

The Vegetation of the fenced Area of Forest adjacent to Grays Road and the Kaheo Stream, North Shore of Pauatahanui Arm of Porirua Harbour.

Ken Gray's Property

Topography: Rolling greywacke hills and shallow (dry) stream courses. Steep cliff above road, approx. 15 - 20 m.

Vegetation pattern: Karaka forest in hollows merging into kohekohe forest with scattered tawa madhineu on ridges. There is a relative absence of undergrowth in the tall forest. The area furthest from the harbour, and mainly of juvenile plants of potential canopy trees. These juveniles are either pole sized trees (e.g. totara, matai, mahoe, matipo) or seedlings which have germinated since the area was fenced (e.g. kohekohe, mahoe, karaka). The absence of young trees between poles and seedlings in size can be attributed to grazing by stock in the past.

A number of species in the list below are confined to the coastal cliff where they probably survived through being inaccessible to stock. Some of these should increase now the stock have been removed, including ferns such as ponga, kowhai, ngaio and five-finger.

Species List of Indigenous Plants \*

Gymnosperms

*Podocarpus dacrydioides*: white pine, kahikatea - 2 canopy trees  
*P. spicatus*: matai - several poles  
*P. totara*: totara - several canopy trees, 2 poles

Dicotyledon trees

*Alectryon excelsus*: titoki - scattered trees, no seedlings seen  
*Bellischniella tawa*: tawa - numerous trees. No seedlings seen.  
*Dysoxylum spectabile*: kohekohe - dominant tree on ridges, many seedlings  
*Elaeocarpus dentatus*: hinau - scattered trees, one seedling seen.  
*Knightia excelsa*: rewera, honeysuckle - one "over-mature" tree  
*Leptospermum ericoides*: kanuka - dominant scrub tree  
*Melicope ternata*: wharangi - dominant at kanuka-forest boundary, numerous seedlings.  
*Melicytus ramiflorus*: mahoe, whitey wood - numerous trees, plentiful poles and seedlings.  
*Metrosideros robusta*: northern rata - 2 small trees on cliffs.  
*Myoporum laetum*: ngaio - scattered marginal trees, a few seedlings.  
*Pseudopanax arboreum*: five-finger - several seedlings on cliffs.  
*P. crassifolium*: lancewood - several poles and seedlings in kanuka scrub.  
*Sophora microphylla*: kowhai - few trees at cliff base.

Dicotyledon shrubs

*Brachyglottis repanda*: rangiore - few on cliffs.  
*Carmichaelia*: native broom - scattered in kanuka scrub  
*Coprosma arcuolata*: - common in forest and scrub  
*C. lucida*: - several on cliffs  
*C. propinqua*: - several seedlings in scrub  
*C. repens*: - 2 seedlings in forest.  
*C. rhamnoides*: taupata - common in scrub  
*Geniostoma ligustrifolium*: NZ privet - few in scrub  
*Griselinia lucida*: puka, broadleaf - 2 on cliffs (terrestrial)  
*Helichysum glomeratum*: shrub daisy - numerous on cliffs.  
*Macropiper excelsum*: kawakawa - dominant under forest  
*Myrcine australis*: mapcu - few seedlings in scrub  
*Olearia paniculata*: Akepiro - few shrubs on cliffs  
*Paratrophis banksii*: large-leaved milk tree - several shrubs in kohekohe forest. (a rare plant)  
*Pittosporum tennifolium*: matipo - few canopy plants and seedlings in kanuka scrub.  
*Solanum* sp.: poroporo - few seedlings in scrub.

Dicotyledon lianes

*Metrosideros fulgens*: red flowered rata vine - few on cliffs  
*M. perforata*: white " " - occasional in forest and scrub  
several terrestrial only.  
*Muehlenbeckia australis*: pohuehue : several marginal to forest  
*M. complexa*: " : Marginal and on cliffs.  
*Parsonsia heterophylla*: NZ Jasmine :  
*Tetrapathaea tetrandra*: NZ passionfruit : one in kanuka scrub

Cola Ogle's list  
On bibliography ✓

Dicotyledon herbs:

- Apium australe : shore celery
- Cotula coronopifolia: batchelor's button
- Dichondra repens : Mercury Bay weed
- Galium propinquum : Cléavers
- Gnaphalium delicatum(?) : Gnap-weed
- Hydrocotyle americana:
- Oxalis sp. : oxalis
- Parietaria debilis : -
- Stellaria parviflora : -

Monocotyledons

- Carex solandri : Cutty-grass
- Cordylina australis : cabbage tree
- Deyeuxia crinita : Grass
- Dianella nigra : turutu, blueberry
- Echinopogon ovatus : Grass
- Libertia grandiflora : NZ iris
- Luzula picta var. picta : wood rush
- Poa anceps : grass
- Pterostylis alobula : green hood orchid
- Trisetum antarcticum : grass
- Uncinia banksii (?) : hook "grass"
- U. scabra : " "
- Asplenium bulbiferum : hen-and-chicken fern;
- A. falcatum } spleen
- A. flaccidum } worts
- A. hookerianum }
- A. lucidum }
- A. bulbiferum x hookerianum)

Ferns

- Blechnum capense "swamp variety" : hard-fern
- B. filiforme : creeping blechnum
- Cyathea dealbata : ponga, silver fern
- Hypolepis tenuifolia
- Lestropsis glabella
- L. Microsora (*deca-~~arpa~~ /<sup>ku</sup>*)
- ? L. Velutina (not collected - doubtful record in forest?)
- Pellaea rotundifolia
- Phymatodes diversifolia } hound's tongue fern
- P. scandens } *Polypodium*
- Polystichum richardii : bracken
- Pteridium aquilinum : bracken
- Pteris tremula : " "
- Thelypteris pennigera : " "

Total vascular species = 77 + 1 hybrid + 1 doubtful record.