	arum lily

### Daisy-like herbs (Composites)

Achillea millefolium (f 11/4/15)	yarrow
Anthemis cotula (f 11/4/15)	stinking mayweed
Cichorium intybus (f 25/4/15)	chicory
Cirsium palustre	marsh thistle
Cirsium vulgare (f 11/4/15)	Scotch thistle
Conyza sumatrensis (f 11/4/15)	fleabane
Crepis capillaris (f 11/4/15)	hawksbeard
Gamochaeta calviceps	cudweed
Gamochaeta coarctata	cudweed

Gamochaeta purpurea (f 25/4/15)	CUDWEED
Helminthotheca echioides (f & s 11/4/15)	ox tongue
Hypochoeris radicata (f 11/4/15)	cats ear
Jacobea vulgaris (f 11/4/15)	ragwort
Lapsana communis	nipplewort
Leontodon taraxacoides (f 11/4/15)	lesser hawkbit
Mycelis muralis	wall lettuce
Senecio bipinnatisectus (f 11/4/15) fireweed	Australian
Silybum marianum	variegated thistle
Sonchus asper (f 11/4/15)	prickly sow thistle
Sonchus oleraceus	sow thistle
Taraxacum officinale (f 11/4/15)	dandelion
<a href="#"><u>Dicotyledonous herbs other than Composites</u></a>	
Anagallis arvensis subsp. arvensis var. arvensis (f 11/4/15)	scarlet pimpernel
Apium nodiflorum	water celery
Callitriche stagnalis	star weed
Conium maculatum	hemlock
Daucus carota (f 11/4/15)	carrot
Digitalis purpurea (f 11/4/15)	foxglove
Epilobium tetragonum subsp. tetragonum (s 11/4/15)	willow weed
Erodium moschatum	storksbill
Erythranthe moschata	musk
Foeniculum vulgare	fennel
Fumaria muralis subsp. muralis (f 25/4/15)	wall fumitory
Galium aparine	cleavers
Galium uliginosum (unc s 25/4/15)	bedstraw

Geranium molle geranium	dove foot
Geranium robertianum (f 11/4/15)	herb Robert
Lepidium didymum ?	twin cress
Lotus pedunculatus (s 11/4/15)	lotus
Marrubium vulgare	horehound
Medicago arabica	spotted medick
Modiola caroliniana	creeping mallow
Oxalis sp.	
Persicaria hydropiper (f 11/4/15)	willow weed
Physalis peruviana (f & fr 11/4/15)	Cape gooseberry
Plantago lanceolata	narrow leaved plantain
Plantago major	broad leaved plantain
Polygonum aviculare	wireweed
Polygonum hydropiper (f 11/4/15)	water pepper
Prunella vulgaris	selfheal
Ranunculus repens	buttercup
Rumex acetosella (s 11/4/15)	sheep sorrel
Rumex brownii (s 25/4/15)	hooked dock
Rumex crispus	curled dock
Rumex pulcher	fiddle-leaved dock
Sagina procumbens	pearlwort
Sisymbrium officinale	hedge mustard
Solanum chenopodioides (f 11/4/15)	velvet groundsel
Solanum diflorum (fr 11/4/15)	Jerusalem cherry
Solanum nigrum (f 11/4/15)	black nightshade
Solanum pseudocapsicum (fr 11/4/15)	Jerusalem cherry
Stachys sylvatica (f 11/4/15)	hedge woundwort

*Stellaria media*

chickweed

*Trifolium pratense* (f 11/4/15)

red clover

*Trifolium repens* (f 11/4/15)

white clover

*Tropaeolum majus* (f 11/4/15)

garden nasturtium

*Urtica urens*

nettle

*Verbena bonariensis* (unc f 11/4/15)

purple-top

*Veronica serpyllifolia* (f 11/4/15)

turf speedwell

**List of vascular plants at Whareroa Farm in “Big Bush” block and surrounds.  
Topo 50 BP32 675633**

Pat Enright, Chris Hopkins 02/5/15 (7hrs) through the block on both sides of Big Bush Stream and side streams.

**Site description.**

Big Bush is on the northern boundary of Whareroa Farm and occupies the valley on both sides of Bi Stream. It is predominantly kohekohe (*Dysoxylum spectabile*) forest with some tawa (*Beilschmiedia tawa*) on the slopes with a solitary kahikatea (*Dacrycarpus dacrydioides*) and the odd pukatea (*Laurelia novae-zelandiae*) on the valley floor. There is also a small stand of matai on the ridge between two of the branches of the stream. The bush pinches out before Emerald Road is reached and is quite weedy in the lower extremes with a lot of blackberry (*Rubus procerus*). A radiata pine (*Pinus radiata*) forest and some planted Douglas fir (*Pseudotsuga menziesii*) form the northern boundary. To the west the bush ends as it merges with the gorse although the native species are progressively taking over. To the south the boundary is marked by a branch of Big Stream with once again gorse and blackberry predominant on the true left of that stream. A small wetland is situated just out of the bush on the northern branch of the stream

Regeneration is good especially in the bush area to the south of the laneway. There is browse apparent on the likes of the native broom (*Carmichaelia australis*) on the bush on the northern side. As most of the bush is surrounded by deer fencing it is not evident where stock or deer are entering the area. There were fresh sheep droppings noted.

A number of species unique to this area so far were seen. *Carmichaelia australis*, the hard fern (*Dicksonia fibrosa*) and the small grass *Oplismenus hirtellus* subsp. *imbecillus*. The last two only noted the once. The filmy fern (*Hymenophyllum flabellatum*) is also unique to this area and is probably a relict population as it is present only as a small patch growing on a rotting log in open but sheltered grassland near the bush edge. A good population of rasp fern (*Blechnum parrisiae*) was seen in the southern block upstream from the junction of two branches of Big Stream. This species has a spasmodic occurrence in the Wellington area but is more common on the Kapiti coast.

The main weed in the bush area itself is *Cotoneaster coriaceous*. There are several mature bushes near the broken bridge in the laneway. At the time of the survey they were covered in berries. Juvenile plants of varying ages were seen throughout the whole area and were removed where possible. Karaka (*Corynocarpus laevigatus*) seedlings are also proliferating in places. There are a number of large mature trees with their fruit providing food for the native pigeons that are no doubt the source of the spread of this species

unc = uncommon. Only 1 or 2 plants or a single patch seen

\* = herbarium specimen taken

f = in flower at date specified

fr = in fruit at date specified

p = planted

s = in seed at date specified

x = species not native to the local area

Species name	Maori name	Common name
<u>Gymnosperm trees and shrubs</u>		
Dacrycarpus dacrydioides (unc)	kahikatea	kahikatea
Prumnopitys taxifolia	matai	matai
<u>Monocotyledonous trees and shrubs</u>		
Rhopalostylis sapida	nikau	nikau
<u>Dicotyledonous trees and shrubs</u>		
Alectryon excelsus subsp. excelsus	titoki	titoki
Beilschmiedia tawa	tawa	tawa
Brachyglottis repanda	rangiora	rangiora
Carmichaelia australis (s 2/5/15)	tainoka	N.Z. broom
Coprosma areolata		
Coprosma grandifolia	kānono	
Coprosma propinqua subsp. propinqua (unc)	mingimingi	
Coprosma repens	taupata	taupata
Coprosma rhamnoides		
Coprosma robusta (fr 02/5/15)	karamu	karamu
Coprosma propinqua x C. robusta		
Corynocarpus laevigatus x	karaka	karaka
Dysoxylum spectabile (f & fr 02/5/15)	kohekohe	kohekohe
Geniostoma ligustrifolium var. ligustrifolium	hangehange	hangehange

Griselinia lucida	puka	broadleaf
Hedycarya arborea (fr 02/5/15)	porokaiwhiri	pigeonwood
Knightia excelsa	rewarewa	rewarewa
Kunzea robusta (unc seedling)	kanuka	kanuka
Laurelia novae zelandiae	pukatea	pukatea
Melicope ternata (s 2/5/15)	wharangi	wharangi
Melicytus ramiflorus (fr 02/5/15)	māhoe	māhoe
Myoporum laetum	ngaio	ngaio
Myrsine australis	māpou	red matipo
Olearia solandri (s 2/5/15)		coastal daisy
Ozothamnus leptophyllus (f 02/5/15)	tauhinu	tauhinu
Pennantia corymbosa	kaikōmako	kaikōmako
Piper excelsum subsp. excelsum	kawakawa	kawakawa
Pittosporum eugenioides (juveniles)	tarata	lemonwood
Pittosporum tenuifolium (seedlings)	kohuhu	black matipo
Pseudopanax arboreus (unc)	whauwhaupaku	five finger
Pseudopanax crassifolius	horoeaka	lancewood
Pseudopanax laetum hybrids (unc) x		

#### [Monocotyledonous lianes](#)

Freycinetia banksii	kiekie	kiekie
Ripogonum scandens	kareao	supplejack

#### [Dicotyledonous lianes and related trailing plants](#)

Metrosideros diffusa		white rata
Metrosideros fulgens (unc)		
Metrosideros perforata (f 02/5/15)	akatea	white rata
Muehlenbeckia australis	pōhuehue	
Muehlenbeckia complexa	pōhuehue	

Parsonsia heterophylla	kaihua	N.Z. jasmine
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[Psilopsids, Lycopods and Quillworts](#)

None recorded

[Ferns](#)

Arthropteris tenella		jointed fern
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Asplenium appendiculatum subsp maritimum (unc)

Asplenium bulbiferum (unc)	manamana	hen and chickens fern
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Asplenium flabellifolium (unc)		necklace fern
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Asplenium flaccidum	makawe	hanging spleenwort
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Asplenium gracillimum	manamana	
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Asplenium hookerianum var. colensoi

Asplenium hookerianum var. hookerianum

Asplenium oblongifolium	huruwhenua	shining spleenwort
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Asplenium polyodon	petako	sickle spleenwort
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Blechnum chambersii	nini	
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Blechnum filiforme	pänako	thread fern
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Blechnum fluviatile	kiwakiwa	
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Blechnum membranaceum

Blechnum novae-zelandiae (unc)	kiokio	kiokio
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Blechnum parrisiae (E1767634 N5463147)	pukupuku	rasp fern
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Blechnum chambersii x B. membranaceum

Cyathea dealbata	ponga	silver fern
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Cyathea medullaris	mamaku	black tree fern
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Deparia petersenii subsp. congrua

Dicksonia fibrosa (unc)	wheki-ponga	hard tree fern
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Dicksonia squarrosa	wheki	hard tree fern
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Histiopteris incisa (unc)	mätä	water bracken
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Hymenophyllum flabellatum (unc) (E1767679) N5463223)		filmy fern
Hypolepis ambigua		
Lastreopsis glabella		smooth shield fern
Lastreopsis microsora		
Lastreopsis velutina		velvet shield fern
Microsorium pustulatum subsp. pustulatum	kōwaowao	hounds tongue
Microsorium scandens	mokimoki	scented fern
Paesia scaberula	matata	scented fern
Pellaea rotundifolia	tarawera	button fern
Polystichum neozelandicum subsp. zerophyllum	pikopiko	shield fern
Pneumatopteris pennigera	pakauroharoha	gully fern
Pteridium esculentum	rarauhe	bracken
Pteris macilenta	titipo	sweet brake
Pteris tremula	turawera	shaking brake
Pyrrhosia eleagnifolia	ota	leather-leaf fern

### [Orchids](#)

None seen

### [Grasses](#)

Dichelachne crinita (unc)		plume grass
Echinopogon ovatus		hedgehog grass
Microlaena stipoides		meadow rice grass

Oplismenus hirtellus subsp. imbecillus

Rytidosperma biannulare ?

### [Sedges](#)

Carex flagellifera (unc)

Carex virgata

Carex sp. (unnamed "raotest")

Eleocharis acuta		spike sedge
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Isolepis prolifer

Uncinia uncinata	watu	hook grass
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#### Rushes and allied plants

Juncus australis	wiwi	leafless rush
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Juncus edgariae	wiwi	leafless rush
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Juncus sarophorus	wiwi	leafless rush
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#### Remaining Monocotyledonous plants

CollospERMUM hastatum (unc)	kahakaha	
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#### Daisy-like herbs (Composites)

Euchiton involucratus (unc)		cudweed
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Euchiton japonicus		cudweed
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Pseudognaphalium luteoalbum		Jersey cudweed
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#### Dicotyledonous herbs other than Composites

Dichondra brevifolia agg.

Hydrocotyle moschata var. moschata

Hydrocotyle novae-zelandiae agg.

Oxalis exilis		yellow oxalis
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Parietaria debilis

Ranunculus reflexus	maruru	hairy buttercup
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#### **Birds:**

##### **Indigenous:**

Anthus novaeseelandiae novaeseelandiae	pihoihoi	N.Z. pipit
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Anthornis merula merula	korimako	bellbird
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Gerygone igata	riroriro	grey warbler
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Prosthemadera novaeseelandiae novaeseelandiae	tūī	tūī
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*Rhipidura fuliginosa placabilis* pīwakawaka North Island.  
fantail

*Tadorna variegata* putangitangi paradise shelduck

*Todiramphus sanctus vagans* kotare kingfisher

*Vanellus miles* spur winged plover

*Zosterops lateralis lateralis* tauhou waxeye

**Introduced:**

*Gymnorhina tibicen tyrannica* white backed magpie

*Platycercus eximius eximius* Eastern rosella

*Turdus merula merula* blackbird

*Turdus philomelos clarkei* song thrush

# List of vascular plants at Whareroa Farm in “Little Bush” block and surrounds.

## Topo 50 BP32 675631

Pat Enright 04/5/15 (3hrs)

### Site description.

Little Bush is a small area of kohekohe (*Dysoxylum spectabile*) forest situated on a steep slope above Emerald Road. It has a westerly aspect and is bounded on the south by a deeply incised seasonal watercourse. Himalayan cedar (*Cedrus deodara*) and Lawson’s cypress (*Chamaecyparis lawsoniana*) have been planted in and around the area and now provides protection from the wind although there is evidence of some wind damage. Removal of these trees would expose the area to a high risk of future wind damage.

