

## EXCURSION TO OHOPE SCENIC RESERVE

Sarah Beadel

A keen group of botanists gathered at the bottom of Ohope Hill on 7 June 2008. We hatched a plan to walk up through Ohope Scenic Reserve to Burma Road, drop down into the Maraetotara Stream, explore the *Carex geminata* wetland (in the Reserve), then down Burma Road to Maraetotara, and then back along the beach to the cars. All went according to plan. We were fortunate to have Mark Smale along on the trip who had spent long hours in the reserve in his youth, and who had found maire tawake (swamp maire; *Syzygium maire*) and *Peperomia tetraphylla* there back in the late 1960s.

The walk up the hill to Burma Road was fairly uneventful. In 1984 Willie Shaw and I had undertaken a biological survey of the reserve for DSIR Botany Division and the Department of Lands and Survey (Beadel and Shaw 1988). As part of this we had compiled a vascular plant species list. One of the main additions on the way up the hill was climbing asparagus (*Asparagus scandens*), a serious problem weed that was not present in 1984.

We spent some time looking for *Adelopetalum tuberculatum* (*Bulbophyllum tuberculatum*), as it is present in similar habitat in the nearby Mokoroa Gorge Scenic Reserve, however we had no luck with these endeavours. We did see several populations of *Bulbophyllum pygmaeum* though, and some *Pterostylis alobula* in flower. Mangeao (*Litsea calicaris*) was also flowering, as was the kohekohe (*Dysoxylum spectabile*) - although only a few flower spikelets were observed, compared with those seen by the author recently on D'Urville Island - a possum-free paradise - where the kohekohe trunks and branches were festooned with flowers. We also found a small population of *Callitriche petriei* beside the track. *Carex lambertiana* was locally common along the track side near the bottom of the track.

Once at the top of Burma Road we pressed on, planning to have lunch at the stream. We passed the old “Whakatane rubbish tip”, which has been the subject of ongoing weed control operations ever since DOC was established. Unfortunately, when we reached the stream bed we saw just how futile these efforts had been as we found a major tradescantia infestation extending many tens of metres along the stream. Serious consideration should be given to attempting control of this infestation, as left untreated it will, over time, continue to spread through the reserve.

However, to back track a little, as we progressed down a spur in the stream, we were regaled with tales of Mark’s adventures here when he was a teenager, and we were lucky enough to see a relatively large population of *Peperomia tetraphylla* - some 40-50 plants on a kohekohe tree - and also one plant on a mamaku trunk lying on the ground.

We made our way down into the stream for lunch, during which one sharp-eyed botanist found a maire tawake (swamp maire) seedling. We searched for a larger specimen as we pushed our way through the dense *Carex geminata*, but failed to locate one, although we did see a few pukatea (*Laurelia novae-zelandiae*) and pole kahikatea (*Dacrycarpus dacrydioides*). Several side gullies were left unexplored, so adult maire tawake could still be lurking in the reserve. The tree that Mark Smale saw in his youth is long gone though (M.C. Smale pers. comm.).

A few additions to the species list were located in the *Carex geminata* wetland, including swamp millet (*Isachne globosa*) and *Eleocharis acuta*. We also saw a fernbird.

Once we exited the wetland we walked down Maraetotara Road to Ohope Beach, past an interesting looking wetland where DOC has recently undertaken a grey willow control programme. We were tempted to go and explore, but decided to save it for another time.

The exotic tree that we saw in this area that was the subject of much debate was *Cinnamomum camphora*.

Once out on the beach we were disappointed to find how degraded the dune vegetation was, and to see the level of modification. However, despite this, several indigenous species were present, including spinifex (*Spinifex sericeus*), pingao (*Desmoschoenus spiralis*; probably planted), *Muehlenbeckia complexa*, *Ficinia nodosa*, *Oxalis rubens*, and *Lachnagrostis billardierei*. Several other indigenous sand dune species had been planted locally, including sand tussock (hinarepe; *Austrofestuca littoralis*), *Euphorbia glauca*, spinach (*Tetragonia implexicoma*), *Ozothamnus leptophylla*, and *Carex testacea*. In general, the plantings were excellent, but it was disappointing to see examples of sand tussock and *Lachnagrostis billardierei* having recently been sprayed to make way for new plantings of spinifex and pingao.

There were numerous exotic weeds on the dunes, including gazania (*Gazania linearis*), dimorphotheca (*Osteospermum fruticosum*), agave, Japanese spindle tree (*Euonymus japonicus*), *Acacia longifolia* subsp. *sophorae*, sea rocket (*Cakile maritime*), haretail (*Lagurus ovatus*), kikuyu (*Pennisetum clandestinum*), and buffalo grass (*Stenotaphrum secundatum*).

