

PLANTS FOUND GROWING ON THE FILL TERRACES OF THE LOWER HUIA DAME.D. Hatch

This list is compiled from notes made by Jim Beever and E.D.H. 3 Nov 1978, and by Jack Mackinder and E.D.H. 20 Feb 1982. The plant cover of the quarry has developed from bare rock since September 1971 when the dam was completed. The Manukau breccia is not a pleasant place for plants. The verticle cliffs run water during the winter and dry out completely during the summer and this seasonal contrast is reflected in the micro-flora. Mosses and liverworts, shallow-rooted annual weeds and grasses, a few of the tougher ferns, a sprinkling of normal cliff-face species and some hardy shrubs. Most of these are windborne - mosses, liverworts, ferns, composites, Epilobium, Microtis, Phormium, pine - some bird carried - riaria, Coprosma - and some have literally fallen into place from the bush above. The determining characteristic of all of them is their capacity to withstand the summer dessication. The dominant plant of the terraces is the pink-flowered pampas grass Cortaderia jubata, and everything else (including the enquiring botanist) has to fit into the small gaps between the tussocks. The floor of the quarry accumulates runoff water, which lies out in little lakes with Plantago hirtella and masses of Machaerina sinclairii. A greyish-white lichen (possibly a Cladonia?) occurs in quantity and is most conspicuous.

= adventive; C = cliff face;

<i>Acacia decurrens</i> A	<i>Hebe stricta</i>
<i>Agallia arvensis</i> A	<i>Leptospermum scoparium</i>
<i>Asplenium cirratum</i> C	<i>Lobelia anceps</i>
<i>Asplenium lucidum</i> C	<i>Machaerina sinclairii</i>
<i>Biza maxima</i> A	<i>Mentha pulegium</i> A
<i>minor</i> A	<i>Metrosideros excelsa</i> C
<i>Buddleia davidii</i> A	<i>M. perforata</i>
<i>Centaurium erythraea</i> A	(scrambling over the rocks on
<i>Cladonia</i> sp. ?	the floor of the quarry)
<i>Coprosma rhamnoides</i>	<i>Microtis unifolia</i>
<i>robusta</i>	<i>Morelotia affinis</i>
<i>Criaria arborea</i> C	<i>Nephrolepis</i> cf <i>cordifolia</i> A C
<i>Cortaderia jubata</i> A	(according to Chinnock this
<i>Crepis capillaris</i> A	local weed is distinct from
<i>Cathodes juniperina</i>	<u>cordifolia</u> , but he does not
<i>Cyperus congestus</i> A	give it a name)
<i>eragrostis</i> A	<i>Olearia furfuracea</i>
<i>Cytisus scoparius</i> A	<i>Orobanche minor</i> A
<i>Clarksonia squarrosa</i>	(with <u>Trifolium repens</u>)
<i>Cladonia viscosa</i>	<i>Paesia scaberula</i> C
<i>Epilobium ciliatum</i> A C	<i>Parentucellia viscosa</i> A
<i>Erechtites atkinsoniae</i> A	<i>Phormium tenax</i>
<i>Egigeron mucronatus</i> A C	<i>Phymatodes diversifolium</i> C
<i>Eupatorium adenophorum</i> A	<i>Pinus radiata</i> A
<i>riparium</i> A	<i>Plantago hirtella</i> A
<i>Hebe lacera</i>	<i>Pteridium esculentum</i> C
<i>xanthocarpa</i>	<i>Polygonum capitatum</i> A C
<i>Heliconia lucida</i> C	<i>Pyrrosia serpens</i> C
<i>Horragis erecta</i>	<i>Salix caprea</i> A
<i>Hebe bishopiana</i> C	<i>Sophora microphylla</i>
<i>macrocarpa</i>	<i>Trifolium repens</i> A
<i>stricta</i>	<i>Ulex europaeus</i> A
	<i>Vicia tetrasperma</i> A

esses - generally abundant, especially Philonotis tenuis, covering large areas of rock wall.

Procladium cuspidatum
Pyrum laevigatum
Pylopus introflexus
Pratodon purpureus
Psidium asplenioides

Hypnum cupressiforme
Philonotis tenuis
Polytrichadelphus magellanicus
Thuidium furfurosum
Tortella calycina
Weissia controversa

carried down in a slip across the top terrace but not listed elsewhere.

Phyllanthus australis (seedling)
Pteridium vulgare A
Pteris paniculata
Pyroline banksii

Dianella nigra
Geniostoma ligustrifolium
Myrsine australis
Solanum aviculare var *albiflorum*

EDITORIAL POSTSCRIPT

For the first 20 years the Newsletter, edited by Miss M.W. Crookes, was published in volumes, a handy reference device that might have been useful for Botany of Auckland, 1981, and readers may have noticed that with the last edition, volume numbers were reinstated. Mr A.E. Wright has provided me with a list of numbers, correlated to the publication dates, for Newsletters from Vol. 1 No. 1 to the present edition.

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