Protection for the area has been relatively recent so regeneration is just beginning to take affect after a regime of stock grazing. Most of the main tree species have seedlings present except for the kahikatea (*Dacrycarpus dacrydioides*) and the large leaved milktree (*Streblus banksii*) which both have a solitary presence. The lone mature totara (*Podocarpus totara*) has several seedling specimens. There are two cabbage trees (*Cordyline australis*) that are not in good shape but may recover as damage to one has been caused by a windfall rather than the likes of cabbage tree disease. The large leaved milktree is on the southern boundary and was in flower at the time of the initial survey.

The understory and ground cover is very sparse except near the top of the area where there is a seepage that has some mature nikau palms (*Rhopalostylis sapida*) and the sedge *Carex dissita* which is relatively common. Two other small sedges *Carex breviculmis* and *C. inversa* are present as two isolated patches but will no doubt thrive and spread with the exclusion of stock. *Carex forsteri* is the most common sedge in the area and grows on the southern boundary doing especially well on the banks of the watercourse. *C. breviculmis* is unique to this bush patch at the moment. Ferns apart from *Asplenium hookerianum* are also sparse with some such as rasp fern (*Blechnum parrisiae*) and shining spleenwort (*Asplenium oblongifolium*) having single occurrences. The only herbs noted were *Oxalis exilis* and *Hydrocotyle moschata* var. *moschata*.

Veld grass (*Ehrharta erecta*) and inkweed (*Phytolacca octandra*) are the most prolific weeds but along with blackberry (*Rubus procerus*), gorse (*Ulex europaeus*) and Jerusalem cherry (*Solanum pseudocapsicum*) are restricted to the margins where the light intensity is best suited to their growth.

Pest control at present is with leg hold traps which were unset at the time of the visit. A number of fresh possum carcasses were present minus their fur indicate a recent

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\* = herbarium specimen taken

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p = planted

s = in seed at date specified

x = species not native to the local area

<b>Species name</b>	<b>Maori name</b>	<b>Common name</b>
<u>Gymnosperm trees and shrubs</u>		
Dacrycarpus dacrydioides (unc)	kahikatea	kahikatea
Podocarpus totara	totara	totara
<u>Monocotyledonous trees and shrubs</u>		
Cordyline australis	ti kouka	cabbage tree
Rhopalostylis sapida	nikau	nikau
<u>Dicotyledonous trees and shrubs</u>		
Alectryon excelsus subsp. excelsus	titoki	titoki
Beilschmiedia tawa	tawa	tawa
Coprosma areolata (unc)		
Coprosma grandifolia	kānono	
Coprosma repens	taupata	taupata
Coprosma rhamnoides		
Coprosma robusta	karamu	karamu
Coprosma propinqua x C. robusta		
Corynocarpus laevigatus x	karaka	karaka
Dysoxylum spectabile (f & fr 04/5/15)	kohekohe	kohekohe
Geniostoma ligustrifolium var. ligustrifolium	hangehange	hangehange
Hedycarya arborea	porokaiwhiri	pigeonwood

Melicope ternata	wharangi	wharangi
Melicytus ramiflorus	māhoe	māhoe
Myoporum laetum	ngaio	ngaio
Myrsine australis	māpou	red matipo
Olearia solandri		coastal daisy
Ozothamnus leptophyllus	tauhinu	tauhinu
Pennantia corymbosa	kaikōmako	kaikōmako
Piper excelsum subsp. excelsum	kawakawa	kawakawa
Pittosporum crassifolium	karo	karo
Pittosporum eugenioides (juveniles)	tarata	lemonwood
Pittosporum tenuifolium (seedlings)	kohuhu	black matipo
Pseudopanax crassifolius	horoeaka	lancewood
Streblus banksii (unc f 4/5/15)	ewekuri	large leaved milktree

#### [Monocotyledonous lianes](#)

None recorded

#### [Dicotyledonous lianes and related trailing plants](#)

Metrosideros perforata (f 04/5/15)	akatea	white rata
Muehlenbeckia australis	pōhuehue	
Muehlenbeckia complexa	pōhuehue	

#### [Psilopsids, Lycopods and Quillworts](#)

None recorded

#### [Ferns](#)

Asplenium appendiculatum subsp appendiculatum (unc)		
Asplenium bulbiferum (unc)	manamana	hen and chickens fern
Asplenium flabellifolium (unc)		necklace fern
Asplenium flaccidum	makawe	hanging spleenwort
Asplenium hookerianum var. colensoi		

Asplenium hookerianum var. hookerianum		
Asplenium oblongifolium (unc)	huruhuruwhenua	shining spleenwort
Asplenium polyodon (unc)	petako	sickle spleenwort
Asplenium flaccidum x A. hookerianum (unc)		
Blechnum filiforme (unc)	pänako	thread fern
Blechnum parrisiae (unc)	pukupuku	rasp fern
Lastreopsis glabella		smooth shield fern
Lastreopsis velutina (unc)		velvet shield fern
Microsorium scandens	mokimoki	scented fern
Pellaea rotundifolia	tarawera	button fern
Polystichum neozelandicum subsp. zerophyllum	pikopiko	shield fern
Pneumatopteris pennigera	pakauroharoha	gully fern
Pteris tremula	turawera	shaking brake
Pyrrosia eleagnifolia	ota	leather-leaf fern

### Orchids

None seen

### Grasses

Dichelachne crinita (unc)		plume grass
Microlaena stipoides		meadow rice grass

### Sedges

Carex breviculmis (unc)		
Carex dissita		
Carex forsteri		
Carex inversa (unc)		
Carex lambertiana (unc)		
Carex sp. (unnamed "raotest") (unc)		
Cyperus ustulatus (unc)		umbrella sedge

### Rushes and allied plants

Juncus australis	wiwi	leafless rush
Juncus pallidus (unc)	wiwi	leafless rush

### Remaining Monocotyledonous plants

None recorded

### Daisy-like herbs (Composites)

Euchiton japonicus		cudweed
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### Dicotyledonous herbs other than Composites

Cardamine debilis agg. ("Narrow petal of Pritchard 1957) (unc)

Hydrocotyle moschata var. moschata

Oxalis exilis		yellow oxalis
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### **Adventives**

### Gymnosperm trees and shrubs

Cedrus deodara p		Himalayan cedar
Chamaecyparis lawsoniana p		

### Dicotyledonous trees and shrubs

Phytolacca octandra (fr 4/5/15)		inkweed
Sambucus niger (unc)		elderberry
Ulex europaeus (f 4/5/15)		gorse

### Dicotyledonous lianes and related trailing plants

Rubus procerus		blackberry
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### Psilopsids, Lycopods and Quillworts

None recorded

### Ferns

### Grasses

Agrostis capillaris		browntop
Anthoxanthum odoratum		sweet vernal

Cortaderia selloana (unc)	pampas grass
Dactylis glomerata	cocksfoot
Ehrharta erecta	veld grass
Rytidosperma racemosum	wallaby grass

### Sedges

### Rushes and allied plants

### Remaining Monocotyledonous plants

Zantedeschia aethiopica	arum lily
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### Daisy-like herbs (Composites)

Achillea millefolium (f 4/5/15)	yarrow
Cirsium vulgare	Scotch thistle
Conyza sumatrensis (f 4/5/15)	fleabane
Crepis capillaris (f 4/5/15)	hawksbeard
Hypochoeris radicata (f 4/5/15)	cats ear
Jacobea vulgaris	ragwort
Lactuca sp.	acrid lettuce
Mycelis muralis	wall lettuce
Silybum marianum	variegated thistle
Sonchus oleraceus	sow thistle
Taraxacum officinale	dandelion

### Dicotyledonous herbs other than Composites

Chenopodium murale fathen	nettle-leaved
Digitalis purpurea	foxglove
Geranium molle	dove foot geranium
Lotus pedunculatus	lotus
Physalis peruviana	Cape gooseberry
Plantago lanceolata	narrow leaved plantain

Prunella vulgaris	selfheal
Ranunculus repens	buttercup
Solanum chenopodioides (f 4/5/15)	velvet groundsel
Solanum nigrum (f 11/4/15)	black nightshade
Solanum pseudocapsicum (fr 4/5/15)	Jerusalem cherry
Stellaria media	chickweed
Trifolium pratense	red clover
Trifolium repens (f 4/5/15)	white clover
Veronica serpyllifolia (f 4/5/15)	turf speedwell

### **Birds:**

#### **Indigenous:**

Anthus novaeseelandiae novaeseelandiae	pihoihoi	N.Z. pipit
Anthornis merula merula	korimako	bellbird
Gerygone igata	riroriro	grey warbler
Prothemadera novaeseelandiae novaeseelandiae	tūi	tūi
Rhipidura fuliginosa placabilis	pīwakawaka	North Island. fantail
Tadorna variegata	putangitangi	paradise shelduck
Todiramphus sanctus vagans	kotare	kingfisher
Vanellus miles		spur winged plover
Zosterops lateralis lateralis	tauhou	waxeye

#### **Introduced:**

Gymnorhina tibicen tyrannica	white backed magpie
Platycercus eximius eximius	Eastern rosella
Turdus merula merula	blackbird
Turdus philomelos clarkei	song thrush

# List of vascular plants at Whareroa Farm in “Pukatea Bush” block

## Topo 50 BP32 686622 260m a.s.l.

Pat Enright, Chris Hopkins 20/5/15

unc = uncommon. Only 1 or 2 plants or a single patch seen

\* = herbarium specimen taken

f = in flower at date specified

fr = in fruit at date specified

o = only seen on the other side of CMR beside the narrow tongue of bush beside the road

s = in seed at date specified

x = species not native to the local area

### Site Description:

Pukatea Bush is 3.8 hectare part of a 39.17ha bush block (K099 KCDC Heritage register, DoC 708 part protected by covenant)

### Gymnosperm trees and shrubs

None recorded

### Monocotyledonous trees and shrubs

Rhopalostylis sapida	nikau	nikau
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### Dicotyledonous trees and shrubs

Aristotelia serrata	makomako	wineberry
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Beilschmiedia tawa (unc)	tawa	tawa
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Brachyglottis repanda	rangiora	rangiora
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Carpodetus serratus	putaputaweta	marbleleaf
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Coprosma grandifolia	kānono	
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Coprosma lucida	karamu	shining karamu
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Coprosma rhamnoides		
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Coprosma robusta	karamu	
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<i>Corynocarpus laevigatus</i> x	karaka	karaka
<i>Dysoxylum spectabile</i>	kohekohe	kohekohe
<i>Geniostoma ligustrifolium</i> var. <i>ligustrifolium</i>	hangehange	hangehange
<i>Griselinia lucida</i> (unc)	puka	broadleaf
<i>Hebe stricta</i> var. <i>atkinsonii</i>	koromiko	
<i>Hedycarya arborea</i>	porokaiwhiri	pigeonwood
<i>Knightia excelsa</i>	rewarewa	rewarewa
<i>Laurelia novae zelandiae</i>	pukatea	pukatea
<i>Melicope ternata</i> (unc) o	wharangi	wharangi
<i>Melicytus ramiflorus</i>	māhoe	māhoe
<i>Myoporum laetum</i>	ngaio	ngaio
<i>Myrsine australis</i>	māpou	red matipo
<i>Olearia rani</i> var. <i>colorata</i>	heketara	
<i>Olearia solandri</i>		coastal daisy
<i>Ozothamnus leptophyllus</i>	tauhinu	tauhinu
<i>Pennantia corymbosa</i>	kaikōmako	kaikōmako
<i>Piper excelsum</i> subsp. <i>excelsum</i>	kawakawa	kawakawa
<i>Pittosporum eugenioides</i> (unc) o	tarata	lemonwood
<i>Pseudopanax arboreus</i>	whauwhaupaku	five finger
<i>Pseudopanax crassifolius</i>	horoeka	lancewood
<i>Schefflera digitata</i>	pate	seven finger
<i>Solanum laciniatum</i> (unc) ?	poroporo	poroporo
<i>Weinmannia racemosa</i>	kamahi	kamahi
<a href="#"><u>Monocotyledonous lianes</u></a>		
<i>Freycinetia banksii</i> (unc)	kiekie	kiekie
<i>Ripogonum scandens</i>	kareao	supplejack

### Dicotyledonous lianes and related trailing plants

Clematis paniculata (unc) o	puawhananga	
Metrosideros diffusa		white rata
Metrosideros fulgens (unc)		
Metrosideros perforata	akatea	white rata
Muehlenbeckia australis	pöhuehue	
Muehlenbeckia complexa	pöhuehue	
Parsonsia heterophylla	kaihua	N.Z. jasmine
Passiflora tetrandra	kohia	passion vine
Rubus cissoides	tatramoa	bush lawyer

### Psilopsids, Lycopods and Quillworts

Lycopodium volubile (unc) o		wae wae kaukau
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### Ferns

Adiantum cunninghamii		common maidenhair fern
Asplenium bulbiferum	manamana	hen and chickens fern
Asplenium flaccidum	makawe	hanging spleenwort
Asplenium gracillimum	manamana	
Asplenium hookerianum var. hookerianum (unc)		
Asplenium oblongifolium	huruwhenua	shining spleenwort
Blechnum chambersii	nini	
Blechnum discolor (unc)		crown fern
Blechnum filiforme	pänako	thread fern
Blechnum fluviatile		
Blechnum membranaceum		
Blechnum novae-zelandiae	kiokio	kiokio
Blechnum procerum (unc) o		
Blechnum vulcanicum (unc) o		

