

INDIGENOUS VASCULAR PLANTS OF BALLS CLEARING SCENIC RESERVE¹, AND HUTCHINSON SC. RES.², PUKETITIRI, HAWKE'S BAY

Bioscience C.A. ¹¹²⁴ 960 660

¹Grnd ref. N124 94-66- ; alt. 610 m (2000 ft)

²Grnd ref. N124 98-66- ; alt. 565 m (1850 ft)

A.P. Druce, Botany Division, D.S.I.R., June 1972

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May 1980, Dec 1981, July 1984, July 1985, May 1988, June 1990, Aug. 1990, June 1991,

(Based on observations 1960, 1966, 1967, 1972, 1973, 1980, 1988, 1989)

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(additions by P. Wardle 1988, S. Beadel 1989)

(F) - forest

(C) - clearing

(M) - margin between forest and clearing

(Elder 1950) - recorded in Bull. Wellington Bot. Soc. 23

(Allan 1961) - recorded in "Flora of New Zealand"

(Oliver 1935) - recorded in Bishop Museum Bull. 132

(Hodgson) - collected by E.A. Hodgson, but not seen in field by A.P.D.

July 1992

GYMNOSPERM TREES

Dactycarpus dactydioides (F)

Dacrydium cupressinum (F)

Phyllocladus alpinus (F)

Podocarpus hallii (F)

P. totara s.s. (F)

Prumnopitys ferruginea (F)

P. taxifolia (F, M)

MONOCOT TREES

Cordyline australis (M, C)

DICOT TREES

Alectryon excelsus var. *excelsus* (F)

Aristolelia serrata (F)

Carpodetus serratus (F)

Eleocarpus hookerianus (F, M)

- Fuchsia excorticata* (F)
Griselinia littoralis (M)
Hoheria populnea var. *lanceolata*
 (incl. *H. sexstylosa*) (F, M)
Meliccytus lanceolatus (incl. *M. l.* var. *Alseuosmia pusilla* (F)
latior) (F, M)
M. ramiflorus ssp. *ramiflorus* (F)
Myrsine australis (F)
M. salicina (F)
Nestegis cunninghamii (F)
N. lanceolata (F, M)
Nothofagus fusca (F, M)
N. solandri (M)
N. fusca x *N. solandri* (M)
- Pennantia corymbosa* (F, M)
Pittosporum eugenoides (F)
P. ralphii (M)
P. tenuifolium ssp. *tenuifolium* (F, M)
P. t. ssp. *colensoi* \rightleftharpoons ssp. *tenuifolium* (F, M)
P. ralphii x *P. tenuifolium* (M)
Plagianthus regius var. *regius* (F)
Pseudopanax arboreus var. *arboreus* (F)
P. colensoi s.s. (F)
P. crassifolius (F, M)
P. edgerleyi (F)
P. simplex (incl. *P. s.* var. *sinclairii*)
 (F)
Schefflera digitata (F)
Sophora microphylla (M)
- S. tetraptera* (M)
S. microphylla x *S. tetraptera* (M)
Streblus heterophyllus (F)
- DICOT SHRUBS
- Aristotelia fruticosa* var. *microphylla*
 (M)
A. f. x *A. serrata* (F)
Brachyglottis repanda s.s. (F)
Carmichaelia sp. (subgenus
Carmichaelia) (M, C)
Cassinia vauvilliersii (C)
Coprosma acerosa ssp. (C)
C. cheesemanii s.s. (C)
C. crassifolia (M)
C. grandifolia (F)
C. linariifolia (Elder 1950; Oliver 1935) (M)
C. lucida s.s. (F)
C. propinqua ssp. *propinqua*
 (M, C)
C. thamnoides (incl. *C. poly-*
morpha) (F, M)
C. rigida (F, M, C)
C. robusta (F)
C. rotundifolia (F)
C. rubra (F)
C. rugosa ssp. *rugosa* (C) (Hodgson)
C. tenuifolia (M)

