

Forest block between Gladstone Rd
and Kohitere Pine Forest, nr Levin.

List by On bibliography
A. Townsend

S25

Study Area B
Area 33ha

GRID REF NZMS 260 ~~10~~ 090590
17/7/96

Podocarps

Dacrydium cupressinum
Prumnopitys ferruginea

Lycopods

Lycopodium scariosum
Lycopodium volubile
Lycopodium varium
Tmesipteris tannensis

Ferns

Asplenium bulbiferum var *bulbiferum*
Asplenium flaccidum
Asplenium oblongifolium
Blechnum chambersii
Blechnum colensoi
Blechnum discolor
Blechnum ex. capense
Blechnum fluviatile
Cyathea cunninghamii
Cyathea medullaris
Dicksonia squarrose
Grammitis billardierii
Hymenophyllum dilatatum
Hymenophyllum ferrugineum
Hymenophyllum multifidum
Hymenophyllum pulcherrimum
Lastreopsis hispida
Leptopteris hymenophylloides
Phymatosorus pustulosus
Phymatosorus scandens
Pneumatopteris pennigera
Pteridium esculentum
Pyrrosia eleagnifolia
Rumohra adiantiformis
Sticherus cunninghamii
Trichomanes endlicherianum
Trichomanes reniforme
Trichomanes venosum

Dicot Lianes

Clematis forsterii

Clematis paniculata
Metrosideros diffusa
Metrosideros fulgens
Metrosideros perforata
Parsonsia heterophylla
Rubus cissoides

Dicot trees and shrubs

Aristotelia serrata
Beilschmiedia tawa
Brachyglottis repanda
Carpodetus serratus
Cassinia leptophylla
Coprosma foetidissima
Coprosma grandifolia
Coprosma lucida
Coprosma rhamnoides
Coprosma robusta
Coriaria arborea
Dracophyllum longifolium +
Elaeocarpus dentatus
Fuchsia excorticata
Faultheria anitpoda
Geniostoma rupestre var. *ligustrifolium*
Griselinia lucida
Hebe stricta var. *stricta*
Hedycarya arborea
Knightia excelsa
Laurellia novaezelandiae
Leptospermum scoparium
Lophomyrtus bullata
Macropiper excelsum
Melicytus ramiflorus subsp. *Ramiflorus*
Nestegis lanceolata
Olearia rani
Pittosporum eugenioides
Pseudopanax arboreus
Pseudopanax crassifolius
Pseudowintera axillaris
Pseudowintera colensoi
Schefflera digitat
Weinmannia racemosa

Monocot. Trees

Rhopalostylus sapida

Monocot. Lianes

Ripogonum scandens

Freyanettia baueriana subsp *banksii*

Molopsida cordipennes

Dicot. Herbs

Acaena anserinifolia

Epilobium sp

Galium propinquum

Gnaphalium luteo-album

Gunnera monoica

Hydrocotyle elongatum

Hydrocotyle novae-zeelandiae

Ranunculus hirtus

Monocot. Herbs

Astelia fragrans

Astelia solandri

Dianella nigra

Grasses

Cortaderia toetoe

Microlaenia avenacea

Rushes

Juncus gregiflorus

Juncus procerus

Sedges

Carex geminata

Carex secta

Carex virgata

Gahnia pauciflora

Uncinia gracilentia

Uncinia uncinata

Orchids

Corybas macranthus+

Corybas orbiculatus+

Earina autumnalis

Earina mucronata

Microtis unifolia

Orthoceras strictum

Pterostylis banksii var. *Banksii* +

Pterostylis montana +

Thelymitra hatchii?

Thelymitra longifolia

Thelymitra pauciflora +

ADVENTIVE SPECIES

Dicot. trees and shrubs

Cotoneaster franchetii

Cytissus monsplessianus

Cyttissus scoparius

Lupinus arboreus

Ulex europaeus

Dicot. Lianes

Rubus fruticosus agg.

Dicot. Herbs

Callitriche stagnalis

Cirsium arvense

Cirsium vulgare

Conyza albida

Digitalis purpureus

Lotus pedunculatus

Mimulus moschatus

Orobanche minor

Plantago lanceolatus

Prunella vulgaris

Ranunculus repens

Solanum nigrum

Taraxacum officinale

Rushes

Juncus effusus

Juncus acuminatus

Grasses

Agrostis capillaris

Dactylus glomerata

Festuca arundinacea

Holcus lanatus

STUDY AREA B

- B is a 33ha block of forest between Gladstone Road and the proposed covenant (study area c) in Kohitere forest. Vegetation present is typical of steep hill-side veg throughout the western Tararua Range. The study area has a high species diversity (relative to the other sites) due to its large size and history of modification. Very few podocarps are present in the canopy, and no emergent podocarps were noted, suggesting logging has occurred at some stage. The southern part of the study area is dominated by a fernland (comprising Dicksonia squarrosa / Blechnum ex capense) which has regenerated as a result of felling or fire.

The presence of a ground beetle (Molopsida cordipennes) J.I.T. pers comm is significant as it has only been recorded half a dozen times since its description in 1912.

Powelliphanta traversii was not noted here, however this may be a result of the poor searching conditions rather than its absence. Ian Cooksley (pers comm) thought that the snail would be throughout all these study areas. Grey warbler, fantail, silvereye, paradise duck and kereru were observed or heard in the study area. Evidence of possums and was also noted.

- This site was the only one to record (Rhopalostylus sapida) nikau.

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>Borberis darwinii</u>	low/moderate 11 naturalised spp	Moderate 7 naturalised spp