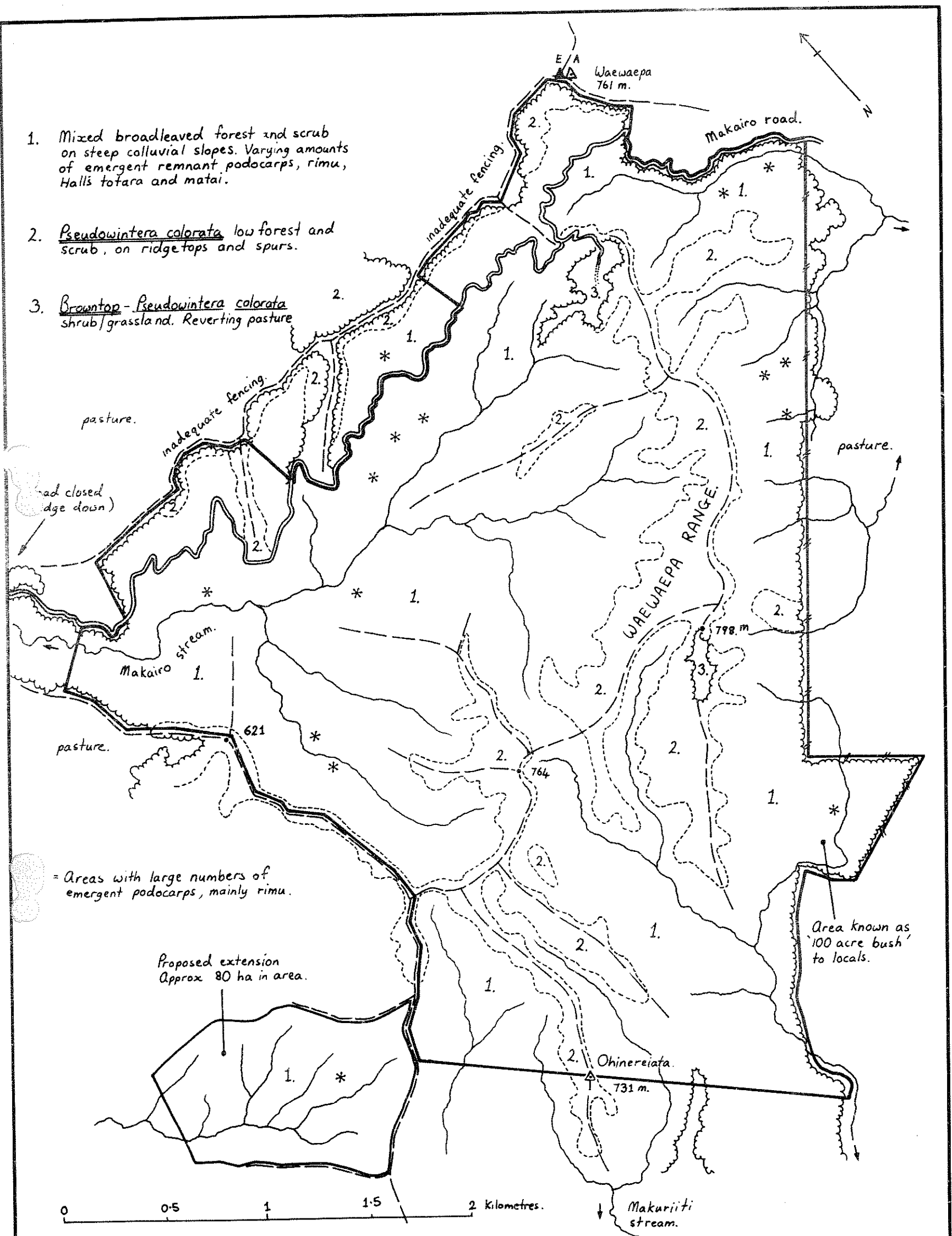