*Blechnum chambersii* x *B. membranaceum*

*Cyathea cunninghamii* pūnui gully tree fern

*Cyathea dealbata* ponga silver fern

*Cyathea medullaris* mamaku black tree fern

*Cyathea smithii* katote soft tree fern

*Dicksonia squarrosa* wheki

*Hymenophyllum demissum*

*Hymenophyllum dilatatum* (unc) ○

*Hymenophyllum flexuosum* (unc)

*Hymenophyllum rarum* ○

*Hypolepis ambigua*

*Lastreopsis glabella* smooth shield fern

*Lastreopsis hispida* (unc)

*Leptopteris hymenophylloides* single crepe fern

*Loxogramme dictyopteris* (unc) lance fern

*Microsorium pustulatum* subsp. *pustulatum* kōwaowao hounds tongue

*Microsorium scandens* mokimoki scented fern

*Notogrammitis ciliata* ○

*Paesia scaberula* matata scented fern

*Pellaea rotundifolia* tarawera button fern

*Polystichum neozelandicum* subsp. *zerophyllum* pikopiko shield fern

*Polystichum silvaticum*

*Polystichum vestitum* pūnui prickly shield fern

*Pneumatopteris pennigera* pakauroharoha gully fern

*Pteridium esculentum* rarahu bracken

*Pteris macilenta* titipo sweet brake

*Pteris tremula* turawera shaking brake

<i>Pyrrosia eleagnifolia</i>	ota	leather-leaf fern
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#### Orchids

*Earina mucronata* (unc)

#### Grasses

*Austroderia fulvida*

toetoe

toetoe

*Dichelachne crinita*

plume grass

*Microlaena stipoides*

meadow rice grass

*Poa anceps* agg. (unc) ○

#### Sedges

*Carex forsteri*

*Uncinia uncinata*

watu

hook grass

#### Rushes and allied plants

None recorded

#### Remaining Monocotyledonous plants

*Astelia solandri* (unc) ○

*Collospermum hastatum* (unc)

kahakaha

#### Daisy-like herbs (Composites)

*Euchiton audax*

cudweed

*Euchiton japonicus*

cudweed

*Pseudognaphalium luteoalbum* agg.

cudweed

#### Dicotyledonous herbs other than Composites

*Acaena anserinifolia*

piripiri

bidibidi

*Centella uniflora*

*Epilobium rotundifolium* (unc) ○

*Hydrocotyle heteromeria*

*Hydrocotyle moschata* var. *moschata*

*Oxalis exilis*

yellow oxalis

Parietaria debilis

Ranunculus reflexus

mārūrū

hairy buttercup

Stellaria parviflora

kohukohu

N.Z. chickweed

Wahlenbergia gracilis (unc includes W. rupestris & W. violacea F 20/5/15)

harebell

### **Birds:**

#### **Indigenous:**

Anthornis melanura melanura

korimako

bellbird

Circus approximans

kahu

marsh harrier

Egretta novaehollandiae novaehollandiae

matuku moana

white faced heron

Falco novaeseelandiae

karearea

N.Z. falcon

Gerygone igata

riroriro

grey warbler

Hemiphaga novaeseelandiae novaeseelandiae

kereru

wood pigeon

Hirundo neoxena neoxena

warou

welcome swallow

Prosthemadera novaeseelandiae novaeseelandiae

tūī

tūī

Rhipidura fuliginosa placabilis  
fantail

pīwakawaka

North Island.

Tadorna variegata

putangitangi

paradise shelduck

Zosterops lateralis lateralis

tauhou

waxeye

#### **Introduced:**

Platycercus eximius eximius

Eastern rosella

Turdus merula merula

blackbird

Turdus philomelos clarkei

thrush

#### **Adventives**

##### [Gymnosperm trees and shrubs](#)

None recorded

##### [Dicotyledonous trees and shrubs](#)

Leycesteria formosa (unc) Himalayan honeysuckle

Phytolacca octandra (fr 20/5/15) inkweed

Ulex europaeus (f 20/5/15) gorse

#### Dicotyledonous lianes and related trailing plants

Vicia sativa vetch

#### Psilopsids, Lycopods and Quillworts

None recorded selaginella

#### Ferns

None recorded

#### Grasses

Agrostis capillaris browntop

Anthoxanthum odoratum sweet vernal

Dactylis glomerata cocksfoot

Ehrharta erecta veld grass

Holcus lanatus Yorkshire fog

Poa annua Yorkshire fog

#### Sedges

Cyperus eragrostis o umbrella sedge

#### Rushes and allied plants

Juncus effusus var. effusus soft rush

#### Remaining Monocotyledonous plants

Zantedeschia aethiopica arum lily

#### Daisy-like herbs (Composites)

Achillea millefolium (f 20/5/15) yarrow

Cirsium vulgare (f 20/5/15) Scotch thistle

Conyza sumatrensis (f 20/4/15) fleabane

Crepis capillaris (f 11/5/15) hawksbeard

Hypochoeris radicata (f 20/5/15)	cats ear
Jacobea vulgaris	ragwort
Leontodon taraxacoides	lesser hawkbit
Mycelis muralis	wall lettuce

[Dicotyledonous herbs other than Composites](#)

Conium maculatum	hemlock
Digitalis purpurea	foxglove
Galium aparine	cleavers
Geranium molle	dove foot geranium
Geranium robertianum (f 20/5/15)	herb Robert
Lotus pedunculatus (s 20/5/15)	lotus
Physalis peruviana	Cape gooseberry
Plantago lanceolata	narrow leaved plantain
Prunella vulgaris	selfheal
Ranunculus repens	buttercup
Rumex acetosella (s 20/5/15)	sheep sorrel
Rumex crispus	curled dock
Sagina procumbens	pearlwort
Solanum chenopodioides (f 20/5/15)	velvet groundsel
Solanum nigrum (f 20/5/15)	black nightshade
Stellaria media	chickweed
Trifolium repens (f 20/5/15)	white clover

# List of vascular plants at Whareroa Farm in the vicinity of “Carex Gully”

## Topo 50 BP32

Pat Enright, Chris Hopkins 20/5/15 (1hr) noted while walking the track to visit Pukatea Bush

unc = uncommon. Only 1 or 2 plants or a single patch seen

\* = herbarium specimen taken

f = in flower at date specified

fr = in fruit at date specified

p = planted

s = in seed at date specified

x = species not native to the local area

### Site Description:

The track to Pukatea Bush runs up Carex Gully from beside the gum trees and terminates at Campbell’s Mill Road (CMR). It is a broad based valley in its lower reaches with Carex Stream following a narrow channel down the valley floor. At the time of the visit (20/5/15) there was a lot of flood damage and obvious evidence of the amount of water that flowed down the valley in the previous week’s storms. The valley runs NW to SE with the stream joining the Whareroa Stream at the gums.

Species growing along the track and on the banks were noted along with the more obvious trees and shrubs visible from the track. There are a number of rock faces and wetlands along the track.

### Gymnosperm trees and shrubs

Podocarpus totara (unc)	totara	totara
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### Monocotyledonous trees and shrubs

None recorded

### Dicotyledonous trees and shrubs

Brachylottis repanda	rangiora	rangiora
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Coprosma rhamnoides

Coprosma robusta	karamu	
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Geniostoma ligustrifolium var. ligustrifolium	hangehange	hangehange
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Griselinia lucida (unc)	puka	broadleaf
Hebe stricta var. atkinsonii	koromiko	
Hedycarya arborea	porokaiwhiri	pigeonwood
Knightia excelsa	rewarewa	rewarewa
Laurelia novae zelandiae	pukatea	pukatea
Melicytus ramiflorus (fr 20/5/15)	māhoe	māhoe
Myoporum laetum	ngaio	ngaio
Myrsine australis	māpou	red matipo
Olearia solandri (s 20/5/15)		coastal daisy
Ozothamnus leptophyllus (s 20/5/15)	tauhinu	tauhinu
Pennantia corymbosa	kaikōmako	kaikōmako
Piper excelsum subsp. excelsum	kawakawa	kawakawa
Pseudopanax arboreus (unc)	whauwhaupaku	five finger
Pseudopanax crassifolius (unc)	horoeka	lancewood
Solanum aviculare var. aviculare (f 20/5/15)	poroporo	poroporo

#### [Monocotyledonous lianes](#)

None recorded

#### [Dicotyledonous lianes and related trailing plants](#)

Metrosideros fulgens (unc)		white rata
Metrosideros perforata	akatea	white rata
Muehlenbeckia complexa	pōhuehue	
Parsonsia heterophylla	kaihua	N.Z. jasmine
Rubus cissoides (unc)	tātārāmoa	bush lawyer

#### [Psilopsids, Lycopods and Quillworts](#)

None recorded

#### [Ferns](#)

Asplenium flaccidum	makawe	hanging spleenwort
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<i>Asplenium gracillimum</i>	manamana	
<i>Asplenium oblongifolium</i>	huruhuruwhenua	shining spleenwort
<i>Asplenium polyodon</i> (unc)	petako	sickle spleenwort
<i>Blechnum chambersii</i>	nini	
<i>Blechnum discolor</i> (unc)		crown fern
<i>Blechnum filiforme</i>	pänako	thread fern
<i>Blechnum fluviatile</i>		
<i>Blechnum novae-zelandiae</i>	kiokio	kiokio
<i>Cyathea dealbata</i>	ponga	silver fern
<i>Cyathea medullaris</i>	mamaku	black tree fern
<i>Cyathea smithii</i> (unc)	katote	soft tree fern
<i>Dicksonia squarrosa</i>	wheki	
<i>Diplazium australe</i>		
<i>Hypolepis ambigua</i>		
<i>Lastreopsis glabella</i>		smooth shield fern
<i>Microsorium pustulatum</i> subsp. <i>pustulatum</i>	kōwaowao	hounds tongue
<i>Microsorium scandens</i>	mokimoki	scented fern
<i>Paesia scaberula</i>	matata	scented fern
<i>Pellaea rotundifolia</i>	tarawera	button fern
<i>Polystichum neozelandicum</i> subsp. <i>zerophyllum</i>	pikopiko	shield fern
<i>Pneumatopteris pennigera</i>	pakauroharoha	gully fern
<i>Pteridium esculentum</i>	rarahu	bracken
<i>Pteris tremula</i>	turawera	shaking brake
<i>Pyrrhosia eleagnifolia</i>	ota	leather-leaf fern
<a href="#">Orchids</a>		
<i>Thelymitra longifolia</i> ?		sun orchid
<i>Microtis unifolia</i> ?		onion leaved orchid

### Grasses

Austroderia fulvida	toetoe	toetoe
Microlaena stipoides		meadow rice grass

### Sedges

Carex dipsacea (unc) (probably planted as C. virgata)		
Carex virgata		
Cyperus ustulatus	upoko-tangata	umbrella sedge
Eleocharis acuta		spike sedge
Isolepis prolifer		
Isolepis subtilissima ? (0.5mm channelled leaves 1 stamen. 0.7mm trigonous nut with ribs, unsure about style branches)		
Schoenus maschalinus		
Uncinia uncinata	watu	hook grass

### Rushes and allied plants

Juncus sarophorus	wiwi	leafless rush
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### Remaining Monocotyledonous plants

Lemna minor		duckweed
Phormium tenax p?	harakeke	swamp flax

### Daisy-like herbs (Composites)

Euchiton audax		cudweed
Euchiton japonicus		cudweed
Pseudognaphalium luteoalbum agg.		cudweed
Senecio glomeratus		
Senecio hispidulus (f & s 20/5/15)		

### Dicotyledonous herbs other than Composites

Epilobium insulare (f & s 20/5/15)		willow herb
Hydrocotyle moschata var. moschata		
Hydrocotyle novae-zelandiae agg.		

Oxalis exilis	yellow oxalis
Parietaria debilis	
Wahlenbergia gracilis (unc includes W. rupestris & W. violacea f 20/5/15)	harebell

### **Adventives**

#### Gymnosperm trees and shrubs

None recorded

#### Dicotyledonous trees and shrubs

Phytolacca octandra (fr 20/5/15)	inkweed
Ulex europaeus (f 20/5/15)	gorse

#### Dicotyledonous lianes and related trailing plants

Vicia sativa	vetch
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#### Psilopsids, Lycopods and Quillworts

None recorded	selaginella
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#### Ferns

#### Grasses

Agrostis capillaris	browntop
Agrostis stolonifera	creeping bent
Anthoxanthum odoratum	sweet vernal
Arrhenatherum elatius subsp. elatius	tall oat grass
Dactylis glomerata	cocksfoot
Ehrharta erecta	veld grass
Holcus lanatus	Yorkshire fog

#### Sedges

Cyperus eragrostis	umbrella sedge
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#### Rushes and allied plants

None recorded

### Remaining Monocotyledonous plants

Zantedeschia aethiopica arum lily

### Daisy-like herbs (Composites)

Achillea millefolium (f 20/5/15) yarrow

Cirsium vulgare (f 20/5/15) Scotch thistle

Conyza sumatrensis (f 20/5/15) fleabane

Crepis capillaris (f 20/5/15) hawksbeard

Gamochaeta coarctata cudweed

Hypochoeris radicata (f 20/5/15) cats ear

Jacobea vulgaris (f 20/5/15) ragwort

Leontodon taraxacoides (f 20/5/15) lesser hawkbit

Senecio bipinnatisectus (f 20/5/15) Australian fireweed

Silybum marianum variegated thistle

Soliva sessilis Onehunga weed

Taraxacum officinale (f 20/5/15) dandelion

### Dicotyledonous herbs other than Composites

Conium maculatum hemlock

Digitalis purpurea (f 20/5/15) foxglove

Galium aparine cleavers

Geranium molle dove's foot geranium

Lotus pedunculatus (s 20/5/15) lotus

Nepeta cataria (f 20/5/15) catnip

Persicaria hydropiper (f 20/5/15) willow weed

Physalis peruviana (f & fr 20/5/15) Cape gooseberry

Plantago lanceolata narrow leaved plantain

Plantago major broad leaved plantain

Prunella vulgaris selfheal

Ranunculus repens	buttercup
Rumex acetosella (s 20/5/15)	sheep sorrel
Sagina procumbens	pearlwort
Solanum chenopodioides (f 20/5/15)	velvet groundsel
Solanum nigrum (f 20/5/15)	black nightshade
Stachys sylvatica (f 20/5/15)	hedge woundwort
Stellaria media	chickweed
Trifolium pratense	red clover
Trifolium repens (f 20/5/15)	white clover
Verbascum thapsus (s 20/5/15)	woolly mullein

# List of vascular plants at Whareroa Farm in “The Gums”

## Topo 50 BP32 674621

Pat Enright, Chris Hopkins 23/5/15 (6½hrs)

### Site Description:

This site is a 4.4ha area of eucalypts (*E. botryoides* and *E. viminalis*) planted out in the mid 1980's. There is one gully with some mature native vegetation but the area under the gums and along Carex stream at the bottom of the area are mainly regrowth and some exotic grass areas. A small area of wetland exists where the gully on the NE boundary meets Carex Gully. The area consists of a NE to SE ridges and the intervening gully running down to the valley. There is small area of flat ground either side of the Carex stream at the bottom. Kohekohe Bush forms the western boundary.

