

Kaimai Range, Dickey Flat to Mangakino Stream crossing

Graeme Jane and Gael Donaghy

A good-sized group from Waikato Botanical Society and just three from Rotorua Botanical Society met at Dickey Flat, by the Waiteweta River, south of the Karangahake Gorge. After some discussion about the threatening weather and other options the group headed up river towards Mangakino Stream crossing to soon be greeted by the first of several light showers.

The first 10-minute section was across pasture on a stream terrace to where the route entered forest through a kahikatea pole stand. Here the understorey was quite limited, as expected in the dense stand. Plants of interest included patches of parataniwha with young nikau along a small seepage and the occasional *Streblus heterophyllus* or native passion fruit straggling into the canopy. From there the track was squeezed between the river and a steep 200-250 m tall scarp face. The forest consisted of a narrow stretch of tawa forest with ricker kauri on the spurs and some of the east-facing cliffs and areas of slump scrub from slips off the scarp.

The track soon led high above the river through tawa forest with mahoe and tree ferns. It was not long before we spotted our first lot of *Corybas trilobus* leaves and soon a few flowers with the typical red stripes on the broad labellum face. Ferns of interest here included the common maidenhair, *Adiantum cunninghamii*, *A. viridescens* with its hairy rachis and *A. diaphanum* with usually unforked frond with fine hairs beneath the pinnules. Large rocks nearby were also clothed in *Trichomanes enderlicherianum*.

A recent slip was a mass of weeds including poroporo, foxglove, inkweed, toatoa, *Cotoneaster glaucophyllus* and buddeia. On the descent back to the river the occasional kohehohe, titoki, mangeo and puriri were present in the tawa forest. It had a rather bare and rocky substrate and little understorey. Occasional *Trichomanes elongatum* was secreted away in dark shady and damp corners, often under rocks.

After the track descended to the river bank we were greeted by swathes of crocosmia, three-cornered garlic and *Selaginella kraussiana* lining the track, and views of pasture across the river. Perhaps the main redeeming feature here was *Rhabdothamnus solandri* with scattered flowers and the occasional *Alseuosmia macrophylla* scenting the forest. Fortunately, the track soon entered alleys of tree

ferns, mainly wheki, as the river narrowed into a gorge with vistas of kauri on the steep faces across the river. In wet areas watercress, *Carex secta* and the invasive *C. divulsa* were present along with tufts of the broadleaved *Juncus planifolius*.

As the track wandered away from the river the *Alseuosmia* became quite common and we began to see orchids along the track banks, including *Corybas oblongus* and *Pterostylis banksii* or occasional *P. trullifolia* and *P. alobula*, all in flower. Here there was a rich array of filmy ferns with *Hymenophyllum demissum* common on the ground and *H. flabellatum* or *Trichomanes venosum* clothing the older tree ferns. Special attention was paid to a sole ramarama on the river bank, confirming it was free of myrtle rust as is the case with most wild populations of that species.

After lunch by the river, sheltering under a high track bank from the drizzle, we finally reached a few large kauri that marked the start of the ricker kauri and tanekaha stands. Here we began to see some typical kauri associates: toru, *Mida salicifolia* (in flower), tall *Coprosma arborea*, the dwarf *Cordyline pumilio*, the bronze *Pseudopanax discolor* and typical kauri orchids including the delicate *Cyrtostylis oblongus*, *Pterostylis agathicola*, and lots of the well-named *Corybas acuminatus*. Shrubs of particular interest and eagerly photographed were *Hebe corriganii* and *Brachyglottis kirkii* var. *angustifolia*, both in flower. The latter is quite common along the Kaimai Range fringes now that browsing pressures are low.

Further up the gorge plants that prefer cooler sites began to appear including tawari and *Dracophyllum latifolium*. At a rocky section *Pterostylis trullifolia* was particularly common, along with *Macheriana sinclairii*, swathes of kiokio and *Cordyline banksii* in a wetter section. Finally, just after a couple of huge old kauri, we reached an old river crossing. This marked the start of a brand new track section so we headed back, as the rain became more persistent.

Kaimai Range, Dickey Flat upriver to first crossing – species list

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Gymnosperm trees and shrubs

<i>Agathis australis</i>	kauri
* <i>Chamaecyparis lawsoniana</i>	Lawson's cypress
<i>Dacrycarpus dacrydioides</i>	kahikatea, white pine
<i>Dacrydium cupressinum</i>	rimu, red pine
<i>Phyllocladus trichomanoides</i>	tanekaha; celery pine

* <i>Pinus radiata</i>	Monterey pine; radiata
<i>Podocarpus laetus</i>	Hall's totara; thin bark totara
<i>Podocarpus totara</i> var. <i>totara</i>	totara
<i>Prumnopitys ferruginea</i>	miro; brown pine
<i>Prumnopitys taxifolia</i>	matai; black pine