At the mouth of the Ohope School Stream there was a good population of *Carex pumila* and a small population of *Bolboschoenus*.

We made it back to the café in time for several of the group to have lattes, and managed to avoid the rain all day.

## **ACKNOWLEDGMENTS**

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## **REFERENCES**

Beadel S.M., Shaw W.B. 1988: Scenic and Allied Reserves of the Taneatua Ecological District, Eastern Bay of Plenty. *Biological Survey of Reserves Report No. 12*. Department of Conservation, Wellington. 138 pp.

## VASCULAR PLANTS OF OHOPE SCENIC RESERVE

Sarah Beadel and William Shaw  
(1984 and 2008 additions)

### INDIGENOUS SPECIES

#### Gymnosperms

<i>Dacrycarpus dacrydioides</i>	kahikatea
<i>Dacrydium cupressinum</i>	rimu
<i>Podocarpus totara</i> (possibly planted)	totara
<i>Prumnopitys ferruginea</i>	miro

#### Monocot. trees and shrubs

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

#### Dicot. trees and shrubs

<i>Alectryon excelsus</i> var. <i>excelsus</i>	titoki
<i>Aristotelia serrata</i>	makomako, wine-berry
<i>Beilschmiedia tawa</i>	tawa
<i>Brachyglottis repanda</i> s.s.	rangiora
<i>Carmichaelia australis</i>	makaka, maukoro
<i>Carpodetus serratus</i>	putaputaweta
<i>Coprosma grandifolia</i>	kanono
<i>Coprosma lucida</i>	karamu
<i>Coprosma robusta</i>	karamu
<i>Coprosma spathulata</i> subsp. <i>spathulata</i>	
<i>Coriaria arborea</i> var. <i>arborea</i>	tutu
<i>Corynocarpus laevigatus</i>	karaka
<i>Dodonaea viscosa</i>	akeake
<i>Dracophyllum strictum</i>	totorowhiti
<i>Dysoxylum spectabile</i>	kohekohe
<i>Elaeocarpus dentatus</i> (incl <i>E. d.</i> var. <i>obovatus</i> )	hinau
<i>Entelea arborescens</i>	whau

<i>Fuchsia excorticata</i>	kotukutuku
<i>Gaultheria antipoda</i>	tawiniwini
<i>Geniostoma rupestre</i> var. <i>ligustrifolium</i>	hangehange
<i>Griselinia lucida</i>	puka
<i>Hebe stricta</i> var. <i>macroura</i>	koromiko
<i>Hebe stricta</i> var. <i>stricta</i>	koromiko
<i>Hedycarya arborea</i>	porokaiwhiri
<i>Knightia excelsa</i>	rewarewa
<i>Kunzea ericoides</i>	
<i>Laurelia novae-zealandiae</i>	pukatea
<i>Leptecophylla juniperina</i>	prickly mingimingi
<i>Leptospermum scoparium</i>	manuka
<i>Leucopogon fasciculatus</i>	mingimingi
<i>Leucopogon fraseri</i>	patotara
<i>Litsea calicaris</i>	mangeao
<i>Macropiper excelsum</i> var. <i>excelsum</i>	kawakawa
<i>Melicope ternata</i>	wharangi
<i>Melicytus ramiflorus</i> subsp. <i>ramiflorus</i>	mahoe
<i>Metrosideros excelsa</i>	pohutukawa
<i>Metrosideros excelsa</i> x <i>M. robusta</i>	
<i>Myoporum laetum</i>	ngaio
<i>Myrsine australis</i>	mapou
<i>Nestegis lanceolata</i>	white maire
<i>Olearia rani</i>	heketara
<i>Pimelea tomentosa</i>	
<i>Pittosporum crassifolium</i>	kohuhu
<i>Pittosporum tenuifolium</i> subsp. <i>tenuifolium</i>	kohuhu
<i>Pomaderris</i> aff. <i>phyllicifolia</i>	
<i>Pseudopanax arboreus</i> var. <i>arboreus</i>	whauwhaupaku, five finger
<i>Pseudopanax crassifolius</i>	horoeka, lancewood
<i>Pseudopanax lessonii</i>	houpara
<i>Schefflera digitata</i>	pate
<i>Solanum aviculare</i> var. <i>aviculare</i> (incl. <i>S. a.</i> var. <i>albiflorum</i> and <i>S. cheesemanii</i> )	poroporo
<i>Syzygium maire</i> (M.C. Smale pers. comm. late 1960s, one seedling seen in 2008)	maire tawake, swamp maire
<i>Vitex lucens</i>	puriri
<i>Weinmannia racemosa</i>	kamahi
<b>Monocot. lianes</b>	
<i>Freycinetia banksii</i>	kiekie
<i>Ripogonum scandens</i>	kareao, supplejack

