

CHECKLIST OF VASCULAR PLANTS OF MATIU (NZMS 260 R27663925, Altitude 72m a.s.l.) AND ADJACENT ROCKSTACKS, WELLINGTON HARBOUR

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Based on a seven hour visit by P. DL, (19 September 1991) and a checklist published by Freegard & Weeber (1986). Additions made by members of the Wellington Botanical Society (1 August 1992), (8 additions), by P. de Lange & G. M. Crowcroft (4 September 1992), (29 additions), by P. de Lange, C.J. West and P.N. Johnson (June 1993), (1 addition), and P. de Lange and J.W.D. Sawyer (October 1995 and October 1996), (X additions).

Abbreviations

(Unc)	=	Uncommon
p	=	planted (116 species)
n	=	planted on Maitu and subsequently naturalised but not considered indigenous to the island (33 species)
i	=	species indigenous to Maitu but also naturalised from plantings of unprovenanced material (12 species)
*	=	adventive or exotic species planted and/or naturalised on Maitu (152 species)
+	=	species additions to those recorded by Freegard & Weeber (1986) (219 species) (Freegard & Weeber 1986) = species not seen by P.J. de Lange (9 species)

Doubtful and erroneous records are listed separately.

FERNS

Adiantum cunninghamii+
Asplenium bulbiferum
A. flabellifolium+
A. flaccidum
A. hookerianum+ (Unc)
A. oblongifolium (Unc)
A. obtusatum+ WELT P8727
A. polyodon+
A. terrestre subsp. *maritimum*+
Blechnum blechnoides
B. minus+
B. sp. "black spot" (*B. capense sensu* Allan 1961)
+ (Unc)
Cyathea dealbata
C. medullaris p, i
Dicksonia squarrosa+ - small plant
Hypolepis ambigua+ (Unc)
H. lactea (Unc)
Lastreopsis microsoria subsp. *pentangularis*+ (Unc)
Pellaea rotundifolia+
Phymatosorus pustulatus subsp. *pustulatus*
Polystichum richardii
Pteridium esculentum
Pyrrosia eleagnifolia

FERN ALLIES

**Sellaginella kraussiana*

GYMNOSPERMS (9)

Agathis australis+ p
**Cupressus macrocarpa* p,n
Dacrycarpus dacrydioides p
Dacrydium cupressinum+ p
**Pinus radiata* p,n
Phyllocladus trichomanoides+ p
Podocarpus totara (Unc) - one tree only
CHR
Prumnopitys ferruginea p
P. taxifolia p (Freegard & Weeber 1986)

MONOCOTYLEDONOUS TREES (2)

Cordyline australis p,i
Rhopalostylis sapida+ p

MONOCOTYLEDONOUS LIANES (2)

Freycinetia banksii+ (Unc)
Ripogonum scandens+ (Unc) Seedling

DICOTYLEDONOUS TREES & SHRUBS (105)

**Acacia melanoxylon*+ p,n
Alectryon excelsus var. *excelsus* p
Aristotelia serrata p
**Berberis glaucocarpa*
Brachyglottis repanda p, ?n
B. monroi var. "compacta"+ (Unc) p
B. greyii var. *greyii* + (Unc) p
B. greyii x *B. monroi* var. "compacta"+ p
**Buddleja davidii*
Cassinia leptophylla s.l.
**Chamaecytisus palmensis* + p,n
**Chrysanthemoides monilifera*+ (Unc)

