

TUTUKAU BLOCK VISIT AND KEMP RD BUSH DACTYLANTHUS DISCOVERY

Paul Cashmore

On Saturday 8 March 2008 9 members of the Rotorua Botanical Society and Robin Black (Hancock Forest Management) visited the western side of Tutukau Bush block and nearby Kemp Rd (Maroa Hill) Bush near Atiamuri to botanise these two blocks which are currently managed by Hancock Forest Management. In particular we were keen to relocate and reassess a known *Dactylanthus taylorii* (ranked Chronically Threatened – Serious Decline (Hitchmough *et al.* 2007)) population in the Tutukau block originally shown to George Pardy (ex DOC) in 1995.

Tutukau Bush

The group initially entered the bush followed a gully before eventually reaching pasture on the eastern side of the bush. Realising we had entered the block in the wrong gully to the south of the dactylanthus population a quick traverse through the forest north eventually lead us in the right direction. This stroll through the block enabled us to compile a species list and assess part of the block in detail.

The block has obviously been heavily cutover in the past and consists mainly of advanced regenerating secondary forest. Some remnant tawa and emergent rewarewa (*Knightia excelsa*) are common over a canopy of lemonwood (*Pittosporum eugenioides*), mahoe (*Melicytus ramiflorus*), kohuhu (*Pittosporum tenuifolium*), fuchsia (*Fuchsia excorticata*), wineberry (*Aristotelia serrata*), kamahi (*Weinmannia racemosa*) and pate (*Schefflera digitata*). Some pole size totara (*Podocarpus totara*) and rimu (*Dacrydium cupressinum*) are present. Near the eastern farm boundary more pure kamahi forest was present. The understorey was relatively open but with abundant ferns in places including *Blechnum fluviatile*, kiokio (*Blechnum novae-zelandiae*), water fern (*Histiopteris incise*), gully fern (*Pneumatopteris pennigera*),

and hen and chicken fern (*Asplenium bulbiferum* subsp. *bulbiferum*) with hook grass (*Uncinia* spp.) common.

Approaching the dactylanthus population we entered flat land with large groves of lemonwood and areas of five-finger – kohuhu shrubland and followed a vehicle track through native forest on Maori land interspersed with blackberry clearings. The dactylanthus population was present on both sides of the side track. The hosts appear to be mainly lemonwood but also some mahoe. Dactylanthus was flowering when visited but no unbrowsed flowers were seen. An estimated 50+ live dactylanthus plants were seen on both sides of track with many dead plants present as well.



Figure1: W side of Tutukau Bush looking NE (Robin Black).

Chris Ecroyd who was the only person present who had previously visited the population commented that in his opinion there were substantially less plants than he

could remember previously. Chris subsequently rechecked his original field notes and commented “on 8 May 1995 I counted 77 live plants and 25 dead plants and that was only a small percentage of the plants at the site - probably several thousand plants here”.

Although this data is somewhat anecdotal it does give us an indication of the scale of decline of an unmanaged dactylanthus population over a relatively short time period – approx 13 years. This type of study has not been documented to date.

Also located near the dactylanthus site were 2 large plants of mistletoe *Ileostylus micranthus* hosting in kohuhu. These plants were located in secondary fivefinger – kohuhu shrubland. No other plants were noted in immediate vicinity despite suitable habitat. Both plants were large (approx 1m across) and appeared to be in healthy condition.

Kemp Rd (Maroa Hill) Bush QE2 Covenant

In the afternoon the group visited a block of native forest under Hancock management on the W side of SH1 at U17 765 002. This block was covenanted by Carter Holt Harvey which managed the land previously. This block is dominated by mature rimu–matai forest with secondary shrubland along the southern margin with the pine compartments. Some unlogged large totara are present in the block although totara stumps were also found suggesting some logging had occurred in the past. Secondary forest included (rewarewa)–kamahi higher up the face and kohuhu, five-finger–lancewood–*Coprosma propinqua* subsp. *propinqua* scrub along the ecotone margin. There is also good regeneration of matai and totara in some areas.

The pine compartments would have historically been a frost flat remnant so the secondary ecotone margin was considered ideal dactylanthus habitat. In addition there was an unconfirmed report of dactylanthus from this block by a forestry contractor spoken to in the late 1990’s. The Botanical Society spent the afternoon in the SW part of the block and traversed part of the ecotone as well as kamahi dominated forest further uphill towards the centre of the block. No dactylanthus was located.

