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PARAPARAUMU SCENIC RESERVE				GRID REF H 157 575685						
for: scenery <input checked="" type="checkbox"/> bush <input checked="" type="checkbox"/> scrub/tussock etc <input type="checkbox"/> wetland <input type="checkbox"/> plants <input type="checkbox"/> animals <input type="checkbox"/> geology/soil <input type="checkbox"/> history/archaeology <input type="checkbox"/> water supply <input type="checkbox"/>				AREA ha 171.633 (not incl. Fields gift areas)						
LOCATION 1.6 km north of Paraparauamu				L.B. No.						
ACCESS Off State Highway 1.				STATUS Scenic RES sub-Cttee						
OUTLINE & TOPO A corridor of predominantly coastal and lowland broadleaved forest extending south-east from the main highway over rolling/steep hill country.				CONTROL CCL						
SURROUNDINGS Farmland to the south-west and north. Secondary forest and pine plantation to the south-east, across the Maungakotukutuku Valley.				GAZETTED RESERVED						
GEOLOGY Greyswacke colluvium on steep slopes and rolling high dissected terraces with loess deposits.				HISTORY						
SPM Colluvium, and loess on terrace deposits.				AIR PHOTO date SN 5497 1/7						
SOIL Judgeford silt loam.				nearby town 1.6 km Paraparauamu nearest reserve 0.6 km Nikau SR public road 0 km see (km) 1.4 ALTITUDE m approx 30-385						
DRAINAGE Good on slopes, fair in valley and on flatter terraces.				ASPECT South east, north-west						
				RAIN mm approx 1180						
				HAT FERTILITY Medium-High						
MAIN HABITATS AND FEATURES										
RES	NOT			%	area	ex	region	RAT	TREND	notes
				area	ha					
		1.	Kohekohe forest on moderately steep colluvium.	1.	27.7	47.5				L M S L
		2.	Secondary kohekohe-mahoe-mamaku forest on mod. steep colluvium.	2.	4.6	7.9				L M S L
		3a.	Tawa/kohekohe-mahoe forest on colluvium and terrace deposits.	3a.	7.5	12.9				M H S L
		3b.	Tawa/mahoe forest on steep colluvial spurs and gullies. (Outside present reserve boundary).	3b.	-	-				M H S L
		4a.	(Rimu)/Tawa/kohekohe-mahoe forest on mod. steep colluvium.	4a.	12.7	21.8				M H S L
		4b.	(Rimu)/mixed broadleaved forest on very steep colluvial slopes.	4b.	24.2	41.5				M H S L
		5.	Tall kanuka scrub on mod. steep-terrace colluvium.	5.	0.7	1.2				L M I H
		6.	Introduced grassland with associated sedge rushland.	6.	19.6	33.6				M L S H
		7.	Gorse-mamaku-Olearia solandri scrub.	7.	1.5	2.6				M L I N
		8.	Pukatea-kohekohe forest in gully and on slopes grading into swamp.	8.	1.5	2.6				M M S L
		9.	Mahoe-mamaku-broadleaved forest on steep colluvium (outside reserve boundary).	9.	-	-				M M S L
		1.	With scattered emergent trees of tawa, rewarewa, hinau, rimu and less frequently mire and kahikatea. Understorey of supplejack, mahoe and broadleaved shrubs often sparse especially around periphery where grazing is heaviest. Floor cover consists mainly of litter and scattered ferns.							
		2.	Like 1, but predominantly secondary with mamaku in gully. Contains the occasional emergent rewarewa, pukatea and young rimu.							
		3a.	Tall forest (up to 25m) with emergent rewarewa, kahikatea, pukatea, rimu and hinau present on lower slopes near Muapoko Stream with a dense understorey of supplejack which discourages more than marginal use by stock.							
		3b.	Tall tawa forest with rewarewa, pukatea, mamaku and pigeonwood. Periphery of forest eaten out with mainly litter and hook grass on the floor.							
		4a.	With occasional emergent tawa, rimu and hinau.							
		4b.	Tawa is less common here than in 4a. Common species in canopy are tawa, mahoe and pigeonwood. Hinau is less common and rewarewa, matai and pukatea are occasionally emergent. Rimu is less common on very steep slopes and heketara is often prominent on these. The understorey consists of supplejack, kawakawa and heketara. Common climbers include kiekie, bush lawyer and Metrosideros fulgens.							
		5.	This is kanuka up to 10m tall with litter on the floor. At its downslope margin introduced grasses and weeds are common where the scrub has been opened out by selective cutting in an effort to increase regeneration of native broadleaved species successional to kanuka. Some gorse is present around the periphery and along the walking track that bisects the stand.							
(Continued...)										
CONDITION Fair - good, although the forest canopy is in good condition and a wide range of tree species are present; the understorey and floor vegetation has suffered from prolonged grazing by farm animals. These continue to have access to the reserve.				100	171.6					
FENCING Very good except for the north-eastern boundary of the reserve on the eastern side of the Muapoko Stream and the eastern end of the area gifted to the Crown.										
PRIORITY High for the above two sections.										
RATING 8-10										
SCIENTIFIC 7. Contains large areas of kohekohe forest, a rare forest type.										
SCENIC 7. Although difficult to view because of poor access the reserve contains a complete sequence of forest vegetation across both sides of a valley, preserving altitudinal sequences.										
RECREATION 5. Much potential for tracking and associated public use exists. This rating will increase if better public access is obtained to the reserve.										
CONCLUSIONS and RECOMMENDATIONS										
This is a large and valuable reserve containing extensive areas of the rare kohekohe type. The reserve is largely unknown to the general public and all possible efforts should be made to obtain a better public access and frontage to the reserve. The small area of kanuka forest visible from the main highway is of great interest because of the scarcity of such stands in the Wellington region and especially as it is successional to the adjoining kohekohe forest. Regeneration in this kanuka stand has been seriously affected by the past presence of stock and in an attempt to improve regeneration of broadleaved species under the kanuka, thinning has been carried out in one area. This has only led to invasion by exotic weed species and no further selective cutting should be carried out.										
The presence of stock in all parts of the reserve has led to a degraded forest interior, most notably around the margins. Stock belonging to the grazing lessee should be excluded from all areas excepting those areas where the bush edge has been adequately fenced. Upon the exclusion of stock any resulting weed problem in the grasslands should be relatively easily controlled. Control of gorse and ragwort in these areas should be necessary only in the immediate vicinity of the south-western boundary fence in order to keep the neighbouring property clean. In the presence of an excellent southern boundary fence further fencing of other areas of forest margin is seen to be unnecessary and would detract from the scenic qualities of the reserve.										
(Continued...)										

