



ROUND BUSH SCENIC RESERVE										GRID	
for: scenery bush scrub/tussock etc wetland plants animals geology/soil history/prehistory water supply										REF N 148 800 248	
<b>LOCATION</b> Between the Manawatu and Rangitikei Rivers, 3.2 km north of Foxton.										AREA ha/ac 51.2837	
<b>ACCESS</b> From SH 1, a right of way across farmland gives access to the eastern boundary. Wylie Road provides direct access to the north-western corner of the reserve.										L.D. No.	
<b>OUTLINE &amp; TOPO</b> Area of semi-swamp forest, secondary forest and swamp in a depression between two 6m. high sand dune ridges which run east/west.										STATUS Scenic	
<b>SURROUNDINGS</b> Farmland.										RES sub-Cities	
<b>GEOLOGY</b> The reserve is located within an area of Holocene sand dunes. It is surrounded by dunes of the Motuiti dune-building phase (approx. 500 yrs b.p.).										CONTROL CCI.	
<b>SPM</b> Dune sands.										GAZETTED 1966, p. 721.	
<b>SOIL</b> Omanuka loam in swamp and semi-swamp areas.										RESERVED	
<b>DRAINAGE</b> Poor.										Bush served as landmark to guide ships to the port of Foxton.	
										AIR PHOTO SN 5408 D/3 date 17.4.79.	
										nearby town 3.2 km Foxton	
										nearest reserve 8.1 km Himatangi Bush	
										public road 0 km Wylie Road	
										sea (km) 5.5	
										ALTITUDE m/ft x 10-15	
										ASPECT Dunes run approx. east/west	
										RAIN mm/60x 900 (approx)	
										NAT FERTILITY Low-Medium	
<b>MAIN HABITATS and FEATURES</b>											
										% area	
										area ha	
										native 1° 2° ind	
										ex regen NAT trend exotics	
1. <u>Pukatea</u> forest on wet flat.										33.2 17.03 ✓	
2a. Mixed broadleaved forest on wet flat.										12.2 6.26 ✓	
2b. Podocarp-mixed broadleaved forest on wet flat.										3.7 1.90 ✓	
3. <u>Coprosma propinqua</u> low forest and shrubland in wet clearing.										5.9 3.03 ✓	
4. (Cabbage tree)/ <u>flax</u> swamp										9.6 4.9 ✓	
5. <u>Raupe</u> swamp.										3.4 1.74 ✓	
6. <u>Lupin-bracken</u> mosaic on sand dunes.										8.4 4.31 ✓	
7a. Pine plantation on sand dune.										8.7 4.46 ✓	
7b. Scattered pines/ <u>lupin-bracken-grasses</u> on sand dunes.										14.9 7.65 ✓	
1. This is forest dominated by pukatea up to 25-30m. tall. The pukatea trees have diameters of between 30 and 60 cm. with a few reaching 90 cm., and a density of about 500 stems/ha. (Esler and Greenwood, 1968). Where the canopy is lower (15-20m), titoki, tawa and mahoe are sometimes found reaching canopy level. Kiekie is common on the pukatea, sometimes climbing to the canopy. Some kahikatea is emergent above the pukatea. An upper understorey is sometimes present with common species including mahoe, tawa, supplejack and Coprosma spp. The lower understorey comprises shrubs, saplings and ferns. Common species are tawa, kawakawa, hangehange, kiekie, hen and chicken fern, titoki, supplejack and mahoe. Litter is abundant on the floor with hook grass and Pteris macilenta. There are some areas of Carex secta in small, wet seepages.											
2a. Secondary forest of varied composition up to 15m. tall. Canopy species include tawa, cabbage tree, Coprosma propinqua, mahoe, mapou, kohuhu, pukatea, titoki and ngaio. Some kahikatea are also present in canopy, especially in the smaller mapped area at the base of the northern dune. The larger area has a margin of tall fescue and Cyperus ustulatus sedge/land-grassland adjacent to the eastern boundary of the reserve.											
2b. A variant of 2a with a higher water-table, on the margin of the main swamp area. There is more kahikatea and cabbage tree than 2a, forming a canopy ranging in height from 4-12m. Other common species in canopy include kohuhu, mahoe, Coprosma propinqua and mapou. The understorey consists of Carex secta, tostoe, mahoe, young cabbage tree, flax and Cyperus ustulatus. Ferns, grasses and creeping buttercup are common on the floor.											
3. This occupies a clearing at the eastern end of the reserve which was created c.1918 by the milling of a heavy stand of kahikatea. Other species in the canopy include cabbage tree, kahikatea, kohuhu, mahoe and mapou. There are many, small, boggy clearings throughout with tall fescue, Cyperus ustulatus and Carex secta. There are also seedlings of mahoe, mapou, kahikatea and matipo present.											
(Continued..)											
										100 51.28	
<b>CONDITION</b> Generally good but deer may be having an effect on regeneration of some canopy species.											
<b>FENCING</b> Generally good although one short section in the south-eastern corner of the reserve needs attention (exact location indicated on map).											
<b>PRIORITY</b> Medium - high priority for the above section.											
<b>RATING 0-10</b>											
<b>SCIENTIFIC</b> 7.. Important reserve historically, geologically and botanically.											
<b>SCENIC</b> 6 Attractive area of swamp and semi-swamp forest.											
<b>RECREATION</b> 2.. Used mainly for educational rather than recreational purposes although the proposed walking track should alter this.											
<b>CONCLUSIONS and RECOMMENDATIONS</b>											
An important stand of bush on the Manawatu Plains and one of the few areas of pukatea dominated semi-swamp forest remaining in the region. The reserve also contains a worthwhile area of flax and raupe swamp. Research should be initiated to assess the effects of any change in the water-table on the swamp area and the semi-swamp forest. Esler and Greenwood (1968) describe the swamp as raupe dominated and this is not the case today as flax dominates much of the swamp area. This suggests drying out of the swamp, and a lowered water-table could have serious long term effects on the pukatea forest.											
Research should be carried out to ascertain the numbers of sambar deer using the bush and to assess their effects on the forest. Sambar deer sign was rife throughout the reserve and even low numbers of deer may be having a significant effect on regeneration in such a small area of bush. An observed lack of pukatea seedlings on the forest floor may or may not be attributed to the deer and this should be ascertained and a suitable eradication programme started.											
... 3. hours ... Overcast/windy ... conditions DJC, SF											
1 NATURALNESS 2 TREND: D deteriorating; S steady; I improving											