At the time of the survey there were a lot of fallen trees mainly the taller eucalypt *E. viminalis* and in the gully at least one large tawa (*Beilschmiedia tawa*). The fern flora is the most notable feature of the area at this stage but regeneration of native tree and shrub species augers well for the future. Six species of tree fern were seen along with rasp fern (*Blechnum parrisiae*) and *Deparia petersenii* subsp. *congrua* both of which were uncommon. The wetland has an uncommon pennywort (*Hydrocotyle pterocarpa*) growing in it but is mostly populated by weeds the worst of which are Californian thistle (*Cirsium arvensis*) and wandering Willie (*Tradescantia fluminensis*) on the bush edge. Spot spraying would kill the thistle and save the hydrocotyle but the wandering Willie will need more care to protect the fern *Deparia petersenii* and a single specimen of the gully tree fern (*Cyathea cunninghamii*) growing in close proximity. Other species present and uncommon on the farm are shining karamu (*Coprosma lucida*) pate (*Schefflera digitata*) and toro (*Myrsine salicina*).

There are a few patches of problem weeds notably old man's beard (*Clematis vitalba*), Japanese honeysuckle (*Lonicera japonica*) and wandering Willie (*Tradescantia fluminensis*). The areas affected are relatively small and would be easily eradicated. The clematis has been removed as far as possible

unc = uncommon. Only 1 or 2 plants or a single patch seen

\* = herbarium specimen taken

? = to be confirmed

f = in flower at date specified

fr = in fruit at date specified

p = planted

s = in seed at date specified

x = species on not native to the local area

<u>Species name</u>	<u>Maori name</u>	<u>Common name</u>
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Gymnosperm trees and shrubs

Dacrycarpus dacrydioides (1 large tree several seedlings)	kahikatea	kahikatea
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Podocarpus totara	totara	totara
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Monocotyledonous trees and shrubs

Rhopalostylis sapida	nikau	nikau
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Dicotyledonous trees and shrubs

Alectryon excelsus subsp. excelsus	titoki	titoki
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Beilschmiedia tawa	tawa	tawa
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Brachyglottis repanda	rangiora	rangiora
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Carpodetus serratus (unc)	putaputaweta	marbleleaf
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Coprosma grandifolia	kānono	
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Coprosma lucida	karamu	shining karamu
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Coprosma repens	taupata	taupata
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Coprosma rhamnoides		
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Coprosma robusta	karamu	
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Coprosma propinqua x C. robusta		
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Corynocarpus laevigatus x	karaka	karaka
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Dysoxylum spectabile (f 23/5/15)	kohekohe	kohekohe
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Elaeocarpus dentatus var. dentatus	hīnau	hinau
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Fuchsia excorticata (unc f 23/5/15)	kotukutuku	tree fuchsia
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Geniostoma ligustrifolium var. ligustrifolium	hangehange	hangehange
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Griselinia lucida	puka	broadleaf
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Hebe stricta var. atkinsonii	koromiko	
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Hedycarya arborea	porokaiwhiri	pigeonwood
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Knightia excelsa	rewarewa	rewarewa
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Laurelia novae zelandiae	pukatea	pukatea
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Melicytus ramiflorus (fr 23/5/15)	māhoe	māhoe
Melicope ternata	wharangi	wharangi
Myoporum laetum	ngaio	ngaio
Myrsine australis	māpou	red matipo
Myrsine salicina (unc seedlings)	toro	toro
Ozothamnus leptophyllus (unc)	tauhinu	tauhinu
Pennantia corymbosa	kaikōmako	kaikōmako
Piper excelsum subsp. excelsum	kawakawa	kawakawa
Pittosporum crassifolium x	karo	karo
Pittosporum eugenioides (unc)	tarata	lemonwood
Pittosporum tenuifolium	kohuhu	black matipo
Pseudopanax arboreus	whauwhaupaku	five finger
Pseudopanax crassifolius	horoeka	lancewood
Pseudopanax laetum hybrid (unc) x		
Schefflera digitata	pate	seven finger
Solanum laciniatum	poroporo	poroporo
Streblus banksii p	ewekuri	large leaved milktree

#### Monocotyledonous lianes

Ripogonum scandens (unc)	kareao	supplejack
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#### Dicotyledonous lianes and related trailing plants

Muehlenbeckia australis	pöhuehue	
Muehlenbeckia complexa	pöhuehue	
Parsonsia heterophylla	kaihua	N.Z. jasmine
Passiflora tetrandra	kohia	passion vine

#### Psilopsids, Lycopods and Quillworts

None recorded

#### Ferns

Asplenium appendiculatum subsp. appendiculatum (unc)		
Asplenium bulbiferum	manamana	hen and chickens fern
Asplenium flaccidum	makawe	hanging spleenwort
Asplenium gracillimum	manamana	
Asplenium hookerianum var. colensoi		
Asplenium hookerianum var. hookerianum (unc)		
Asplenium oblongifolium	huruhuruwhenua	shining spleenwort
Asplenium polyodon	petako	sickle spleenwort
Asplenium flaccidum x A. hookerianum (unc)		
Blechnum discolor (unc seedling)		crown fern
Blechnum membranaceum (unc)		
Blechnum chambersii	nini	
Blechnum filiforme (unc)	pänako	thread fern
Blechnum fluviatile		
Blechnum novae-zelandiae	kiokio	kiokio
Blechnum parrisiae (unc)		rasp fern
Blechnum procerum (unc)		
Cyathea cunninghamii	pūnui	gully tree fern
Cyathea dealbata	ponga	silver fern
Cyathea medullaris	mamaku	black tree fern
Cyathea smithii (unc)	katote	soft tree fern
Deparia petersenii subsp. congrua (unc)		
Dicksonia fibrosa (unc)	wheki-ponga	hard tree fern
Dicksonia squarrosa	wheki	hard tree fern
Diplazium australe		
Histiopteris incisa (unc)	mätä	water bracken
Hypolepis ambigua		

Lastreopsis glabella		smooth shield fern
Lastreopsis microsora		
Lastreopsis velutina		
Microsorium pustulatum subsp. pustulatum	kōwaowao	hounds tongue
Microsorium scandens	mokimoki	scented fern
Paesia scaberula	matata	scented fern
Pellaea rotundifolia	tarawera	button fern
Polystichum neozelandicum subsp. zerophyllum	pikopiko	shield fern
Polystichum vestitum (unc)	pūnui	prickly shield fern
Polystichum neozelandicum x P. vestitum		
Pneumatopteris pennigera	pakauroharoha	gully fern
Pteris tremula	turawera	shaking brake
Pyrrhosia eleagnifolia	ota	leather-leaf fern

#### Orchids

Microtis unifolia ?		onion leaved orchid
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#### Grasses

Dichelachne crinita		plume grass
Microlaena stipoides		meadow rice grass

#### Sedges

Carex virgata		
Carex sp. unnamed ("raotest") (unc)		
Cyperus ustulatus	upoko-tangata	umbrella sedge
Eleocharis acuta		spike sedge
Isolepis prolifer		
Uncinia uncinata	watu	hook grass

#### Rushes and allied plants

Juncus australis	wiwi	leafless rush
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<i>Juncus edgariae</i>	wiwi	leafless rush
<i>Juncus sarophorus</i>	wiwi	leafless rush

[Remaining Monocotyledonous plants](#)

<i>Phormium cookianum</i> subsp <i>hookeri</i> (unc) p?	wharariki	coastal flax
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[Daisy-like herbs \(Composites\)](#)

<i>Euchiton japonicus</i>		cudweed
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[Dicotyledonous herbs other than Composites](#)

*Hydrocotyle heteromeria*

*Hydrocotyle moschata* var. *moschata*

*Hydrocotyle novae-zelandiae* agg.

*Hydrocotyle pterocarpa*

<i>Oxalis exilis</i>		yellow oxalis
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*Parietaria debilis*

<i>Ranunculus reflexus</i> (unc s 23/5/15)	mārūrū	hairy buttercup
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<i>Wahlenbergia gracilis</i> (unc includes <i>W. rupestris</i> & <i>W. violacea</i> )		harebell
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**Birds:**

**Indigenous:**

<i>Anthornis melanura melanura</i>	korimako	bellbird
<i>Gerygone igata</i>	riroriro	grey warbler
<i>Hirundo neoxena neoxena</i>	warou	welcome swallow
<i>Ninox novaeseelandiae novaeseelandiae</i>	ruru	morepork
<i>Prothemadera novaeseelandiae novaeseelandiae</i>	tūī	tūī
<i>Rhipidura fuliginosa placabilis</i>	pīwakawaka	North Island. fantail
<i>Todiramphus sanctus vagans</i>	kotare	kingfisher
<i>Zosterops lateralis lateralis</i>	tauhou	waxeye

### **Introduced:**

Fringilla coelebs gengleri	chaffinch
Gymnorhina tibicen tyrannica	white backed magpie
Platycercus eximius eximius	Eastern rosella
Turdus merula merula	blackbird
Turdus philomelos clarkei	thrush

### **Adventives**

#### Gymnosperm trees and shrubs

None recorded

#### Dicotyledonous trees and shrubs

Acacia melanoxylon p	Tasmanian blackwood
Cytisus scoparius (unc)	broom
Eucalyptus botryoides p	mannan gum
Eucalyptus viminalis p	southern mahogany
Phytolacca octandra (fr 23/5/15)	inkweed
Prunus sp. (unc)	plum
Sambucus niger	elderberry
Ulex europaeus (f 23/5/15)	gorse

#### Dicotyledonous lianes and related trailing plants

Clematis vitalba (unc)	old man's beard
Lonicera japonica	Japanese honeysuckle
Rubus procerus	blackberry
Rumex sagittatus	climbing dock
Vicia sativa	vetch

#### Psilopsids, Lycopods and Quillworts

None recorded

## Ferns

None recorded

## Grasses

Agrostis capillaris	browntop
Agrostis stolonifera	creeping bent
Anthoxanthum odoratum	sweet vernal
Arrhenatherum elatius subsp. elatius	tall oat grass
Cynosurus cristatus	crested dog's tail
Dactylis glomerata	cocksfoot
Ehrharta erecta	veld grass
Holcus lanatus	Yorkshire fog
Rytidosperma racemosum	wallaby grass
Schedonorus arundinaceous	tall fescue

## Sedges

Cyperus eragrostis	umbrella sedge
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## Rushes and allied plants

Juncus articulatus	jointed rush
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## Remaining Monocotyledonous plants

Tradescantia fluminensis (f 23/5/15)	wandering Willie
Zantedeschia aethiopica	arum lily

## Daisy-like herbs (Composites)

Achillea millefolium (f 23/5/15)	yarrow
Cirsium arvense	Californian thistle
Cirsium vulgare	Scotch thistle
Conyza sumatrensis (f 23/5/15)	fleabane
Hypochoeris radicata (f 23/5/15)	cats ear
Jacobea vulgaris (f 23/5/15)	ragwort

Mycelis muralis wall lettuce  
Senecio bipinnatisectus (f 23/5/15) Australian fireweed

Dicotyledonous herbs other than Composites

Apium nodiflorum water celery  
Conium maculatum hemlock  
Digitalis purpurea foxglove  
Epilobium tetragonum subsp. tetragonum (s 23/5/15) willow weed  
Galium aparine cleavers  
Lotus pedunculatus (s 23/5/15) lotus  
Physalis peruviana Cape gooseberry  
Plantago lanceolata narrow leaved  
plantain  
Ranunculus repens buttercup  
Rumex acetosella (s 23/5/15) sheep sorrel  
Rumex brownii (s 23/5/15) hooked dock  
Rumex crispus curled dock  
Rumex obtusifolius broad leaved dock  
Solanum chenopodioides (f 23/5/15) velvet groundsel  
Solanum diflorum (fr 23/5/15) Jerusalem cherry  
Solanum nigrum (f 23/5/15) black nightshade  
Solanum pseudocapsicum (fr 23/5/15) Jerusalem cherry  
Stellaria media chickweed  
Trifolium repens (f 23/5/15) white clover

# List of vascular plants at Whareroa Farm in “Kamahi Bush” block and the Dell

## Topo 50 BP32

Pat Enright, Chris Hopkins 23/5/15 (½hrs)

unc = uncommon. Only 1 or 2 plants or a single patch seen

\* = herbarium specimen taken

f = in flower at date specified

fr = in fruit at date specified

p = planted

s = in seed at date specified

x = species not native to the local area

### **Site Description: (not completed)**

#### Gymnosperm trees and shrubs

Dacrycarpus dacrydioides		kahikatea
Podocarpus totara	totara	totara

#### Monocotyledonous trees and shrubs

Rhopalostylis sapida	nikau	nikau
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#### Dicotyledonous trees and shrubs