MAIN HABITATS AND FEATURES (Continued)

- Grassland of exotic pasture grasses such as cocksfoot, browntop and sweet vernal, often with boggy areas of rushland and sedgeland. Common species in these areas include *Juncus grayiflorus*, jointed rush and *Cyperus usulianus*.
- This is scrub up to 4m tall with regenerating native species such as mahoe present. Also common are bracken, tauhinu and pasture grasses.
- This area is separated from the remainder of the reserve by State Highway 1 and consists of a narrow strip running between the highway and the main trunk railway immediately north of the Kapiti lookout.

Near the highway the vegetation consists of kobekohe/nikau-mahoe forest on the gully slopes with tall pukatea (up to 20m tall)/wheki in the gully. Swamp maire, cabbage trees and kiekie are also common here. At its north-western end the gully vegetation grades into an area of flax swamp bordered by manuka scrub, willows, mahoe and gorse.

- A small area outside the reserve boundary but included inside the reserve fence because of the impracticability of fencing the actual boundary. The vegetation is secondary mahoe, manuka with lanewood and seaweeds. Other species include karamu, kanono, heketara and hengehenge.

CONCLUSIONS AND RECOMMENDATIONS (Continued)

An extension should be made to the south-east (see map) to include a large area containing rimu, broadleaved and Rehekeha dominated forests on the western side of the Maungakotukutuku Stream. This would also serve the purpose of protecting the only remaining stretch of the lower Maungakotukutuku Stream still forested on both sides. This small stream has high scenic values and its wilderness nature would be of appeal to experienced walkers seeking a pleasant day trip.

Although portions of the reserve have been previously mapped as containing northern rata-rimu/tawa forest (Nicholls 1974) no northern rata was seen during this survey and if present certainly does not form a significant component of the forest canopy.

