

HIGHER PLANTS (LYCOPODS, FERNS, GYMNOSPERMS, FLOWERING PLANTS) OF
NGAMATEA E. SWAMP¹, TIKITIKI BUSH², L. HOROTEA³, AND UPPER
TARUARAU V.⁴, SOUTHERN KAIMANAWA MTS.

2700-3800 FT / 825-1150 M

- 'Gnd ref. N 123 59-53-
- N 123 50-49-
- N 123 60-63-
- N 123 61-67-

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

(revised Apr. 1974, Oct. 1974, July 1975, Dec. 1975, Jan. 1976, July 1976,

May 1977, June 1979, June 1980, Aug. 1981, Nov. 1982, Apr. 1983,

Nov. 1983, June 1984, May 1985, July 1985, May 1986, Nov. 1986,

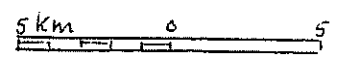
June 1987, Aug. 1988, June 1990, June 1991, July 1992)

(Based on visits 1949, 1950, 1975, 1976, 1981, 1983, 1985, 1991)

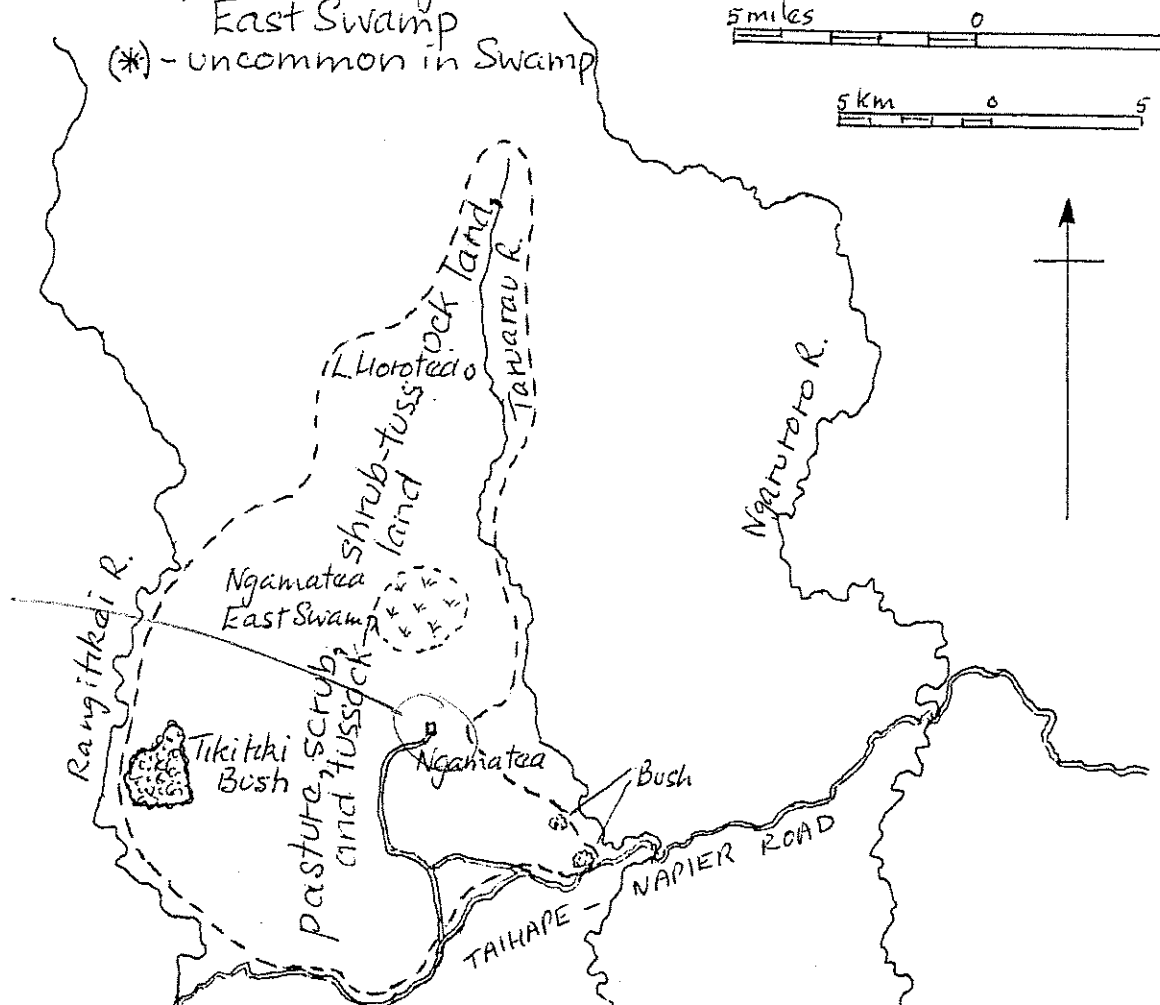
(unc) - uncommon

* - present in Ngamatea East Swamp

(*) - uncommon in Swamp



N 123 600 580



INDIGENOUS PLANTS

GYMNOSPERM TREES AND SHRUBS

- Halocarpus bidwillii (unc)
- Lagarostrobos colensoi (unc)
- (*Kepidothamnus laxifolius (unc)
- Libocedrus bidwillii (unc)
- Phyllocladus alpinus s.s. (unc)

- Podocarpus hallii (unc)
- P. hallii x P. nivalis (unc)
- Prumnopitys ferruginea (unc)

MONOCOT TREES

- Cordyline australis (unc)

DICOT TREES

- Aristolelia serrata (unc)
- Carpodetus serratus (unc)
- Elaeocarpus hookerianus (unc)
- Fuchsia excorticata (unc)
- Griselinia littoralis (unc)
- Nothofagus fusca
- N. solandri var. cliffortioides
- Pittosporum tenuifolium ssp. tenuifolium (unc)
- Pseudopanax colensoi s.s. (unc)
- P. crassifolius (unc)
- P. simplex (incl. P.s. var. sinclairii)
- Sophora tetraptera (unc)

DICOT SHRUBS

- Aristolelia fruticosa var. microphylla
- Brachyglottis repanda s.s. (unc)