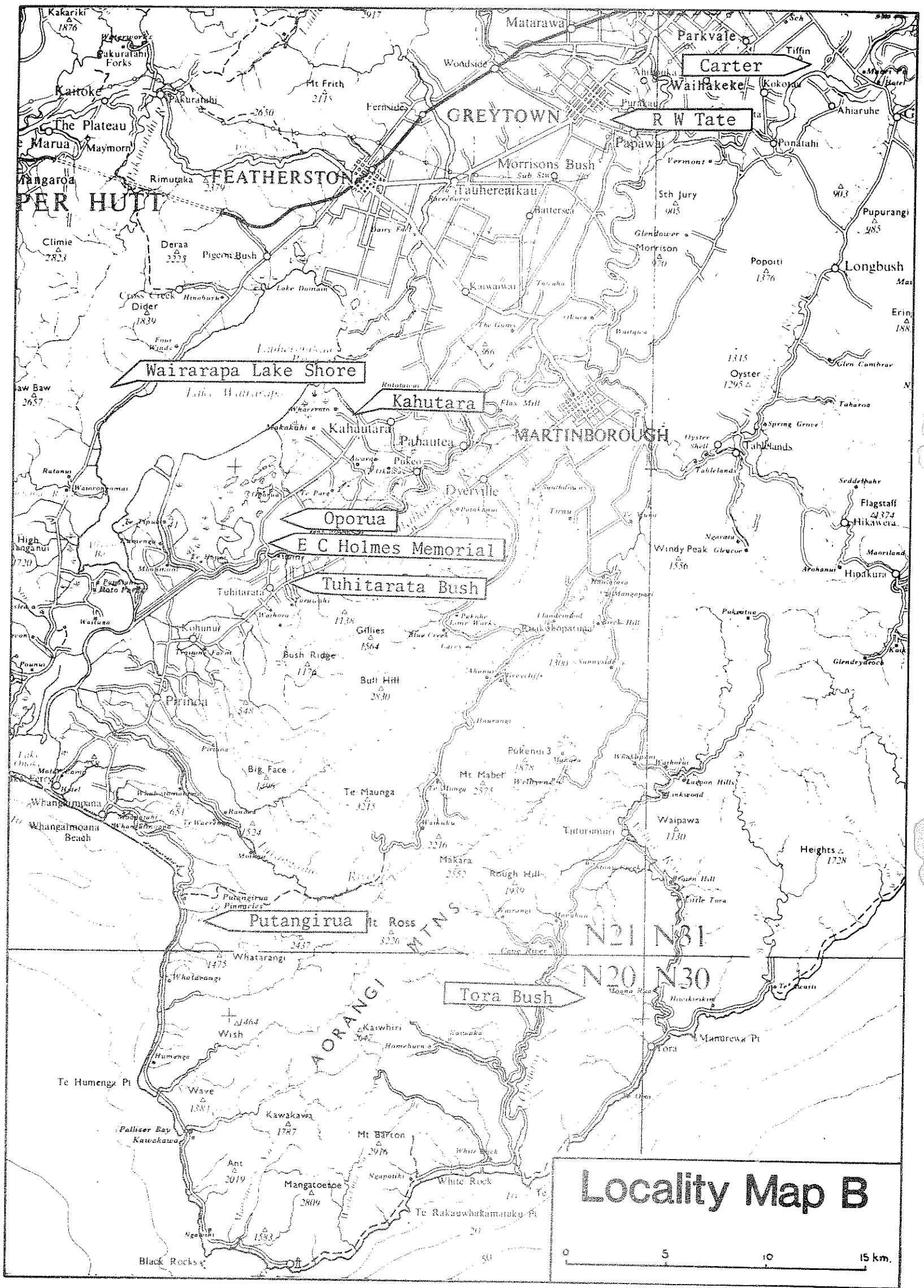


