

THE FLORA OF GORE BAY,
PORT ROBINSON AND MANUKA BAY

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On 13th October 1979 the Society visited the new Gore Bay Scenic Reserve (gazetted in 1974). After walking the circular track through this reserve of coastal forest, the field party split up - one group walking along the coast through the Port Robinson Recreation Reserve, (formerly the Port Robinson Domain) while a smaller party led by J. Cartman had a quick look at the coastal forest in Manuka Bay.

A checklist of vascular plants previously recorded from these areas was used on the field trip, and with the help of most of the party substantial and noteworthy additions were made. The revised checklist is set out below and includes species reported for these areas in the past by Kelly (1972) and Mason (1969, 1978). Ruth Mason has also kindly supplied further names of plants seen on her many visits to these areas.

In addition to the vascular plants, bryophytes and algae in the Gore Bay Scenic Reserve were examined by Jette Lewinsky and Murray Parsons during the same field visit, and marine algae (mainly drift, as the tide was still quite high at the time) were studied along the coast. Lists of these plants have been prepared and are set out below also:

Checklist of vascular plants

Gore Bay Scenic Reserve (GB), Port Robinson (PR)
and Manuka Bay (MB)

- * Species with southern limits in Canterbury
** First record for Canterbury

Ferns:

	<u>GB</u>	<u>PR</u>	<u>MB</u>
A. <u>Native</u>			
* Adiantum cunninghamii	X	X	
Alsophila tricolor (Col.) Tryon	X		
Asplenium gracillimum Col.	X	X	
A. colensoi Col.	X		
A. colensoi x gracillimum	X		
A. flabellifolium		X	
A. lyallii		X	X
* A. oblongifolium Col.		X	X
A. terrestre	X	X	
A. gracillimum x terrestre	X		
Blechnum "capense"	X	X	

Ferns (Continued):

	<u>GB</u>	<u>PR</u>	<u>MB</u>
<u>A. Native</u>			
B. chambersii	X	X	X
B. fluviatile	X		
* B. "Green Bay"	X		
B. "capense" x "Green Bay"	X		
B. minus (R.Br.) Ettingsh.	X		
B. penna-marina	X		
Cheilanthes sieberi	X		
Ctenopteris heterophylla	X		
Dicksonia squarrosa	X		
Histiopteris incisa	X		
Hypolepis rufobarbata	X		
H. tenuifolia	X		X
Paesia scaberula	X		
Pellaea rotundifolia	X		X
Phymatosorus diversifolius (Willd.) Pic. Ser.	X	X	X
Polystichum richardii	X	X	X
Pteridium esculentum (Forst.f.) Cockayne	X	X	X
* Pteris tremula			X
Pyrrosia serpens	X	X	X
Thelypteris pennigera	X	X	X
<u>B. Adventive</u>			
Dryopteris filix-mas	X	X	

Trees and shrubs:

	<u>GB</u>	<u>PR</u>	<u>MB</u>
<u>A. Native</u>			
* Alectryon excelsum	X	X	X
Aristotelia serrata	X		
Carmichaelia "robusta"	X	X	X
Carpodetus serratus	X	X	X
Cassinia fulvida	X		
Coprosma acerosa		X	
C. crassifolia			X
C. lucida	X	X	
C. robusta	X	X	X
C. rotundifolia	X		
Cordyline australis	X	X	X

Trees and shrubs (Continued):

	<u>GB</u>	<u>PR</u>	<u>MB</u>
A. <u>Native</u>			
Coriaria arborea	X	X	
Cyathodes fasciculata	X		
C. juniperina			X
Discaria toumatou	X	X	X
* Dodonaea viscosa	X	X	X
* Elaeocarpus dentatus			X
Fuchsia "colensoi"	X		
F. excorticata	X	X	X
Griselinia littoralis	X		
* G. lucida			X
Haloragis erecta	X	X	X
Hebe salicifolia	X	X	X
** H. stricta var. macroura			X
Helichrysum aggregatum Yeo	X		
Leptospermum scoparium	X	X	X
L. ericoides	X		X
Lophomyrtus obcordata	X		
* Macropiper excelsum	X	X	X
Melicytus ramiflorus	X	X	X
Muehlenbeckia complexa	X	X	X
Myoporum laetum	X	X	X
Myrsine australis	X	X	X
Olearia avicenniaefolia		X	X
O. paniculata	X	X	X
** O. avicenniaefolia x paniculata			X
Pennantia corymbosa	X	X	X
Pimelea prostrata	X	X	
Pittosporum eugenioides	X		X
P. tenuifolium	X	X	X
Plagianthus divaricatus		X	
Podocarpus spicatus	X		X
P. totara	X		
Pseudopanax arboreus	X	X	X
P. crassifolius	X		X
Shefflera digitata	X		
* Solanum aviculare		X	
S. laciniatum	X	X	
Sophora microphylla	X	X	X