However I was so convinced that this ecotone was perfect dactylanthus habitat that John Hobbs and I returned the following weekend on 16 March for a more detailed survey along the margin. As a result of this survey it wasn't long before some dactylanthus was located. All plants found occurred around the ecotone margin. With a total of 25 live and 3 dead plants found this is probably a remnant of a much larger population which was once present around this margin. All flowers found were browsed. A dactylanthus sample was vouchered in the National Forestry Herbarium in Rotorua (NZFRI 26937). Hosts appeared to include lancewood, kohuhu, kanano (*Coprosma grandifolia*), and possibly five-finger, mahoe and pate.

Some further plants maybe located in the vicinity of these subpopulations or near ecotone but there are unlikely to be a lot more plants present. Elsewhere in the reserve the vegetation is either mature podocarp dominated or (rewarewa)–kamahi forest and therefore unlikely to contain dactylanthus. However scattered lemonwood are present throughout and some of these may host dactylanthus although it was not seen on any of the trees examined to date at this site.

In summary this was a very successful trip relocating a known dactylanthus population, discovering an entirely new population and locating a new mistletoe population. The Kemp Road dactylanthus population, whilst small can be easily protected and managed through caging and is very accessible. Robin Black from Hancock Forest Management has indicated his willingness to undertake this and is currently working with DOC to protect these dactylanthus plants with assistance from the Biodiversity Condition Fund.

REFERENCES

Hitchmough, R., Bull, L., Cromarty, P. (Comp). 2007. New Zealand Threat Classification System Lists-2005. Department of Conservation, Wellington. 194p.

TUTUKAU BUSH

G Jane, G Donaghy, RBS

U17: 27800 62968

Psilopsids, Lycopods & Quillworts

<i>Huperzia varia</i>	Hanging clubmoss; iwituna
<i>Lycopodium volubile</i>	Waewae-koukou; climbing clubmoss

Ferns

<i>Adiantum cunninghamii</i>	Maiden hair fern
<i>Asplenium bulbiferum</i>	Hen and chickens fern; moku
<i>Asplenium flaccidum</i> ss	Hanging spleenwort; makawe
<i>Asplenium oblongifolium</i>	Shining spleenwort
<i>Asplenium polyodon</i>	Sickle spleenwort; petako
<i>Blechnum chambersii</i>	Nini; lance fern
<i>Blechnum filiforme</i>	Climbing hard fern; thread fern
<i>Blechnum fluviatile</i>	Kiwakiwa; kiwikipiwi
<i>Blechnum novae-zelandiae</i>	Kiokio
<i>Blechnum vulcanicum</i>	
<i>Ctenopteris heterophylla</i>	
<i>Cyathea dealbata</i>	Ponga; silver fern
<i>Cyathea medullaris</i>	Mamaku; korau; black tree fern
<i>Cyathea smithii</i>	Soft-leaved tree fern; katote
<i>Dicksonia fibrosa</i>	Wheki-ponga; kuripaka
<i>Dicksonia squarrosa</i>	Wheki; harsh tree fern
<i>Diplazium australe</i>	
<i>Histiopteris incisa</i>	Water fern
<i>Hymenophyllum demissum</i>	Piripiri; irirangi
<i>Hymenophyllum dilatatum</i>	Lop-sided filmy fern
<i>Hymenophyllum flabellatum</i>	Fan fern
<i>Hymenophyllum sanguinolentum</i>	Blood-scented filmy fern
<i>Hymenophyllum scabrum</i>	Coarse-haired filmy fern
<i>Lastreopsis glabella</i>	Felted fern
<i>Lastreopsis hispida</i>	Hairy fern
<i>Leptolepia novae-zelandiae</i>	Lacey fern
<i>Leptopteris hymenophylloides</i>	Single crepe fern; heruheru
<i>Loxogramme dictyopteris</i>	Sexy fern
<i>Microsorium pustulatum</i> ssp. <i>pustulatum</i>	Hounds tongue; kowaowao
<i>Paesia scaberula</i>	Scented fern; matata; ring fern
<i>Pneumatopteris pennigera</i>	Gully fern; pakau; pakauharoha