- C.sp.(i) (unnamed; aff. *C. cheesemani*) *Myrsine divaricata* s.s. (M)
- (lvs broader than in *C. cheesemani*) *Neomyrtus pedunculata* (F, M)
- (C) *Olearia furfuracea* var. (F)
- C.sp.(ii) (unnamed; included in *C. parviflora* by Oliver, 1935, and others) (If lower surface not minutely hairy as in usual in *C. parviflora*; drupes vs. unpigmented, occ. purplish red) (M, C)
- O. hectorii* var. (lvs oval, smaller in var. *hectorii*) (M)
- O. nummularifolia* var. *nummularifolia* (Elder 1950) (C)
- C. propinqua* x *C. robusta* (M)
- O. virgata* var. (lvs smaller than var. *virgata*) (M, C)
- Coriaria kingiana*
- Corokia cotoneaster* var. *coton.* (M, C)
- Cyathodes empetrifolia* (C)
- Dracophyllum subulatum* (M, C)
- Epactis alpina* (C)
- Fuchsia excorticata* x *F. perscandens* (F)
- Gaultheria antipoda* (M)
- G. macrostigma* (C)
- G. antipoda* x *G. macrostigma* (C)
- Hebe stricta* var. *stricta* (M, C)
- Helichrysum aggregatum* var. *aggregatum* (F)
- Pimelea prostrata* (C)
- Pittosporum divaricatum* (M)
- Pseudopanax anomalus* (F, M)
- Pseudowintera axillaris* (F)
- P. odorata* (F)
- Tupeia antarctica* (M)

DICOT LIANES AND RELATED

TRAILING PLANTS

- Ileostylus micranthus* (M)
- Korthalsella lindsayi* s.s. (M)
- Kunzea ericoides* agg. (M)
- Leptospermum scoparium* (M, C)
- Leucopogon fasciculatus* var. (M)
- L. fraseri* s.s.
- Melicope simplex* (F, M)
- Melicytus alpinus* s.s. (C)
- M. micranthus* (incl. *M. m.* var. *microphyllus*) (F)
- Clematis foetida* (F)
- C. forsteri* (M)
- C. paniculata* (F)
- C. quadribacteolata* (M, C)
- Metrosideros diffusa* (F)
- Muehlenbeckia australis* (F)
- M. axillaris* (C)
- Parsonsia capsularis* var. (M)
- P. heterophylla* (F)
- P. capsularis* x *P. heterophylla* (F)

Rubus australis (F)
R. cissoides var. (leaflets narrower than in var. *cissoides*) (F)
R. schmidelioides var. *schmidelioides* (M)

LYCOPODS

Lycopodium fastigiatum (M, C)
L. volubile (M)

FERNS

Asplenium bulbiferum (F)
A. flabellifolium agg. (M)
A. flaccidum (F)
A. gracillimum (F)
A. hookerianum (F)
A. polyodon (F)
A. bulbiferum x *A. flaccidum* (F)
A. b. x *A. hookerianum* (F)
A. flaccidum x *A. hookerianum* (F)
Azolla filiculoides (C)
Blechnum chambersii (F)
B. colensoi (F)
B. fluviatile agg. (F)
B. membranaceum (M)
B. minus (C)
B. penna-marina (M, C)
B. procerum (F)
B. vulcanicum (F)
B. sp. (unnamed) (common lowland sp.; lower pinnae reduced in length) (F, M)

Botrychium australe (F, M)

B. biforme (F, M)

Cyathia dealbata (F)

C. smithii (F)

Dicksonia fibrosa (F)

D. lanata s.s. (F)

D. squarrosa (F)

Gleichenia dicarpa (M, C)

Grammitis billardierei

Histiopteris incisa (F)

Hymenophyllum bivalve (F)

H. demissum (F)

H. dilatatum (F)

H. flabellatum (F)

H. multifidum (F)

H. pulcherrimum (F)

H. ratum (F)

H. sanguinolentum agg. (F)

H. scabrum (F)

Hypolepis ambigua (M)

H. millefolium (M)

H. rufobarbata (F)

Leptolepia novae-zelandiae (F)