Trees and shrubs (Continued):

	GB	PR	MB
<u>B. Adventive</u>			
Acacia melanoxylon	X	X	
Albizzia lophantha	X		
Chrysanthemum frutescens		X	
Coprosma repens	X	X	
* Corynocarpus laevigatus	X	X	
Cotyledon orbiculata		X	
Cupressus macrocarpa		X	
Chamaecytisus palmensis (Christ) Hutch.		X	
Cytisus scoparius	X	X	
Eucalyptus spp.	X	X	X
Lavatera arborea		X	
Lupinus arboreus	X	X	X
Lycium ferocissimum	X	X	
Myoporum insulare		X	
Pinus radiata	X	X	X
Pinus spp.		X	
Rosa canina	X		
R. rubiginosa		X	X
Rubus fruticosus	X	X	
Salix fragilis		X	
Sambucus nigra		X	
Ulex europaeus	X	X	X

Climbers and parasites:

<u>A. Native</u>			
Calystegia turguriorum	X	X	X
Clematis paniculata	X	X	X
Ileostylus micranthus (Hook.f.) Tiegh.	X		X
Metrosideros diffusa	X		
Muehlenbeckia australis	X	X	X
Parsonsia heterophylla	X	X	X
Ripogonum scandens			X
Rubus squarrosus	X	X	X
Tupeia antarctica	X	X	

Climbers and parasites (Continued)

	<u>GB</u>	<u>PR</u>	<u>MB</u>
<u>B. Adventive</u>			
Calystegia sepium		X	
Clematis vitalba		X	
Lathyrus tingitanus			X
Passiflora caerulea		X	
Senecio angulatus		X	
S. mikanioides		X	
Tropaeolum majus		X	
Vinca major		X	

Monocot herbs:

	<u>A. Native</u>		
** Acianthus fornicatus	X		
Agropyron scabrum	X	X	
Astelia fragrans	X	X	X
Carex forsteri	X		
C. pumila		X	X
C. solandri	X		
C. virgata	X		
Cortaderia richardii	X	X	
Corybas trilobus	X		
Deyeuxia billardieri		X	X
Dichelachne crinita	X	X	
Echinopogon ovatus	X		
Festuca novae-zelandiae	X		
Juncus gregiflorus	X	X	X
Lemna minor		X	
Leptocarpus similis		X	
Libertia ixioides	X	X	X
Luzula rufa	X		
Microlaena avenacea	X		
M. stipoides	X	X	X
Microtis unifolia	X		
Phormium tenax	X	X	X
Poa caespitosa	X	X	
Potamogeton pectinatus		X	
* Pterostylis alobula	X	X	
P. banksii	X		X

Monocot herbs (Continued)

	<u>GB</u>	<u>PR</u>	<u>MB</u>
<u>A. Native</u>			
P. sp.	X		
Ruppia megacarpa		X	
Rytidosperma clavatum (Zotov) Connor et Edgar	X	X	X
R. gracile (Hook.f.) Connor et Edgar	X		
R. racemosum (R.Br.) Connor et Edgar	X		
Scirpus caldwellii		X	
S. nodosus	X	X	X
S. pottsii	X		
Thelymitra longifolia	X		
Typha orientalis		X	
Uncinia affinis	X	X	
U. ferruginea		X	
U. leptostachya	X		X
U. uncinata	X	X	X
<u>B. Adventive</u>			
Agropyron repens		X	
Agrostis stolonifera	X	X	
A. tenuis	X	X	X
Aira caryophyllea		X	
Allium sp.		X	
Alopecurus geniculatus		X	
Ammophila arenaria	X	X	X
Anthoxanthum odoratum	X	X	X
Bromus diandrus	X	X	X
B. sterilis		X	
B. tectorum		X	X
B. unioloides	X	X	X
Dactylis glomerata	X	X	X
Elymus giganteus		X	
Festuca arundinacea		X	
Glyceria fluitans	X	X	
Holcus lanatus	X	X	X
Hordeum murinum		X	
Juncus bufonius	X		