Alectryon excelsus subsp. excelsus	titoki	titoki
Beilschmiedia tawa	tawa	tawa
Brachylottis repanda	rangiora	rangiora
Coprosma grandifolia	kānono	
Coprosma lucida (unc)	karamu	shining karamu
Coprosma repens	taupata	taupata
Coprosma rhamnoides		
Coprosma robusta	karamu	

Coprosma propinqua x C. robusta (unc)		
Corynocarpus laevigatus x	karaka	karaka
Dysoxylum spectabile (f 23/5/15)	kohekohe	kohekohe
Elaeocarpus dentatus var. dentatus	hīnau	hīnau
Fuchsia excorticata (unc)	kotukutuku	tree fuchsia
Geniostoma ligustrifolium var. ligustrifolium	hangehange	hangehange
Griselinia lucida (unc)	puka	broadleaf
Hedycarya arborea	porokaiwhiri	pigeonwood
Kunzea robusta	kanuka	kanuka
Melicytus ramiflorus	māhoe	māhoe
Myoporum laetum	ngaio	ngaio
Myrsine salicina (unc seedling)	toro	toro
Pennantia corymbosa	kaikōmako	kaikōmako
Piper excelsum subsp. excelsum	kawakawa	kawakawa
Pittosporum crassifolium x	karo	karo
Pseudopanax crassifolius	horoeaka	lancewood
Pseudopanax laetum hybrid (unc) x		
Weinmannia racemosa	kamahi	kamahi

#### [Monocotyledonous lianes](#)

None recorded

#### [Dicotyledonous lianes and related trailing plants](#)

Metrosideros fulgens (f 23/5/15)		scarlet rata
Metrosideros perforata	akatea	white rata
Muehlenbeckia australis	pōhuehue	
Muehlenbeckia complexa	pōhuehue	
Parsonsia heterophylla	kaihua	N.Z. jasmine

#### [Psilopsids, Lycopods and Quillworts](#)

None recorded

### Ferns

Asplenium flaccidum	makawe	hanging spleenwort
Asplenium hookerianum var. colensoi (unc)		
Asplenium hookerianum var. hookerianum		
Asplenium oblongifolium	huruwhenua	shining spleenwort
Asplenium polyodon	petako	sickle spleenwort
Asplenium flaccidum x A. hookerianum (unc)		
Blechnum filiforme	pänako	thread fern
Cyathea dealbata	ponga	silver fern
Cyathea medullaris	mamaku	black tree fern
Dicksonia squarrosa (unc)	wheki	
Microsorium pustulatum subsp. pustulatum	kōwaowao	hounds tongue
Microsorium scandens	mokimoki	scented fern
Paesia scaberula	matata	scented fern
Pellaea rotundifolia	tarawera	button fern
Polystichum neozelandicum subsp. zerophyllum	pikopiko	shield fern
Pneumatopteris pennigera	pakauroharoha	gully fern
Pteris tremula	turawera	shaking brake
Pyrrhosia eleagnifolia	ota	leather-leaf fern

### Orchids

None recorded

### Grasses

Microlaena stipoides		meadow rice grass
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### Sedges

Carex inversa

Uncinia uncinata	watu	hook grass
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### Rushes and allied plants

None recorded

### Remaining Monocotyledonous plants

Phormium tenax p? harakeke swamp flax

### Daisy-like herbs (Composites)

Euchiton japonicus cudweed

### Dicotyledonous herbs other than Composites

Hydrocotyle moschata var. moschata

Oxalis exilis yellow oxalis

Parietaria debilis

Wahlenbergia gracilis (unc includes W. rupestris & W. violacea) harebell

### **Adventives**

#### Gymnosperm trees and shrubs

None recorded

#### Dicotyledonous trees and shrubs

Phytolacca octandra (fr 23/5/15) inkweed

Ulex europaeus (f 23/5/15) gorse

#### Dicotyledonous lianes and related trailing plants

Rumex sagittatus climbing dock

#### Psilopsids, Lycopods and Quillworts

None recorded selaginella

#### Ferns

None recorded

#### Grasses

Agrostis capillaris browntop

Dactylis glomerata cocksfoot

Ehrharta erecta

veld grass

[Sedges](#)

None recorded

[Rushes and allied plants](#)

None recorded

[Remaining Monocotyledonous plants](#)

None recorded

[Daisy-like herbs \(Composites\)](#)

Achillea millefolium (f 23/5/15)

yarrow

Cirsium vulgare (f 23/5/15)

Scotch thistle

Conyza sumatrensis (f 23/5/15)

fleabane

[Dicotyledonous herbs other than Composites](#)

Geranium molle

dove foot geranium

Lotus pedunculatus (s 23/5/15)

lotus

Solanum chenopodioides (f 23/5/15)

velvet groundsel

Trifolium repens (f 23/5/15)

white clover

## List of vascular plants at Whareroa Farm in “Upper Bush” block and wetland below.

### Topo 50 BP32 672622

Pat Enright, Chris Hopkins 9/7/15 (6½hrs) Through the bush block and the wetland in the valley.

#### Site description.

Upper Bush lies on the east facing slope above Whareroa Stream South. It is kohekohe (*Dysoxylum spectabile*) forest with a few emergent tawa (*Beilschmiedia tawa*) and a solitary rewarewa (*Knightia excelsa*). The slope is steep but the previous grazing regime has meant there are numerous stock tracks sidling back and forth across the slope making progress a bit easier. There is a narrow and in places deep seasonal watercourse running down through the bush.

Along the bush edge beside the stream there is a good population of poroporo, probably (*Solanum aviculare* var. *aviculare*). The identity will need to be verified when the plants are flowering but it's undivided leaves and the seeds in the range 1-2 mm indicate this species. The national status of the species is “At Risk – Declining” so an accurate id is needed. There are a couple of juvenile plants inside the forest that vegetatively look to be *S. laciniatum*. A number of other species of note for Whareroa were seen along the top bush edge. Narrow leaved maire (*Nestegis montana*) and the sweet smelling clematis (*Clematis foetida*) growing through the maire are currently the only specimens seen so far seen in the reserve. A hybrid between prickly shield fern (*Polystichum vestitum*) and another shield fern (*Polystichum neozelandicum* subsp. *zerophyllum*) is also found here. Another unusual hybrid between *Asplenium flaccidum* and *A. oblongifolium* was seen near the eastern edge of the bush. Single specimens of mature wharangi (*Melicope ternata*) and lancewood (*Pseudopanax crassifolius*) grow here as well and provide the only seed source for these species. Regeneration is very good especially for the wharangi.

Weeds are not a big problem in the forested area with scattered Jerusalem cherry (*Solanum pseudocapsicum*) and the odd *Pseudopanax lessonii* hybrid but in light wells and around the margins inkweed (*Phytolacca octandra*), gorse (*Ulex europaeus*) and at the western end grey sedge (*Carex divulsa*) are locally common. Karaka (*Corynocarpus laevigatus*) is a native weedy species that is proliferating throughout the whole area. Single examples of two exotic ferns were seen, the maidenhair *Adiantum raddianum* and Cretan brake (*Pteris cretica*) were seen and the latter removed.

unc = uncommon. Only 1 or 2 plants or a single patch seen

\* = herbarium specimen taken

f = in flower at date specified

fr = in fruit at date specified

p = planted

s = in seed at date specified

x = species not native to the local area

Species name	Maori name	Common name
<a href="#"><u>Gymnosperm trees and shrubs</u></a>		
Dacrycarpus dacrydioides (unc seedling)	kahikatea	kahikatea
<a href="#"><u>Monocotyledonous trees and shrubs</u></a>		
Cordyline australis (unc)	ti kouka	cabbage tree
Rhopalostylis sapida	nikau	nikau
<a href="#"><u>Dicotyledonous trees and shrubs</u></a>		
Alectryon excelsus subsp. excelsus (unc seedlings)	titoki	titoki
Aristotelia serrata (unc)	makomako	wineberry
Beilschmiedia tawa	tawa	tawa
Brachyglottis repanda	rangiora	rangiora
Coprosma grandifolia	kānono	
Coprosma lucida (unc)	karamu	shining karamu
Coprosma repens	taupata	taupata
Coprosma rhamnoides		
Coprosma robusta	karamu	karamu
Corynocarpus laevigatus x	karaka	karaka
Dysoxylum spectabile (f & fr 9/5/15)	kohekohe	kohekohe
Geniostoma ligustrifolium var. ligustrifolium	hangehange	hangehange
Griselinia lucida	puka	broadleaf
Hedycarya arborea	porokaiwhiri	pigeonwood
Knightia excelsa (unc)	rewarewa	rewarewa

Laurelia novae zelandiae (unc)	pukatea	pukatea
Melicope ternata	wharangi	wharangi
Melicytus ramiflorus	māhoe	māhoe
Myoporum laetum	ngaio	ngaio
Myrsine australis	māpou	red matipo
Nestegis montana	maire	narrow leaf maire
Olearia solandri		coastal daisy
Pennantia corymbosa	kaikōmako	kaikōmako
Piper excelsum subsp. excelsum	kawakawa	kawakawa
Pittosporum crassifolium x	karo	karo
Pseudopanax crassifolius	horoeka	lancewood
Pseudopanax laetum hybrids (unc) x		
Solanum aviculare var. aviculare (fr 9/5/15)	poroporo	poroporo
Solanum laciniatum (unc) ?	poroporo	poroporo

#### [Monocotyledonous lianes](#)

Freycinetia banksii (unc)	kiekie	kiekie
Ripogonum scandens	kareao	supplejack

#### [Dicotyledonous lianes and related trailing plants](#)

Clematis foetida (unc)	puawananga	large white clematis
Metrosideros diffusa		white rata
Metrosideros perforata	akatea	white rata
Muehlenbeckia australis	pöhuehue	
Muehlenbeckia complexa	pöhuehue	
Parsonsia heterophylla	kaihua	N.Z. jasmine

#### [Psilopsids, Lycopods and Quillworts](#)

None recorded

#### [Ferns](#)

<i>Adiantum viridescens</i> (unc)		rough maidenhair fern
<i>Arthropteris tenella</i>		jointed fern
<i>Asplenium flaccidum</i>	makawe	hanging spleenwort
<i>Asplenium gracillimum</i>	manamana	
<i>Asplenium hookerianum</i> var. <i>hookerianum</i>		
<i>Asplenium oblongifolium</i>	huruhuruwhenua	shining spleenwort
<i>Asplenium polyodon</i>	petako	sickle spleenwort
<i>Asplenium flaccidum</i> x <i>A. oblongifolium</i> (unc)		
<i>Blechnum chambersii</i>	nini	
<i>Blechnum filiforme</i>	pänako	thread fern
<i>Blechnum membranaceum</i>		
<i>Blechnum novae-zelandiae</i> (unc)	kiokio	kiokio
<i>Blechnum chambersii</i> x <i>B. membranaceum</i>		
<i>Cyathea dealbata</i> (unc juveniles)	ponga	silver fern
<i>Cyathea medullaris</i>	mamaku	black tree fern
<i>Diplazium australe</i> (unc)		
<i>Histiopteris incisa</i>	mätä	water bracken
<i>Hypolepis ambigua</i>		
<i>Lastreopsis glabella</i>		smooth shield fern
<i>Microsorium pustulatum</i> subsp. <i>pustulatum</i>	kōwaowao	hounds tongue
<i>Microsorium scandens</i>	mokimoki	scented fern
<i>Pellaea rotundifolia</i>	tarawera	button fern
<i>Polystichum neozelandicum</i> subsp. <i>zerophyllum</i>	pikopiko	shield fern
<i>Polystichum neozelandicum</i> subsp. <i>zerophyllum</i> x <i>P. vestitum</i> (unc)		
<i>Pneumatopteris pennigera</i>	pakauroharoha	gully fern
<i>Pteris macilenta</i>	titipo	sweet brake
<i>Pteris tremula</i>	turawera	shaking brake

<i>Pyrrosia eleagnifolia</i>	ota	leather-leaf fern
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#### Orchids

None recorded

#### Grasses

<i>Austroderia fulvida</i> (unc)	toetoe	toetoe
<i>Echinopogon ovatus</i>		hedgehog grass
<i>Microlaena stipoides</i>		meadow rice grass

#### Sedges

<i>Carex dissita</i>		
<i>Carex forsteri</i>		
<i>Carex inversa</i> (unc)		
<i>Eleocharis acuta</i>		spike sedge
<i>Isolepis prolifer</i>		
<i>Uncinia uncinata</i>	watu	hook grass

#### Rushes and allied plants

<i>Juncus australis</i>	wiwi	leafless rush
<i>Juncus edgariae</i>	wiwi	leafless rush
<i>Juncus sarophorus</i>	wiwi	leafless rush

#### Remaining Monocotyledonous plants

<i>Collospermum hastatum</i>	kahakaha	
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#### Daisy-like herbs (Composites)

<i>Euchiton japonicus</i>		cudweed
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#### Dicotyledonous herbs other than Composites

*Cardamine debilis* agg. ("narrow Petal" of Pritchard 1957)

*Hydrocotyle moschata* var. *moschata*

*Hydrocotyle novae-zelandiae* agg.

