

VASCULAR PLANTS OF TUSSOCK AREAS AND ADJACENT

SCRUB, SOUTHERN RUAHINE RANGE, 3250-3750 FT

Blossie G. H.
21/25 = 303 660

(Based on observations 1966-1973)

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(Second approximation, August 1971)

(Revised June 1972
Feb. 1973)

May 1974
Feb 1975

July 1975
July 1976
May 1977

- * adventive species
- † species confined to rocky sites, heads of gullies

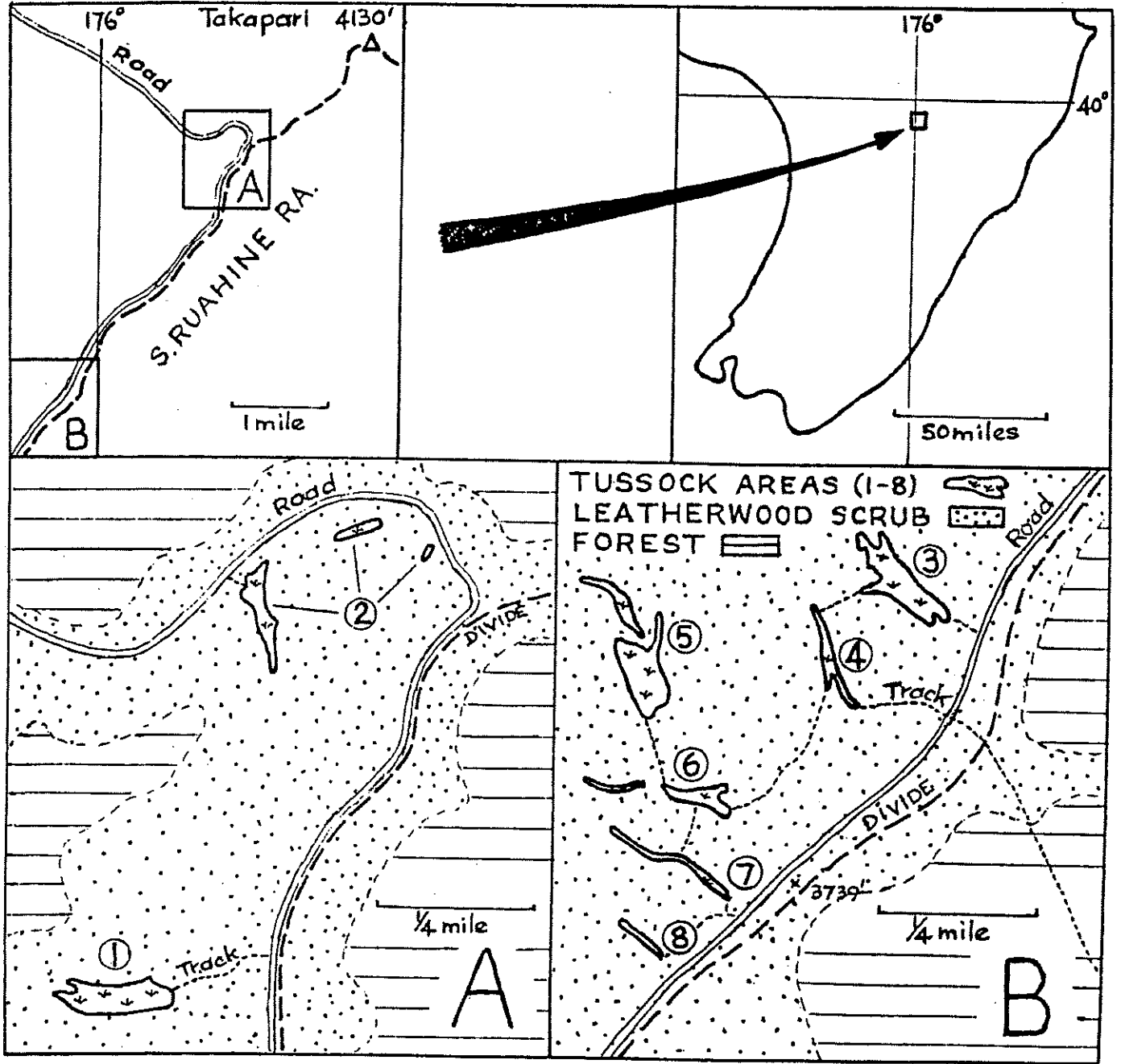
- X species common in area
- x species uncommon in area
- s seedlings only

June 1979
June 1980
July 1985
March 1988
June 1988
Nov. 1989
Aug. 1990

No. of indigenous species present:
No. of hybrid groups:
No. of adventive species:

174
9
24

July 1991)



