

## *Myosotis pottsiana* in Ohutu Stream, Te Urewera

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November 2017

A small group gathered on 17 September 2017 to explore the lower reaches of the Ohutu Stream, at Galatea, in Te Urewera, and see the *Myosotis pottsiana* population present in the lower catchment. *Myosotis pottsiana* (classed as Threatened, Nationally Critical, de Lange *et al.* 2013) is only known to occur at five locations (Wildland Consultants 2014). The Ohutu Stream population was discovered in the 1980s by William Shaw and the author, and has been visited several times since then (see Beadel 1987, Beadel 1996, and Paul Cashmore pers. comm. 2011).

Recent large rain storms have washed the stream margins clear of any shrubbery (e.g. toetoe and buddleia) that often forms a dense cover on the valley floor, so it was relatively easy to travel up the stream. Deer sign in the creek was abundant (e.g. fresh tracks and pellets), and several separate animals were “spooked” as we made our way up the stream. Unfortunately, we were too late in the season for the kōwhai flowering, but they looked in good health. An interesting feature was the occurrence of pockets of black beech forest and some *Pittosporum ralphii* trees along the margins.

We found 16 healthy plants of *Myosotis* on the true right side of the stream. As it was relatively early in the season for *Myosotis*, this compares well with previous records. In 1996, 13 flowering plants and 23 non-flowering plants were observed in the Ohutu catchment (Beadel 1996) and in January 2011, there were 21 flowering adults, four non-flowering adults, three rosette juveniles on the true right (Paul Cashmore pers. comm.). Additionally, in April 2011 Graeme Jane observed two sites on the true left, one with four plants and one with an estimated 100 plants. In 2017 we searched for the plants on the true left for about 30 minutes or more, but did not locate any plants. However, we did find *Scandia rosifolia* (At Risk-Declining), *Cheilanthes sieberi*, *Pelargonium inodorum*, *Euphrasia cuneata*, *Wahlenbergia violacea*, *Senecio quadridentus*, *Libertia grandiflora*, and *Carex breviculmis*.

We found several populations of *Scandia rosifolia* (At Risk-Declining) during the day, including at the *Myosotis* site on the true right, along with species such as *Wahlenbergia violacea*, *Arthropodium candidum*, and *Euphrasia cuneata*.

We didn't see many pest plants but did find some male fern (*Dryopteris filix-mas*): five or six plants, which may be the first record of this species in Te Urewera. Consideration should be given to trying to control this species in Te Urewera, and preventing it from becoming widespread and established in these forests. We also saw a few wilding pines scattered in the secondary forest.

Once back at the vehicle we went to search for *Muehlenbeckia ephedroides* population that I found in 1987 (see Beadel 1987), and also inspected in 1996 (Beadel 1996). The area we looked at in 2017 was covered in blackberry, and although there were a few plants of *Muehlenbeckia complexa*, we could not see any *M. ephedroides* through the blackberry. However, we may not have been in the correct place so there may be a return expedition on another day, with a slasher and protective clothing to avoid the blackberry. We were lucky with the rain, which held off all day until we started driving home.

## References

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- Wildland Consultants 2014: Field assessment of a recently-discovered population of *Myosotis pottsiana* in the Pakihi catchment. *Wildland Consultants Ltd Contract Report No. 3462*. Prepared for Department of Conservation. 16 pp.
- Shaw W.B. 1989: Vascular Plants of the Ohutu Stream Catchment 228-792 metres, Te Urewera National Park. Unpublished species list.

**Vascular plants of the Ohutu Stream catchment,  
228-792 metres, Te Urewera**

Sarah Beadel  
September 2017

Based on visits by William Shaw and Sarah Beadel, on 1 and 2 September 1983, and February 1986; and visits by Sarah Beadel in February 1987; and Shaw (1989), and a visit in September 2017.