REFERENCES

No.	SUMMARY	HABITATS											ORGANISMS	REFER	OBSERVED																						
		WATER/SHORE	sw/ta	sw/ta	sw/ta	sw/ta	sw/ta	sw/ta	sw/ta	sw/ta	sw/ta	sw/ta			N	S	M	N	L	M	H	Initials															
0.1	tall conifer forest/trees conifer forest/trees scrub forest/trees RL forest/trees													higher native plants lower plants exotic plants bush exotic plants scrub in native grass	148 52																						
0.2	scrub/shrubs < 4m short tussock/grassland short tussock/grassland grassland/grasses sedgeland/sedges rushland/rushes/raupo herbland/bark "tussock" herbland fernland/fern "mess" land bracken													higher freshwater plants lower freshwater plants native mammals native birds introduced birds waterfowl s.t. introduced waterfowl reptiles native/introduced amphibia fw native fish fw introduced fish fw invertebrates terrestrial invertebrates saltwater life																							
0.3	exotic grassland																																				
0.4	exotic herbland/woodland																																				
0.5	exotic scrub/shrubs exotic forest/trees introduced "native" cover																																				
	bagiswamp/pohihi marsh swife mudflat swife bluff/rocks bluff/rocks in bush waterfall cave/gorge gravel habitat/scree dune/sand limestone ultrabasics geological site																																				
	breeding ground rare/interesting animals rare/interesting plants																																				
	historic site historic building prehistoric site camp (midden/fort) terraces/earthworks burial/tauu																																				

1 tall conifer: kahitakea, kauni, matau, puka, tima, tauroa 2 remaining 11 tree-spired spp 3 broadleaved 4 e.g. flax 5 incl. rough grassland, pasture etc

TREES AND SHRUBS

Native

Alectryon excelsus
Aristotelia serrata
Beilschmiedia tawa
Brachyglottis repanda
Carpodetus serratus
Cassinia leptophylla
Coprosma areolata
C. grandifolia
C. repens
C. rhannoides
C. robusta
Cordyline australis
Coriaria arborea
Corynocarpus laevigatus
Dacrydium cupressinum
Dysoxylum spectabile

Elaeocarpus dentatus
Fuchsia excorticata
Geniostoma rupestre var.
Griselinia lucida
Hedycarya arborea
Hoheria populnea (planted)
Knightia excelsa
Laurelia novae-zelandiae
Leptospermum ericoides
L. scoparium
Lophomyrtus bullata
Macropiper excelsum
Meliccytus ramiflorus
Myoporum laetum
Myrsine australis
Nestegis lanceolata

Olearia rani
O. solandri
Pennantia corymbosa
Pittosporum eugenioides
P. tenuifolium
Podocarpus dacrydioides
 (= *Dacrycarpus dacrydioides*)
P. ferrugineus (= *Prumnopitys ferruginea*)
Pseudopanax arboreus
P. crassifolius
Rhopalostylis sapida
Schefflera digitata
Solanum aviculare
Syzygium maire
Weinmannia racemosa

Adventive

Berberis glaucocarpa
Leycesteria formosa

Rosa rubiginosa
Phytolacca octandra

Solanum pseudocapsicum
Ulex europaeus

CLIMBERS, LIANES ETC.

Native

Clematis paniculata
Freylinetia baueriana var. *banksii*
Metrosideros diffusa

Metrosideros fulgens
M. perforata
Muehlenbeckia australis

Parsonsia heterophylla
Ripogonum scandens
Rubus cissoides

Adventive

Ipomoea congesta

Rubus fruticosus

Senecio mikancoides

GRASSES, RUSHES AND LIKE PLANTS

Native

Carex breviculmis
C. flagellifera
C. forsteri
C. geminata
C. maorica
C. solandri
C. virgata

Cortaderia coctoe
Cyperus ustulatus
Eleocharis acuta
E. gracilis
Juncus gregiflorus
Juncus pallidus
J. planifolius

Juncus sarophorus
Microlaena avenacea
Scirpus prolifer (= *Isolepis prolifer*)
Uncinia ferruginea
U. uncinata

Adventive

Agrostis tenuis
Anthoxanthum odoratum
Cyperus sp.

Dactylis glomerata
Festuca arundinacea
Glyceria sp.