(If undersurface not minutely hairy
as is usual in *C. parviflora*; drupes
vs. unpigmented, occ. purplish red)

ROADSIDES (0)
SCRUB(S)
TUSsock AREAS (1-8)
1 2 3 4 5 6 7 8. S 0

GYMNOSPERMS

- Halocarpus biformis*
- Libocedrus bidwillii*
- Podocarpus hallii* x *P. nivalis*

DICOT TREES

- † *Aristolotelia serrata*
- † *Fuchsia excorticata*
- Griselinia littoralis*
- Pseudopanax colensoi* s.s.
- P. simplex* (incl. *P. s. var. sinclairii*)

DICOT SHRUBS

- Aristolotelia fruticosa* var. *suberecta*
- † *Brachyglottis repanda* s.s.
- Cassinia leptophylla* var. (*C. vaouvilliersii*)
- Coprosma depressa*
- C. foetidissima*
- *C. pseudocuneata* ssp. *pseudocuneata*
- *C. parpusilla* ssp. *parpusilla*
- C. sp. (i)* (unnamed; included in *C. parviflora* by Oliver 1935, and others)
- C. sp. (ii)* (*C. parviflora* var. *dumosa* Allan 1961, non *C. p. var. dumosa* Cheeseman)
- ⊕ → *Cyathodes empetrifolia*
- Dracophyllum longifolium* var. *septentrionale*
- D. recurvum*
- D. longifolium* x *D. recurvum*
- Gaultheria rupestris* (incl. *G. subcorymbosa*)
- G. sp.* (unnamed; included in *G. depressa*, as var. *novae-zelandiae*, by Franklin, 1962)
- G. rupestris* x *G. sp.*
- Habe odora* s.s.
- H. subalpina* var. (*H. truncatula*)
- Melicytus alpinus* s.s.
- Myrsine divaricata* s.s.
- M. nummularia*
- † *Olearia arborescens*

	1	2	3	4	5	6	7	8.	S	0
<i>Halocarpus biformis</i>	-	-	x	x	-	-	-	-	X	-
<i>Libocedrus bidwillii</i>	-	-	-	-	-	-	-	-	x	-
<i>Podocarpus hallii</i> x <i>P. nivalis</i>	-	-	-	-	-	-	-	-	x	-
† <i>Aristolotelia serrata</i>	-	-	-	-	-	-	-	-	S	-
† <i>Fuchsia excorticata</i>	-	-	-	-	-	-	-	-	x	-
<i>Griselinia littoralis</i>	-	-	-	-	-	-	-	-	x	-
<i>Pseudopanax colensoi</i> s.s.	-	-	-	-	-	-	-	-	S	-
<i>P. simplex</i> (incl. <i>P. s. var. sinclairii</i>)	-	-	S	S	S	S	S	-	X	-
<i>Aristolotelia fruticosa</i> var. <i>suberecta</i>	-	-	-	-	-	-	-	-	x	-
† <i>Brachyglottis repanda</i> s.s.	-	-	-	-	-	-	-	-	S	-
<i>Cassinia leptophylla</i> var. (<i>C. vaouvilliersii</i>)	-	x	-	-	-	-	-	-	-	-
<i>Coprosma depressa</i>	x	x	x	x	x	X	X	x	X	x
<i>C. foetidissima</i>	-	-	-	-	-	-	-	-	x	x
→ <i>C. pseudocuneata</i> ssp. <i>pseudocuneata</i>	-	-	-	-	-	-	-	-	x	-
→ <i>C. parpusilla</i> ssp. <i>parpusilla</i>	x	x	X	-	X	x	-	-	-	-
<i>C. sp. (i)</i> (unnamed; included in <i>C. parviflora</i> by Oliver 1935, and others)	x	X	x	x	x	x	x	x	X	-
<i>C. sp. (ii)</i> (<i>C. parviflora</i> var. <i>dumosa</i> Allan 1961, non <i>C. p. var. dumosa</i> Cheeseman)	x	X	x	x	x	x	x	x	X	-
⊕ → <i>Cyathodes empetrifolia</i>	x	-	x	-	x	x	-	-	-	-
<i>Dracophyllum longifolium</i> var. <i>septentrionale</i>	x	x	-	x	x	x	-	x	x	-
<i>D. recurvum</i>	x	-	x	-	x	X	-	-	-	-
<i>D. longifolium</i> x <i>D. recurvum</i>	x	-	-	-	-	-	-	-	-	-
<i>Gaultheria rupestris</i> (incl. <i>G. subcorymbosa</i>)	x	-	-	-	x	-	-	-	x	-
<i>G. sp.</i> (unnamed; included in <i>G. depressa</i> , as var. <i>novae-zelandiae</i> , by Franklin, 1962)	X	x	X	x	X	X	X	X	x	-
<i>G. rupestris</i> x <i>G. sp.</i>	-	-	-	-	-	-	-	-	x	-
<i>Habe odora</i> s.s.	x	x	-	x	x	-	x	-	-	-
<i>H. subalpina</i> var. (<i>H. truncatula</i>)	-	-	-	S	-	-	-	-	x	-
<i>Melicytus alpinus</i> s.s.	-	x	-	-	-	-	-	-	-	-
<i>Myrsine divaricata</i> s.s.	-	x	-	x	-	-	-	-	X	-
<i>M. nummularia</i>	x	-	x	-	x	X	-	X	-	-
† <i>Olearia arborescens</i>	-	-	-	-	-	-	-	-	x	-