**Indigenous Species**

**Gymnosperms**

<i>Dacrycarpus dacrydioides</i> (Shaw 1989)	kahikatea
<i>Dacrydium cupressinum</i>	rimu
<i>Podocarpus laetus</i>	Hall's tōtara
<i>Podocarpus totara</i> var. <i>totara</i>	tōtara
<i>Prumnopitys ferruginea</i> (Shaw 1989)	miro
<i>Prumnopitys taxifolia</i> (Shaw 1989)	matāi

**Monocot. trees and shrubs**

<i>Cordyline australis</i>	tī kōuka, cabbage tree
<i>Cordyline banksii</i>	tī ngahere, forest cabbage tree
<i>Rhopalostylis sapida</i> (Shaw 1989)	nīkau

**Dicot. trees and shrubs**

<i>Alectryon excelsus</i> subsp. <i>excelsus</i>	tītoki
<i>Aristotelia serrata</i>	makomako, wineberry
<i>Beilschmiedia tawa</i>	tawa
<i>Brachyglottis repanda</i>	rangiora
<i>Carmichaelia australis</i>	maukoro, tainoka, taunoka
<i>Carpodetus serratus</i>	putaputawētā
<i>Coprosma colensoi</i> (Shaw 1989)	
<i>Coprosma crassifolia</i>	
<i>Coprosma grandifolia</i>	kanono, raurēkau, raurākau, manono
<i>Coprosma ×cunninghamii</i>	
<i>Coprosma lucida</i>	karamū, kāramuramu, glossy karamū
<i>Coprosma rhamnoides</i>	
<i>Coprosma robusta</i>	karamū, kāramuramu
<i>Coprosma tenuifolia</i> (Shaw 1989)	
<i>Coriaria arborea</i> var. <i>arborea</i>	tutu
<i>Dracophyllum latifolium</i> (Shaw 1989)	neinei, taritari āwhā
<i>Elaeocarpus dentatus</i>	hīnau, whīnau
<i>Fuchsia excorticata</i>	kōtukutuku, kōnini
<i>Fuscospora fusca</i> (Shaw 1989)	red beech, tawhairaunui
<i>Fuscospora solandri</i>	black beech
<i>Fuscospora fusca</i> × <i>F. solandri</i> var. <i>solandri</i> (Shaw 1989)	tawhai
<i>Gaultheria antipoda</i>	tāwiniwini, koropuka, takapo, taupuku
<i>Geniostoma rupestre</i> var. <i>ligustrifolium</i>	