Monocotyledonous trees and shrubs

<i>Cordyline australis</i>	cabbage tree; ti-kouka
<i>Cordyline banksii</i>	forest cabbage tree; ti ngahere
<i>Cordyline pumilio</i>	ti rauriki; dwarf cabbage tree
<i>Rhopalostylis sapida</i>	nikau

Dicotyledonous trees and shrubs

* <i>Acacia melanoxylon</i>	Tasmanian blackwood
<i>Alectryon excelsus</i> ssp. <i>excelsus</i>	titoki
<i>Alseuosmia macrophylla</i>	toropapa; shrubby honeysuckle
<i>Aristotelia serrata</i>	wineberry; makomako
<i>Beilschmiedia tawa</i>	tawa
<i>Brachyglottis kirkii</i> var. <i>angustior</i>	
<i>Brachyglottis repanda</i>	rangiora; bushman's friend
<i>Carmichaelia australis</i>	whip broom; maukoro
<i>Carpodetus serratus</i>	putaputaweta; marbleleaf
<i>Coprosma arborea</i>	mamangi; tree coprosma
<i>Coprosma autumnalis</i>	raurekau; kanono; mamono
<i>Coprosma lucida</i>	karamu; shining karamu
<i>Coprosma rhamnoides</i>	thorny coprosma
<i>Coprosma robusta</i>	karamu
<i>Coriaria arborea</i> var. <i>arborea</i>	tree tutu
* <i>Cotoneaster glaucophyllus</i>	
<i>Dracophyllum latifolium</i>	needle-leaved neinei
<i>Dysoxylum spectabile</i>	kohekohe
<i>Fuchsia excorticata</i>	fuchsia; kotukutuku
<i>Fuscopora truncata</i>	hard beech; tawhairaunui
<i>Gaultheria antipoda</i>	snowberry; tawiniwini
<i>Geniostoma ligustrifolium</i> var. <i>ligustrifolium</i>	hangehange; privet
<i>Griselinia lucida</i>	puka
* <i>Hakea salicifolia</i>	willow-leaved hakea
<i>Hebe corriganii</i>	purple-flowered hebe
<i>Hedycarya arborea</i>	pigeonwood; porokaiwhiri
<i>Ixerba brexioides</i>	tawari
<i>Knightia excelsa</i>	rewarewa; NZ honeysuckle
<i>Kunzea ericoides</i>	kanuka; white teatree
<i>Laurelia novae-zelandiae</i>	pukatea
<i>Leptecophylla juniperina</i> ssp. <i>juniperina</i>	
<i>Leptospermum scoparium</i> var. <i>scoparium</i>	manuka; red teatree

<i>Leucopogon fasciculatus</i>	mingimingi; kaikaitau
* <i>Ligustrum sinense</i>	Chinese privet
<i>Litsea calicaris</i>	mangeo
<i>Lophomyrtus bullata</i>	ramarama
<i>Melicytus ramiflorus</i> ssp. <i>ramiflorus</i>	mahoe
<i>Mida salicifolia</i>	willow-leaved maire
<i>Myrsine australis</i>	red matipo; mapou
<i>Nestegis lanceolata</i>	white maire
<i>Olearia rani</i> var. <i>colorata</i>	heketara
<i>Pennantia corymbosa</i>	kaikomako
<i>Piper excelsum</i> ssp. <i>excelsum</i>	kawakawa; pepper tree
<i>Pittosporum tenuifolium</i>	black matipo; kohuhu
<i>Pseudopanax crassifolius</i>	lancewood; horoeka
<i>Pseudopanax discolor</i>	
<i>Quintinia serrata</i>	Westland quintinia; tawheowheo
<i>Rhabdothamnus solandri</i>	taurepo; waiutua; kaikai aruhe
* <i>Rhaphiolepis bibas</i> (syn. <i>Eriobotrya japonica</i>)	loquat
<i>Schefflera digitata</i>	pate; patae; kotete
<i>Streblus heterophyllus</i>	turepo; milk tree
<i>Toronia toru</i>	toru
* <i>Ulex europaeus</i>	gorse
<i>Vitex lucens</i>	pururi; kauere
<i>Weinmannia racemosa</i>	kamahi; towai; tawhero

Monocotyledonous lianes

<i>Freycinetia banksii</i>	kiekie
<i>Ripogonum scandens</i>	supplejack; kareao

Dicotyledonous lianes and related trailing plants

<i>Clematis paniculata</i>	clematis; puawhananga
* <i>Lonicera japonica</i>	Japanese honeysuckle
<i>Metrosideros colensoi</i>	
<i>Metrosideros diffusa</i>	white climbing rata; akatea
<i>Metrosideros fulgens</i>	scarlet rata; winter rata
<i>Metrosideros perforata</i>	aka; small white rata; torotoro
<i>Muehlenbeckia australis</i>	pohuehue
<i>Parsonsia heterophylla</i>	maori jasmine; kaihu; kaiwhiria
<i>Passiflora tetrandra</i>	passionfruit; kohia
<i>Rubus cissoides</i>	bush lawyer; tataramoa
* <i>Rubus fruticosus</i>	blackberry