(Insert above)

- ⊕ → *C. sp. (c)* (unnamed; aff. *C. cheesemanii*) (lvs broader than in *C. cheesemanii*)

<i>C. sp. (c)</i>	-	-	-	-	-	x	x	-	-	-
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O. colensoi var. colensoi

s s s s s s s s X s

†O. ilicifolia

- - - - - - - - x -

†O. arborescens X O. ilicifolia

- - - - - - - - x -

Pentachondra pumila

X x X - X X - X -

Pimelea buxifolia

x x x - - x - x x x

Pittosporum rigidum var. rigidum (incl. P. r. var. maius)

- x x x - - x x X -

Pseudowintera colorata

- - - - - - - - x -

(to p. 2) Brachyglottis rotundifolia var. (B. elazagnifolia)

DICOT LIANES - Muehlenbeckia australis

- - s s - s - - x -

Rubus cissoides var. cissoides

- - - - - - - - x -

LYCOPODS

Lycopodium fastigiatum

x X X X X X x - - -

L. scariosum

x x X X x x X - - -

L. varium (incl. L. billardierei and L. novae-zelandicum)

x - - - - - - - - -

FERNS

Asplenium flaccidum

- - - - - - - - x -

Blechnum discolor

- - - x - - x - x -

B. fluviatile agg.

- x - x x - x - X x

B. penna-marina

x X - X x x - - - -

(*) > B. procerum

x x - x x x x x X X

B. sp. (unnamed) (common lowland sp.; lower pinnae reduced in length)

x - x x - - x - - -

Grammitis magellanica ssp. nothofagei

- - - - - - - - X -

Histiopteris incisa

- - - x - x x - X X

Hymenophyllum multifidum

- - X - x X X - X -

H. malingii

- - - - - - - - x -

H. peltatum

- - - x - - - - x -

H. rarum

- - - - - - - - x -

H. sanguinolentum agg.

- - - - - - - - X -

Hypolepis rufobarbata

- - - - - - - - x X

Paesia scaberula

- - - - - x - - - X

Polystichum vestitum

x X x X x x X x X -

Lactopterinis superba

- - - - - - - - x -

Insert above

(*) > B. minus

- - x - x - - - - -

ORCHIDSAporostylis bifolia

X x X x X X X X - -

Chiloglottis cornuta

- - - - - - - - x X

Corybas macranthus

- - - x - - - - -

Prasophyllum colensoi

x x - - x x - - -

Pterostylis montana

- - - x - - - - -

P. venosa

- - - - - - - x X

GRASSES*Agrostis capillans

X X X X X X X - - X

A. personata

X X x x x x X X - -

*Anthoxanthum odoratum

x - - x - - x - - X

Chionochloa conspicua ssp. cunninghamii

- - - - - - - x -

C. pallens var. (lvs broader than in ^{C.p.} var. pallens)

x x X X X X X X - -

C. rubra var.

X X X X X X X - -

C. conspicua x C. rubra

- x - - - - - - -

C. pallens x C. rubra

X X X X X X X X - -

Cortaderia fulvida

x - - - - - - - x

*Dactylis glomerata

- - - - - - - - x

Deschampsia tenella

x X - X X x X - - x

Deyeuxia aucklandica

x x X - X X X - - -

Dichelachne cernita

- - - - - - - - x

*Festuca arundinacea

- - - - - - - - x

Hierochloa recurvata

- - x X x x x x - -

H. redolens

x x - - - - - - -

*Holcus lanatus

x x - x x - x - - X

*Lolium perenne

- - - - - - - - X

Microlaena avenacea

- - - - - - - x -

Rytidosperma gracile

x X - - - - - - - X

*Poa annua

- - - - - - - - x

P. breviglumis

X X X X X x X - X X

P. pusilla

- - - x - - - - -

P. sp. (undetermined)

- - - - - x x - - -

	ROADSIDES (O)									
	SCRUB(S)									
	TUSsock AREAS (1-8)									
	1	2	3	4	5	6	7	8	S	O
<u>J. pusillus</u>	-	x	-	-	-	-	-	-	-	-
<u>J. sarophorus</u>	-	-	-	x	-	-	-	-	-	-
<u>Luzula migrata</u>	-	-	-	-	-	-	-	-	-	x
<u>L. subclavata</u>	-	-	-	-	-	-	x	-	-	x
<u>L. sp.</u> (unnamed; included in <u>L. picta</u> , as var. <u>limosa</u> , by Edgar 1966)	X	X	X	X	X	X	X	X	X	X