<i>Griselinia littoralis</i> (Shaw 1989)	kāpuka
<i>Griselinia lucida</i>	puka
<i>Hebe corriganii</i> (Shaw 1989)	
<i>Hebe stricta</i> var. <i>stricta</i>	koromiko, kōkōmuka
<i>Hedycarya arborea</i>	porokaiwhiri; pigeonwood
<i>Helichrysum lanceolatum</i>	niniao
<i>Hoheria populnea</i>	houhere, lacebark
<i>Hoheria sexstylosa</i>	houhere, lacebark
<i>Ixerba brexioides</i> (Shaw 1989)	tāwari
<i>Knightia excelsa</i>	rewarewa
<i>Kunzea robusta</i>	kānuka
<i>Laurelia novae-zelandiae</i>	pukatea
<i>Leptocophylla juniperina</i> var. <i>juniperina</i>	prickly mingimingi
<i>Leptospermum scoparium</i> agg.	mānuka
<i>Leucopogon fasciculatus</i>	mingimingi
<i>Leucopogon fraseri</i> (Shaw 1989)	pātōtara
<i>Litsea calicaris</i> (Shaw 1989)	mangeao
<i>Melicope simplex</i>	poataniwha
<i>Melicytus micranthus</i> (Shaw 1989)	māhoe wao
<i>Melicytus ramiflorus</i> subsp. <i>ramiflorus</i>	māhoe
<i>Metrosideros robusta</i>	northern rātā
<i>Mida salicifolia</i> (Shaw 1989)	mida
<i>Myrsine australis</i>	māpou, matipou, māpau
<i>Neomyrtus pedunculata</i>	rōhutu
<i>Nestegis lanceolata</i>	white maire, maire rauriki
<i>Olearia furfuracea</i>	akepiro, tanguru
<i>Olearia paniculata</i> (Shaw 1989)	akiraho
<i>Olearia rani</i> var. <i>colorata</i>	heketara
<i>Pennantia corymbosa</i>	kaikōmako
<i>Piper excelsum</i> subsp. <i>excelsum</i>	kawakawa
<i>Pittosporum cornifolium</i> (Shaw 1989)	tāwhiri karo, wharewhareatua
<i>Pittosporum eugenioides</i>	tarata; lemonwood
<i>Pittosporum ralphii</i>	
<i>Pittosporum tenuifolium</i>	kōhūhū, rautāhiri, rautāwhiri
<i>Pseudopanax arboreus</i>	whauwhaupaku, puahou, five finger
<i>Pseudopanax crassifolius</i>	horoeka, lancewood
<i>Pseudowintera axillaris</i> (Shaw 1989)	horopito
<i>Pseudowintera colorata</i> (Shaw 1989)	mountain horopito
<i>Quintinia serrata</i> (Shaw 1989)	tāwheowheo
<i>Raukaua simplex</i> (Shaw 1989)	
<i>Scandia rosifolia</i>	koheriki
<i>Schefflera digitata</i>	patē
<i>Solanum aviculare</i> var. <i>aviculare</i> (Shaw 1989)	poroporo
<i>Sophora tetraptera</i>	kōwhai
<i>Urtica ferox</i>	ongaonga, tree nettle
<i>Weinmannia racemosa</i>	kāmahi
<b>Monocot. lianes</b>	
<i>Freycinetia banksii</i>	kiekie
<i>Ripogonum scandens</i>	supplejack, kareao

## Dicot. lianes

<i>Calystegia tuguriorum</i> (Shaw 1989)	pōwhiwhi, native bindweed
<i>Clematis cunninghamii</i> (Shaw 1989)	ngākau-kiore, pokopoko
<i>Clematis foetida</i> (Shaw 1989)	akakaikū
<i>Clematis forsteri</i>	poananga, puawānanga
<i>Clematis paniculata</i>	puawānanga
<i>Metrosideros colensoi</i>	rātā
<i>Metrosideros diffusa</i>	rātā
<i>Metrosideros fulgens</i>	rātā
<i>Metrosideros perforata</i>	aka
<i>Muehlenbeckia australis</i>	puka
<i>Muehlenbeckia complexa</i>	pōhuehue
<i>Parsonsia capsularis</i>	akakiore
<i>Parsonsia heterophylla</i> (Shaw 1989)	akakaikiore
<i>Passiflora tetrandra</i>	kohia; native passionfruit
<i>Rubus cissoides</i> agg.	tātārāmoa, tātaraheke , bush lawyer
<i>Rubus schmidelioides</i> var. <i>schmidelioides</i>	tātārāmoa, bush lawyer

## Lycopods and psilopsids

<i>Huperzia varia</i>	whiri-o-Raukatauri
<i>Lycopodium volubile</i> (Shaw 1989)	waewaekoukou
<i>Tmesipteris elongata</i> (Shaw 1989)	
<i>Tmesipteris lanceolata</i>	
<i>Tmesipteris tannensis</i> (Shaw 1989)	