1. Mixed broadleaved forest and scrub on steep colluvial slopes. Varying amounts of emergent remnant podocarps, rimu, *Halls totara* and matai.
2. *Pseudowintera colorata* low forest and scrub, on ridgetops and spurs.
3. *Browntop* - *Pseudowintera colorata* shrub/grassland. Reverting pasture



## Waewaepa Scenic Reserve

Area: 1098.7362 ha



**Locality Map B**

NATIVE SPECIES

Trees and shrubs

*Aristotelia serrata*  
*Beilschmiedia tawa*  
*Brachyglottis repanda* s.s.  
*B. rotundifolia* var.  
 (B. *elaeagnifolia*)  
*Carpodetus serratus*  
*Coprosma foetidissima*  
*C. grandifolia*  
*C. lucida*, s.s. (incl. *C. australis*)  
*C. rhamnoides*  
*C. robusta*  
*C. tenuifolia*  
*C. sp.* (unnamed)  
*C. robusta* X *C. tenuifolia*  
*Cordyline banksii*  
*C. indivisa*  
*Dacrydium cupressinum*  
*Dracophyllum longifolium*  
*Elaeocarpus dentatus*  
*E. hookerianus*

Climbers and lianes, etc.

*Clematis paniculata*  
*Metrosideros diffusa*  
*M. perforata*

Grasses, rushes and like plants

*Carex forsteri*  
*C. virgata*  
*Cortaderia fulvida*  
*C. toetoe*  
*Gahnia pauciflora*  
*Juncus gregiflorus*  
*Juncus planifolius*

Herbs

*Acaena anserinifolia*  
*Astelia fragrans*  
*A. solandri*  
*Cardamine* sp. (*C. debilis* agg.)  
*Collospermum microspermum*  
*Craspedia minor*  
*C. viscosa*  
*Dendrobium cunninghamii*  
*Dianella nigra*  
*Earina autumnalis*  
*E. mucronata*  
*Epiobium alsinoides* s.s.  
*E. brunnescens* s.s.  
*E. komarovianum*  
*E. nummularifolium*  
*E. pubens*  
*E. rotundifolium*

Ferns and allies

*Adiantum cunninghamii*  
*Asplenium bulbiferum* s.s.  
*A. flaccidum*  
*A. oblongifolium*  
*A. polyodon*  
*Blechnum chambersii*  
*B. colensoi*  
*B. discolor*  
*B. fluviatile*  
*B. penna-marina*  
*B. vulcanicum*  
*B. sp. (a)* (*Lomaria latifolia*)  
*B. sp. (b)* (*B. capense* agg.)  
*Cardiomanes reniforme*  
*Ctenopteris heterophylla*  
*Cyathea medullaris*  
*C. smithii*

*Achillea millifolium*  
*Agrostis tenuis*  
*Anthoxanthum odoratum*  
*Carex ovalis*  
*Cerastium fontanum* ssp. *triviale*  
*Chrysanthemum leucanthemum*  
*Cirsium arvensis*  
*C. vulgare*  
*Cynosurus cristatus*  
*Cytisus proliferus*  
*Dactylis glomerata*  
*Daucus carota*  
*Digitalis purpurea*  
*Erica lusitanica*  
*Festuca arundinacea*

*Fuchsia excorticata*  
*Gaultheria antipoda*  
*Geniostoma rupestre* var.  
*Griselinia littoralis*  
*G. lucida*  
*Haloragis erecta*  
*Hebe stricta*  
*Hedycarya arborea*  
*Hoheria populneavar. lanceolata*  
*Leptospermum scoparium*  
*Macropiper excelsum*  
*Melicope simplex*  
*Melicytus lanceolatus*  
*M. ramiflorus*  
*Metrosideros robusta*  
*Myrsine salicina*  
*Neomyrtus pedunculata*  
*Nestegis cunninghamii*  
*Olearia arborescens*  
*O. rani*

*Muehlenbeckia australis*  
*Passiflora tetrandra*  
*Ripogonum scandens*

*Luzula picta* var. *limosa*  
*Microlaena avenacea*  
*M. stipoides*  
*Poa anceps*  
*Rytidosperma gracile*

*Galium propinquum*  
*Gnaphalium audax* s.s.  
*G. keriense*  
*G. limosum*  
*G. subrigidum*  
*G. audax*  
*G. keriense* X *G. subrigidum*  
*G. k. X Helichrysum bellidioides*  
*Helichrysum bellidioides* s.s.  
*H. filicaule*  
*Hydrocotyle americana*  
*H. elongata*  
*H. moschata*  
*Jovellana repens*  
*Lagenifera pumila*  
*Libertia ixioides*

*Dicksonia fibrosa*  
*D. squarrosa*  
*Grammitis billardieri*  
*G. sp.*  
*Histiopteris incisa*  
*Hymenophyllum bivalve*  
*H. demissum*  
*H. flabellatum*  
*H. multifidum*  
*H. pulcherrimum*  
*H. rarum*  
*H. revolutum*  
*H. sanguinolentum* agg.  
*H. scabrum*  
*Hypolepis rufobarbata*  
*H. rufobarbata* X *H. sp.*  
 (*H. tenuifolia*)

EXOTIC SPECIES

*Geranium molle*  
*Gnaphalium luteo-album*  
*Hypochaeris radicata*  
*Juncus articulatus*  
*J. effusus*  
*J. tenuis*  
*Lapsana communis*  
*Lotus pedunculatus*  
*Lupinus arboreus*  
*Mentha* X *piperita*  
*M. pulegium*  
*M. suaveolens*  
*Mimulus guttatus*  
*Nasturtium* sp.