Clianthus puniceus p
Coprosma crassifolia+ (Unc)
C. grandifolia
C. lucida+ (Unc) p,i
C. macrocarpa s.s. + p
C. parviflora s.s p (Freegard & Weeber 1986)
C. propinqua
C. repens
C. rhamnoides
C. robusta p,i
C. propinqua x *C. repens*+ (Unc)
C. propinqua x *C. robusta*
Corokia buddleioides p (Freegard & Weeber 1986)
C. cotoneaster p
C. buddleioides x *C. cotoneaster* (*C. xvirgata*)+
p
Corynocarpus laevigatus p,i
**Cotoneaster lacteus*
Dodonaea viscosa p,n
Dysoxylum spectabile p
Elaeocarpus dentatus+ p
**Entelea arborescens*+ p
**Erica lusitanica*+
**Eucalyptus saligna* sp. + p,n
Geniostoma rupestre var. *ligustrifolium*+
(Unc)
Griselinia littoralis p
G. lucida p,i
Hebe “*arborea*”+, p
H. cupressoides+ (Unc) p
H. elliptica var. *elliptica*+ p,n
CHR
H. odora+ p
H. albicans+ p
H. speciosa s.s. p
H. stricta var. *atkinsonii*+
H. stricta var. *macroura*+
H. stricta var. *stricta*+ (Unc) p
H. stricta var. *atkinsonii* = var. *macroura*+
(Unc)
H. stricta x *H. speciosa*
H. xandersonii ‘*Andersonii*’ (*H. salicifolia* x
H.
speciosa) + p
H. xandersonii ‘*Andersonii* variegata’ (*H.*
salicifolia x *speciosa*) + (Unc) p
H. ‘*Boulder Lake*’ (*H. diosmifolia* x *H.*
parviflora) + p
H. cv. inspiration’ (*H. diosmifolia* x *speciosa*)
+ p
H. xcarnea ‘*Carnea*’ (*H. speciosa* x ‘?’) +
(Unc)
p
H. xfranciscana ‘*Blue Gem*’ (*H. elliptica* var.
elliptica (Falklands provenance) x *H.*
speciosa) +p,n
H. cv. ‘La Seduisante’ (*H. speciosa* x ‘?’) + p,n
H. speciosa cv. ‘*variegata*’ + (Unc) p
Hedycarya arborea p

Hoheria populnea p
Knightia excelsa p
Kunzea ericoides var. *ericoides* p
Leptospermum scoparium (+cultivars) p
Leucopogon fasciculatus+ (Unc)
L. fraserii
**Lupinus arboreus*
**Lycium ferocissimum*
Macropiper excelsum subsp. *excelsum* p, ?I
Malus xdomesticos
Meliccytus crassifolius
M. aff. obovatus (Unc)
CHR
M. ramiflorus subsp. *ramiflorus* p,i
Meryta sinclairii+ (Unc) p
Metrosideros excelsa p,n
M. kermadecensis p
Myoporum insulare+ p
M. laetum var. *laetum* p,i
M. insulare x *M. laetum*
Myrsine australis
**Olea europaea* p (Freegard & Weeber 1986)
Olearia albida+
O. angulata+ p
O. paniculata
O. solandri (Unc)
O. traversii p
O. xhaastii (*O. aviceniifolia* x *moschata*)+ p
Pimelea prostrata (incl. semi-erect forms
possibly planted on island)
P. urvilleana+ (Unc)
Pittosporum crassifolium p,n
P. eugenoides p
P. ralphii p
P. tenuifolium subsp. *tenuifolium* p
**P. undulatum*+ p
Pomaderris apetala p
**P. aspera*+ (Unc) p,n
P. ericifolia+ (Unc) (seedlings only)
P. kumeraho p (Freegard & Weeber 1986)
Pseudopanax x arboreus p
P. crassifolius p
P. ferox+ (Unc) p
P. laetus p
P. lessonii p
P. crassifolius x *P. lessonii*+ p
Sambucus nigra
Schefflera digitata+ p
Solanum aviculare p,i
S. lacinatedum
Sophora chathamica +
S. microphylla p CHR
S. tetraptera+ p
**Ulex europaeus*+
Vitex lucens+ p

DICOTYLEDONOUS LIANES AND RELATED SCRAMBLING PLANTS (12)

Calystegia sepium agg.+ (Unc)

C. soldanella
C. turguriorum+
Clematis forsterii+
C. paniculata (Freegard & Weeber 1986)
Fuchsia procumbens+ p,?n
Metrosideros perforata+
Muehlenbeckia australis
M. complexa+
M. australis x *M. complexa*+
**Rubus fruticosus* agg.+
Tetragonia trigyna

GRASSES (38)

**Agrostis capillaris*
**A. stolonifera*+
**Aira caryophylla* subsp. *caryophylla*+
**Ammophila arenaria*+ (Unc)
**Arrhenatherum elatius* subsp. *elatius*
**Anthoxanthum odoratum*
**Bromus diandrus*
**B. hordeaceus*+
**B. willdenowii*
**Catapodium rigidum*+
Cortaderia fulvida
**C. jubata*+ p,n
**Cortaderia selloana*
C. toetoe+
**Dactylis glomerata*+
Deyeuxia avenoides +
**Ehrharta erecta*+
**Elymus rectisetus* (Unc)+
E. 'Glaucous'
**Festuca arundinaceae*+
F. multinodis+
**F. rubra*+
**Holcus lanatus*
**Hordeum murinum*
Lachnagrostis billardieri +
L. filiformis s.s +
L. pilosa subsp. *pilosa*
**Lolium perenne*
Oplismenus imbecillus+ (Unc)
Poa anceps var. *anceps*
WELT 61219
**P. annua*+
P. cita+
**P. pratensis*+
**Pseudosasa japonica*+ (Unc) p,n
Puccinella stricta+
**Rytidosperma racemosum*+
**R. unarede* +
**Sporobolus africanus*+
Trisetum antarcticum s.s.+