MAIN HABITATS AND FEATURES (Continued)

4. An area with flax up to 3-4m tall interspersed with the occasional cabbage tree. Cabbage tree is also common around the margins, along with kiekie and young kahikatea. Raupo, *Cyperus ustulatus* and creeping buttercup are present under the flax. Some gorse is present on the drier margins, especially on the southern side adjacent to the pine forest.
5. A wetter area than the flax dominated swamp, this area is dominated by raupo up to 3m. tall with some flax and cabbage tree at the drier eastern end. Raupo forms a nearly pure association at the western end.
6. A mosaic of lupin and bracken up to 3m. tall with a few self sown pine trees scattered throughout. Associated species include introduced grasses, most notably tall fescue and cocksfoot.
- 7a. Planted pines on southern sand dune with lupin, bracken, tall fescue and cocksfoot around periphery.
- 7b. This is scattered pine trees (mostly self sown) on sand dunes above lupin, bracken, tall fescue and cocksfoot. Some shrubs and young trees of mahoe are present under and around the pines.

REFERENCES Esler, A.E. and Greenwood, R.M., 1968. Omarupapaku (Round Bush), Foxton. *Bulletin Wellington Botanical Society*, 35:3-7.  
Lands & Survey Department, 1982. Round Bush Scenic Reserve Management Plan (Draft). Series No. SR58.

% area	SUMMARY	HABITATS															ORGANISMS	INFER			OBSERVED					
		WATER / SHORE		veg	substrate			pollution		access		N	S	M	N	L		R	H	initials						
1.9	tall conifer forest/trees conifer forest/trees															higher native plants <sup>1,2,3</sup>										
30.2	broad forest/trees	sw/w coast	large	small	several	tall/stable	overhang	emergent	herbacc.	cliff	rock	stony	stagnant	moor	organic	rubbish	nutrient	local	burnt	cat	exotic plants 38					
4.3	scrub/shrubs < 6m	sw/w beach														lower plants										
	tall tussocks/grassland	sw/w estuary														exotic plants										
	short tussocks/grassland	sw/w rockpool														bush										
	grassland/grasses	lake 120m+														exotic plants scrub										
	sedge/land/sedges	pool/tarn														in native grass										
3.4	rush/land/rushes/raupo	river 5m+														higher freshwater plants										
	herb/land/herbs	stream														lower freshwater plants										
9.6	"tussock" herb/land	spring/seepage														native mammals										
	fern/land/ferns															native birds										
	"moor" land															introduced birds										
7.9	bracken															waterfowl s.l.										
	exotic grassland															introduced waterfowl										
	exotic herb/land/woodland															reptiles										
7.9	exotic scrub/shrubs															native/introduced amphibia										
16.2	exotic forest/trees															fw native fish										
	introduced "native" cover															fw introduced fish										
																fw invertebrates										
																terrestrial invertebrates										
	bag/swamp/pakihū															saltwater life										
	marsh sw/w																									
	muflat sw/w																									
	bluff/rocks																									
	bluffs/rocks in bush																									
	waterfall																									
	cave/gorge																									
	gravel habitat/scrae																									
	dune/sand																									
	limestone																									
	ultrabasics																									
	geological site																									
	breeding ground																									
	rare/interesting animals																									
	rare/interesting plants																									
	historic site																									
	historic building																									
	prehistoric site																									
	camp foundations/pits																									
	terraces/earthworks																									
	burial/topu																									
100																										