Psilopsids, Lycopods & Quillworts

<i>Lycopodiella cernua</i>	
<i>Lycopodium deuterodensum</i>	puakarimu
<i>Lycopodium volubile</i>	waewae-koukou; climbing clubmoss

Phlegmariurus varius
* *Selaginella kraussiana*

hanging clubmoss; iwituna

Ferns

<i>Adiantum cunninghamii</i>	maiden hair fern
<i>Adiantum diaphanum</i>	small maidenhair
<i>Adiantum viridescens</i>	
<i>Asplenium bulbiferum</i>	hen and chickens fern; moku
<i>Asplenium flaccidum</i>	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 discolor</i>	crown fern; piupiu; petipeti
<i>Blechnum filiforme</i>	Climbing hard fern; thread fern
<i>Blechnum fluviatile</i>	kiwakiwa; kiwikiwi
<i>Blechnum minus</i>	swamp kiokio
<i>Blechnum novae-zelandiae</i>	kiokio
<i>Blechnum parrisiae</i>	pukupuku; rasp fern
<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>Deparia petersenii</i> ssp. <i>congrua</i>	
<i>Dicksonia fibrosa</i>	wheki-ponga; kuripaka
<i>Dicksonia squarrosa</i>	wheki; harsh tree fern
<i>Diplazium australe</i>	
<i>Hymenophyllum demissum</i>	piripiri; irirangi
<i>Hymenophyllum dilatatum</i>	lop-sided filmy fern
<i>Hymenophyllum flabellatum</i>	fan fern
<i>Hymenophyllum nephrophyllum</i>	kidney fern; raurenga
<i>Hymenophyllum revolutum</i>	
<i>Hymenophyllum sanguinolentum</i>	blood-scented filmy fern
<i>Lastreopsis glabella</i>	felted fern
<i>Lastreopsis hispida</i>	hairy fern, hairy legs
<i>Lastreopsis microsora</i> ssp. <i>pentangularis</i>	
<i>Leptopteris hymenophylloides</i>	single crepe fern; heruheru
<i>Loxogramme dictyopteris</i>	sexy fern
<i>Lygodium articulatum</i>	mangemange; bushman's mattress
<i>Microsorium pustulatum</i> ssp. <i>pustulatum</i>	hound's tongue; kowaowao
<i>Microsorium scandens</i>	mokimoki; fragrant fern
<i>Notogrammitis ciliata</i>	hairy strap fern
<i>Notogrammitis heterophylla</i>	
<i>Paesia scaberula</i>	scented fern; matata; ring fern
<i>Pellaea falcata</i>	
<i>Pellaea rotundifolia</i>	tarawera; button fern
<i>Pneumatopteris pennigera</i>	gully fern; pakau; pakauroharoha

<i>Polystichum wawranum</i>	common shield fern; pikopiko
<i>Pteris macilenta</i>	sweet fern
<i>Pyrrosia elaeagnifolia</i>	leather-leaf fern
<i>Rumohra adiantiformis</i>	butcher's fern
<i>Tmesipteris elongata</i>	
<i>Tmesipteris lanceolata</i>	
<i>Tmesipteris sigmatifolia</i>	
<i>Tmesipteris tannensis</i>	chain fern; fork fern
<i>Trichomanes elongatum</i>	bristle fern
<i>Trichomanes endlicherianum</i>	rock mat fern
<i>Trichomanes venosum</i>	veined bristle fern

Orchids

<i>Acianthus sinclairii</i>	heart-leaf orchid
<i>Bulbophyllum pygmaeum</i>	
<i>Caladenia chlorostyla</i>	
<i>Corybas "Kaimai"</i>	
<i>Corybas acuminatus</i>	
<i>Corybas oblongus</i>	
<i>Corybas trilobus</i>	
<i>Corybas trilobus</i>	
<i>Cyrtostylis oblonga</i>	
<i>Dendrobium cunninghamii</i>	bamboo orchid
<i>Drymoanthus adversus</i>	
<i>Earina autumnalis</i>	Easter orchid; raupeka
<i>Earina mucronata</i>	spring orchid; peka-a-waka
<i>Pterostylis agathicola</i>	
<i>Pterostylis banksii</i>	tutukiwi
<i>Pterostylis graminea</i>	grassy hooded orchid
<i>Pterostylis trullifolia</i>	trowel-leaved orchid
<i>Thelymitra longifolia</i>	white sun orchid
<i>Thelymitra pauciflora</i>	