ORCHIDS (3)

Bulbophyllum pygmaeum+ (Unc)
Microtis unifolia p,i
Thelymitra longifolia +

RUSHES (4)

Juncus distegis
J. gregiflorus+ (Unc)
J. krausii var. *australiensis*+ (Unc)
Luzula banksiana var. *banksiana*

SEDGES (12)

**Carex divulsa*+
Carex flagellifera+
C. lessoniana+ (Unc) -
C. trifida p (Freegard & Weeber 1986)
C. virgata+
**Cyperus tenellus*+
C. ustulatus
Isolepis cernua+
I. habrus+ (Unc) - WELT 20142
**I. marginata*+
I. nodosa
**I. sepulcralis*+

MONOCOTYLEDONOUS HERBS (Other than Grasses, Orchids, Rushes and Sedges) (16)

**Aloe arborescens*+ p
**Allium triquetrum*+
Arthropodium candidum+
A. cirrhatum p
Astelia solandri+ (Unc)
**Knipholia uvaria*+ p
Lemna minor (Unc)
Leucojum aestium+ (Unc) p
Libertia ixioides p,i
**Lilium formosanum*
**Narcissus x incomparabilis*+ (Unc) p,n
**N. pseudonarcissus*+ p,n
**N. tarzetta* var. *?italica*+ p,n
Phormium cookianum
P. tenax p,n
**Sisyrinchium iridifolium*+
**Tradescantia fluminensis*
**Tradescantia zebrina*
Triglochin striata
**Zantedeschia aethiopica*

DICOTYLEDONOUS COMPOSITE HERBS (36)

**Achillea millefolium*
**Arctotheca calendula*
**Bellis perennis*+
**Carduus nutans*+ (Unc)
**C. tenuiflorus*+
**Cirsium arvense*+
**C. vulgare*
Cotula australis+
C. coronopifolia+

Craspedia uniflora var. *maritima*+ (Unc)
 **Crepis capillaris*+
 **Conyza albida*+
Gnaphalium audax
 **Helminotheca echioides*+
 **Hypochaeris radicata*
Lagenifera petiolata+
 **Lapsana communis*+
 **Leontodon taraxacoides*+
Leptinella dioica subsp. *dioica*+ (Unc)
 **Mycelis muralis*+
 **Osteospermum fruticosum*+ p,n
Pseudognaphalium sp. *luteo-album* agg.+
 **Senecio angulatus*+ (Unc) - eradicated
 **S. elegans*+ (Unc)
 **S. glastifolius*+ (Unc) - one plant (eradicated)
S. glomeratus+
S. lautus var. *lautus*
 CHR
S. serpens + p,n
S. sterquilinus+
 CHR
S. lautus var. *lautus* x *S. sterquilinus* CHR
 **Silybum marginatum*+
 **Solvia sessilis*+
 **Sonchus asper*+
S. kirkii+ (Unc)
 **S. oleraceus*
 **Taraxacum officinale*

DICOTYLEDONOUS HERBS (Other than composites) (110)

**Acaena novae-zelandiae*
Aciphylla squarrosa s.s.
 **Aeonium arboreum* + p
 **A. harworthii*+ p,n
 **Anagallis arvensis* subsp. *arvensis* var. *arvensis*+
Apium prostratum
 **Atriplex prostrata*
 **Brassica oleraceus*+
 **Callitriche stagnalis*+
 **Capsella bursa-pastoris*+ (Unc)
 **Cardamine hirsuta*+
Centella uniflora+
 **Cerastium glomeratum*+
Colobanthis muelleri
 **Coronopus didymus*+
 **C. squamatus*+ (Unc)
 **Cotyledon orbiculatus* var. *orbiculatus*+(Unc)
 p,n
 **Crassula coccinea*+ p
 **C. decumbens*
C. moschata
 **C. multicava*
C. peduncularis+ (Unc) - one patch on eastern side by jetty
C. ruamahanga+ (Unc) - one patch near lighthouse in shaded pool