- Carmichaelia arborea var. (C. odorata) (unc)
- C. enysii var. orbiculata (unc)
- (*C. sp. (subgenus Carmichaelia)
- *Cassinia vauvilliersii

- Coprosma acerosa ssp.
- *C. cheesemanii s.s.
- C. colensoi s.s.
- C. foetidissima (unc)
- C. grandifolia (unc)
- C. linariaefolia
- C. lucida s.s. (unc)
- C. microcarpa
- *C. petriei
- C. propinqua ssp. propinqua

- C. pseudocuneata ssp. pseudoe. (unc)
- C. thamnoides (incl. C. polymorpha)

- C. robusta (unc)
- C. rugosa ssp. rugosa
- C. tenuifolia
- C. sp. (unnamed; included in C. parviflora by Oliver, 1935, and others) (If undersurface not minutely hairy as is us. in C. parviflorae; drupes us. unpigmented, occ. purplish red)
- C. propinqua x C. robusta)

- Coriaria kingiana
- C. pteridoides
- C. arborea x C. pteridoides
- C. kingiana x C. pteridoides
- Corokia cotoneaster var. cotoneaster
- * Cyathodes empetrifolia
- C. sp. (C. juniperina agg.) (lvs small, vs. <math>L < 1\text{cm}</math> x <math>L < 1\text{mm}</math>)
- Dracophyllum recurvum (unc)
- * D. subulatum
- Epacris alpina
- Gaultheria antipoda
- * G. macrostigma
- G. sp. (unnamed; included in G. depressa, as var. novae-zelandiae, by Franklin 1962)
- (*) G. macrostigma x G. sp. (unnamed)
- Hebe colensoi (incl. H. c. var. hillii) (unc)
- (*) H. stricta var. stricta
- H. tetragona var. tetragona (unc)
- H. venustula (incl. H. brachysiphon)
- H. sp. (i) (Veronica arborea) (unc)
- H. sp. (ii) (Veronica squalida)

- Korthalsella clavata (unc)
- Kunzea ericoides agg.
- * Leptospermum scoparium
- Leucopogon fasciculatus var.
- * L. fraseri s.s.
- * L. suaveolens (incl. Cyathodes colensoi)
- Meliccytus alpinus s.s.
- Myrsine divaricata s.s.