## Dicot. lianes

<i>Calystegia tuguriorum</i>	
<i>Clematis cunninghamii</i>	ngakau-kiore
<i>Clematis foetida</i>	akakaiku
<i>Clematis paniculata</i>	puawananga
<i>Metrosideros diffusa</i>	rata
<i>Metrosideros fulgens</i>	rata
<i>Metrosideros perforata</i>	aka
<i>Muehlenbeckia australis</i>	puka
<i>Muehlenbeckia complexa</i>	pohuehue
<i>Parsonsia capsularis</i>	akakiore
<i>Parsonsia heterophylla</i>	akakaikiore
<i>Passiflora tetrandra</i>	kohia
<i>Rubus schmidelioides</i>	akatataramoa

### Lycopods and psilopsids

<i>Huperzia varia</i>	Whiri-o-Raukatauri
<i>Lycopodium deuterodensum</i>	puakarimu
<i>Tmesipteris elongata</i>	
<i>Tmesipteris lanceolata</i>	
<i>Tmesipteris sigmatifolia</i>	

### Ferns

<i>Adiantum cunninghamii</i>	huruhuru tapairu
<i>Adiantum diaphanum</i>	huruhuru tapairu
<i>Adiantum fulvum</i>	huruhuru tapairu
<i>Anarthropteris lanceolata</i>	
<i>Arthropteris tenella</i>	
<i>Asplenium bulbiferum</i> s.s.	mouku
<i>Asplenium flabellifolium</i>	necklace fern
<i>Asplenium oblongifolium</i>	huruhuruwhenua
<i>Asplenium polyodon</i>	petako
<i>Blechnum chambersii</i>	rereti
<i>Blechnum colensoi</i>	peretao
<i>Blechnum discolor</i>	petipeti, crown fern
<i>Blechnum filiforme</i>	panako
<i>Blechnum membranaceum</i>	
<i>Blechnum novae-zelandiae</i> s.s.	kiokio
<i>Ctenopteris heterophylla</i>	
<i>Cyathea cunninghamii</i>	punui
<i>Cyathea dealbata</i>	ponga
<i>Cyathea medullaris</i>	mamaku
<i>Dicksonia squarrosa</i>	wheki
<i>Diplazium australe</i>	
<i>Doodia australis</i>	pukupuku

<i>Gleichenia microphylla</i>	waewaekaka
<i>Hymenophyllum demissum</i>	irirangi
<i>Hymenophyllum flabellatum</i>	mauku
<i>Hymenophyllum sanguinolentum</i>	piripiri
<i>Lastreopsis glabella</i>	
<i>Lastreopsis hispida</i>	
<i>Leptopteris hymenophylloides</i>	heruheru
<i>Microsorium pustulatum</i>	kowaowao, hounds tongue fern
<i>Microsorium scandens</i>	mokimoki
<i>Paesia scaberula</i>	matata
<i>Pellaea rotundifolia</i>	tarawera, button fern
<i>Pneumatopteris pennigera</i>	pakau
<i>Polystichum wanranum</i> (NI)	
<i>Pteridium esculentum</i>	bracken, rarahu
<i>Pteris macilenta</i> (of NZ authors)	
<i>Pteris tremula</i>	turawera, shaking brake
<i>Pyrrosia eleagnifolia</i>	leather-leaf fern
<i>Rumohra adiantiformis</i>	
<i>Trichomanes endlicherianum</i>	
<i>Trichomanes venosum</i>	

## Orchids

<i>Diplodium alobulum</i>	
<i>Diplodium trullifolium</i>	
<i>Drymoanthus adversus</i>	
<i>Earina autumnalis</i>	
<i>Earina mucronata</i>	
<i>Ichtyostomum pygmaeum</i>	
<i>Microtis unifolia</i> agg. (includes <i>M. aff. unifolia</i> )	
<i>Orthoceras novae-zeelandiae</i>	
<i>Pterostylis banksii</i>	
<i>Thelymitra longifolia</i> agg.	
<i>Thelymitra pauciflora</i> agg.	
<i>Winika cunninghamii</i>	