*Parietaria debilis*

Persicaria decipiens		
Ranunculus reflexus (unc)	maruru	hairy buttercup
Stellaria parviflora (unc)		
Wahlenbergia gracilis (unc includes W. rupestris & W. violacea) (f 19/4/15)		harebell

### **Birds:**

#### **Indigenous:**

Circus approximans	kahu	marsh harrier
Egretta novaehollandiae novaehollandiae	matuku moana	white faced heron
Gerygone igata	riroriro	grey warbler
Prothemadera novaeseelandiae novaeseelandiae	tūi	tūi
Rhipidura fuliginosa placabilis	pīwakawaka	North Island. fantail
Tadorna variegata	putangitangi	paradise shelduck
Todiramphus sanctus vagans	kotare	kingfisher
Zosterops lateralis lateralis	tauhou	waxeye

#### **Introduced:**

Gymnorhina tibicen tyrannica		white backed magpie
Platycercus eximius eximius		Eastern rosella
Sturnus vulgaris vulgaris		starling
Turdus merula merula		blackbird

#### **Adventives**

##### [Gymnosperm trees and shrubs](#)

None recorded

##### [Dicotyledonous trees and shrubs](#)

Phytolacca octandra (fr 9/5/15)		inkweed
Sambucus niger (unc)		elderberry

Ulex europaeus (f 11/4/15)

gorse

[Dicotyledonous lianes and related trailing plants](#)

Rubus procerus

blackberry

Vicia hirsuta (s 9/5/15)

hairy vetch

[Psilopsids, Lycopods and Quillworts](#)

None recorded

selaginella

[Ferns](#)

Adiantum raddianum (unc)

maidenhair fern

Pteris cretica (unc)

Cretan brake

[Grasses](#)

Agrostis capillaris

browntop

Agrostis stolonifera

creeping bent

Anthoxanthum odoratum

sweet vernal

Arrhenatherum elatius subsp. elatius

tall oat grass

Dactylis glomerata

cocksfoot

Ehrharta erecta

veld grass

Holcus lanatus

Yorkshire fog

Rytidosperma racemosum

wallaby grass

[Sedges](#)

Carex divulsa

grey sedge

[Rushes and allied plants](#)

None recorded

[Remaining Monocotyledonous plants](#)

None recorded

[Daisy-like herbs \(Composites\)](#)

Achillea millefolium (f 9/4/15)

yarrow

Anthemis cotula (f 9/4/15)

stinking mayweed

Cirsium vulgare	Scotch thistle
Conyza sumatrensis (f 9/4/15)	fleabane
Crepis capillaris (f 9/4/15)	hawksbeard
Erigeron karvinskianus	Mexican daisy
Helminthotheca echioides (f & s 9/4/15)	ox tongue
Hypochoeris radicata (f 9/4/15)	cats ear
Jacobea vulgaris	ragwort
Mycelis muralis	wall lettuce
Senecio bipinnatisectus (f 9/4/15)	Australian fireweed
Sonchus asper	prickly sow thistle
Taraxacum officinale	dandelion
<a href="#"><u>Dicotyledonous herbs other than Composites</u></a>	
Conium maculatum	hemlock
Daucus carota (f 9/4/15)	carrot
Digitalis purpurea	foxglove
Epilobium sp.	willow weed
Foeniculum vulgare	fennel
Galium aparine	cleavers
Galium palustre	marsh bedstraw
Geranium molle geranium	dove          foot
Lotus pedunculatus (s 9/4/15)	lotus
Persicaria hydropiper (f 9/4/15)	willow weed
Physalis peruviana (f & fr 9/4/15)	Cape gooseberry
Plantago lanceolata	narrow leaved plantain
Prunella vulgaris	selfheal
Ranunculus repens (f 9/5/15)	buttercup
Rumex crispus	curled dock

<i>Sagina procumbens</i>	pearlwort
<i>Solanum chenopodioides</i> (f 9/4/15)	velvet groundsel
<i>Solanum diflorum</i> (fr 9/4/15)	Jerusalem cherry
<i>Solanum nigrum</i> (f 9/4/15)	black nightshade
<i>Solanum pseudocapsicum</i> (fr 9/4/15)	Jerusalem cherry
<i>Stachys sylvatica</i> (f 9/4/15)	hedge woundwort
<i>Stellaria media</i>	chickweed
<i>Trifolium pratense</i> (f 9/4/15)	red clover
<i>Trifolium repens</i> (f 9/4/15)	white clover

## List of vascular plants at Whareroa Farm in “Matai Bush” block and wetland below.

### Topo 50 BP32 666617

Pat Enright, Chris Hopkins 19/4/15 (5½hrs) Through the bush block. Only recorded weeds species not already seen on previous surveys on the farm.

#### Site description.

Matai Bush is a xx hectare area of bush that has been fenced off since June 2007. Regeneration since then is very apparent. Matai (*Prumnopitys taxifolia*), kahikatea (*Dacrycarpus dacrydioides*), totara (*Podocarpus totara*), hinau (*Elaeocarpus dentatus*), kohekohe (*Dysoxylum spectabile*), rewarewa (*Knightia excelsa*), tawa (*Beilschmiedia tawa*) and large leaved milktree (*Streblus banksii*) were noted. Rimu (*Dacrydium cupressinum*) and small leaved milktree (*Streblus heterophyllus*) were amongst those species not seen to be regenerating to date. The ferns and the understory have recovered well.

The area is north facing slope with a watercourse running down the eastern side and has a small swamp containing raupo (*Typha orientalis*) and cutty grass (*Carex lesssoniana*). The valley below is a carex wetland with exotic grasses and a small patch of blackberry (*Rubus fruticosus* agg.) now growing back after being sprayed. It is mainly kohekohe/tawa forest with some emergent podocarps. Planting has been done on the margins and plans are to continue this planting in the area between Matai Bush and Upper Bush (a small bush area further up the valley). *Coprosma* sps, kawakawa (*Piper excelsum*) and regenerating species form the understory. Unfortunately karaka (*Corynocarpus laevigatus*) seedlings are prolific in patches, and will need attention to prevent a takeover by this species in years to come. The fern flora is similar to Kohekohe Bush but with less species and some small differences such as the presence of *Adiantum cunninghamii* and the absence of the two species seen in Kohekohe Bush. A small patch of *Debaria petersenii* was also noted on the bush edge above the valley floor. The gully tree fern (*Cyathea cunninghamii*) and the soft tree fern (*Cyathea smithii*) are uncommon with one specimen of the former and two of the latter noted. Sedge species were more common than in kohekohe Bush especially in the number of species. *Carex inversa* was locally quite common as were *C. lesssoniana* and *C. dissita* but *C. lambertiana* and *C. flagellifera* were less so.

Of some note is the presence of two large *Pittosporum cornifolium* plants. In 2007 when the Wellington Botsoc visited the site there was mention and a photograph of a large tawa with a mass of adventive roots hanging from it. Subsequently this tree has fallen down and it appears the root mass was supporting the two perching pittosporums. They currently appear to be quite healthy.

A couple of weed species present the only real problem with climbing dock (*Rumex sagittatus*) the most problematic in the surrounding areas evidenced by the way it is climbing and smothering some of the young planted specimens. It is not a big area on the western side and could possibly be controlled locally at this time before the seed sets. Jerusalem cherry (*Solanum diflorum* and *S. pseudocapsicum*) along with inkweed are the other species in need of attention.

unc = uncommon. Only 1 or 2 plants or a single patch seen

\* = herbarium specimen taken

f = in flower at date specified

fr = in fruit at date specified

p = planted

s = in seed at date specified

x = species not native to the local area

#### Gymnosperm trees and shrubs

Dacrycarpus dacrydioides	kahikatea	kahikatea
Dacrydium cupressinum (unc)	rimu	rimu
Podocarpus totara	totara	totara
Prumnopitys taxifolia	matai	matai

#### Monocotyledonous trees and shrubs

Rhopalostylis sapida	nikau	nikau
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#### Dicotyledonous trees and shrubs

Alectryon excelsus subsp. excelsus	titoki	titoki
Aristotelia serrata	makomako	wineberry
Beilschmiedia tawa	tawa	tawa
Brachylottis repanda	rangiora	rangiora
Carpodetus serratus (fr 19/4/15)	putaputaweta	marbleleaf
Coprosma grandifolia (fr 19/4/15)	kānono	
Coprosma repens (fr 19/4/15)	taupata	taupata
Coprosma rhamnoides		
Coprosma robusta (fr 19/4/15)	karamu	karamu
Coprosma rotundifolia (unc)		
Coprosma propinqua x C. robusta (unc)		
Corynocarpus laevigatus x	karaka	karaka

Dysoxylum spectabile (f & fr 19/4/15)	kohekohe	kohekohe
Elaeocarpus dentatus var. dentatus	hinau	hinau
Geniostoma ligustrifolium var. ligustrifolium	hangehange	hangehange
Griselinia lucida	puka	broadleaf
Hedycarya arborea (fr 19/4/15)	porokaiwhiri	pigeonwood
Knightia excelsa	rewarewa	rewarewa
Kunzea robusta (unc)	kanuka	kanuka
Laurelia novae zelandiae	pukatea	pukatea
Melicytus ramiflorus (fr 19/4/15)	māhoe	māhoe
Myoporum laetum	ngaio	ngaio
Myrsine australis	māpou	red matipo
Ozothamnus leptophyllus (f 19/4/15)	tauhinu	tauhinu
Pennantia corymbosa	kaikōmako	kaikōmako
Piper excelsum subsp. excelsum	kawakawa	kawakawa
Pittosporum cornifolium (unc)	tāwhirikaro	perching pittosporum
Pittosporum crassifolium x	karo	karo
Pittosporum tenuifolium (unc seedling)	kohuhu	black matipo
Pseudopanax arboreus (unc)	whauwhaupaku	five finger
Pseudopanax crassifolius	horoeka	lancewood
Pseudopanax laetum hybrids (unc) x		
Schefflera digitata (unc)	pate	seven finger
Solanum laciniatum (unc)	poroporo	poroporo
Streblus banksii (unc juveniles)	ewekuri	large leaved milktree
Streblus heterophyllus (unc)	turepo	small leaved milktree
<a href="#"><u>Monocotyledonous lianes</u></a>		
Freycinetia banksii	kiekie	kiekie
Ripogonum scandens	kareao	supplejack

### Dicotyledonous lianes and related trailing plants

<i>Clematis paniculata</i> (unc)	puawananga	large white clematis
<i>Metrosideros diffusa</i>		white rata
<i>Metrosideros perforata</i> (f 19/4/15)	akatea	white rata
<i>Muehlenbeckia australis</i>	pöhuehue	
<i>Muehlenbeckia complexa</i> (unc)	pöhuehue	
<i>Muehlenbeckia australis</i> x <i>M. complexa</i>		
<i>Parsonsia heterophylla</i>	kaihua	N.Z. jasmine
<i>Passiflora tetrandra</i> (unc)	kohia	passion vine

### Psilopsids, Lycopods and Quillworts

None recorded

### Ferns

<i>Adiantum cunninghamii</i>	tawatawa	maidenhair fern
<i>Asplenium bulbiferum</i>	manamana	hen and chickens fern
<i>Asplenium flaccidum</i>	makawe	hanging spleenwort
<i>Asplenium hookerianum</i> var. <i>colensoi</i>		
<i>Asplenium hookerianum</i> var. <i>hookerianum</i>		
<i>Asplenium oblongifolium</i>	huruwhenua	shining spleenwort
<i>Asplenium polyodon</i>	petako	sickle spleenwort
<i>Blechnum membranaceum</i> (unc)		
<i>Blechnum chambersii</i>	nini	
<i>Blechnum filiforme</i>	pänako	thread fern
<i>Blechnum fluviatile</i>	kiwakiwa	
<i>Blechnum minus</i> (of NZ authors)	kiokio	swamp kiokio
<i>Blechnum novae-zelandiae</i>	kiokio	kiokio
<i>Cyathea cunninghamii</i> (unc)	pūnui	gully tree fern
<i>Cyathea dealbata</i>	ponga	silver fern

<i>Cyathea medullaris</i>	mamaku	black tree fern
<i>Cyathea smithii</i> (unc)	katote	soft tree fern
<i>Deparia petersenii</i> subsp. <i>congrua</i>		
<i>Dicksonia squarrosa</i>	wheki	hard tree fern
<i>Diplazium australe</i>		
<i>Histiopteris incisa</i>	mätä	water bracken
<i>Hypolepis ambigua</i>		
<i>Lastreopsis glabella</i> fern		smooth shield
<i>Microsorium pustulatum</i> subsp. <i>pustulatum</i>	kōwaowao	hounds tongue
<i>Microsorium scandens</i>	mokimoki	scented fern
<i>Paesia scaberula</i>	matata	scented fern
<i>Pellaea rotundifolia</i>	tarawera	button fern
<i>Polystichum neozelandicum</i> subsp. <i>zerophyllum</i>	pikopiko	shield fern
<i>Pneumatopteris pennigera</i>	pakauroharoha	gully fern
<i>Pteris macilentata</i>	titipo	sweet brake
<i>Pteris tremula</i>	turawera	shaking brake
<i>Pyrrosia eleagnifolia</i>	ota	leather-leaf fern

### Orchids

<i>Earina mucronata</i> (Ann Evans per. comm.)	peka-a-waka	spring orchid.
<i>Microtis unifolia</i> (Ann Evans per. comm.)		onion leaved orchid

### Grasses

<i>Echinopogon ovatus</i>		hedgehog grass
<i>Microlaena stipoides</i>		meadow rice grass
<i>Rytidosperma gracile</i>		
<i>Rytidosperma unarede</i>		

### Sedges

<i>Carex dissita</i>		
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Carex lessoniana	rautahi	cutty grass
Carex inversa		
Carex lambertiana		
Carex secta	pūrei	
Carex virgata		
Eleocharis acuta		spike sedge
Isolepis prolifer		
Isolepis inundata (unc) ?		
Uncinia uncinata	watu	hook grass

#### Rushes and allied plants

Juncus edgariae	wiwi	leafless rush
Juncus pallidus	wiwi	leafless rush
Juncus sarophorus	wiwi	leafless rush

#### Remaining Monocotyledonous plants

Astelia solandri (unc)	kaiwharawhara	perching lily
Collospermum hastatum (unc)	kahakaha	
Lemna minor		duckweed
Typha orientalis	raupo	bulrush

#### Daisy-like herbs (Composites)

Senecio minimus		fireweed
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#### Dicotyledonous herbs other than Composites

Centella uniflora		
Dichondra brevifolia agg.		
Galium propinquum		
Hydrocotyle heteromeria		
Hydrocotyle moschata var. moschata		
Hydrocotyle novae-zelandiae agg.		