<i>Polystichum silvaticum</i>	Prickly shield fern; punui
<i>Polystichum vestitum</i>	Bracken; rauaruhe
<i>Pteridium esculentum</i>	Leather-leaf fern
<i>Pyrrosia eleagnifolia</i>	Butcher's fern
<i>Rumobra adiantiformis</i>	Veined bristle fern

Gymnosperm trees and shrubs

<i>Dacrycarpus dacrydioides</i>	Kahikatea, white pine
<i>Dacrydium cupressinum</i>	Rimu, red pine
* <i>Pinus radiata</i>	Monterey pine; radiata
<i>Podocarpus totara</i> var. <i>totara</i>	Totara
<i>Prumnopitys ferruginea</i>	Miro; brown pine
<i>Prumnopitys taxifolia</i>	Matai; black pine

Dicotyledonous trees and shrubs

<i>Aristotelia serrata</i>	Wineberry; makomako
<i>Beilschmiedia tawa</i>	Tawa
<i>Brachyglottis repanda</i>	Rangiora; bushmans friend
* <i>Buddleja davidii</i>	Summer lilac; buddleia
<i>Carpodetus serratus</i>	Putaputaweta; marbleleaf
<i>Coprosma grandifolia</i>	Raurekau; kanono; mamono
<i>Coprosma lucida</i>	Karamu; shining karamu
<i>Coprosma propinqua</i> var. <i>propinqua</i>	Mingimingi
<i>Coprosma rhamnoides</i> agg	Thorny coprosma
<i>Coprosma robusta</i>	Karamu
<i>Coriaria arborea</i> var. <i>arborea</i>	Tree tutu
<i>Elaeocarpus dentatus</i>	Hinau
* <i>Erica lusitanica</i>	Spanish heath
<i>Fuchsia excorticata</i>	Fuchsia; kotukutuku
<i>Gaultheria antipoda</i>	Snowberry; tawiniwini
<i>Geniostoma ligustrifolium</i> var. <i>ligustrifolium</i>	Hangehange; privet
<i>Hebe stricta</i> var. <i>stricta</i> ss	Koromiko
<i>Hedycarya arborea</i>	Pigeonwood; porokaiwhiri
<i>Ileostylus micranthus</i>	Green stemmed mistletoe; piritā
<i>Knightia excelsa</i>	Rewarewa; NZ honeysuckle
<i>Kunzea ericoides</i> var. <i>ericoides</i>	Kanuka; white teatree
<i>Leptospermum scoparium</i> var. <i>scoparium</i>	Manuka; red teatree
* <i>Leycesteria formosa</i>	Himalayan honeysuckle
<i>Litsea calicaris</i>	Mangeo
<i>Melicope simplex</i>	Poataniwha
<i>Myrsine australis</i>	Red matipo; mapou
<i>Nestegis cunninghamii</i>	Black maire
<i>Nestegis lanceolata</i>	White maire

<i>Pennantia corymbosa</i>	Kaikomako
<i>Pittosporum eugenioides</i>	Lemonwood; tarata
<i>Pittosporum tenuifolium</i> agg.	Black matipo; kohuhu
<i>Pseudopanax arboreus</i> agg.	Five finger; puhou; whaupaku
<i>Pseudopanax crassifolius</i>	Lancewood; horoeka
<i>Pseudowintera axillaris</i>	Horopito
* <i>Rosa rubiginosa</i>	Sweet briar
<i>Schefflera digitata</i>	Pate; patae; kotete
<i>Weinmannia racemosa</i>	Kamahi; Towai; tawhero

Dicotyledonous lianes and related trailing plants

<i>Clematis paniculata</i>	Clematis; puawhananga
<i>Metrosideros diffusa</i>	White climbing rata; akatea
<i>Muehlenbeckia australis</i>	Poheuheu
<i>Parsonsia heterophylla</i>	Maori jasmine; kaihu; kaiwhiria
<i>Rubus cissoides</i>	Bush lawyer; tataramoa
* <i>Rubus fruticosus</i> agg.	Blackberry
<i>Rubus schmidelioides</i> var. <i>schmidelioides</i>	Bush lawyer; tataramoa

Daisy-like herbs

* <i>Achillea millefolium</i>	Yarrow
* <i>Cirsium arvense</i>	Californian thistle
* <i>Cirsium vulgare</i>	Scotch thistle
* <i>Conyza sumatrensis</i>	Broad-leaved fleabane
<i>Euchiton collinus</i>	Creeping cudweed
* <i>Leucanthemum vulgare</i>	Oxeye daisy
* <i>Senecio bipinnatisectus</i>	Australian fireweed
* <i>Senecio jacobaea</i>	Ragwort