## Ferns

<i>Adiantum cunninghamii</i>	huruhuru tapairu, maidenhair fern
<i>Anarthropteris lanceolata</i>	
<i>Asplenium bulbiferum</i>	mouku, hen and chicken fern
<i>Asplenium flabellifolium</i>	necklace fern
<i>Asplenium flaccidum</i>	makawe, ngā makawe o Raukatauri
<i>Asplenium gracillimum</i> (Shaw 1989)	
<i>Asplenium hookerianum</i>	
<i>Asplenium oblongifolium</i>	huruhuru whenua
<i>Asplenium polyodon</i>	petako
<i>Blechnum chambersii</i>	rereti, nini
<i>Blechnum colensoi</i> (Shaw 1989)	peretao
<i>Blechnum discolor</i>	piupiu, crown fern
<i>Blechnum filiforme</i>	pānako
<i>Blechnum fluviatile</i>	kiwikiwi, kiwakiwa
<i>Blechnum novae-zelandiae</i>	kiokio
<i>Blechnum vulcanicum</i>	korokio
<i>Cheilanthes sieberi</i>	
<i>Ctenopteris heterophylla</i>	
<i>Cyathea cunninghamii</i> (Shaw 1989)	pūnui, gully tree fern
<i>Cyathea dealbata</i>	ponga, silver fern
<i>Cyathea medullaris</i>	mamaku
<i>Cyathea smithii</i> (Shaw 1989)	kātote, soft tree fern
<i>Deparia petersenii</i> subsp. <i>congrua</i>	
<i>Dicksonia lanata</i> var. <i>lanata</i> (Shaw 1989)	tuakura

<i>Dicksonia squarrosa</i>	whekī
<i>Diplazium australe</i>	
<i>Gleichenia microphylla</i> (Shaw 1989)	waewaekākā,
<i>Grammitis billardierei</i> (Shaw 1989)	paretao
<i>Histiopteris incisa</i>	mātātā, water fern
<i>Hymenophyllum bivalve</i> (Shaw 1989)	mauku, filmy fern
<i>Hymenophyllum demissum</i>	irirangi, piripiri, filmy fern
<i>Hymenophyllum flabellatum</i> (Shaw 1989)	mauku, filmy fern
<i>Hymenophyllum multifidum</i>	mauku, filmy fern
<i>Hymenophyllum rarum</i>	mauku, filmy fern
<i>Hymenophyllum sanguinolentum</i>	piripiri, filmy fern
<i>Hymenophyllum scabrum</i> (Shaw 1989)	mauku, filmy fern
<i>Hypolepis ambigua</i>	
<i>Hypolepis lactea</i> (Shaw 1989)	
<i>Hypolepis rufobarbata</i> (Shaw 1989)	
<i>Lastreopsis glabella</i>	
<i>Lastreopsis hispida</i> (Shaw 1989)	tuakura
<i>Leptolepia novae-zelandiae</i> (Shaw 1989)	
<i>Leptopteris hymenophylloides</i>	heruheru
<i>Lindsaea trichomanoides</i> (Shaw 1989)	
<i>Loxogramme dictyopteris</i>	
<i>Microsorium pustulatum</i>	kōwaowao, hound's tongue fern
<i>Microsorium scandens</i>	mokimoki
<i>Ophioglossum coriaceum</i> (Shaw 1989)	
<i>Paesia scaberula</i>	mātātā
<i>Pellaea rotundifolia</i>	tarawera, button fern
<i>Pneumatopteris pennigera</i>	pākau
<i>Polystichum neozelandicum</i> subsp. <i>neozelandicum</i>	pikopiko, shield fern
<i>Pteridium esculentum</i>	rārahu, bracken
<i>Pteris macilenta</i>	titipo, sweet fern
<i>Pteris tremula</i> (Shaw 1989)	turawera, shaking brake
<i>Pyrrosia eleagnifolia</i>	leather-leaf fern
<i>Trichomanes endlicherianum</i> (Shaw 1989)	
<i>Trichomanes venosum</i>	