<i>Oxalis exilis</i>		yellow oxalis
<i>Parietaria debilis</i>		
<i>Persicaria decipiens</i> (f 19/4/15)		willow weed
<i>Wahlenbergia gracilis</i> (unc includes <i>W. rupestris</i> & <i>W. violacea</i> ) (f 19/4/15)		harebell

**Birds:**

**Indigenous:**

<i>Gerygone igata</i>	riroriro	grey warbler
<i>Prothemadera novaeseelandiae novaeseelandiae</i>	tūī	tūī
<i>Rhipidura fuliginosa placabilis</i>	pīwakawaka	North Island. fantail
<i>Tadorna variegata</i>	putangitangi	paradise shelduck
<i>Todiramphus sanctus vagans</i>	kotare	kingfisher
<i>Zosterops lateralis lateralis</i>	tauhou	waxeye

**Introduced:**

<i>Gymnorhina tibicen tyrannica</i>		white backed magpie
<i>Platycercus eximius eximius</i>		Eastern rosella
<i>Sturnus vulgaris vulgaris</i>		starling
<i>Turdus merula merula</i>		blackbird

# List of vascular plants at Whareroa Farm in “Kohekohe Forest” block and wetland below bounded by the main track

## Topo 50 BP32 672622

Pat Enright, Chris Hopkins 11/4/15 (6hrs) through the kohekohe forest near the lookout and adjacent block with the forest walk. Then back around the access road to the carpark

unc = uncommon. Only 1 or 2 plants or a single patch seen

\* = herbarium specimen taken

f = in flower at date specified

fr = in fruit at date specified

p = planted

s = in seed at date specified

x = species on not native to the local area

### Site Description:

The site is a south facing hillslope of moderate steepness with area of wetland below where the Whareroa Stream flows. This wetland area has been substantially planted out. Water celery (*Apium nodiflorum*) clogs up the stream itself and rank exotic grasses are prevalent in the more open areas where planting has not taken place. Some pukatea (*Laurelia novaezelandiae*) are present on the flatter forest area beside the wetland

The hillside is covered by kohekohe (*Dysoxylum spectabile*) forest with some tawa and a scattering of other species such as rewarewa (*Knightia excelsa*). The understory is sparse except where windfalls have created light gaps where kawakawa (*Piper excelsum* subsp. *excelsum*) and scattered coprosma have established. The ground cover is likewise rather sparse except for areas where the climbing blechnum (*Blechnum filiforme*) has established making it the most common fern species. A number of seepage area also provide a suitable habitat for the most common sedge (*Carex dissita*). The understory and ground cover thins out as you progress up the slope. Near the fenceline between the stand of gum trees and the kohekohe forest and towards the top of the forest area several species of tree ferns are to be found with black tree fern (*Cyathea medullaris*), silver fern (*Cyathea dealbata*) and single specimens of the soft tree fern (*Cyathea smithii* and *Cyathea cunninghamii*) can be found. Of interest is the presence of two less common maidenhair species. The small maidenhair (*Adiantum diaphanum*) was seen in three small areas and the rough maidenhair (*Adiantum viridescens*) was seen in scattered small patches with a larger area beside the steps running up towards the lookout. Several other species were only seen at this latter site including the hairy buttercup (*Ranunculus reflexus*), harebell (*Wahlenbergia gracilis*) and a number of grasses.

The majority of the rushes (*Juncus* spp.) are growing in areas of grassland and along the main track from the carpark.

Two flowering specimens of pampas grass (*Cortaderia selloana*) are present with some tree lupin (*Lupinus arboreus*) in a paddock between the track and the stream. One specimen each of introduced ferns were noted. Male fern (*Dryopteris filix-mas*) was growing towards the bottom of the small kohokohe are near the Lookout and one specimen of the maidenhair fern (*Adiantum raddianum*) was seen on a rock face in the main area of kohekohe forest. Arum lilies (*Zantedeschia aethiopica*) are scattered about in some of the wetland areas. The older plantings of Tasmanian blackwood (*Acacia melanoxylon*) are seeding and a number of young plants were noted giving some cause for removal of the older trees.

#### Gymnosperm trees and shrubs

Dacrycarpus dacrydioides (unc)		kahikatea
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#### Monocotyledonous trees and shrubs

Cordyline australis (unc)	te kōuka	cabbage tree
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Rhopalostylis sapida	nikau	nikau
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#### Dicotyledonous trees and shrubs

Alectryon excelsus subsp. excelsus	titoki	titoki
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Beilschmiedia tawa	tawa	tawa
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Brachyglottis repanda	rangiora	rangiora
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Coprosma grandifolia	kānono	
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Coprosma repens (unc)	taupata	taupata
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Coprosma rhamnoides		
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Coprosma robusta	karamu	
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Coprosma propinqua x C. robusta (unc)		
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Corynocarpus laevigatus x	karaka	karaka
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Dysoxylum spectabile (f & fr 11/4/15)	kohekohe	kohekohe
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Geniostoma ligustrifolium var. ligustrifolium	hangehange	hangehange
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Griselinia lucida (unc)	puka	broadleaf
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Hebe stricta var. atkinsonii	koromiko	
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Hedycarya arborea	porokaiwhiri	pigeonwood
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Knightia excelsa	rewarewa	rewarewa
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Laurelia novae zelandiae	pukatea	pukatea
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Melicytus ramiflorus (fr 11/4/15)	māhoe	māhoe
Myoporum laetum	ngaio	ngaio
Myrsine australis	māpou	red matipo
Olearia solandri		coastal daisy
Ozothamnus leptophyllus (f 11/4/15)	tauhinu	tauhinu
Pennantia corymbosa	kaikōmako	kaikōmako
Piper excelsum subsp. excelsum	kawakawa	kawakawa
Pittosporum crassifolium x	karo	karo
Pittosporum eugenioides (unc)	tarata	lemonwood
Plagianthus regius p?	manatu	ribbonwood
Pseudopanax arboreus (unc)	whauwhaupaku	five finger
Pseudopanax crassifolius	horoeaka	lancewood
Pseudopanax laetum hybrid (unc removed) x		
Solanum laciniatum (unc)	poroporo	poroporo

#### [Monocotyledonous lianes](#)

Freycinetia banksii (unc)	kiekie	kiekie
Ripogonum scandens	kareao	supplejack

#### [Dicotyledonous lianes and related trailing plants](#)

Metrosideros diffusa		white rata
Metrosideros perforata	akatea	white rata
Muehlenbeckia australis	pöhuehue	
Muehlenbeckia complexa	pöhuehue	
Parsonsia heterophylla	kaihua	N.Z. jasmine

#### [Psilopsids, Lycopods and Quillworts](#)

None recorded

#### [Ferns](#)

Adiantum diaphanum (unc)		small maidenhair fern
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<i>Adiantum viridescens</i>		hairy maidenhair fern
<i>Arthropteris tenella</i> (unc)		
<i>Asplenium appendiculatum</i> subsp <i>appendiculatum</i> (unc)		
<i>Asplenium bulbiferum</i>	manamana	hen and chickens fern
<i>Asplenium flaccidum</i>	makawe	hanging spleenwort
<i>Asplenium gracillimum</i>	manamana	
<i>Asplenium hookerianum</i> var. <i>colensoi</i>		
<i>Asplenium hookerianum</i> var. <i>hookerianum</i>		
<i>Asplenium oblongifolium</i>	huruhuruwhenua	shining spleenwort
<i>Asplenium polyodon</i>	petako	sickle spleenwort
<i>Asplenium bulbiferum</i> x <i>A. hookerianum</i> (unc) (with bulbils)		
<i>Asplenium flaccidum</i> x <i>A. hookerianum</i> (unc)		
<i>Blechnum membranaceum</i>		
<i>Blechnum chambersii</i>	nini	
<i>Blechnum filiforme</i>	pänako	thread fern
<i>Blechnum novae-zelandiae</i>	kiokio	kiokio
<i>Cyathea cunninghamii</i> (unc)	pūnui	gully tree fern
<i>Cyathea dealbata</i>	ponga	silver fern
<i>Cyathea medullaris</i>	mamaku	black tree fern
<i>Cyathea smithii</i> (unc)	katote	soft tree fern
<i>Dicksonia squarrosa</i>	whekī	
<i>Diplazium australe</i>		
<i>Histiopteris incisa</i> (unc)	mätä	water bracken
<i>Hypolepis ambigua</i>		
<i>Lastreopsis glabella</i>		smooth shield fern
<i>Lastreopsis microsora</i>		
<i>Lastreopsis velutina</i>		

Microsorium pustulatum subsp. pustulatum	kōwaowao	hounds tongue
Microsorium scandens	mokimoki	scented fern
Paesia scaberula	matata	scented fern
Pellaea rotundifolia	tarawera	button fern
Polystichum neozelandicum subsp. zerophyllum	pikopiko	shield fern
Polystichum vestitum (unc)	pūnui	prickly shield fern
Pneumatopteris pennigera	pakauroharoha	gully fern
Pteridium esculentum	rarahu	bracken
Pteris macilenta	titipo	sweet brake
Pteris tremula	turawera	shaking brake
Pyrrosia eleagnifolia	ota	leather-leaf fern

#### [Orchids](#)

Pterostylis banksii (photograph on Whareroa website)	tutukiwi	greenhood orchid
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#### [Grasses](#)

Austroderia fulvida	toetoe	toetoe
Austroderia toetoe p?	toetoe	toetoe
Echinopogon ovatus		hedgehog grass
Microlaena stipoides		meadow rice grass
Rytidosperma gracile		
Rytidosperma unarede		

#### [Sedges](#)

Carex dissita		
Carex geminata agg.		cutty grass
Carex secta		
Carex virgata		
Cyperus ustulatus	upoko-tangata	umbrella sedge
Eleocharis acuta		spike sedge

Isolepis prolifer		
Uncinia scabra		hook grass
Uncinia uncinata	watu	hook grass

#### Rushes and allied plants

Juncus australis	wiwi	leafless rush
Juncus distegus	wiwi	leafless rush
Juncus edgariae	wiwi	leafless rush
Juncus sarophorus	wiwi	leafless rush

#### Remaining Monocotyledonous plants

Collospermum hastatum	kahakaha	
Lemna minor		duckweed
Phormium cookianum subsp hookeri p?	wharariki	coastal flax
Phormium tenax p?	harakeke	swamp flax

#### Daisy-like herbs (Composites)

Euchiton involucratus		cudweed
Euchiton japonicus		cudweed
Pseudognaphalium luteoalbum agg.		cudweed

#### Dicotyledonous herbs other than Composites

Dichondra brevifolia agg.		
Dichondra repens		
Geranium aff. microphyllum		
Hydrocotyle heteromeria		
Hydrocotyle moschata var. moschata		
Hydrocotyle novae-zelandiae agg.		
Oxalis exilis		yellow oxalis
Parietaria debilis		
Persicaria decipiens (f 11/4/15)		willow weed

Ranunculus reflexus (unc s 11/4/15)	mārūrū	hairy buttercup
Stellaria parviflora	kohukohu	N.Z. chickweed
Wahlenbergia gracilis (unc includes W. rupestris & W. violacea)		harebell

### **Birds:**

#### **Indigenous:**

Anthornis melanura melanura	korimako	bellbird
Gerygone igata	riroriro	grey warbler
Hemiphaga novaeseelandiae novaeseelandiae	kereru	wood pigeon
Hirundo neoxena neoxena	warou	welcome swallow
Prothemadera novaeseelandiae novaeseelandiae	tūi	tūi
Rhipidura fuliginosa placabilis	pīwakawaka	North Island. fantail
Tadorna variegata	putangitangi	paradise shelduck
Todiramphus sanctus vagans	kotare	kingfisher
Zosterops lateralis lateralis	tauhou	waxeye

#### **Introduced:**

Carduelis carduelis britannica		goldfinch
Fringilla coelebs gengieri		chaffinch
Gymnorhina tibicen tyrannica magpie		white backed
Platycercus eximius eximius		Eastern rosella
Sturnus vulgaris vulgaris		starling
Turdus merula merula		blackbird
Turdus philomelos clarkei		thrush

### **Adventives**

#### [Gymnosperm trees and shrubs](#)

None recorded

### Dicotyledonous trees and shrubs

Acacia melanoxylon	Tasmanian blackwood
Chamaecytisus palmensis	tree lucerne
Eucalyptus sp.	gum tree
Lupinus arboreus	tree lupin
Phytolacca octandra (fr 11/4/15)	inkweed
Salix cinerea (unc)	grey willow
Salix fragilis	crack willow
Sambucus niger (unc)	elderberry
Ulex europaeus (f 11/4/15)	gorse

### Dicotyledonous lianes and related trailing plants

Rubus procerus	blackberry
Vicia sativa	vetch

### Psilopsids, Lycopods and Quillworts

None recorded	selaginella
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### Ferns

Adiantum raddianum (unc)	maidenhair fern
Dryopteris filix-mas (unc)	male fern

### Grasses

Agrostis capillaris	browntop
Agrostis stolonifera	creeping bent
Anthoxanthum odoratum	sweet vernal
Arrhenatherum elatius subsp. elatius	tall oat grass
Cortaderia selloana (unc)	pampas grass
Cynodon dactylon	Bermuda grass
Cynosurus cristatus	crested dog's tail
Dactylis glomerata	cocksfoot

Ehrharta erecta	veld grass
Holcus lanatus	Yorkshire fog
Rytidosperma racemosum	wallaby grass

#### Sedges

Cyperus eragrostis	umbrella sedge
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#### Rushes and allied plants

Juncus effusus var. effusus	soft rush
Juncus tenuis subsp. tenuis	track rush

#### Remaining Monocotyledonous plants

Zantedeschia aethiopica	arum lily
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#### Daisy-like herbs (Composites)