Dicotyledonous herbs other than Composites

<i>Acaena anserinifolia</i> agg.	Bidibid
<i>Cardamine</i> "Long Style"	
* <i>Cerastium fontanum</i> ssp. <i>vulgare</i>	Mouse-eared chickweed
<i>Colobanthus muelleri</i>	
<i>Dactylanthus taylorii</i>	Wood rose
* <i>Digitalis purpurea</i>	Foxglove
* <i>Epilobium ciliatum</i>	Tall willow-herb
* <i>Geranium robertianum</i>	Herb Robert
* <i>Hypericum perforatum</i>	St John's wort
* <i>Lotus pedunculatus</i>	Lotus major
* <i>Persicaria hydropiper</i>	Water pepper
* <i>Plantago lanceolata</i>	Ribwort; narrow-leaved plantain
* <i>Plantago major</i>	Broad-leaved plantain
* <i>Prunella vulgaris</i>	Selfheal

* <i>Ranunculus acris</i> ssp. <i>acris</i>	Giant buttercup
<i>Ranunculus reflexus</i>	Maruru; hairy buttercup
* <i>Ranunculus repens</i>	Creeping buttercup
* <i>Rumex obtusifolius</i>	Broad-leaved dock
<i>Stellaria parviflora</i>	
* <i>Trifolium repens</i>	White clover
<i>Urtica incisa</i>	Stinging nettle
* <i>Verbascum thapsus</i>	Woolly mullein
* <i>Veronica arvensis</i>	Field speedwell

Monocotyledonous trees and shrubs

<i>Cordyline australis</i>	Cabbage tree; ti-kouka
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Monocotyledonous lianes

<i>Ripogonum scandens</i>	Supplejack; kareao
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Sedges

<i>Carex coriacea</i>	Cutty grass; toetoe rautahi
<i>Carex dissita</i>	
<i>Carex flagellifera</i>	
<i>Carex forsteri</i>	
<i>Carex lambertiana</i>	
<i>Carex solandri</i>	
<i>Uncinia distans</i>	
<i>Uncinia rupestris</i> agg	
<i>Uncinia scabra</i>	
<i>Uncinia uncinata</i>	Watu

Rushes and allied plants

* <i>Juncus tenuis</i> var. <i>tenuis</i>	Track rush
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Grasses

* <i>Agrostis capillaris</i>	Browntop
* <i>Anthoxanthum odoratum</i>	Sweet vernal
* <i>Bromus lithobius</i>	
<i>Cortaderia fulvida</i>	Kakaho; toetoe
* <i>Dactylis glomerata</i>	Cocksfoot
* <i>Poa annua</i>	Annual poa

Remaining Monocotyledonous herbs

<i>Astelia fragrans</i>	Bushflax; kakaha
<i>Astelia solandri</i>	Kowharawhara

Orchids

<i>Earina autumnalis</i>	Easter orchid; raupeka
<i>Earina mucronata</i>	Spring orchid; peka-a-waka
<i>Microtis unifolia</i>	Onion orchid
<i>Winika cunninghamii</i>	Bamboo orchid

KEMP RD (MAROA HILL) QEII - ATIAMURI

B Spring-Rice; C Ecroyd (10.5.96)

With additions by RBS 4.4.08

Map: U17 27764 63002

Psilopsids, Lycopods & Quillworts

<i>Huperzia varia</i>	Hanging clubmoss; iwituna
<i>Lycopodium scariosum</i>	Creeping clubmoss
<i>Lycopodium volubile</i>	Waewae-koukou; climbing clubmoss