## Grasses

<i>Cortaderia fulvida</i>	toetoe
<i>Dichelachne avenoides</i>	
<i>Dichelachne crinita</i>	patiti
<i>Echinopogon ovatus</i>	
<i>Isachne globosa</i>	swamp millet
<i>Microlaena avenacea</i>	bush rice grass
<i>Microlaena stipoides</i>	patiti
<i>Oplismenus hirtellus</i> subsp. <i>imbecillis</i>	

*Poa anceps* subsp. *anceps*

*Rytidosperma gracile*

*Rytidosperma unarede*

### **Sedges**

*Carex breviculmis*

*Carex dissita*

*Carex flagellifera*

manaia

*Carex forsteri*

*Carex secta*

purei

*Carex solandri*

*Carex spinirostris*

*Carex virgata*

*Carex* sp. (*C. geminata* agg.)

rautahi

*Cyperus ustulatus*

toetoe upokotangata

*Eleocharis acuta*

*Ficinia nodosa*

wiwi

*Gahnia pauciflora*

takahikahi

*Gahnia setifolia*

mapere

*Machaerina sinclairii*

tuhara

*Morelotia affinis*

*Schoenus tendo*

wiwi

*Uncinia banksii*

matau

*Uncinia scabra*

matau

*Uncinia uncinata*

kamu, matau a Maui

*Uncinia zotovii*

matau

### **Rushes**

*Juncus edgariae*

wi

*Juncus planifolius*

*Luzula picta* var. *picta*

### **Monocot. herbs (other than orchids, grasses, sedges and rushes)**

*Astelia solandri*

kowharawhara

*Collospermum hastatum*

kahakaha

*Collospermum microspermum*

*Dianella nigra*

turutu

*Libertia grandiflora*

mikoikoi

*Typha orientalis*

raupo

### **Composite herbs**

*Pseudognaphalium luteoalbum* agg.

pukatea

### **Dicot. herbs (other than composites)**

<i>Acaena anserinifolia</i>	piripiri
<i>Callitriche petriei</i>	
<i>Cardamine debilis</i>	
<i>Dichondra repens</i> agg.	Mercury Bay weed
<i>Drosera auriculata</i>	
<i>Epilobium pedunculare</i>	
<i>Gonocarpus incanus</i>	piripiri
<i>Gunnera monoica</i>	
<i>Haloragis erecta</i> subsp. <i>erecta</i>	toatoa
<i>Lobelia anceps</i>	punakuru
<i>Nertera depressa</i>	
<i>Oxalis magellanica</i>	
<i>Oxalis lactea</i>	
<i>Oxalis</i> sp.	
<i>Peperomia tetraphylla</i> (M.C. Smale pers. comm.)	
<i>Peperomia urvilleana</i>	
<i>Pratia angulata</i>	panakenake
<i>Ranunculus reflexus</i>	maruru

## ADVENTIVE SPECIES

Note: Several other ornamental trees and shrubs, not listed here, are present on the seaward side of the Whakatane-Ohope Highway

### Gymnosperms

<i>Pinus radiata</i>	radiata pine
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### Dicot. trees and shrubs

<i>Acacia mearnsii</i>	black wattle
<i>Berberis glaucocarpa</i>	barberry
<i>Buddleja davidii</i>	buddleia
<i>Cotoneaster glaucophyllus</i>	cotoneaster
<i>Dendrobenthamia capitata</i>	strawberry dogwood
<i>Eriobotrya japonica</i>	loquat
<i>Eucalyptus</i> sp.	eucalyptus
<i>Fuchsia</i> sp.	
<i>Hypericum androsaemum</i>	tutsan
<i>Lupinus arboreus</i>	lupin
<i>Paraserianthes lophantha</i>	brush wattle
<i>Populus alba</i> cv. <i>Nivea</i>	silver poplar
<i>Rosa rubiginosa</i>	sweet brier
<i>Rubus phoenicolasius</i>	Japanese wineberry
<i>Rubus</i> sp. ( <i>R. fruticosus</i> agg.)	blackberry

<i>Salix cinerea</i>	grey willow
<i>Salix fragilis</i>	crack willow
<i>Ulex europaeus</i>	gorse

### **Dicot. lianes**

<i>Calystegia silvatica</i>	
<i>Ipomoea indica</i>	blue morning glory
<i>Lonicera japonica</i>	Japanese honeysuckle

### **Monocot. trees and shrubs**

<i>Musa x paradisiacal</i>	banana palm
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### **Grasses**