Holcus lanatus
Juncus effusus
Lolium perenne

HERBS

Native

Acaena anserinifolia
Astelia solandri
Cardamine sp.
Chiloglottis cornuta
Collospermum hastatum
Corybas macranthus
Earina autumnalis
E. mucronata
Epilobium nerteroides
E. pernitens

Epilobium rotundifolium
Gnaphalium kerriense
G. sp.
Hydrocotyle americana
H. moschata
H. novae-zelandiae
Lagenifera pumila
L. strangulata
Microtis unifolia
Nertera depressa

Oxalis exilis
O. lactea
Phormium tenax
Pseudognaphalium luteo-album
Pterostylis banksii
P. graminea
Ranunculus hirtus
Raoulia glabra
Senecio minimus
Thelymitra longifolia

Adventive

Achillea millefolium
Anagallis arvensis
Bellis perennis
Callitriche stagnalis
Cardamine hirsuta
Cerastium fontanum ssp. *triviale*
Cirsium arvense
C. vulgare
Coryza sp.
Crepis capillaris
Crococsmia X crocosmiiflora
Digitalis purpurea

Galium aparine
Myosotis caespitosa
Oxalis sp.
Plantago lanceolata
Prunella vulgaris
Ranunculus repens
Senecio bipinnatisectus
S. jacobaea
Silybum marianum
Sisyrinchium iridifolium
Solanum nigrum
S. sublobatum

Sonchus oleraceus
Hypochoeris radicata
Lotus pedunculatus
Mentha X piperita
M. spicata
Stellaria alsine
S. media
Trifolium pratense
T. repens
Verbascum thapsus

FERNS AND ALLIES

Native

Alsophila smithii
A. tricolor
Anarthropteris lanceolata
Asplenium bulbiferum
A. flaccidum
A. hookerianum
A. oblongifolium
A. polyodon
Blechnum chambersii

B. discolor
B. filiforme
B. fluviatile
B. membranaceum
B. minus
B. sp. (B. *capense* agg. - common sp.)
Cardiomanes reniforme
Dicksonia squarrosa

Grammitis billardieri
Hastiopteris incisa
Hymenophyllum demissum
H. dilatatum
H. ferrugineum
H. flabellatum
H. sanguinolentum
H. scabrum
Hypolepis tenuifolia

FERNS AND ALLIES (Continued)

Lastreopsis glabella
L. hispida
L. velutina
Leptopteris hymenophylloides
Lindsaea trichomanoides
Lycopodium varium

Paesia scaberula
Pellaea rotundifolia
Phymatosorus diversifolius
P. scandens
Pneumatopteris pennigera
Polystichum richardii

Pteridium esculentum
Pteris tremula
Pyrrosia serpens
Rumohra adiantiformis
Sphaeropteris medullaris
Trichomanes venosum

BIRDS

blackbird
chaffinch
fantail
greywarbler

harrier
silvereye
song thrush

starling
tui
white-backed magpie

Parapara
 Vassiloff, Clark + Galiter 1986 (2) T.P.

TREES AND SHRUBS

Native

Alectryon excelsus
Aristotelia serrata
Beilschmiedia tawa
Brachyglottis repanda
Carpodetus serratus
Cassinia leptophylla
Coprosma areolata
C. grandifolia
C. repens
C. rhamnoides
C. robusta
Cordyline australis
Coriaria arborea
Corynocarpus laevigatus
Dacrydium cupressinum
Dysoxylum spectabile

Elaeocarpus dentatus
Fuchsia excorticata
Geniostoma rupestre var.
Griselinia lucida
Hedycarya arborea
Hoheria populnea (planted)
Knightia excelsa
Laurelia novae-zelandiae
Leptospermum ericoides
L. scoparium
Lophomyrtus bullata
Macropiper excelisum
Meliclytus ramiflorus
Myoporum laetum
Myrsine australis
Nestegis lanceolata

Olearia rani
O. solandri
Pennantia corymbosa
Pittosporum eugenioides
P. tenuifolium
Podocarpus dacrydioides
 (= *Dacrycarpus dacrydioides*)
P. ferrugineus (= *Prumnopitys ferruginea*)
Pseudopanax arboreus
P. crassifolius
Rhopalostylis sapida
Schefflera digitata
Solanum aviculare
Syzygium maire
Weinmannia racemosa

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Adventive

Berberis glaucocarpa
Leycesteria formosa

Rosa rubiginosa
Phytolacca octandra

Solanum pseudocapsicum
Ulex europaeus

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CLIMBERS, LIANES ETC.