- Neomyrtus pedunculata (unc)
- Olearia arborescens (unc)
- O. furfuracea var.
- O. nummularifolia var. nummularifolia
- * O. virgata var. (lvs smaller than in var. virgata)
- * Pentachondra pumila
- * Pimelea prostrata
- Pittosporum divaricatum (incl. P. lineare) (unc)
- Pseudopanax anomalous
- Pseudowintera colorata

DICOTYLANES AND RELATED

TRAILING PLANTS

- Clematis foisteri
- C. paniculata (unc)
- (*) C. quadribracteolata (unc)
- Muehlenbeckia axillaris
- Parsonsia capsularis var.
- Rubus cissoides var. (leaflets narrower than in var. cissoides)
- R. schmidlioides var. schmidlioides (unc)

LYCOPODS

- Lycopodium australianum (unc)
 * L. fastigiatum
 L. scariosum (unc)
 L. volubile (unc)

FERNS

- Adiantum cunninghamii (unc)
 Asplenium flabellifolium agg.
 A. flaccidum
 A. gracillimum
 A. hookerianum
 A. polyodon (unc)
 A. richardii
 A. terrestre ssp. terrestre
 Blechnum chambersii (unc)
 B. colensoi (unc)
 * B. fluviatile agg.
 * B. minus
 * B. penna-marina
 B. procerum
 B. vulcanicum (unc)
 B. sp. (i) (unnamed) (common sp.; lower pinnae reduced in length) (unc)
 B. sp. (ii) (unnamed) (mountain sp.; lower pinnae not reduced) (unc)
 B. sp. (iii) (unnamed) (cliff sp.; lower pinnae not reduced) (unc)
 (*) Botrychium australe (unc)
 Cheilanthes humilis
 Ctenopteris heterophylla
 * Gleichenia dicarpa

- Grammitis billardierei (unc)
 G. patagonica (unc)
 Hysteropteris incisa (unc)
 Hymenophyllum multifidum
 H. sanguinolentum agg. (unc)
 Hypolepis rufo barbata (unc)
 Leptopteris hymenophylloides (unc)
 L. superba (unc)
 * Ophioglossum coriaceum agg.
 Paesia scaberula (unc)
 Phymatosorus postulatus (unc)
 Pneumatopteris pennigeta (unc)
 Polystichum richardii (unc)
 P. vestitum
 Pteridium esculentum

ORCHIDS

- (*) Aporostylis bifolia
 Caladenia carnea agg. (unc)
 Chiloglossis cornuta
 * Corybas macranthus
 (*) C. oblongus
 C. trilobus ss.
 Gastrodia cunninghamii (unc)
 (*) Microtis oligantha (unc)
 * M. unifolia
 Orthoceras novae-zeelandiae (unc)
 * Prasophyllum colensoi
 (*) P. sp. (aff. P. patens) (unc)
 Pterostylis patens
 P. sp. (unnamed; aff. P. graminea and P. montana) (unc)

- * *Thelymitra cyanea*
- T. decora* (unc)
- T. formosa* (unc)
- * *T. hatchii*
- * *T. longifolia*

GRASSES

- Agrostis muscosa* (unc)
- * *Chionochloa rubra* ssp. *rubra*
- C. r. x C. pallens* (unc)
- * *Cortaderia fulvida*
- * *Deschampsia caespitosa* var. *macrantha*
- D. tenella*
- * *Deyeuxia arenoides* (incl. *D. a.* var. *brachyantha*)
- * *D. sp.* (*D. quadrisetata* agg.) (lvs narrow)
- (*) *Dichelachne cincta* (unc)

- Elymus nardusoides* (unc)
- E. tenuis*
- * *E. sp.* (aff. *E. rectisetus*) (Series II, Group Waiouru, of Love & Connor, 1982)

- * *Festuca novae-zelandiae* var.
- * *Hierochloa redolens*
- Koeleria cheesemanii* (unc)
- Lachnagrostis filiformis* s.s.
- * *L. striata*

- * *L. sp. (i)* (unnamed) (tall, slender; lvs narrow; awns short)
- * *L. sp. (ii)* (unnamed; included in *L. filiformis*, as var. *semiglabra*, by Zotov 1965)
- Microlaena avenacea*
- * *M. stipoides*
- * *Poa anceps* ssp. *anceps*
- P. breviglumis*
- * *P. cita* ssp.
- * *P. colensoi*

P. imbecilla

Rytidosperma australe (unc)

R. buchananii (unc)

* *R. clavatum*

* *R. gracile*

(*) *R. metum* (unc)

(*) *R. pumilum* (unc)

R. setifolium

(*) *Trisetum sp. (i)* (unnamed; aff. *T. antarcticum*) (lf sheath densely hairy; lf blade margins with hairs)

