

List by
A. Townsend.KOHITERE
PROPOSED COVENANT , near Levin
STUDY AREA CGRID REFERENCE S25 088 593
17&18/7/96

Podocarps

Prumnopitys ferruginea
Dacrydium cupressinum

Dicot. trees and shrubs

Schefflera ohgitata
Melicytus ramiflorus subsp. Ramiflorus
Coprosma grandifolia
Hedycarya arborea
Belschmiedia tawa
Coprosma rhamnoides
Coprosma foetidissima
Lophomyrtus bullata
Geniostoma rupestre var ligustrifolium
Pseudopanax crassifolius
Pseudowintera axillaris
Pennantia corymbosa
Aristotelia sorrata
Weinmannia racemosa
Cassinia leptophylla
Brachyglottis repanda
Myrsine salicina
Knightia excelsa
Coprosma lucida
Coprosma robusta
Laurelia novae-zeelandiae
Pseudopanax edgleyi
Elaeocarpus dentatus
Griselinia lucida
Myrsine australis
Carpodetus serratus

Lycopods

Lycopodium varium
Timesipteris tannerisii
Lycopodium scariosum

Ferns

Blechnum fluviatile
Rumohra adiantiformis
Asplenium flaccidumBlechnum ex. CapenseDicksonia squarrosa
Sticherus cunninghamii
Asplenium polyodon
Blechnum filiforme
Phymatosorus pustulatus
Trichomanes endlicherianum
Hymenophyllum demissum
Asplenium bulbiferum
Histopteris incisa
Cyathea dealbata
Blechnum discolor
Polystichum vestitum
Lastreopsis glabella
Blechnum chambersii
Hymenophyllum ferrugineum
Cyathea smithii
Leptopteris hymenophylloides
Lastreopsis hymenophylloides
Lastreopsis hispida
Hymenophyllum dilatatum
Hymenophyllum flabellatum
Hymenophyllum bivalve
hymenophyllum revolutum
Cyathea medullaris
Trichomanes reniforme
Paesia scaberula

Dicot. Lianes

Metrosideros fulgens
Rubus cissoides
Metrosideros pertorata
Metrosideros diffusa
Muehlenbeckia axillaris

Dicot. Herbs

Acaena anserinifolia
Netera depressa
Pratia angulata
Faraxaeum magellanicum

Monocot herbs

Astelia solandri

Collospermum hastatum

Dianella nigra

Astelia fragans

Sedges

Uncinia uncinata

Uncinia gracilentia

Rushes

Juncus gregflorus

Grasses

Microlaenia avenaced

Cortaderia toetoe

Monocot. Lianes

Ripogonum scandens

Freycinettia baueriana subsp banksii

80 native spp

11 introduced spp

Adventures

Dicot trees and shrubs

Berberis darwinii

Ulex europaeu

Dicot herbs

Plantage lanceolata

Prunella vulgaris

Digitalis purpureus

Cirsium vulgare

Callistegia stagnalis

Lotus pedunculatus

Grasses

Holcus lanatus

Agrostis capillaris

Dactylus glomerata

STUDY AREA C

- This area is a proposed covenant situated between study area B and pine forest. It is well buffered, with a very large margin of secondary tawa-kamahi forest surrounding the main part of the proposed covenant. In the proposed covenant, emergent rimu is common over a canopy dominated by tawa and kamahi. Rewarewa is occasional, and hinau is scattered throughout the canopy. Although some evidence of browsing animals (possums and deer) was noted, their impact is low, and the study area remains relatively intact, Grey warbler, fantail, silvereve, pied ???, whitehead, magpie and black bird were noted in the site - this site was the only one to record Pseudesponax edgleryi.
- The study areas A, B and C are contiguous, and form a significant corridor extending from the Ohau Valley (Makāhika River) up to the crest of the Arapaepae Ridge. These areas ??? have a high species diversity, and areas of outstanding lowland forest. With control of browsing animals (human access for this work is easy) this area would form a significant island of vegetation in the Manawatu Gorge south E.D.

Study Area	A	B	C	D
Size	Low	High	Moderate	Mod-high
Species Richness (Diversity)	87 native spp Moderate high	111 native spp high	80 native spp Moderate-high	69 native spp Moderate
Naturalness	Moderate	Mod-high	High	Moderate-high
Rarity/special features	High confirmed <u>Powelliphanta traversii</u> records*	High <u>Molopsida cordipennes</u> **	Don't know	Don't know
Buffering	Low	Moderate-high	High	Moderate
Representativeness	Mod-high	Mod-high	High	Moderate-high
Corridor	HIGH	HIGH	HIGH	LOW
Rank		2	1	3

* Powelliphanta traversii was recorded here. One dead and possibly possum damaged shell was collected for measurement. No other specimens were recorded.

** Molopsida cordipennes is a ground beetle (Carabidae), discovered and described from Mount Quoin in 1912. Circa five specimens have been subsequently found in the western part of Tararua e.d. and Manawatu Gorge south ed. One of these records was from study area B. (J I Townsend, pers comm).

Threats	A	B	C	D
Browsing animals	High: Cattle, Sheep, deer possums	Moderate: Deer, possums	Moderate: Deer, possums	Moderate: Deer, possums
Needs	Moderate-high 18 naturalised spp. This area contains pasture and river gravels. These areas contain a number of weed species	Moderate-high 25 naturalised spp. Presence of significant weed threats eg <u>Berberis darwinii</u>	low/moderate 11 naturalised spp	Moderate 7 naturalised spp