Native

Clematis paniculata
Freycinetia baueriana var. *banksii*
Metrosideros diffusa

Metrosideros fulgens
M. perforata
Muehlenbeckia australis

Parsonia heterophylla
Ripogonum scandens
Rubus cissoides

9

Adventive

Ipomoea congesta

Rubus fruticosus

Senecio mikanoides

3

GRASSES, RUSHES AND LIKE PLANTS

Native

Carex breviculmis
C. flagellifera
C. forsteri
C. geminata
~~*C. maorica*~~
C. solandri
C. virgata

Cortaderia toetoe
Cyperus ustulatus
Eleocharis acuta
E. gracilis
Juncus argyiflorus
Juncus pallidus
J. planifolius

Juncus sarophorus
Microlaena avenacea
Scirpus prolifer (= *Isolepis prolifer*)
Uncinia ferruginea
U. uncinata

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Adventive

Agrostis tenuis
Anthoxanthum odoratum
Cyperus sp.

Dactylis glomerata
Festuca arundinacea
Glyceria sp.

Holcus lanatus
Juncus effusus
Lolium perenne

9

HERBS

Native

Acaena aserinifolia
Astelia solandri
Cardamine sp.
Chiloglottis cornuta
Collospermum hastatum
Cotula macranthus
Erina autumnalis
E. mucronata
Epilobium nerteroides
E. pernitens

Epilobium rotundifolium
Gnaphalium heriense
G. sp.
Hydrocotyle americana
H. moschata
H. novae-zelandiae
Lagenifera pumila
L. stragulata
Microtis unifolia
Nertera depressa

Oxalis exilis
O. lactea
Phormium tenax
Pseudognaphalium luteo-album
Pterostylis banksii
P. graminea
Ranunculus hirtus
Raoulia glabra
Senecio minimus
Thelymitra longifolia

30

Adventive

Achillea millefolium
Anagallis arvensis
Bellis perennis
Callitriche stagnalis
Cardamine hirsuta
Cerastium fontanum ssp. *triviale*
Cirsium arvense
C. vulgare
Conyza sp.
Crepis capillaris
Crococsmia X crocosmiiflora
Digitalis purpurea

Galium aparine
Hypoxis haerens
Oxalis sp.
Plantago lanceolata
Prunella vulgaris
Ranunculus repens
Senecio juncoides
S. jacobae
Silybum marianum
Sisyrinchium trifidifolium
Solanum nigrum
S. tuberosum

Sonchus oleraceus
Hypochaeris radicata
Lotus pedunculatus
Monarda X piperita
M. spicata
Stellaria sisine
S. media
Trifolium pratense
T. repens
Verbascum thapsus

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FERNS AND ALLIES

Native

Alsophila smithii
A. tricolor
Anarthropteris lanceolata
Asplenium bulbiferum
A. flaccidum
A. hookerianum
A. oblongifolium
A. polyedon
Blechnum chambersii

B. discolor
B. filiforme
B. fluviatile
B. membranaceum
B. minus
B. sp. (B. *capense* agg. - common sp.)
Cardiomanes reniforme
Dicksonia squarrosa

Grammitis billardieri
Histiopteris incisa
Hymenophyllum demissum
H. dilatatum
H. ferrugineum
H. flabellatum
H. sanguinolentum
H. scabrum
Hypolepis tenuifolia

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FERNS AND ALLIES (Continued)

18

Lastreopsis glabella
L. hispida
L. velutina
Leptopteris hymenophylloides
Lindsaea trichomanoides
Lycopodium varium

Paesia scaberula
Peliaeae rotundifolia
Phymatosorus diversifolius
P. scandens
Pneumatopteris pennigera
Polystichum richardii

Pteridium esculentum
Pteris tremula
Pyrosia serpens
Rumohra adiantiformis
Sphaeropteris medullaris
Trichomanes venosum

blackbird
chaffinch
fantail
greywarbler

BIRDS

harrier
silvereye
song thrush

starling
tui
white-backed magpie