## Orchids

<i>Acianthus sinclairii</i> (Shaw 1989)	
<i>Bulbophyllum pygmaeum</i> (Shaw 1989)	piripiri
<i>Diplodidium trullifolium</i> (Shaw 1989)	
<i>Drymoanthus adversus</i> (Shaw 1989)	
<i>Earina autumnalis</i>	raupeka
<i>Earina mucronata</i>	peka-a-waka
<i>Microtis unifolia</i> agg.	
<i>Nematoceras trilobum</i> agg. (Shaw 1989)	
<i>Orthoceras novae-zeelandiae</i> (Shaw 1989)	māikaika
<i>Pterostylis graminea</i> (Shaw 1989)	
<i>Thelymitra longifolia</i>	
<i>Winika cunninghamii</i>	

## Grasses

<i>Austroderia fulvida</i>	toetoe
<i>Deyeuxia avenoides</i>	
<i>Dichelachne crinita</i>	plume grass
<i>Echinopogon ovatus</i>	
<i>Lachnagrostis filiformis</i>	
<i>Microlaena avenacea</i>	bush rice grass
<i>Microlaena stipoides</i>	pātītī, meadow rice grass
<i>Poa anceps</i> agg.	
<i>Rytidosperma clavatum</i> (Shaw 1989)	
<i>Rytidosperma gracile</i>	
<i>Rytidosperma unarede</i> (Shaw 1989)	

## Sedges

<i>Carex banksiana</i>	matau
<i>Carex breviculmis</i>	
<i>Carex flagellifera</i>	manaia
<i>Carex geminata</i> agg.	rautahi
<i>Carex healyi</i>	matau
<i>Carex maorica</i> (Shaw 1989)	
<i>Carex megalepis</i> (Shaw 1989)	matau
<i>Carex solandri</i>	
<i>Carex spinirostris</i> (Shaw 1989)	
<i>Carex uncinata</i>	kamu matau a Maui, kamu
<i>Carex virgata</i>	pūrei
<i>Cyperus ustulatus</i> f. <i>ustulatus</i>	toetoe upoko-tangata
<i>Gahnia pauciflora</i> (Shaw 1989)	takahikahi
<i>Morelotia affinis</i>	

## Rushes

<i>Juncus edgariae</i>	wi, wīwī
<i>Juncus planifolius</i> (Shaw 1989)	
<i>Luzula picta</i> var. <i>picta</i>	
<i>Luzula subclavata</i> (Shaw 1989)	

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

<i>Arthropodium candidum</i>	repehina-papa
<i>Astelia fragrans</i>	kakaha
<i>Astelia hastata</i>	kahakaha
<i>Astelia microspema</i> (Shaw 1989)	
<i>Astelia solandri</i>	kōwharawhara
<i>Dianella nigra</i>	tūrutu
<i>Libertia grandiflora</i>	mīkoikoi; native iris
<i>Phormium cookianum</i> subsp. <i>hookeri</i> (Shaw 1989)	wharariki, mountain flax
<i>Phormium tenax</i>	harakeke, flax

## Composite herbs

<i>Euchiton audax</i>	
<i>Euchiton japonicus</i>	
<i>Euchiton sphaericus</i>	

<i>Pseudognaphalium luteoalbum</i> agg.	pukatea
<i>Raoulia glabra</i> (Shaw 1989)	
<i>Raoulia tenuicaulis</i> (Shaw 1989)	tatahuna
<i>Senecio minimus</i>	
<i>Senecio quadridentatus</i>	cotton fireweed, pekapeka
<i>Senecio rufigliandulosus</i>	puhaureroa