Grasses

* <i>Agrostis capillaris</i>	browntop
* <i>Anthoxanthum odoratum</i>	sweet vernal
<i>Austroderia fulvida</i>	kakaho; toetoe
* <i>Dactylis glomerata</i>	cocksfoot
* <i>Glyceria declinata</i>	glaucous sweet grass
* <i>Holcus lanatus</i>	Yorkshire fog
* <i>Lolium arundinaceum</i>	tall fescue
<i>Microlaena avenacea</i>	bush rice grass; oat grass
<i>Microlaena stipoides</i>	forest rice grass
* <i>Miscanthus nepalensis</i>	Himalayan fairy grass
<i>Oplismenus hirtellus ssp. imbecillis</i>	oat grass

- * *Poa annua* annual poa
- Rytidosperma gracile* forest fairy grass

Sedges

- Carex geminata* "large"
- Carex banksiana*
- Carex dipsacea*
- Carex dissita*
- * *Carex divulsa*
- Carex forsteri*
- Carex secta* niggerhead; pukio
- Carex uncinata* watu
- * *Cyperus eragrostis*
- Gahnia lacera*
- Gahnia setifolia*
- Isolepis inundata*
- Isolepis subtilissima*
- Machaerina sinclairii* broad-leaved sedge
- Morelotia affinis*
- Schoenus maschalinus*
- Schoenus tendo*

Rushes and allied plants

- * *Juncus articulatus* jointed rush
- Juncus planifolius*
- Luzula subclavata*

Remaining Monocotyledonous herbs

- * *Allium triquetrum* three-cornered garlic
- Astelia fragrans* bushflax; kakaha
- Astelia hastata* kahakaha
- Astelia solandri* kowharawhara
- Astelia trinervia*
- * *Crocsmia ×crocsmiiflora* montbretia
- Dianella nigra* blueberry; turutu
- Libertia grandiflora*
- Phormium cookianum* ssp. *cookianum* mountain flax; wharariki
- Phormium tenax* flax
- * *Tradescantia fluminensis* wandering Jew

Daisy-like herbs

- Anaphalioides trinervis* puatea
- * *Bellis perennis* lawn daisy
- * *Cirsium vulgare* Scotch thistle
- * *Crepis capillaris* hawkesbeard
- * *Erigeron karvinskianus* Mexican daisy

* <i>Erigeron sumatrensis</i>	broad-leaved fleabane
<i>Euchiton involucratus</i>	creeping cudweed
* <i>Gamochaeta coarctata</i>	
* <i>Hypochaeris radicata</i>	catsear
* <i>Jacobaea vulgaris</i>	ragwort
* <i>Leucanthemum vulgare</i>	oxeye daisy
* <i>Mycelis muralis</i>	wall lettuce
<i>Senecio bipinnatisectus</i>	Australian fireweed
* <i>Sonchus asper</i>	prickly sow thistle; puha
* <i>Sonchus oleraceus</i>	sow thistle; puha; puka

Dicotyledonous herbs other than Daisies

* <i>Callitriche stagnalis</i>	starwort
<i>Cardamine forsteri</i>	
* <i>Digitalis purpurea</i>	foxglove
<i>Drosera auriculata</i>	
<i>Elatostema rugosum</i>	parataniwha
<i>Epilobium pedunculare</i>	
* <i>Galium aparine</i>	cleavers
* <i>Galium palustre</i>	marsh bedstraw
* <i>Geranium robertianum</i>	herb Robert
<i>Haloragis erecta</i> ssp. <i>erecta</i>	toatoa
<i>Hydrocotyle dissecta</i>	
<i>Hydrocotyle elongata</i>	
<i>Lobelia angulata</i>	panakenake
* <i>Lotus pedunculatus</i>	lotus major
* <i>Ludwigia palustris</i>	water purslane
* <i>Myosotis laxa</i> ssp. <i>caespitosa</i>	water forget-me-not
* <i>Nasturtium officinale</i>	watercress
<i>Nertera depressa</i>	common nertera
<i>Nertera dichondrifolia</i>	hairy nertera
* <i>Oxalis incarnata</i>	pale oxalis; lilac oxalis
<i>Oxalis magellanica</i>	white oxalis
<i>Peperomia urvilleana</i>	wharanui
* <i>Phytolacca octandra</i>	inkweed
* <i>Plantago lanceolata</i>	ribwort; narrow-leaved plantain
* <i>Potentilla indica</i>	Indian strawberry
* <i>Prunella vulgaris</i>	selfheal
* <i>Ranunculus flammula</i>	spearwort
<i>Ranunculus reflexus</i>	maruru; hairy buttercup
<i>Stellaria parviflora</i>	
* <i>Trifolium repens</i>	white clover
<i>Urtica sykesii</i>	stinging nettle
<i>Wahlenbergia violacea</i>	blue harebell; rimu-roa