Achillea millefolium (f 11/4/15)	yarrow
Anthemis cotula (f 11/4/15)	stinking mayweed
Cirsium vulgare (f 11/4/15)	Scotch thistle
Conyza sumatrensis (f 11/4/15)	fleabane
Crepis capillaris (f 11/4/15)	hawksbeard
Gamochaeta calviceps	cudweed
Gamochaeta coarctata	cudweed
Helminthotheca echioides (f & s 11/4/15)	ox tongue
Hypochoeris radicata (f 11/4/15)	cats ear
Jacobea vulgaris (f 11/4/15)	ragwort
Leontodon taraxacoides (f 11/4/15)	lesser hawkbit
Mycelis muralis	wall lettuce
Senecio bipinnatisectus (f 11/4/15)	Australian fireweed
Silybum marianum	variegated thistle
Sonchus asper (f 11/4/15)	prickly sow thistle
Sonchus oleraceus	sow thistle

Taraxacum officinale (f 11/4/15)	dandelion
<u>Dicotyledonous herbs other than Composites</u>	
Anagallis arvensis subsp. arvensis var. arvensis (f 11/4/15)	scarlet pimpernel
Apium nodiflorum	water celery
Callitriche stagnalis	star weed
Conium maculatum	hemlock
Daucus carota (f 11/4/15)	carrot
Digitalis purpurea (f 11/4/15)	foxglove
Epilobium tetragonum subsp. tetragonum (s 11/4/15)	willow weed
Foeniculum vulgare	fennel
Galium aparine	cleavers
Geranium molle	dove foot geranium
Geranium robertianum (f 11/4/15)	herb Robert
Lotus pedunculatus (s 11/4/15)	lotus
Persicaria hydropiper (f 11/4/15)	willow weed
Physalis peruviana (f & fr 11/4/15)	Cape gooseberry
Plantago lanceolata	narrow leaved plantain
Plantago major	broad leaved plantain
Polygonum aviculare	wireweed
Polygonum hydropiper (f 11/4/15)	water pepper
Prunella vulgaris	selfheal
Ranunculus repens	buttercup
Rumex acetosella (s 11/4/15)	sheep sorrel
Rumex crispus	curled dock
Rumex pulcher	fiddle-leaved dock
Sagina procumbens	pearlwort
Sisymbrium officinale	hedge mustard

<i>Solanum chenopodioides</i> (f 11/4/15)	velvet groundsel
<i>Solanum diflorum</i> (fr 11/4/15)	Jerusalem cherry
<i>Solanum nigrum</i> (f 11/4/15)	black nightshade
<i>Solanum pseudocapsicum</i> (fr 11/4/15)	Jerusalem cherry
<i>Stachys sylvatica</i> (f 11/4/15)	hedge woundwort
<i>Stellaria media</i>	chickweed
<i>Trifolium pratense</i> (f 11/4/15)	red clover
<i>Trifolium repens</i> (f 11/4/15)	white clover
<i>Tropaeolum majus</i> (f 11/4/15)	garden nasturtium
<i>Verbena bonariensis</i> (unc f 11/4/15)	purple-top
<i>Veronica serpyllifolia</i> (f 11/4/15)	turf speedwell

## List of vascular plants at Whareroa Farm in “Ramaroa Bush” block and surrounds including the Ramaroa Stream Valley.

### Topo 50 BP32 672622

Pat Enright, Chris Hopkins 254/15 (7hrs) Through the bush block areas over the fence and up the Ramaroa stream Valley for a ways.

#### Site description.

Ramaroa Bush is situated along a section of the lower reaches of the Ramaroa Stream. It comprises of a narrow strip on the true left bank and a much larger area on the hillslope above the stream. The area has a westerly aspect has been fenced for about 27 years. The stream valley has a north/south axis and lies just below the farm boundary in the south west. There are several wetland and steep banks along the course of the stream. A short way up the valley is a stand of mature pohutakawa (*Metrosideros excelsa*) trees which are the source of the numerous seedlings seen further upstream. Stock keep the seedlings under control but on the other hand they hammer the wetlands especially the cattle. There are few large sedges and rushes present except for a couple of old *C. secta* plants with quite tall pedestals and some of the smaller and ground hugging species such as *Schoenus maschalinus* and the small spike sedge (*Eleocharis gracilis*). Other herbaceous species are hanging on both in the wetlands and on the steep banks but a lot of these are in very small numbers. It is a Catch 22 situation really with stock eating the plants but if the stock were removed altogether the rank exotic grasses would probably overwhelm what you were trying to save.

The bush area is primarily kohekohe (*Dysoxylum spectabile*) forest with some tawa (*Beilschmiedia tawa*) and on the wetter flats some pukatea (*Laurelia novae zelandiae*). There is a nice stand of wharangi (*Melicope ternata*) outside the fenced area on the uphill boundary. It is seeding into a small strip of flat ground between the old and new fences and occasionally further downslope. The understory is pretty typical for kohekohe being relatively scant with kawakawa (*Piper excelsum* subsp. *excelsum*), coprosma sps. a lot of velvet fern (*Lastreopsis velutina*) and climbing fern (*Blechnum filiforme*), scattered rough maidenhair (*Adiantum viridescens*). Of interest was one bank above the stream with a mixed population of *Blechnum chambersii*, *B. membranaceum* and a few putative hybrids. Podocarps are scarce with single kahikatea (*Dacrycarpus dacrydioides*) and matai (*Prumnopitys taxifolia*) noted.

Jerusalem cherry (*Solanum diflorum* & *S. pseudocapsicum*) are present as scattered plants under the main forest canopy but the main weed problem lies along the western margin. Japanese or Manchurian walnut (*Juglans ailantifolia* or *J. mandshurica*), agapanthus (*Agapanthus praecox* subsp. *orientalis*), onion weed (*Allium triquetrum*) just through the

ground and bindweed (*Calystegia sylvatica*) are all present in this area. The odd sycamore (*Acer pseudoplatanus*) is also in need of attention.

unc = uncommon. Only 1 or 2 plants or a single patch seen

\* = herbarium specimen taken

f = in flower at date specified

fr = in fruit at date specified

o = outside the fenced area

p = planted

p? = may have been planted

s = in seed at date specified

v = up the Ramaroa Stream valley only

x = species not native to the local area

<u>Species name</u>	<u>Maori name</u>	<u>Common name</u>
<a href="#"><u>Gymnosperm trees and shrubs</u></a>		
Dacrycarpus dacrydioides (unc)	kahikatea	kahikatea
Prumnopitys taxifolia	matai	matai
<a href="#"><u>Monocotyledonous trees and shrubs</u></a>		
Cordyline australis p?	ti kouka	cabbage tree
Rhopalostylis sapida	nikau	nikau
<a href="#"><u>Dicotyledonous trees and shrubs</u></a>		
Alectryon excelsus subsp. excelsus	titoki	titoki
Beilschmiedia tawa	tawa	tawa
Brachyglottis repanda	rangiora	rangiora
Coprosma grandifolia	kānono	
Coprosma repens (fr 25/4/15)	taupata	taupata
Coprosma rhamnoides		
Coprosma robusta (fr 25/4/15)	karamu	karamu

Corynocarpus laevigatus x	karaka	karaka
Dysoxylum spectabile (f & fr 25/4/15)	kohekohe	kohekohe
Geniostoma ligustrifolium var. ligustrifolium	hangehange	hangehange
Griselinia lucida	puka	broadleaf
Hedycarya arborea	porokaiwhiri	pigeonwood
Knightia excelsa	rewarewa	rewarewa
Laurelia novae zelandiae	pukatea	pukatea
Melicope ternata	wharangi	wharangi
Melicytus ramiflorus (fr 25/4/15)	māhoe	māhoe
Metrosideros excelsa x	pohutakawa	pohutakawa
Myoporum laetum	ngaio	ngaio
Myrsine australis	māpou	red matipo
Ozothamnus leptophyllus (f 19/4/15)	tauhinu	tauhinu
Pennantia corymbosa	kaikōmako	kaikōmako
Piper excelsum subsp. excelsum	kawakawa	kawakawa
Pittosporum crassifolium x	karo	karo
Pseudopanax crassifolius p?	horoeka	lancewood
Pseudopanax laetum hybrids (unc) x		
Streblus banksii (unc juvenile)	ewekuri	large leaved milktree
<a href="#"><u>Monocotyledonous lianes</u></a>		
Freycinetia banksii	kieke	kieke
Ripogonum scandens	kareao	supplejack
<a href="#"><u>Dicotyledonous lianes and related trailing plants</u></a>		
Metrosideros diffusa		white rata
Metrosideros fulgens (unc) o		
Metrosideros perforata	akatea	white rata
Muehlenbeckia australis	pōhuehue	

Muehlenbeckia complexa (unc)	pöhuehue	
Parsonsia heterophylla	kaihua	N.Z. jasmine
Passiflora tetrandra (unc)	kohia	passion vine

[Psilopsids, Lycopods and Quillworts](#)

None recorded

[Ferns](#)

Adiantum diaphanum	tawatawa	small maidenhair fern
Adiantum viridescens	tawatawa	rough maidenhair
Arthropteris tenella		jointed fern
Asplenium bulbiferum	manamana	hen and chickens fern
Asplenium flabellifolium		necklace fern
Asplenium flaccidum	makawe	hanging spleenwort
Asplenium gracillimum	manamana	
Asplenium hookerianum var. colensoi		
Asplenium hookerianum var. hookerianum		
Asplenium oblongifolium	huruwhenua	shining spleenwort
Asplenium polyodon	petako	sickle spleenwort
Blechnum chambersii	nini	
Blechnum filiforme	pänako	thread fern
Blechnum fluviatile	kiwakiwa	
Blechnum membranaceum		
Blechnum minus (of NZ authors)	kiokio	swamp kiokio
Blechnum novae-zelandiae	kiokio	kiokio
Blechnum penna-marina subsp alpina v		
Blechnum chambersii x B. membranaceum		
Cyathea cunninghamii (unc)	pūnui	gully tree fern
Cyathea dealbata	ponga	silver fern

<i>Cyathea medullaris</i>	mamaku	black tree fern
<i>Diplazium australe</i>		
<i>Histiopteris incisa</i>	mätä	water bracken
<i>Hypolepis ambigua</i>		
<i>Hypolepis distans</i> (unc) v		
<i>Hypolepis rufobarbata</i> (unc)		
<i>Lastreopsis glabella</i>		smooth shield fern
<i>Lastreopsis microsora</i>		
<i>Lastreopsis velutina</i>		velvet shield fern
<i>Microsorium pustulatum</i> subsp. <i>pustulatum</i>	kōwaowao	hounds tongue
<i>Microsorium scandens</i>	mokimoki	scented fern
<i>Paesia scaberula</i>	matata	scented fern
<i>Pellaea rotundifolia</i>	tarawera	button fern
<i>Polystichum neozelandicum</i> subsp. <i>zerophyllum</i>	pikopiko	shield fern
<i>Pneumatopteris pennigera</i>	pakauroharoha	gully fern
<i>Pteris macilenta</i>	titipo	sweet brake
<i>Pteris tremula</i>	turawera	shaking brake
<i>Pyrrosia eleagnifolia</i>	ota	leather-leaf fern
<i>Rumohra adiantiformis</i> (unc) v		

### [Orchids](#)

### [Grasses](#)

<i>Dichelachne crinita</i> (unc) v		plume grass
<i>Echinopogon ovatus</i>		hedgehog grass
<i>Microlaena stipoides</i>		meadow rice grass
<i>Rytidosperma gracile</i>		
<i>Rytidosperma unarede</i> v		

### [Sedges](#)

Carex dissita (unc)		
Carex inversa		
Carex secta (unc) v	pūrei	
Carex virgata (unc) ?		
Carex sp. (unnamed "raotest")		
Cyperus ustulatus		umbrella sedge
Eleocharis acuta		spike sedge
Eleocharis gracilis v		
Isolepis prolifer		
Schoenus maschalinus		
Uncinia uncinata	watu	hook grass

#### Rushes and allied plants

Juncus edgariae v	wiwi	leafless rush
Juncus pallidus v	wiwi	leafless rush
Juncus planifolius (unc) v		
Juncus sarophorus v	wiwi	leafless rush

#### Remaining Monocotyledonous plants

Collospermum hastatum	kahakaha	
Lemna minor v		duckweed
Phormium tenax p?	harakeke	swamp flax
Triglochin striata (s 25/4/15) v		arrow grass

#### Daisy-like herbs (Composites)

Euchiton audax (f 25/4/15) v		cudweed
Euchiton japonicus (f 25/4/15) v		cudweed
Helichrysum filicaule (unc) v		

#### Dicotyledonous herbs other than Composites

Dichondra brevifolia agg.		
Dichondra repens		
Epilobium nummulariifolium v		willowherb
Hydrocotyle moschata var. moschata		
Hydrocotyle novae-zelandiae agg.		
Leptostigma setulosa v		
Oxalis exilis (f 25/4/15)		yellow oxalis
Parietaria debilis (f 25/4/15)		
Ranunculus reflexus v	maruru	hairy buttercup
Solanum nodiflorum subsp. nutans (f 25/4/15)		small flowered nightshade
Wahlenbergia gracilis (unc includes W. rupestris & W. violacea) (f 25/4/15)		harebell

#### **Birds:**

##### **Indigenous:**

Gerygone igata	riroriro	grey warbler
Prothemadera novaeseelandiae novaeseelandiae	tūī	tūī
Rhipidura fuliginosa placabilis	pīwakawaka	North Island fantail
Tadorna variegata	putangitangi	paradise shelduck
Todiramphus sanctus vagans	kotare	kingfisher
Zosterops lateralis lateralis	tauhou	waxeye

##### **Introduced:**

Emberiza citrinella		yellowhammer
Gymnorhina tibicen tyrannica		white backed magpie
Passer domesticus		house sparrow
Platycercus eximius eximius		Eastern rosella
Sturnus vulgaris vulgaris		starling
Turdus merula merula		blackbird