<sup>1</sup> tall conifer: kahikatea, kauri, matai, miro, rimu, totara    <sup>2</sup> remaining 11 tree-sized spp    <sup>3</sup> broadleaved    <sup>4</sup> e.g. flax    <sup>5</sup> incl. rough grassland, pasture etc

TREES AND SHRUBS

Native

Alectryon excelsus  
Aristotelia serrata  
Beilschmiedia tawa  
Brachyglottis repanda  
Carmichaelia flagelliformis  
var. corymbosa  
Carpodetus serratus  
Coprosma acerosa  
C. areolata  
C. crassifolia  
C. propinqua  
C. propinqua X robusta  
C. rhamnoides  
C. tenuicaulis  
C. tenuifolia  
Cordyline australis  
Cyathodes fasciculata  
C. fraseri

Corynocarpus laevigatus  
Elaeocarpus dentatus  
E. hookerianus  
Eugenia maire  
Geniostoma rupestre var.  
Griselinia lucida  
Hedycarya arborea  
Hoheria sp. (seedling)  
Knightia excelsa  
Laurelia novae-zelandiae  
Loranthus micranthus  
Macropiper excelsum  
Melicytus micranthus  
M. ramiflorus  
Myoporum laetum  
Myrsine australis  
Lophomyrtus bullata  
L. bullata X obcordata

Lophomyrtus obcordata  
Nestegis cunninghamii  
N. lanceolata  
N. montana  
Olearia solandri  
O. virgata  
Paratrophis microphylla  
Pennantia corymbosa  
Pittosporum eugenioides  
P. tenuifolium  
Podocarpus dacrydioides  
P. spicatus  
P. totara  
Pseudopanax crassifolius  
Schefflera digitata  
Solanum aviculare  
Sophora microphylla

Adventive and Planted

Eucalyptus sp.  
Lupinus arboreus

Lycium ferocissimum  
Pinus radiata

Solanum pseudocapsicum  
Ulex europaeus

CLIMBERS, LIANES, ETC.

Native

Clematis paniculata  
C. foetida  
Freycinetia banksii  
Fuchsia perscandens

Metrosideros colensoi  
M. perforata  
Muehlenbeckia australis  
M. complexa  
Parsonsia capsularis

Parsonsia heterophylla  
Rhipogonum scandens  
Rubus schmidelioides  
Passiflora tetrandra

Adventive

Calystegia silvatica  
Rubus fruticosus agg.

GRASSES, RUSHES AND LIKE PLANTS

Native

Carex forsteri  
C. lucida  
C. secta  
C. ternaria  
C. virgata

Cortaderia toetoe  
Eleocharis acuta  
Gahnia xanthocarpa  
Microlaena avenacea  
M. stipoides

Poa anceps  
Scirpus reticularis  
Uncinia clavata  
U. uncinata

Adventive

Agrostis stolonifera  
Anthoxanthum odoratum  
Cyperus ustulatus

Dactylis glomerata  
Festuca arundinacea

Juncus sarophorus  
Scirpus nodosus

HERBS

Native

Astelia grandis  
A. solandri  
Cardamine debilis  
Collospermum hastatum  
Drymoanthus adversus  
Earinia autumnalis  
E. mucronata

Epilobium sp.  
Erichtites minima  
Gastrodium minor  
Gnaphalium collinum  
Hydrocotyle novae-zelandiae  
Lemna minor  
Parietaria debilis

Phormium tenax  
Pterostylis banksii  
Ranunculus rivularis  
Solanum nodiflorum  
Typha orientalis  
Urtica linariifolia  
Wahlenbergia gracilis

Adventive

Bellis perennis  
Cirsium vulgare  
Conium maculatum  
Erigeron floribundus  
Galium aparine  
Geranium robertianum  
Hypochaeris radicata

Nasturtium sp.  
Picris sp.  
Plantago australis  
P. lanceolata  
Ranunculus repens  
Rumex acetosella  
R. crispus  
Senecio bipinnatisectus

Senecio jacobaea  
S. minimus  
Solanum nigrum  
S. pseudocapsicum  
Stellaria media  
Taraxacum officinale  
Trifolium dubium  
T. repens

FERNS AND ALLIES

Native

Asplenium bulbiferum  
A. falcatum  
A. falcatum X lucidum  
A. flaccidum  
A. flaccidum X bulbiferum ?  
A. lucidum  
Blechnum capense  
B. filiforme

Cyathea medullaris  
C. smithii  
Dicksonia fibrosa  
D. squarrosa  
Hypolepis punctata  
H. tenuifolia  
Pellaea rotundifolia  
Phymatosorus diversifolius

Phymatosorus scandens  
Polystichum richardii  
Pteridium aquilinum  
var. esculentum  
Pteris macilentata  
P. tremula  
Pyrrhosia serpens  
Thelypteris penniger

BIRDS

black-backed gull  
blackbird  
chaffinch  
fantail  
harrier hawk

kingfisher  
pied tit  
pigeon  
pukeko  
silvereye  
skylark

songthrush  
sparrow  
starling  
welcome swallow  
white-backed magpie  
white-faced heron