Monocot herbs (Continued)

	<u>GB</u>	<u>PR</u>	<u>MB</u>
<u>B. Adventive</u>			
<i>J. effusus</i>		X	
<i>J. tenuis</i>		X	
<i>Lagurus ovatus</i>		X	
<i>Lolium multiflorum</i>	X	X	
<i>L. perenne</i>	X	X	X
<i>Nassella trichotoma</i>	X		
<i>Paspalum dilatatum</i>		X	
<i>Phalaris minor</i>		X	
<i>Poa annua</i>		X	
<i>P. pratensis</i>	X	X	
<i>Stenotaphrum secundatum</i>		X	
<i>Vulpia bromoides</i>	X	X	

Dicot herbs:

	<u>A. Native</u>		
<i>Acaena anserinifolia</i>	X	X	X
<i>Apium australe</i>		X	X
<i>Calystegia soldanella</i>		X	X
<i>Cardamine "debilis"</i>	X		X
<i>Celmisia gracilentata</i>	X		
<i>Chenopodium allanii</i>		X	
<i>Cotula coronopifolia</i>		X	X
<i>C. squalida</i>	X		
<i>Cyathodes fraseri</i>	X		
<i>Dichondra repens</i>	X	X	
<i>Disphyma australe</i>	X	X	X
<i>Epilobium cinereum</i>	X		
<i>E. nummulariifolium</i>	X		
<i>E. pedunculare</i>	X		
<i>E. pubens</i>	X	X	X
<i>E. rotundifolium</i>	X		
<i>Geranium microphyllum</i>	X		
<i>G. sessiliflorum</i>	X		
<i>Gnaphalium audax</i>	X		
<i>G. gymnocephalum</i>	X		
<i>G. luteo-album</i>	X	X	X
<i>Helichrysum bellidioides</i>	X		

Dicot herbs (Continued)

	<u>GB</u>	<u>PR</u>	<u>MB</u>
A. <u>Native</u>			
<i>H. filicaule</i>	X	X	
<i>Hydrocotyle moschata</i>	X	X	X
<i>Lagenifera pumila</i>	X		X
<i>Linum monogynum</i>	X	X	X
<i>Nertera setulosa</i>	X		
<i>Oxalis exilis</i>	X	X	
<i>Pelargonium inodorum</i>		X	
<i>Ranunculus hirtus</i>	X		X
<i>Raoulia australis</i>			X
<i>R. monroi</i>		X	
<i>Rhagodia triandra</i>		X	
<i>Samolus repens</i>		X	X
<i>Scleranthus uniflorus</i>		X	
<i>Selliera radicans</i>		X	X
<i>Senecio lautus</i>		X	X
<i>S. minimus</i>	X		
<i>S. quadridentatus</i>	X	X	
<i>Spergularia marginata</i>		X	
<i>Stellaria parviflora</i>	X		
<i>Tetragonia tetragonioides</i>		X	
<i>T. trygyna</i>	X	X	X
<i>Tillaea sieberiana</i>		X	
<i>Vittadinia australis</i>	X	X	X
<i>Wahlenbergia albomarginata</i>	X		
<i>W. gracilis</i>		X	

B. Adventive

<i>Achillea millefolium</i>	X	X	
<i>Anagallis arvensis</i>		X	
<i>Anthemis cotula</i>		X	
<i>Bellis perennis</i>	X		
<i>Capsella bursa-pastoris</i>	X		
<i>Carduus pycnocephalus</i>		X	X
<i>C. tenuiflorus</i>	X	X	X
<i>Centaurium erythraea</i>	X		
<i>Cerastium holosteoides</i>	X	X	X
<i>Chenopodium album</i>		X	

Dicot herbs (Continued)