T. sp. (ii) (unnamed; aff. *T. antarcticum*) (lf sheath glabrous at least in upper part; lf blade margins scabrid)

* *Loysia minima*

SEDGES

* *Baumea tubiginosa*

Carex astonii (unc)

* *C. breviculmis*

C. buchananii (unc)

C. colensoi (unc)

C. comans

* *C. coriacea*

* *C. diandra*

* *C. dipsacea* var. (*C. tahcata*)

C. dissita s.s.

* *C. echinata* var. (*C. stellulata* var. *australis*)

C. flagellifera (unc)

- * *C. gaudichaudiana*
- (**C. inversa* (unc)
- C. maorica*
- C. petrici* (unc)
- C. rubicunda* (unc)
- * *C. secta* s.s.
- C. sinclairii*

- C. testacea* s.s. (unc)
- C. virgata*

- * *Carpha alpina* s.s.
- * *Eleocharis acuta*
- * *E. gracilis*

- * *E. sphacelata*
- * *Isolepis crassiuscula*

- * *I. fluitans*
- I. habra*
- I. pottsii*

- (**I. subfilissima*

- * *Lepidosperma australe*
- * *Oreobolus pectinatus*
- * *Schoenus concinnus*

- * *S. fluitans*

- * *S. pauciflorus* s.s. (= "slender form" of Edgar 1970, p. 194)

- Uncinia clavata*
- U. fattuginæa*
- * *U. rubra*
- U. rupestris* (incl. *U. angustifolia*)
- U. scabra*

- (**U. strictissima* (unc)
- U. uncinata*

RUSHES

- * *Centrolepis ciliata*
- * *Empodisma minus*
- * *Juncus gragiflorus*
- (**J. holoschoenus* (unc)
- J. novae-zelandiae*
- * *J. pusillus*
- * *Luzula decipiens*
- L. migrata*
- L. subclavata*
- L. sp.* (unnamed; included in *L. picta*, as var. *limosa*, by Edgar 1966)

MONOCOT HERBS (OTHER THAN ORCHIDS)

GRASSES, SEDGES, RUSHES

- Astelia fragrans* (unc)
- Bolbinella hookeri* (unc)
- * *Herpolimon novae-zelandiae*
- * *Lemna sp.* (*L. minor* auct. N.Z.)
- (**Phormium cookianum*
- Potamogeton cheesemaiii*
- * *P. suboblongus*
- * *Triglochin striata*
- Typha orientalis* (unc)

COMPOSITE HERBS *Anaphalis* (see p. 7)

- Brachyglottis lagopus* var. *lagopus*
- * *Celmisia glandulosa* ssp. *glandulosa* (incl. *C.g.* var. *latifolia*)
- * *C. gracilentata* ssp.
- (**C. spectabilis* ssp. *spectabilis*
- * *C. sp.* (unnamed; aff. *C. gracilentata*) (plants strongly rhizomatous)

- (top. 6) *Anaphalis* sp.(i) (*Helichrysum bellidioides* s.s.)
- A.* sp.(ii) ("*Helichrysum alpinum*" of Cockayne 1928)
- A.* sp.(iii) (unnamed; aff. *A. keriensis*) (lvs shorter, capitula smaller than in *A. keriensis*)

- R. glabra* (unc)
- R. tenuicaulis* (incl. *R.t.* var. *dimorpha* and *R.t.* var. *pusilla*)
- * *R. sp.*(i) (unnamed; aff. *R. australis*)

- * *Craspedia minor* var. *minor* (incl. *C. major*)
- C. viscosa* (unc)

- * *R. sp.*(ii) (unnamed) (lvs small, grey; inner phyllaries black-tipped) (unc)

- * *C. sp.* (unnamed) (plants summer-green; lvs small, green, both surfaces densely clad in multicellular, non-glandular hairs, with or without cottony tips, over short glandular hairs; margins ± white with cottony hairs; capitula small, 0.8-1.5cm diam.; fls white)

- R. albosericea* x *R. sp.*(i) (unc)

- * *Gnaphalium avidax*

- (* *Senecio glaucophyllus* ssp. *toa* (unc)

- * *G. denticatum*

- * *S. glomeratus*

- * *G. limosum* s.s.

- (* *S. minimus* (unc)

- G. vahnicum*

- S. rufiglandulosus* var. *rufiglandulosus* (unc)

- * *G. traversii*

- (* *S. wairauensis* (unc)

- * *Helichrysum filicaule*

- * *Vittadinia australis* agg.