*Pennantia corymbosa*  
*Pittosporum cornifolium*  
*P. eugeniioides*  
*Podocarpus dacrydioides*  
*P. ferruginea*  
*P. hallii*  
*Pseudopanax anomalus*  
*P. arboreus*  
*P. colensoi*  
*P. crassifolius*  
*P. edgerleyi*  
*P. simplex*  
*Pseudowintera axillaris*  
*P. colorata*  
*Schefflera digitata*  
*Urtica ferox*  
*Weinmannia racemosa*

*Rubus australis*  
*R. cissoides*  
*R. schmidelioides*

*Scirpus pottsii*  
*Uncinia feruginea*  
*U. gracilentia*  
*U. silvestris*  
*U. uncinata*

*Luzuriaga parviflora*  
*Nertera depressa*  
*N. setulosa*  
*Oreomyrrhis ramosa*  
*Phormium cookianum*  
*Plantago raoulii* var.  
*Pratia angulata*  
*Raoulia glabra*  
*R. tenuicaulis*  
*Ranunculus hirtus* s.s.  
*Senecio minimus*  
*Stellaria parviflora*  
*Thelymitra longifolia*  
*Urtica incisa*  
*Viola filicaulis*

*Leptopteris hymenophylloides*  
*L. superba*  
*Lycopodium fastigiatum*  
*L. scariosum*  
*L. varium*  
*L. volubile*  
*Paesia scaberula*  
*Phymatosorus diversifolius*  
*Pneumatopteris pennigera*  
*Polystichum richardii*  
*P. vestitum*  
*Pteridium esculentum*  
*Rumohra adiantiformis*  
*Tmesipteris tannensis*  
*Trichomanes venosum*

*Parentucellia viscosa*  
*Plantago lanceolata*  
*P. major*  
*Poa annua*  
*Prunella vulgaris*  
*Ranunculus repens*  
*Rumex acetosella*  
*Senecio jacobaea*  
*Sonchus asper*  
*S. olearaceus*  
*Stellaria media*  
*Trifolium pratense*  
*T. repens*  
*Vicia sativa*

BIRDS (Native and Introduced)

bellbird  
blackbird  
fantail  
greenfinch  
greywarbler  
goldfinch  
harrier hawk  
longtailed cuckoo

magpie  
morepork  
N.Z. pipit  
N.Z. falcon  
rifleman  
shining cuckoo  
skylark

silveryeye  
thrush  
tomtit  
tui  
whitehead  
wood pigeon  
yellowhammer

WAEWAEPa SCENIC RESERVE						GRIP REF T24/U24 700800	
for: scenery <input checked="" type="checkbox"/>	bush <input checked="" type="checkbox"/>	scrub/tussack etc	wetland	plants	animals	geology/soil	
LOCATION	19 km east of Pahiatua					AREA ha/acc	1098.7362
ACCESS	Off Makairo Road, either from the west (via Kohinui) or from the east (via Coonoor).					L.D. No.	
OUTLINE & TOPO	Steeply dissected hill country (reaching 800m) east of the northern Wairarapa plain, parallel to Puketoi Range. The reserve is part of a larger block of secondary scrub and forest which has been burnt over and grazed.					STATUS	Scenic
SURROUNDINGS	Farmland, especially on northern and eastern boundaries. Secondary scrubs, low forest and reverting pastureland on western and southern boundaries.					RES sub-Dttee	
GEOLOGY	Greywacke.					CONTRGL	CCL
SPM	Colluvium.					GAZETTED	1981 p.1756
SOIL	Steepland soils related to yellow-brown earths, and bare rock.					RESERVED	1898/1780, 1913/2113, 1976/2609
DRAINAGE	Very good.					HISTORY	
						AIR PHOTO	SN 5408 E/31, E/32, F/16, F/17
						date	17.12.79.
						nearby town	.12. km Makuri
						nearest reserve	.3. km Pipinui Waterfall S.R.
						public road	.2. km Makuri Ongaha Road
						sea (km)	32
						ALTITUDE max	300-798
						ASPECT	Mainly north-west and south-east
						RAIN mm/yr	1650 (approx)
						SOIL FERTILITY	Low-medium.

