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orchids on
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Indigenous Vascular Plants at Waimana Bush

TOPOMAP T27 & T28 342031. Alt 1400ft

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EW

unc = uncommon, @ = seen in Area2 only, * on A. Druce list 14 (1976) but not seen by me, ! new to list

Site description

This site comprises three areas of bush, two of them are fenced off and the other is grazed and has little understory or regeneration. The one of the fenced areas and the grazed area are now under different ownership from the other fenced area. The fenced area behind the old house site (Area 1) and nearest the swimming pool and the tennis courts is a small hill and the other fenced area (Area2) and the grazed area (Area2) are contiguous on the next hilltop. They are separated by a grassy avenue that leads down to the stockyards.

Area 2 has had a number of pines felled near the top centre of the patch and this has opened up the area and subsequently caused a number of older trees to be exposed and felled by the wind. The resultant tangle is full of fallen trees, nettle (*Urtica ferox*) and poroporo (*Solanum laciniatum*) and almost impossible to progress through. There were a number of species that were only found in this area and they are indicated on the list by an @ sign.

The grazed area was surveyed by a quick walk around and by scanning with binoculars. Apart from kowhai (*Sophora microphylla*) nothing unique to this area was noted.

Area 1 was surveyed as thoroughly as possible and a number of interesting species were noted. There were a number of emergent species with some large rimu (*Dacrydium cupressinum*) matai (*Prumnopitys taxifolia*) totara (*Podocarpus totara*) rewarewa (*Knightia excelsa*) miro (*Prumnopitys ferruginea*) hinau (*Elaeocarpus dentatus*) and both black and white maire (*Nestegis cunninghamii* and *N. lanceolata*). The shrub understory was mainly *Coprosma grandiflora* with a scattering of other tree and shrub species. The whole area was once surrounded by yew (*Taxus baccata*) (foliage very like miro) and another exotic conifer, but these have been removed in the main from the western side allowing a shrubby tangle to develop and close off the forest from the wind. It is here that *Brachyglottis sciadophila* was found. This is a species with a national ranking of "local" and with only one other site known in the Wellington conservancy at present. There has been some replanting along this margin and this may pose a threat as these trees mature and possibly crowd out the *brachyglottis*.

Single plants of silver fern (*Cyathea dealbata*), gully fern (*Cyathea cunninghamii*) and several plants of *Dicksonia squarrosa* and *Cyathea smithii* represented tree ferns.

Although the area is fenced browsing was noted on the hook sedges (*Uncinia scabra* and *U. laxiflora*) but this may be attributable to rabbits, which were noted in the area.

The main weed problem is with spindle tree (*Euonymus europaeus*) and the shelterbelts seeding into the main bush area. Jerusalem cherry (*Solanum niger*) is also growing in the clearings and around the margins.

Area 2 had much the same species distribution with fewer big trees and more tree ferns (*C. dealbata*). The southern margin did have a number of species that were not found elsewhere. *Fuchsia excorticata* and the liana *F. perscandens* along with *Coprosma robusta*, *C. rigida*, bidibidi (*Acaena anserinifolia*), *Juncus gregiflorus* and water bracken (*Histiopteris incisa*) were found here.

Both areas have been fenced for some time and it would be good to have some formal protection afforded to them particularly for Area 1.

Time spent on site six and a half hours

Gymnosperm trees and shrubs

<i>Agathis australis</i> (1 small plated specimen)	Kauri
<i>Dacrycarpus dacrydioides</i>	Kahikatea
<i>Dacrydium cupressinum</i>	Rimu
<i>Podocarpus totara</i>	Totara
<i>Prumnopitys ferruginea</i> (unc)	Miro
<i>Prumnopitys taxifolia</i>	Matai

Monocotyledonous trees and shrubs

<i>Cordyline australis</i>	Cabbage tree
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Dicotyledonous trees and shrubs

	<i>Alectryon excelsus</i> var. <i>excelsus</i>	Titoki
@	<i>Aristotelia serrata</i> (unc)	Wineberry
	<i>Brachyglottis repanda</i>	Rangiora
	<i>Carmichaelia australis</i> (unc)	
	<i>Carpodetus serratus</i>	Putaputaweta, marbleleaf
	<i>Coprosma areolata</i>	
	<i>Coprosma crassifolia</i>	
	<i>Coprosma grandifolia</i>	
*	<i>Coprosma lucida</i>	
	<i>Coprosma propinqua</i> subsp. <i>propinqua</i>	
	<i>Coprosma rhamnoides</i>	
@	<i>Coprosma rigida</i>	
@!	<i>Coprosma robusta</i>	
	<i>Coprosma rotundifolia</i>	
	<i>Coprosma rubra</i> (unc)	
*	<i>Coprosma propinqua</i> x <i>C. robusta</i>	
	<i>Elaeocarpus dentatus</i>	Hinau
	<i>Elaeocarpus hookerianus</i> (unc)	Pokaka
@	<i>Fuchsia excorticata</i>	
*	<i>Fuchsia excorticata</i> x <i>F. perscandens</i>	
*	<i>Griselinia lucida</i>	
	<i>Hedycarya arborea</i>	Pigeonwood
	<i>Hoheria sexstylosa</i>	
	<i>Knightia excelsa</i>	Rewarewa
!	<i>Lophomyrtus obcordata</i>	Rohutu
	<i>Macropiper excelsum</i> var. <i>excelsum</i>	
@	<i>Melicope simplex</i>	
	<i>Melicytus ramiflorus</i> subsp. <i>ramiflorus</i>	Mahoe
	<i>Melicytus micranthus</i>	
	<i>Myrsine australis</i>	Red Matipo
	<i>Myrsine divaricata</i> (unc)	Weeping Matipo
	<i>Myrsine salicina</i> (unc)	
*	<i>Neomyrtus pedunculata</i>	