Ferns

<i>Asplenium bulbiferum</i>	Hen and chickens fern; moku
<i>Asplenium flaccidum</i> ss	Hanging spleenwort; makawe
<i>Asplenium oblongifolium</i>	Shining spleenwort
<i>Asplenium polyodon</i>	Sickle spleenwort; petako
<i>Blechnum chambersii</i>	Nini; lance fern
<i>Blechnum colensoi</i>	Peretao; paretao
<i>Blechnum discolor</i>	Crown fern; piupiu; petipeti
<i>Blechnum filiforme</i>	Climbing hard fern; thread fern
<i>Blechnum fluviatile</i>	Kiwakiwa; kiwikipi
<i>Blechnum membranaceum</i>	
<i>Blechnum novae-zealandiae</i>	Kiokio
<i>Blechnum penna-marina</i>	Alpine blechnum
<i>Blechnum vulcanicum</i>	
<i>Cardiomanes reniforme</i>	Kidney fern; raurenga
<i>Ctenopteris heterophylla</i>	
<i>Cyathea dealbata</i>	Ponga; silver fern
<i>Cyathea medullaris</i>	Mamaku; korau; black tree fern
<i>Cyathea smithii</i>	Soft-leaved tree fern; katote
<i>Dicksonia fibrosa</i>	Wheki-ponga; kuripaka
<i>Dicksonia lanata</i> var. <i>lanata</i>	Tuokura; stumpy tree fern

<i>Dicksonia squarrosa</i>	Wheki; harsh tree fern
<i>Diplazium australe</i>	
<i>Gleichenia dicarpa</i>	Waewaekaka; tangle fern
<i>Grammitis billardierei</i>	Common strap fern
<i>Histiopteris incisa</i>	Water fern
<i>Hymenophyllum demissum</i>	Piripiri; irirangi
<i>Hymenophyllum dilatatum</i>	Lop-sided filmy fern
<i>Hymenophyllum flabellatum</i>	Fan fern
<i>Hymenophyllum multifidum</i>	
<i>Hymenophyllum rarum</i>	Wire-stemmed filmy fern
<i>Hymenophyllum sanguinolentum</i>	Blood-scented filmy fern
<i>Hymenophyllum scabrum</i>	Coarse-haired filmy fern
<i>Hypolepis rufobarbata</i>	Sticky pig fern
<i>Lastreopsis glabella</i>	Felted fern
<i>Lastreopsis hispida</i>	Hairy fern
<i>Leptolepia novae-zelandiae</i>	Lacey fern
<i>Leptopteris hymenophylloides</i>	Single crepe fern; heruheru
<i>Microsorium pustulatum</i> ssp. <i>pustulatum</i>	Hounds tongue; kowaowao
<i>Paesia scaberula</i>	Scented fern; matata; ring fern
<i>Pneumatopteris pennigera</i>	Gully fern; pakau; pakauharoha
<i>Polystichum silvaticum</i>	
<i>Polystichum vestitum</i>	Prickly shield fern; punui
<i>Polystichum wawranum</i>	Common shield fern; pikopiko
<i>Pteridium esculentum</i>	Bracken; rauaruhe
<i>Pyrrosia eleagnifolia</i>	Leather-leaf fern
<i>Sticherus cunninghamii</i>	Umbrella fern; kotuku; tapuwae
<i>Tmesipteris elongata</i>	
<i>Trichomanes venosum</i>	Veined bristle fern

Gymnosperm trees and shrubs

<i>Dacrycarpus dacrydioides</i>	Kahikatea, white pine
<i>Dacrydium cupressinum</i>	Rimu, red pine
* <i>Pinus pinaster</i>	Maritime pine
* <i>Pinus radiata</i>	Monterey pine; radiata
<i>Podocarpus totara</i> var. <i>totara</i>	Totara
<i>Prumnopitys taxifolia</i>	Matai; black pine

Dicotyledonous trees and shrubs

* <i>Acer pseudoplatanus</i>	Sycamore
<i>Aristotelia fruticosa</i>	Shrubby wineberry
<i>Aristotelia serrata</i>	Wineberry; makomako
<i>Beilschmiedia tawa</i>	Tawa
<i>Brachyglottis repanda</i>	Rangiora; bushmans friend
* <i>Calluna vulgaris</i>	Heather; ling