RES				NOT				MAIN HABITATS and FEATURES										% area	area ha	native		ex	regen	NAT	trend?	erotics			
LD	NZ	LD	NZ	LD	NZ	LD	NZ													1°	2°	ind							
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					<p>1. Mixed broadleaved forest and scrub on steep, colluvial slopes.</p> <p>Secondary forest and scrub (canopy height 3m-10m) with a variety of broadleaved species such as mahoe, five finger, rangiora, rewarewa, pepper tree, koromiko, karamu, lacebark, hinau, toro, pate, kaikomako, broadleaf and marbleleaf. Tree ferns (<i>mamaku</i> and <i>Cyathea smithii</i>) are scattered throughout and are especially prominent on lower and mid-slopes which have been more recently and more completely cleared. The understorey is composed of broadleaved shrubs, 1-2m tall and ranges from open to moderately dense. Common species are kanono, pate, rangiora, <i>Pseudowintera colorata</i> and kawakawa. The floor cover is mainly litter with occasional ferns such as <i>Blechnum discolor</i>, hen and chicken fern and <i>Pneumatopteris pennigera</i>. With an increasing component of <i>Pseudowintera colorata</i> at higher altitudes and near grassland areas, this vegetation type grades into either, nearly pure <i>Pseudowintera</i> on ridge tops (type 2), or into grassland with <i>Pseudowintera</i> often common throughout (type 3). It has not been possible to map this intergrade separately from vegetation type 1.</p> <p>At lower altitudes, occasional emergent trees (20-30m) are found, remnant from the podocarp forest which would once have clothed the slopes of most of the Waewaepa Range. Rimu is the most common species but Halls totara and matai are also present. One large northern rata was seen near the Makairo Track at the north-eastern end of the reserve and more may be present in the vicinity.</p> <p>Included in the area mapped as this vegetation type are slips and other areas in the heads of streams and gullies which are badly eroded. Especially common on slips is koromiko whilst the eroded areas higher up are in exotic grassland (not visited but probably mainly browntop and cocksfoot) with regenerating broadleaved shrubs (especially <i>Pseudowintera colorata</i>). Some small areas of <i>Astelia fragrans</i> are also present in these areas.</p> <p>There are a few small areas at lower altitudes where tawa is present over the broadleaved forest or forms a small tawa dominant stand.</p>										81.9	900	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					M	M	I	L
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					<p>2. <i>Pseudowintera colorata</i> low forest and scrub (up to c.6m).</p> <p>Secondary low forest and scrub of almost pure <i>Pseudowintera</i> on ridgetops. Occasional Halls totara, toro, <i>Coprosma foetidissima</i>, <i>C. sp.</i> (unnamed) and <i>Cyathea smithii</i> are present throughout. The understorey is sparse with pate being most common. Bush rice grass is prominent on the floor with <i>Blechnum discolor</i>, <i>B. fluviatile</i> and <i>Polystichum vestitum</i> also common. This vegetation type often contains small grassy clearings, similar in composition to 3 (see below).</p> <p>Some large tree fuchsia (40 cm diameter) are present in small depressions in the ridge of the main Waewaepa Range. <i>Dracophyllum longifolium</i> and <i>Brachyglottis rotundifolia</i> var. (<i>B. elaeagnifolia</i>) occur on this ridge also.</p> <p><i>Astelia fragrans</i> is present in the heads of some gullies on the western side of the main ridge (areas were too small to map separately).</p> <p>(Continued..)</p>										17.1	188	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					M	M	I	L

**CONDITION** Generally good considering the ravages of the past. Stock have entry to parts of the reserve north of the Makairo Track and are seriously depleting the understorey.

**FENCING** Fenced along south-eastern boundary. Fencing needed north of Makairo Track where stock have access to reserve.

**PRIORITY** High for above section. Other parts of reserve adjoining farmland should eventually be fenced.

**RATING D-70**

**SCIENTIFIC** A... Localized occurrence of two montane/subalpine species on main ridge of Waewaepa Range.

**SCENIC** 5 Large tract of bush covered hill country in an area where most hills are in pasture.  
.....

3 Important area for recreational hunting.

**RECREATION** .....

**CONCLUSIONS and RECOMMENDATIONS** At nearly 1100 ha Waewaepa Scenic Reserve is by far the largest in the lower North Island. It has been extensively burnt, cleared and grazed in the past and the present vegetation reflects this fact. The reserve contains extensive areas of fire and stock induced *Pseudowintera colorata* scrub and low forest, a vegetation type unrepresented in other Wairarapa Reserves although common in the southern parts of the nearby Ruahine State Forest Park.