	<i>Nestegis cunninghamii</i>	Black Maire
	<i>Nestegis lanceolata</i>	White maire
	<i>Nestegis montana</i> (unc)	
*	<i>Olearia rani</i>	
!	<i>Ozothamnus leptophyllus</i>	Tauhinu
	<i>Pennantia corymbosa</i>	Kaikomako
	<i>Pittosporum eugenioides</i>	Tarata, lemonwood
*	<i>Pittosporum tenuifolium</i>	
	<i>Plagianthus regius</i>	Ribbonwood
	<i>Raukaua anomalus</i>	Whauwhaupaku
	<i>Pseudopanax arboreus</i>	
	<i>Pseudopanax crassifolius</i>	Horoeka, lancewood
*	<i>Pseudopanax edgerleyi</i> (unc)	
	<i>Pseudowintera colorata</i>	Pepper tree
	<i>Schefflera digitata</i>	Pate
	<i>Solanum laciniatum</i>	
!	<i>Sophora microphylla</i>	Kowhai
	<i>Streblus heterophyllus</i>	Turepo, milk tree
	<i>Urtica ferox</i>	

Monocotyledonous lianes

<i>Ripogonum scandens</i>	Supplejack
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Dicotyledonous lianes and related trailing plants

!	<i>Brachyglottis sciadophila</i> (unc)	
@	<i>Calystegia tuguriorum</i>	
	<i>Clematis foetida</i>	
	<i>Clematis paniculata</i>	
@	<i>Fuchsia perscandens</i> (unc)	
	<i>Metrosideros colensoi</i>	
	<i>Metrosideros diffusa</i>	
!	<i>Metrosideros perforata</i>	
	<i>Muehlenbeckia australis</i>	Pohuehue
	<i>Parsonsia capsularis</i>	
	<i>Parsonsia heterophylla</i>	Akakiore
	<i>Passiflora tetrandra</i>	Passion vine
!	<i>Rubus cissoides</i> (narrow leaved form)	
	<i>Rubus schmidelioides</i>	

Psilopods, Lycopods and Quillworts

None

Ferns

!	<i>Asplenium bulbiferum</i>	Manamana, Hen and Chicken fern
	<i>Asplenium flabellifolium</i>	Necklace fern
	<i>Asplenium flaccidum</i> ss	Makawe, Hanging spleenwort
	<i>Asplenium gracillimum</i>	
	<i>Asplenium hookerianum</i>	
!	<i>Asplenium oblongifolium</i>	
	<i>Asplenium polyodon</i>	Petako, Sickle spleenwort
	<i>Asplenium flaccidum</i> x <i>A. hookerianum</i> (unc)	
	<i>Asplenium gracillimum</i> x <i>A. hookerianum</i> (unc)	
@!	<i>Blechnum chambersii</i>	
	<i>Blechnum fluviatile</i>	Kiwakiwa
*	<i>Blechnum procerum</i>	
!	<i>Cyathea cunninghamii</i> (unc)	
	<i>Cyathea dealbata</i>	Ponga, Silver fern
	<i>Cyathea smithii</i> (unc)	
@	<i>Dicksonia fibrosa</i> (unc)	
	<i>Dicksonia squarrosa</i>	
@	<i>Histiopteris incisa</i> (unc)	
*	<i>Hymenophyllum sanguinolentum</i> agg.	
	<i>Hypolepis ambigua</i>	
	<i>Lastreopsis glabella</i>	
	<i>Pellaea rotundifolia</i>	Tarawera
	<i>Phymatosorus pustulatus</i>	(<i>P. diversifolium</i>)
	<i>Pneumatopteris pennigera</i>	
	<i>Polystichum richardii</i>	Pikopiko
	<i>Polystichum silvaticum</i>	
!	<i>Polystichum vestitum</i>	
@	<i>Pteridium esculentum</i>	Bracken
	<i>Pyrrosia eleagnifolia</i>	

Orchids

	✓ <i>Earina autumnalis</i>	
	✓ <i>Earina mucronata</i>	Pekaawaka
*	✓ <i>Gastrodia cunninghamii</i>	
*	✓ <i>Winika cunninghamii</i>	

Grasses

*	<i>Echinopogon ovatus</i>
*	<i>Elymus narduroides</i>
	<i>Microlaena avenacea</i>
	<i>Poa imbecilla</i>
	<i>Poa matthewsii</i>

Sedges

Uncinia laxiflora

Uncinia scabra
@ Uncinia uncinata

Rushes and allied plants

&! Juncus gregiflorus (unc)
* Luzula subclavata

Remaining Monocotyledonous plants

Collospermum hastatum

Daisy-like herbs (Composites)

! Gnaphalium gymnocephalum
Senecio minimus

Dicotyledonous herbs other than Composites

@! Acaena anserinifolia Bidibidi
Australina pusilla
Cardamine sp. (C. debilis agg.) ("Narrow Petal" of Pritchard 1957)
Hydrocotyle elongata
Hydrocotyle heteromeria
* Schizeilema trifoliolatum
Stellaria decipiens
Urtica incisa

Birds:

Fantail
Grey warbler
Native pigeon
Tui

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