DICOT HERBS (OTHER THAN COMPOSITES)

Leptinella pusilla

Acaena auserinifolia

- * *L. sp.* (*L. squalida* agg.)

A. juvenca

Lagenifera cuneata

- * *A. microphylla* var. *microphylla*

- * *L. montana* (unc)

- * *Aciphylla sp.* (unnamed; aff. *A. squarrosa*)

L. pinnatifida (unc)

Anisotome aromatica

- * *L. pumila*

Cardamine sp.(i) (*C. debilis* agg.)

L. strangulata

("Narrow Petal" of Pritchard 1957)

- * *Microseris scapigera* var.

- * *C. sp.*(ii) (aff. *C. corymbosa*)

- (* *Pseudognaphalium sp.* (unnamed; aff. *P. luteoalbum*) (lvs mostly linear-spathulate to linear, acute)

- * *Centella uniflora*

- (* *Raoulia albosericea*

Colobanthus strictus

Citissula sp. (cf. *C. sieberiana* and *C. tatarica*)

- * *Dichondra* sp. (unnamed; aff. *D. brevifolia*)
- * *Diosera binata*
- * *D. pygmaea*
- D. spathulata*
- * *Epilobium alsinoides* s.s.
- E. astonii*
- E. atriplicifolium* s.s.
- E. billardioreanum* s.s.
- E. brunnescens* s.s.
- * *E. chionanthum*
- * *E. cinereum*
- E. hectorii* s.s. (unc)
- * *E. insulate*
- E. komarovianum* (unc)
- E. linnaeoides*
- E. melanocaulon*
- E. microphyllum*
- * *E. nertetoides*
- (*) *E. nummularifolium* (unc)
- * *E. pallidiflorum*
- (*) *E. pedunculata* s.s.
- E. pubens*
- E. rotundifolium*
- * *E. tenuipes* s.s.
- E. sp.* (unnamed; included in *E. brunnescens*, as ssp. *minutiflorum*, by Raven & Engelhorn, 1971) (unc)
- * *Euphrasia cuneata*
- * *E. zelandica* agg.
- * *Gentiana grisebachii* s.s.
- G. sp.* (unnamed; aff. *G. microphyllum*)
- * *G. potentilloides* var. *potentilloides*
- * *G. sessiliflorum* var. *sessiliflorum*
- Glossostigma elatinoides* (unc)
- Gonocarpus aggregatus*
- * *G. micranthus* ssp. *micranthus*
- Gunnera dentata* var. *dentata*
- (*) *G. protepens*
- Hydrocotyle elongata*
- H. heteromera* (unc)
- * *H. hydrophila*
- * *H. microphylla*
- H. moschata*
- * *H. sulcata*
- * *H. sp.* (unnamed; included in *H. novaezeelandiae*, as var. *montana*, by Kirk 1899) var.
- * *Hypericum japonicum* agg.
- * *H. sp.* (unnamed) (much smaller than *H. japonicum*)
- (*) *Kelleria laxa* (unc)
- * *Lilaeopsis tuthiana*
- Linum monogynum* (unc)
- * *Mentha cunninghamii*
- * *Moutia fontana* s.s.
- * *Myosotis forsteri*
- M. sp.* (unnamed; aff. *M. pygmaea*)

(*) *Myriophyllum pedunculatum* ssp. *novae-zelandiae*

* *Rumex flexuosus*
Scandia sp. (*S. rosifolia* agg.)
(leaflets ovate lanceolate)

M. propinquum

Schizaelema colensoi

* *Nertera ciliata*.

* *S. nitens*

* *N. setulosa*

* *Scleranthus uniflorus*

N. sp (unnamed; aff. *N. dichondrifolia*) (hairs present on both surfaces of lf, straight, not hooked as in *N. dichondrifolia*)

* *Selliera microphylla*

* *Stackhousia minima*

Stellaria decipiens (incl. *S. parviflora*)

* *Oreomyza sp* (i) (unnamed; aff. *O. ramesa*)

Urtica incisa

O. sp (ii) (unnamed; included in *O. colensoi*, as var. *delicatula*, by Allan 1961) (unc)

Utricularia novae-zelandiae

Oreostyloidium subulatum

* *Viola cunninghamii*

V. filicaulis

Ourtisia macrophylla ssp. *robusta*

* *Wahlenbergia albomarginata*

var. *pygmaea*

Oxalis exilis

W. rupestris

O. magellanica

Parahebe diffusa ssp. *diffusa*

No. of species: 374.
(No. in Swamp: 166)

* *Plantago raoulii*

* *P. triandra* s.s.