Leptopteris hymenophylloides (F)

L. superba (F)

L. hymenophylloides x *L. superba* (F)

Paesia scaberula (M)

Pallaea rotundifolia (F)

Gahnia pauciflora (F)
Isolepis distigmata (Hodgson) (C)
I. habra (M)
I. pottsii (C)
I. subtilissima (C)
Lepidosperma australe (C)
Oreobolus pectinatus (C)
Schoenus maschalinus (C)
Uncinia banksii (F)
U. distans (F, M)
U. gracilentata (F)
U. laxiflora (M)
U. tubra (C)
U. rupestris (incl. *U. angustifolia*) (F, M)
U. scabra (F)
U. uncinata (F)
U. zotovic (F)
U. sp. (unnamed) (*U. affinis* Hamlin
 1959; non *U. hiparica* var. *affinis* Col.
 ex Clarke) (M)

RUSHES

Juncus gragiflorus (C)
J. planifolius (C)
Luzula picta s.s. (M, C)
L. subclavata (M)

MONOCOT HERBS (OTHER THAN ORCHIDS)

GRASSES, SEDGES, RUSHES

Anthropodium candidum (M)

Astelia fragrans (M)
Colospermum microspermum (F)
Herpolimon novae-zelandiae (C)
Lemna sp. (*L. minor* auct. N.Z.) (C)
Libertia grandiflora (F)
Phormium cookianum (M)
Potamogeton cheesemani (C)
P. suboblongus (C)
Typha orientalis (C)

COMPOSITE HERBS

Celmisia gracilentata (C)
C. sp. (unnamed; aff. *C. gracilentata*)
 (plants strongly rhizomatous)
Craspedia viscosa (M)
Gnaphalium audax (C)
G. delicatum (C)
G. gymnocephalum (F)
G. limosum s.s. (C)

Helichrysum filicaule (C)
Lagenifera montana (C)
L. pinnatifida (M)
L. pumila (C)
L. strangulata (Hodgson) (F)
Microseris scapigera var. (C)
Pseudognaphalium sp. (unnamed;
 aff. *P. luteoalbum*)
 (lvs mostly linear-
 spatulate to linear, acute) (M)

Senecio minimus (M)
S. waitavensis (M)

- Phymatosorus pustulatus (F)
- Pneumatopteris pennigera (F)
- Polystichum richardii (F)
- P. vestitum (F)
- Pteridium esculentum (M)
- Pteris tremula (F)
- Pyrosia cleagniifolia (F)
- Rumohra adiantiformis (F)
- Sticherus cunninghamii (M)
- Trichomanes vaucosum (F)

- Microchloa redolens (M, C)
- Lachnagrostis sp. (unnamed) (tall, slender; lvs narrow) (C)
- Microlaena avenacea (F)
- M. stipoides (M)
- Poa anceps ssp. anceps (M)
- P. cita (both narrow and broad-leaved forms present) (C)
- P. pusilla (C)

ORCHIDS

- Aporostylis bifolia (Elder 1950) (C)
- Caladenia carnea agg. (M)
- Corybas macranthus (M)
- C. rivularis s.s. (C)
- Eatinia mucronata s.s. (F)
- Gastrodia sesamoides (F)
- Microtis unifolia (C)
- Prasophyllum colensoi (C)
- Pterostylis patens (M)
- P. sp. (P. montana?) (M)
- Spiranthes novae-zealandiae (C)
- Thelymitra decora (Elder 1950) (C)

- Rytidosperma clavatum (C)
- R. gracile (C)
- Trisetum sp. (unnamed) (plants slender; lf sheath vs. glabrous; lf blade flat, margins smooth, vs. with a few hairs near ligule)

BEDGES

- Baumea tubiginosa (C)
- Carex breviculmis (C)
- C. dipsacea var. (C. falcoata) (C)
- C. dissita s.s. (F)
- C. echinata var. (C. stellulata var. australis) (C)
- C. flagellifera (M)
- C. forsteri (F)
- C. maorica (C)
- C. secta s.s. (C)
- C. solandri (F)