	<u>GB</u>	<u>PR</u>	<u>MB</u>
<u>B. Adventive</u>			
<i>Cirsium arvense</i>	X	X	
<i>C. vulgare</i>	X	X	X
<i>Coronopus didymus</i>		X	
<i>Cotula australis</i>		X	
<i>Crepis capillaris</i>	X	X	X
<i>Crocosmia</i> sp.		X	
<i>Dianthus armeria</i>	X	X	
<i>Drosanthemum floribundum</i>		X	
<i>Echium vulgare</i>		X	
<i>Epilobium obscurum</i>		X	
<i>Erigeron</i> sp.		X	
<i>Erodium cicutarium</i>			X
<i>E. moschatum</i>		X	
<i>Euphorbia peplus</i>		X	
<i>Galium aparine</i>	X	X	X
<i>Geranium molle</i>		X	X
<i>Hieracium pilosella</i>	X		
<i>Hypochoeris radicata</i>	X	X	X
<i>Leontodon taraxacoides</i>		X	
<i>Linum marginale</i>	X		
<i>Lobularia maritima</i>		X	
<i>Malva sylvestris</i>		X	
<i>Marrubium vulgare</i>		X	X
<i>Matricaria inodora</i>		X	
<i>Medicago arabica</i>	X	X	
<i>M. lupulina</i>		X	
<i>M. polymorpha</i>		X	
<i>M. sativa</i>		X	
<i>Melianthus major</i>		X	
<i>Melilotus indica</i>		X	
<i>Melissa officinalis</i>		X	
<i>Mentha spicata</i>	X	X	
<i>Mesembrythemum</i> sp.		X	
<i>Navarretia squarrosa</i>		X	
<i>Oxalis latifolia</i>		X	
<i>Pelargonium inquinans</i>		X	
<i>Picris echioides</i>	X	X	

Dicot herbs (Continued)

	<u>GB</u>	<u>PR</u>	<u>MB</u>
<u>B. Adventive</u>			
Plantago coronopus		X	X
P. lanceolatus	X	X	X
P. major	X	X	
Polycarpon tetraphyllum		X	X
Polygonum convolvulus		X	X
P. persicaria		X	X
Prunella vulgaris	X	X	X
Ranunculus fluitans	X	X	
R. sceleratus	X	X	X
Rorippa microphyllum	X	X	
R. officinale	X	X	
Rumex acetosella	X		X
R. crispus	X	X	X
R. obtusifolius		X	
Sagina procumbens	X		
Sedum acre		X	
Senecio cruentus	X	X	
S. elegans		X	
S. jacobaea		X	X
Silene gallica		X	
Sisymbrium officinale	X	X	X
Solanum nigrum	X	X	
S. tuberosum		X	
Sonchus asper		X	
S. oleraceus	X	X	X
Stellaria media		X	
Symphytum asperum	X	X	
Taraxacum officinale	X	X	X
Trifolium arvense		X	X
T. campestre		X	
T. dubium	X		X
T. fragiferum			X
T. ornithopodioides		X	X
T. pratense	X	X	
T. repens	X	X	
T. subterraneum	X	X	

Dicot herbs (Continued)

	GB	PR	MB
B. <u>Adventive</u>			
Veronica anagallis-aquatica		X	
V. arvensis		X	
Vicia sativa	X	X	X
Vinca major		X	
Zantedeschia aethiopica		X	

The numbers of plants in each group on each site are listed below, with adventive species in brackets.

	GB	PR	MB	TOTALS
Ferns	27 (1)	13 (1)	12 (0)	31 (1)
Trees and shrubs	38 (13)	28 (22)	31 (7)	49 (24)
Climbers and parasites	8 (0)	6 (7)	7 (1)	9 (8)
Monocot herbs	31 (15)	23 (29)	12 (9)	40 (31)
Dicot herbs	31 (38)	27 (78)	18 (28)	47 (88)
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<u>Totals</u>	135 (67)	97 (137)	80 (45)	176 (152)
	202	234	125	328

REFERENCES

- Kelly, G. 1972: Scenic Reserves of Canterbury. Biological survey of Reserves, Report 2. Department of Lands and Survey, Wellington, 390 pp.
- Mason, R. 1969: The vegetation of the Coast. In Knox, G.A. (Edit.) "The Natural History of Canterbury", Reed, Wellington, 95-105.
- Mason, R. 1978: Gore Bay and Port Robinson - Miscellaneous notes. Canterbury Botanical Society Journal 12: 33-4.