<i>Agrostis capillaris</i>	browntop
<i>Anthoxanthum odoratum</i>	sweet vernal
<i>Briza minor</i>	shivery grass
<i>Bromus diandrus</i>	ripgut brome
<i>Bromus hordeaceus</i>	soft brome
<i>Cortaderia selloana</i>	pampas
<i>Dactylis glomerata</i>	cocksfoot
<i>Elytrigia repens</i>	couch
<i>Holcus lanatus</i>	Yorkshire fog
<i>Lolium perenne</i>	rye grass
<i>Panicum dichotomiflorum</i>	smooth witchgrass
<i>Paspalum dilatatum</i>	paspalum
<i>Paspalum dilatatum</i>	paspalum
<i>Pennisetum clandestinum</i>	kikuyu grass
<i>Poa annua</i>	annual poa
<i>Schedonorus phoenix</i>	tall fescue
<i>Sporobolus africanus</i>	ratstail

### **Sedges**

<i>Cyperus eragrostis</i>	
<i>Isolepis sepulcralis</i>	

### **Rushes**

<i>Juncus articulatus</i>	
<i>Juncus bufonius</i>	
<i>Juncus effusus</i>	soft rush
<i>Juncus tenuis</i>	track rush

### **Monocot. herbs (other than orchids, grasses, sedges and rushes)**

<i>Alocasia macrorrhiza</i>	elephant's ear
<i>Asparagus scandens</i>	climbing asparagus

*Crocosmia* × *crocosmiiflora*  
*Gladiolus* sp.  
*Hedychium gardnerianum*  
*Tradescantia fluminensis*  
*Zantedeschia aethiopica*

montbretia  
gladioli  
kahili ginger; wild ginger  
tradescantia  
arum lily

### Composite herbs

*Cirsium vulgare*  
*Conyza albida*  
*Cotula australis*  
*Crepis capillaris*  
*Gamochaeta spicata*  
*Hypochoeris radicata*  
*Lactuca serriola*  
*Lapsana communis*  
*Leontodon taraxacoides*  
*Matricaria dioscoidea*  
*Mycelis muralis*  
*Senecio bipinnatisectus*  
*Senecio jacobaea*  
*Sonchus asper*  
*Sonchus oleraceus*  
*Taraxacum officinale*

Scotch thistle  
fleabane  
  
hawksbeard  
cudweed  
catsear  
prickly lettuce  
nipplewort  
hawkbit  
rayless camomile  
wall lettuce  
Australian fireweed  
ragwort  
prickly puha, prickly sow thistle  
puha  
dandelion

### Dicot. herbs (other than composites)

*Anagallis arvensis*  
*Cerastium fontanum*  
*Cymbalaria muralis*  
*Datura stramonium*  
*Daucus carota*  
*Digitalis purpurea*  
*Fragaria vesca*  
*Foeniculum vulgare*  
*Galium aparine*  
*Geranium* sp.  
*Linum bienne*  
*Lotus pedunculatus*  
*Myosotis arvensis*  
*Myosotis sylvatica*  
*Nasturtium officinale*  
*Orobanche minor*  
*Oxalis corniculata*  
*Oxalis incarnata*  
*Phytolacca octandra*

scarlet pimpernel  
mouse-ear chickweed  
ivy-leaved toad flax  
thorn apple  
wild carrot  
foxglove  
wild strawberry  
fennel  
cleavers  
geranium  
  
lotus  
forget-me-not  
garden forget-me-not  
watercress  
broomrape  
  
lilac oxalis  
inkweed

<i>Plantago australis</i>	swamp plantain
<i>Plantago lanceolata</i>	narrow-leaved plantain
<i>Prunella vulgaris</i>	selfheal
<i>Ranunculus repens</i>	creeping buttercup
<i>Rumex acetosella</i>	sheep's sorrel
<i>Rumex obtusifolius</i>	dock
<i>Sagina procumbens</i>	pearlwort
<i>Scrophularia auriculata</i>	
<i>Silene gallica</i>	catchfly
<i>Sison amomum</i>	stone parsley
<i>Sisymbrium officinale</i>	wild mustard
<i>Solanum nigrum</i>	black nightshade
<i>Stachys arvensis</i>	staggerweed
<i>Stachys sylvatica</i>	hedge woundwort
<i>Stellaria media</i>	chickweed
<i>Trifolium pratense</i>	red clover
<i>Trifolium repens</i>	white clover
<i>Tropaeolum majus</i>	garden nasturtium
<i>Verbena bonariensis</i>	purple-top
<i>Veronica arvensis</i>	field speedwell
<i>Veronica serpyllifolia</i>	turf speedwell