GRASSES

- Chionochloa tubra ssp. tubra (C)
- Cortaderia fulvida (C)
- Deyeuxia avenoides (incl. D.a. var. brachyantha) (C)
- Elymus nardusoides (M)
- E. sp. (aff. E. tectisetus) (C) (plants glaucous)

- C. virgata (C)
- C. sp. (Sect. Acutae) (C)
- Carpha alpina s.s. (C)
- Eleocharis acuta (C)
- E. gracilis (C)

DICOT HERBS (OTHER THAN COMPOSITES)

- Acaena auserinifolia* (M)
A. inermis (C)
A. microphylla (C)
- Cardamine* sp. (*C. debilis* agg.) ("Narrow Petal" of Pritchard 1957) (F)
- Centella uniflora* (C)
- Dactyloctenium aegyptium* (Elder 1950) (F)
- Dichondra* sp. (aff. *D. brevifolia*) (C)
- Drosera binata* (C)
- Epilobium alsinoides* s.s. (C)
- E. billardiereanum* s.s. (Hodgson) (C)
- E. chionanthum* (C)
- E. cinereum* (C)
- E. insulare* (C)
- E. heteroides* (M)
- E. nummularifolium* (M)
- E. pallidiflorum* (C)
- E. pedunculare* s.s. (C)
- E. pubens* (M)
- E. rotundifolium* (C)
- E. tenuipes* (Elder 1950; Hodgson) (C)
- E.* sp. (unnamed; included in *E. brunescens*, as ssp. *minutiflorum*, by Raven and Engelman, 1971) (M)
- Galium perpusillum* s.s. (C)
- G. trilobum* (C)
- Geranium microphyllum* (C)
- G. potentilloides* var. *potentilloides* (C)
- G. sessiliflorum* var. *novae-zeelandicum* (C)
- Gonocarpus aggregatus* (M, C)
- G. micranthus* ssp. *micranthus* (C)
- Gratida sexdentata* (C)
- Hydrocotyle elongata* (F)
- H. microphylla* (M)
- H. moschata* (C)
- H. novae-zeelandica* s.s. (C)
- H. sulcata* (Elder 1950, as *H. tripartita*) (C)
- H.* sp. (unnamed; included in *H. novae-zeelandica*, as var. *montana* by Kirk 1899) var.
- Hypericum japonicum* agg. (C)
- Jovellana repens* (M)
- Mazus radicans* (M, C)
- Mentha cunninghamii* (M, C)
- Montia fontana* s.s. (C)
- Nasturtium ciliatum* (C)
- N. setulosum* (C)
- N.* sp. (unnamed; aff. *N. dichondrifolia*) (hairs present on both surface of lf, straight, not hooked as in *N. dichondrifolia*) (F)
- Orzomyrrhis* sp. (unnamed; aff. *O. ramosa*) (C)
- Oxycaria macrophylla* ssp. *robusta* (C)
- Oxalis exilis* (C)
- O. magellanica* (M)

- Potentilla ansetinoides (C)
- Plantago raoulii (M)
- Pratia angulata agg. (C)
- Ranunculus amphitrichus (C)
- R. glabrifolius (C)
- R. reflexus (M, C)
- R. sp. (unnamed; included in R. lappaceus, as var. macrophyllus, by Kirk 1899)
- Stackhousia minima (C)
- Stellaria decipiens (incl. S. parviflora) (F)
- Urtica incisa (M)
- Viola cunninghamii (C)
- V. filicaulis (M)
- Wahlenbergia albomarginata var. (W. pygmaea) (Elder 1950, Hodgson) (C)

- Etroneous records:
- Astelia nervosa (Elder 1950) [= A. flagrans]
 - Coprosma parviflora (Oliver 1935, Elder 1950) [= C. sp. b]
 - Lagenophora cuneata (Elder 1950) [= L. montana]
 - Ptilosporum anomalum (Allan 1961)

No. of species: 305.

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