Potentilla anseruoides (unc)

* *Pratia angulata* ass.

* *Ranunculus glabrifolius*

* *R. recens* var. (illustrated by Ogle 1978, p. 51)

* *R. reflexus*

* *R. sp.* (unnamed; included in *R. lappaceus*, as var. *macrophyllus*, by Kirk 1899)

R. simulans

ADVENTIVE SPECIES†

(† only those associated with modified native vegetation, i.e. excluding those associated with sown pasture, cropland, farmyards, gardens, etc)

* - present in Ngamatea East Swamp
(*) - uncommon in Swamp

GYMNOSPERMS

* *Pinus contorta* †

GRASSES

- * *Agrostis capillacea*
- * *Aira caryophylla*
- * *Anthoxanthum odoratum*
- Elymus rectisetus* ss
- * *Festuca nigrescens*
- F. tenuifolia*
- * *Holcus lanatus*

SEDGES

Isoplepis setacea

RUSHES

- * *Juncus articulatus*
- * *J. effusus*

COMPOSITE HERBS

- * *Cirsium arvense*
- C. vulgare*
- * *Crepis capillaris*
- Hypochoeris radicata*
- * *Leontodon taraxacoides*
- * *Hieracium pilosella*
- Senecio jacobaea*
- (*) *S. sylvaticus* (unc)
- Sonchus asper*
- Taraxacum officinale* s.l.

DICOT HERBS OTHER THAN/ COMPOSITES

- Acaena agnifolia*
- * *Cerastium fontanum* ssp. *vulgare*
- (*) *Epilobium ciliatum*
- (*) *E. c. X E. chionanthum* (unc)
- (*) *Hypeticum humifusum*
- * *Linum catharticum*
- * *Myosotis laxa* ssp. *caespitosa*
- Plantago major*
- Pronella vulgaris*
- * *Rumex acetosella*
- Sagina procumbens*
- Trifolium dubium*
- T. pratense*
- * *T. repens*

No. of species: 34.
(No. in Swamp: 21)

† many removed from Swamp
February 1985

REFERENCES

- Allan, H.H. 1961: "Flora of New Zealand". Government Printer, Wellington. Vol. 1. 1085 pp.
- Cochayne, L. 1928: "The Vegetation of New Zealand". 2nd ed. Englemann, Leipzig. 456 pp.
- Druy, D.G. 1972: The cluster and solitary headed cudweeds native to New Zealand: (Graphalum Sectio Euchiton-Compositae). N.Z. J. Bot. 10: 112-79.
- Edgar, E. 1966: Luzula in New Zealand. N.Z. J. Bot. 4: 159-84.
— 1970: Cyperaceae. Pp. 167-285 in "Flora of New Zealand". Government Printer, Wellington. Vol. 2. 354 pp.
- Franklin, D.A. 1962: The Ericaceae in New Zealand (Gaultheria and Perrettia). Trans. R. Soc. N.Z. Bot. 1: 155-73.
- Kirk, T. 1899: "The Students' Flora of New Zealand". Government Printer, Wellington. 408 pp.
- Oliver, W.R.B. 1935: The genus Ceprosina. Bishop Mus. Bull. 132. 207.
- Pritchard, G.G. 1957: Experimental taxonomic studies on species of Cardamine Linn. in New Zealand. Trans. R. Soc. N.Z. 85: 75-89.
- Raven, P.H.; Engelhorn, T. 1971: New taxa and new combinations in Australian Epilobium (Onagraceae). N.Z. J. Bot. 9: 345-50.
- Simpson, G.; Thomson, J.S. 1943: Notes on some New Zealand plants and descriptions of new species. Trans. R. Soc. N.Z. 73: 155-71.
- Zotov, V.D. 1965: Grasses of the subantarctic islands of the New Zealand region. Rec. Dom. Mus. Wellington 5: 101-46.
- Löve, A.; Connor, H.E. 1982: Relationships and taxonomy of New Zealand wheatgrasses. N.Z. J. Bot. 20: 169-86.
- Ogle, C. 1978: Bull. Wellington bot. Soc. 40: 50-1.