<i>Carmichaelia australis</i> agg	
<i>Coprosma grandifolia</i>	Raurekau; kanono; mamono
<i>Coprosma lucida</i>	Karamu; shining karamu
<i>Coprosma propinqua</i> var. <i>propinqua</i>	Mingimingi
<i>Coprosma propinqua</i> x <i>C. tayloriae</i>	
<i>Coprosma rhamnoides</i> agg	Thorny coprosma
<i>Coprosma rigida</i>	
<i>Coprosma robusta</i>	Karamu
<i>Coprosma tayloriae</i>	
<i>Coriaria arborea</i> var. <i>arborea</i>	Tree tutu
<i>Corokia cotoneaster</i>	Korokio
* <i>Cotoneaster glaucophyllus</i>	
* <i>Cytisus scoparius</i>	Broom
<i>Dracophyllum subulatum</i>	Monoao
<i>Elaeocarpus dentatus</i>	Hinau
<i>Elaeocarpus hookerianus</i>	Pokaka
* <i>Erica lusitanica</i>	Spanish heath
<i>Fuchsia excorticata</i>	Fuchsia; kotukutuku
<i>Gaultheria antipoda</i>	Snowberry; tawiniwini
<i>Gaultheria paniculata</i>	
<i>Geniostoma ligustrifolium</i> var. <i>ligustrifolium</i>	Hangehange; privet
<i>Griselinia littoralis</i>	Broadleaf; kapuka
<i>Hebe stricta</i> var. <i>stricta</i> ss	Koromiko
<i>Hedycarya arborea</i>	Pigeonwood; porokaiwhiri
<i>Knightia excelsa</i>	Rewarewa; NZ honeysuckle
<i>Kunzea ericoides</i> var. <i>ericoides</i>	Kanuka; white teatree
<i>Leptospermum scoparium</i> var. <i>scoparium</i>	Manuka; red teatree
<i>Leucopogon fasciculatus</i>	Mingimingi; kaikaitau
<i>Melicope simplex</i>	Poataniwha
<i>Melicytus lanceolatus</i> var. <i>lanceolatus</i>	Narrow-leaved mahoe; mahoe-wao
<i>Melicytus ramiflorus</i>	Mahoe
<i>Myrsine australis</i>	Red matipo; mapou
<i>Myrsine salicina</i>	Toro
<i>Neomyrtus pedunculata</i>	Rohutu
<i>Nestegis cunninghamii</i>	Black maire
<i>Olearia rani</i> var. <i>rani</i>	Heketara
<i>Olearia virgata</i> agg	
<i>Pennantia corymbosa</i>	Kaikomako
<i>Pimelea prostrata</i>	Strathmore weed; pinatoro
<i>Pittosporum eugenioides</i>	Lemonwood; tarata
<i>Pittosporum tenuifolium</i> agg	Black matipo; kohuhu
<i>Pseudopanax arboreus</i> agg.	Five finger; puhou; whaupaku
<i>Pseudopanax crassifolius</i>	Lancewood; horoeka
<i>Pseudowintera axillaris</i>	Horopito

<i>Pseudowintera colorata</i>	Pepperwood; mountain horopito
<i>Raukawa anomalus</i>	Whauwhaupaku
* <i>Rosa rubiginosa</i>	Sweet briar
<i>Schefflera digitata</i>	Pate; patae; kotete
* <i>Teline monspessulana</i>	Montpellier broom
* <i>Ulex europaeus</i>	Gorse
<i>Weinmannia racemosa</i>	Kamahi; Towai; tawhero

Dicotyledonous lianes and related trailing plants

<i>Clematis cunninghamii</i>	Scented clematis; pokopoko
<i>Clematis forsteri</i> agg	Pataua; green clematis
<i>Clematis paniculata</i>	Clematis; puawhananga
<i>Clematis quadribracteolata</i>	
<i>Metrosideros diffusa</i>	White climbing rata; akatea
<i>Muehlenbeckia australis</i>	Poheuheu
<i>Muehlenbeckia complexa</i>	Pohuehue; wire vine
<i>Parsonsia capsularis</i> var. <i>capsularis</i>	Small flowered jasmine; akakior
<i>Parsonsia heterophylla</i>	Maori jasmine; kaihu; kaiwhiria
<i>Rubus cissoides</i>	Bush lawyer; tataramoa
* <i>Rubus fruticosus</i> agg.	Blackberry
<i>Rubus schmidelioides</i> var. <i>schmidelioides</i>	Bush lawyer; tataramoa

Daisy-like herbs

* <i>Arctium minus</i> ssp. <i>minus</i>	Burdock
* <i>Cirsium vulgare</i>	Scotch thistle
* <i>Conyza sumatrensis</i>	Broad-leaved fleabane
* <i>Crepis capillaris</i>	Hawkesbeard
<i>Euchiton audax</i>	
* <i>Gamochaeta coarctata</i>	Purple cudweed
* <i>Hypochoeris radicata</i>	Catsear
<i>Lagenifera pumila</i>	
* <i>Leucanthemum vulgare</i>	Oxeye daisy
* <i>Mycelis muralis</i>	Wall lettuce
<i>Raoulia glabra</i>	
* <i>Senecio bipinnatisectus</i>	Australian fireweed
* <i>Senecio jacobaea</i>	Ragwort
* <i>Sonchus oleraceus</i>	Sow thistle; puha; puka