The occurrence of *Dracophyllum longifolium* and *Brachyglottis rotundifolia* var. (*Senecio elaeagnifolius*) is of some interest because they are upper montane/subalpine species and in the case of *Brachyglottis*, is the only record east of the Ruahine and Tararua Ranges (J.F. Findlay - letter on file).

An extension could be made on the south-western corner of the reserve (see map) to include an area of forest presently in private ownership. Although only viewed from a distance by the writer the canopy of the forest appears to be in good condition and has a higher density of tall remnant trees than any of the forest in the reserve. A local farmer reported to us that many of the tall trees in this remnant were northern rata, a species which is very scarce in the reserve.

(Continued..)

MAIN HABITATS AND FEATURES (Continued)

3. Browntop-Pseudowintera colorata shrub/grassland.

Introduced grassland with regenerating shrubs of *Pseudowintera*, *Coprosma* sp. (unnamed), *Pseudopanax anomalus*, *Metrosideros diffusa* and *M. perforata*. The shrubs are heavily browsed by deer. Other grassland species include cocksfoot and *Helichrysum bellidifolium*.

1.0	11	✓	✓	✓	L	L	S	M
100.0	1099							

CONCLUSIONS AND RECOMMENDATIONS (Continued)

Waewaepa Scenic Reserve is a valuable recreational hunting area for local people and this use should be actively encouraged as deer numbers are high in the reserve and damage to the vegetation is continuing.

Makairo Road (often called Makairo Track) is now not maintained by the Pahiatua County Council and has been closed to conventional vehicles for a number of years. With the provision of a gate at each end to inhibit access to "off road vehicles", yet allow local landowners access, the Makairo Track could be very inexpensively made into a scenic walkway that would be a valuable asset to the Department. With appropriate publicity, a walkway would increase public use of the reserve for activities such as picnicking and family outings. These activities are considered by the writer to be compatible with recreational hunting because of the large size of Waewaepa Reserve, hunting pressure being concentrated along main ridges to the south of the Makairo Track and the unlikelihood of day walkers straying from the walkway due to the rugged topography and dense vegetation.

Liaison should be continued/established with local land-owners regarding the desirability to fence areas of reserve contiguous with developed farmland. The sections of the reserve north of the Makairo Track are being damaged by stock and are the highest priority.

REFERENCES Druce, A.P., 1975: Indigenous Vascular Plants of the Waewaepa Range (Unpublished), Botany Division, D.S.I.R.

% area	SUMMARY	HABITATS													ORGANISMS		INFER		OBSERVED									
		WATER/SHORE		large	small	swamp	hill	valley	evergreen	emergent	herbaceous	cliff	rock	stony	s-s/shingle	mud	organic	rubbery	extrinsic	pollution	access	a - adjoins reserve	N	S	M	N	L	M
81.9	tall conifer <sup>1</sup> forest/trees	sw/w coast																			higher native plants	179						
17.1	conifer <sup>2</sup> forest/trees	sw/w beach																			lower plants	44						
	beach forest/trees	sw/w estuary																			exotic plants							
	RL <sup>3</sup> forest/trees	sw/w rockpool																			bush							
	scrub/shrubs <6m	lake 120m +																			exotic plants							
	tall tussocks/grassland	pool/tarn																			in native							
	short tussocks/grassland	river 5m +																			higher freshwater plants							
	grassland/grasses	stream																			lower freshwater plants							
	sedge/land/sedges	spring/seepage																			native mammals							
	rushland/rushes/raupa																				native birds							
	herbland/herbs																				introduced birds							
	"tussock" herbland <sup>4</sup>																				waterfowl s.l.							
	fernland/ferns																				introduced waterfowl							
	"moss" land																				reptiles							
	bracken																				native/introduced amphibia							
1	exotic grassland <sup>5</sup>																				fw native fish							
	exotic herbland/woodland																				rw introduced fish							
	exotic scrub/shrubs																				fw invertebrates							
	exotic forest/trees																				terrestrial invertebrates							
	introduced "native" cover																				saltwater life							
	bag/swamp/pakihi																											
	marsh sw/fw																											
	mudflat sw/fw																											
	bluff/rocks																											
	bluffs/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/pits																											
	terraces/earthworks																											
	burial/tapu																											
100																												

<sup>1</sup> tall conifer: kahikatea, kauri, matai, miro, rimu, totara <sup>2</sup> remaining 1! tree-sized spp <sup>3</sup> broadleaved <sup>4</sup> e.g. flax <sup>5</sup> incl. rough grassland, pasture etc