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

<i>Acaena anserinifolia</i>	piripiri, hutiwai
<i>Australina pusilla</i>	
<i>Cardamine debilis</i> agg.	panapana
<i>Crassula sieberiana</i>	
<i>Epilobium billardioreanum</i> (Shaw 1989)	
<i>Epilobium nerteroides</i>	
<i>Epilobium nummulariifolium</i>	
<i>Epilobium pedunculare</i>	
<i>Epilobium pubens</i>	
<i>Euphrasia cuneata</i>	tūtāe-kiore, eyebright
<i>Galium propinquum</i>	mawe
<i>Geranium potentilloides</i> var. <i>potentilloides</i> (Shaw 1989)	
<i>Haloragis erecta</i> subsp. <i>erecta</i>	toatoa
<i>Hydrocotyle elongata</i>	
<i>Hydrocotyle heteromeria</i>	
<i>Hydrocotyle moschata</i>	
<i>Lobelia angulata</i>	pānakenake
<i>Myosotis pottsiana</i>	
<i>Nertera depressa</i>	
<i>Nertera dichondrifolia</i> (Shaw 1989)	
<i>Parietaria debilis</i> (Shaw 1989)	
<i>Pelargonium inodorum</i>	kopata
<i>Peperomia urvilleana</i> (Shaw 1989)	wharanui
<i>Plantago raoulii</i> (Shaw 1989)	kopakopa
<i>Ranunculus reflexus</i>	maruru
<i>Stellaria parviflora</i>	kohukohu
<i>Urtica incisa</i>	
<i>Wahlenbergia colensoi</i>	
<i>Wahlenbergia violacea</i>	rimuroa

### **Naturalised and exotic species**

#### **Gymnosperms**

<i>Pinus radiata</i>	radiata pine
<i>Pseudotsuga menziesii</i> (Shaw 1989)	Douglas fir

#### **Dicot. trees and shrubs**

<i>Berberis glaucocarpa</i>	barberry
<i>Buddleja davidii</i>	buddleia
<i>Erica lusitanica</i>	Spanish heath
<i>Populus</i> sp. (Shaw 1989)	
<i>Rosa rubiginosa</i>	sweet briar
<i>Rubus</i> sp. ( <i>R. fruticosus</i> agg.)	blackberry

*Salix fragilis*

crack willow

### **Ferns**

*Dryopteris filix-mas*

male fern

### **Grasses**

*Anthosachne scaber*

blue wheat grass

*Cortaderia selloana* (Shaw 1989)

pampas

*Dactylis glomerata*

cocksfoot

*Holcus lanatus*

Yorkshire fog

*Lolium perenne*

rye grass

*Poa annua*

annual poa

### **Rushes**

*Juncus articulatus*

jointed rush

*Juncus effusus* var. *effusus*

soft rush, leafless rush

### **Composite herbs**

*Carduus tenuiflorus* (Shaw 1989)

winged thistle

*Cirsium arvense*

California thistle

*Cirsium vulgare*

Scotch thistle

*Erigeron sumatrensis*

broad-leaved fleabane

*Gamochaeta coarctata*

purple cudweed

*Hypochaeris radicata*

catsear

*Jacobaea vulgaris*

ragwort

*Lactuca serriola*

prickly lettuce

*Mycelis muralis*

wall lettuce

*Senecio bipinnatisectus*

Australian fireweed

*Sonchus asper* (Shaw 1989)

prickly puha

*Sonchus oleraceus*

puha, sow thistle

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

*Anagallis arvensis*

scarlet pimpernel

*Aphanes arvenis* (Shaw 1989)

parsley piert

*Centaureum erythraea*

centaury

*Digitalis purpurea*

foxglove

*Galium aparine*

cleavers

*Lotus pedunculatus*

lotus

*Myosotis sylvatica*

garden forget-me-not

*Phytolacca octandra*

inkweed

*Plantago lanceolata*

narrow-leaved plantain

*Prunella vulgaris*

selfheal

*Ranunculus repens*

creeping buttercup

*Rumex acetosella*

sheep's sorrel

*Sagina procumbens*

pearlwort

*Silene coronaria*

rose campion

*Stellaria media*

chickweed

*Torilis japonica* (Shaw 1989)

upright hedge parsley

*Trifolium dubium* (Shaw 1989)

suckling clover

*Trifolium repens* (Shaw 1989)

white clover

*Verbascum thapsus* (Shaw 1989)

woolly mullein