Dicotyledonous herbs other than Composites

<i>Acaena anserinifolia</i> agg	Bidibid
<i>Acaena microphylla</i> var. <i>microphylla</i>	Red mountain bidibid
* <i>Acaena novae-zelandiae</i>	Red bidibid; piripiri
<i>Australina pusilla</i>	
<i>Cardamine</i> "Long Style"	

<i>Cardamine debilis</i> agg	
* <i>Centaureum erythraea</i>	Centaury
<i>Dactylanthus taylorii</i>	Wood rose
* <i>Digitalis purpurea</i>	Foxglove
* <i>Duchesnea indica</i>	Indian strawberry
<i>Epilobium pedunculare</i> ss	
<i>Geranium potentilloides</i>	
* <i>Geranium robertianum</i>	Herb Robert
<i>Gonocarpus micranthus</i>	
<i>Haloragis erecta</i> ssp. <i>erecta</i> agg.	Toatoa
<i>Hydrocotyle dissecta</i>	
<i>Hydrocotyle elongata</i>	
<i>Hydrocotyle heteromeria</i>	Wax weed
<i>Hydrocotyle moschata</i>	
<i>Hypericum japonicum</i>	Matted St John's wort
* <i>Hypericum perforatum</i>	St John's wort
* <i>Lotus pedunculatus</i>	Lotus major
<i>Oxalis exilis</i> ss.	Yellow oxalis; creeping oxalis
* <i>Pelargonium inodorum</i>	
* <i>Plantago australis</i>	Swamp plantain
* <i>Plantago lanceolata</i>	Ribwort; narrow-leaved plantain
* <i>Plantago major</i>	Broad-leaved plantain
* <i>Potentilla vesca</i>	Mountain strawberry
* <i>Prunella vulgaris</i>	Selfheal
* <i>Ranunculus acris</i> ssp. <i>acris</i>	Giant buttercup
<i>Ranunculus reflexus</i>	Maruru; hairy buttercup
* <i>Ranunculus repens</i>	Creeping buttercup
* <i>Sagina procumbens</i>	Procumbent pearlwort
* <i>Solanum nigrum</i>	Black nightshade
<i>Stellaria parviflora</i>	
<i>Urtica incisa</i>	Stinging nettle

Monocotyledonous trees and shrubs

<i>Cordyline australis</i>	Cabbage tree; ti-kouka
<i>Cordyline banksii</i>	Forest cabbage tree; ti ngahere
<i>Cordyline indivisa</i>	Toi; broad-leaved cabbage tree

Monocotyledonous lianes

<i>Ripogonum scandens</i>	Supplejack; kareao
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Sedges

<i>Carex breviculmis</i>
<i>Carex solandri</i>
<i>Gabnia setifolia</i>

Isolepis distigmata
Morelotia affinis
Uncinia gracilentia
Uncinia longifructus
Uncinia scabra
Uncinia uncinata

Watu

Rushes and allied plants

- * *Juncus tenuis* var. *tenuis*
- * *Luzula congesta*

Track rush

Grasses

- * *Agrostis capillaris*
- Cortaderia fulvida*
- * *Dactylis glomerata*
- Hierochloe redolens*
- * *Holcus lanatus*
- * *Lolium multiflorum*
- Poa cita*
- * *Schedonorus arundinaceus*

Browntop
Kakaho; toetoe
Cocksfoot
Sweet-scented holy grass
Yorkshire fog
Italian ryegrass
Silver tussock
Tall fescue

Remaining Monocotyledonous herbs

Arthropodium candidum
Astelia fragrans
Astelia solandri
Collospermum microspermum
Dianella nigra
Phormium cookianum ssp. *cookianum*

Star lily; repehinapapa
Bushflax; kakaha
Kowharawhara

Blueberry; turutu
Mountain flax; wharariki

Orchids

Corunastylis nuda
Earina autumnalis
Earina mucronata
Nematoceras trilobum
Orthoceras novae-zeelandiae

Easter orchid; raupeka
Spring orchid; peka-a-waka
Spider orchid