

Bush remnant beside
Makahika Stream beside
Gladstone Rd, nr Levin

List by On bibliography
A. Townsend.

Esplanade Reserve
Native Species

Study Area A
GRID REFERENCE: NZMS ~~25~~ 092 587
260

17/7/96

Podocarps

Prumnopitys ferruginea Miro

Dacrydium cupressinum

Lycopods

Lycopodium uarium

Lycopodium scariosum

Lycopodium volubile

mesipeteris tannensis

Ferns

Dicksonia squarrosa

Pheumatopteris pennigera

Pteridium esculentum

Asplenium bulbiferum var bulbiferum

Phymatosorus scandens

Blechnum chambersii

heptopteris hymenophylloides

Phymatosorus pastulosus

Hymenophyllum reudutum

Hymenophyllum dilatatum

Blechnum discolor

Hymenophyllum flabellatum

Hymenophyllum bivalve

Asplenium flaccidum

Cyathea dealbata

Cyathea smithii

Asplenium polyodon

Hymenophyllum demissum

Trichomanes reniforme

Paesia scaberula

Blechnum fluuiatile

Rumonra adiantiformis

Pyrrosia eleagnifolia

Dicot: trees and shrubs

Melicytus ramiflorus subsp. Ramiflorus

Coprosma rotundifolia

Coprosam rhamnoides

Coprosma grandifolia

Geniostoma rupestre var hgustnfolium

Aristolelia serrata

Carpodetus serratus

Elaeocarpus dentatus

Pennantia corymbosa

Schefflera digitata

Coprosma lucida

Hedycarya arborea

Bielsch media tawa

Nestegis lanceolatus

Weinmannia racemosa

Brachyglottis repanda

Knightia excelsa

Coriaria arborea

Gaultheria antipoda

Myrsine australis

Pittosporum eugenioides

Aebe stricta var stricta

Myrsine sahcina

Pseudopanax crassifolius

Griselinia lucida

Pseudopanax arboreus

Leptosporium scoparium

Dicot herbs

Nertera depressa

Acaena anserinifolia

Gnaphalium kerriense

gunnera monoica

Gnaphalium gumnosephalum

Pratia angulata

Hydrocotyle novae-zeelandiae

Epilobium nummularifolium

Hydrocotyle a moschata

Dicot lianes

Rubus schmidelioides var subpauperatus

Metrosideros perforata

Metrosideros diffusa

Metrosideros fulgens

Parsorisca heterophylla

Monocot lianes

Ripogonum scandens

Freycinettia baueriana subsp banksii

Rashes

Juncus gregiflorus

Orchids

Dendrobium cunninghamii

Earina autumnalis

Microtis unifoliat

Thelymitra longifoliat

Peterostylis montanat

Pterostylis banksii var banksii +

Sedges

Uncinia uncinata

Uncinia gracilentia

Grasses

Microlaenia avenacea

Cortaderia toetoe

Monocot herbs

Dianella nigra

Astelia solandri

Collospermum hastatum

Astelia fragans +

84 native spp

+ = noted on previous trips in the area,
throughout the 1980's

Introduced Species

Pinus radiata

(Macrocarpa)

Dicot shrubs

Ulex europaeus

Dicot herbs

Digitalis purpureus

Prunella vulgaris

Trifolium repens

Taraxacum officinale

Plantago lanceolata

Conyza albida

Lotus pedunculatus

Rumex (sheep sorrel)

Ranunculus repens

Oxalis (white weed)

Dicot lianes

Rubus fruticosus agg

Other Monocots

Crococsmia x crocosmiiflora (montbretia)

Grasses

Dactylus glomerata

Festuca arundinacea

Lolium perenne

18 naturalised spp

Summary

STUDY AREA A:

- Study Area A contains vegetation typical of the lowland western Tararua Range, and even though it is relatively small (ha) it has a relatively high diversity due to the presence of riparian habitat as well as forest (and pasture) habitats.
- The presence of Powelliphanta traversii is not unexpected as it is known from a number of sites up-stream.
- A number of weed species are present, and include montbretia, gorse and lotus, as the most significant threat to the study area's naturalness. Fantail, grey warbler, whitehead, silvereye, magpie and blackbird were heard or observed.
- Vegetation comprises tawa-kamahi forest with occasional rewarewa and scattered hinau as the major components in the canopy of the forest vegetation type. A few examples of rimu and miro are also presented, but the vegetation is not old enough to contain any emergents.

A herbfield comprising (Gnaphalium keriense) / Nortera depressa - Blechnum Chambersii - moss dominates the rocks and slip faces to 2m above the water line. A small area of pasture is also present.

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