C. sieberiana
 **C. spathulata*+ (Unc) p,n
 **C. tetragona*+ (Unc) p,n
Dichondria repens+
Disphyma australe subsp. *australe*
 **Drosanthemum floribundum*+ p,n
 **Echeveria secunda*
 **Echium candicans*+ (Unc) p,n
Einadia triandra
Epilobium nummularifolium+
 **Erodium circutarium*+
 **Euphorbia peplus*+
 **Foeniculum vulgare*+
 **Fumaria muralis*
 **Galium aparine*
G. propinquum+ (Unc)
 **Geranium dissectum*+
 **G. molle*
 **Glaucum flavum*
Haloragis erecta subsp. *erecta*
 **Hibiscus trionum* (form lacking blotched centre)+ (Unc) p
Hydrocotyle heteromeria+ (Unc) - naturalised? only in lawns
H. "laciniata"+ (Unc) - naturalised? only in lawns
H. microphylla+ (Unc) - naturalised? only in lawns
H. moschata s.s.
 **Lavatera arborea*
Lilaeopsis novae-zelandiae
Limosella lineata+ (Unc) - one patch on eastern side by jetty
Linum monogynum
 WELT 51076
Lobelia anceps
 **Marrubium vulgare*
 **Medicago arabica*
Myosotis petiolata var. *pottsiana* +p
 **Orobanche minor*
Oxalis exilis+
 **O. incarnata*+
 **O. latifolia*
O. rubens+ (Unc)
Parietaria debilis+ (Unc)
P. judacia+
 **Pelargonium xasperum*+ (Unc) p
 **P. xdomesticum*+ (Unc) p
Peperomia urvilleana+
 **Phytolacca octandra*+
 **Plantago australe*
 **P. coronopus*
 **P. lanceolata*
 **Polycarpon tetraphylla*
 **Portulacca oleracea*+
 **Raphanus raphanistrum* subsp. *maritimum*
 **Rapistrum rugosum*+
Ranunculus acaulis
 **R. parviflorus*+
 **R. repens*+

**Rorippa nasturtium-officinale*+
**Rumex acetosella*
**R. aviculare*+
**R. conglomeratus*+
**R. crispus*
**R. obtusifolius*+
**R. pulcher*+ (Unc)
**Sagina procumbens*
Samolus repens
Sarcocornia quinquefolia var. *quinquefolia*
**Saxifraga stolonifera*+ (Unc) p,n
**Sedum acre*+ (Unc) p,n
**S. praealtum*+ (Unc) p,n
Selleria radicans
**Silene gallica*
Solanum americanum+ (Unc)
**S. nigrum*
**S. tuberosum*+ (Unc) p,n
Spergularia marginatum (Unc)
**S. rubra*+
**Stellaria media*+
**Sisymbrium orientale*
**Trifolium pratense*
**T. repens*
**Urtica dioica* subsp. *dioica*+
**U. urens*
**Veronica persica*+
**V. serpyllifolia*+
**Verbascum thapsus*+
**Vicia hirsuta* (Freegard & Weeber 1986)
**V. sativa* var. *sativa*
**Vinca major*
Wahlenbergia ramosa+ WELT
44794
W. violacea

TOTAL: 370 species and hybrids (145 of these are considered indigenous to Matiu)

DOUBTFUL AND ERRONEOUS RECORDS (3 species)

Record	Probable identity
<i>Elymus rectisetus</i> ¹ (Freegard & Weeber 1986)	<i>E</i> 'glaucous' (In part)
<i>Myrsine divaricata</i> (Freegard & Weeber 1986)	?
<i>Urtica ferox</i> (Freegard & Weeber 1986)	<i>U dioica</i> subsp. <i>dioica</i>

¹ True *E. rectisetus* is an uncommon plant on Matiu, confined to a small area of rough pasture of the northern end of the island. It is quite probable then that Freegard & Weeber (1986) confused *E. rectisetus* for *E. 'glaucous'* as this is the more common species on the island. For this reason *E. rectisetus* s.s is treated as a new record for Matiu and *E. 'glaucous'* is not.

REFERENCES

Freegard, J, Weeber, Y.B. 1986: Vegetation of coast and islands, Wellington Harbour planning area. Wellington Harbour Maritime Planning Authority, Centre for Resource Management, Wellington. 86 pp.