MONOCOT HERBS (OTHER THAN ORCHIDS, GRASSES, SEDGES, RUSHES)

<u>Astelia fragrans</u>	-	-	-	-	-	-	-	-	x	-
<u>A. linearis</u> var. <u>novae-zelandiae</u>	X	X	X	-	X	X	-	X	-	-
<u>A. sp.</u> (unnamed; aff. <u>A. nervosa</u>) (lvs not conspicuously white adaxially as in <u>A. nervosa</u>)	x	x	x	x	x	X	x	x	X	x
<u>Luzuriaga parviflora</u>	-	-	x	-	-	-	-	-	x	-
<u>Phormium cockianum</u>	x	x	x	-	-	x	x	x	-	X

COMPOSITE HERBS

<u>Abrotanella caespitosa</u>	X	X	X	-	X	X	X	X	-	-
<u>Brachy^scome radicata</u>	-	x	-	-	-	-	-	-	-	-
<u>Celmisia gracilentata</u> var.	X	X	X	-	X	X	x	X	-	-
<u>C. incana</u> (incl. <u>C. discolor</u>)	X	x	X	-	x	-	-	-	-	-
<u>C. gracilentata</u> X <u>C. incana</u>	x	-	-	-	-	-	-	-	-	-
* <u>Cirsium arvense</u>	-	-	-	-	-	-	-	-	-	x
* <u>C. palustre</u>	-	x	x	x	x	x	x	-	-	x
* <u>C. vulgare</u>	-	-	x	-	-	-	-	-	-	X
* <u>Conyza</u> sp.	-	-	-	-	-	-	-	-	-	x
<u>Craspedia minor</u> var. <u>minor</u> (incl. <u>C. major</u>)	-	-	-	x	x	-	-	-	-	x
* <u>Crepis capillaris</u>	-	-	-	x	-	-	-	-	-	x
<u>Gnaphalium gymnocephalum</u>	-	-	-	-	-	-	-	-	-	x
<u>G. limosum</u> s.s.	-	-	-	x	x	-	x	-	-	-
<u>G. mackayi</u> s.s.	x	x	-	-	-	-	-	-	-	-
<u>G. sphaericum</u>	-	-	-	-	-	-	-	-	-	x
<u>G. ruahinicum</u>	-	x	-	x	-	-	-	-	x	X

	1	2	3	4	5	6	7	8	S	0
↑ <u>Anaphalis</u> sp. (<u>Helichthysum bellidoides</u> s.s.)	-	x	-	X	x	-	-	-	-	-
<u>Helichthysum filicaule</u>	-	x	-	x	x	x	-	-	-	-
* <u>Hypochoeris radicata</u>	X	X	X	X	X	X	X	x	-	X
* <u>Leontodon taraxacoides</u>	x	x	-	x	x	-	-	-	-	x
<u>Leptinella squalida</u> agg.	-	X	-	-	-	-	-	-	-	-
* <u>Mycelis muralis</u>	-	-	-	-	-	-	-	-	x	x
<u>Raoulia glabra</u>	-	x	-	x	-	-	-	-	-	X
<u>R. tenuicaulis</u> (incl. <u>R.t.</u> var. <u>dimorpha</u> and <u>R.t.</u> var. <u>pusilla</u>)	-	-	-	-	-	-	-	-	-	x
* <u>Senecio jacobaea</u>	x	-	x	x	x	x	-	-	-	X
<u>S. minimus</u>	-	-	-	x	-	-	-	-	-	X
* <u>S. sylvaticus</u>	-	-	-	-	-	-	-	-	-	x
* <u>Sonchus asper</u>	-	-	-	-	-	-	-	-	-	x
* <u>Taraxacum officinale</u> s.l.	-	-	-	-	x	-	-	-	-	-
HERBS (OTHER THAN COMPOSITES)										
<u>Acaena anserinifolia</u>	-	X	x	X	x	x	X	-	-	X
<u>Aciphylla colensoi</u> var. <u>colensoi</u>	-	-	x	x	-	x	x	x	-	-
<u>Anisotome aromatica</u>	-	X	X	x	-	X	X	-	-	-
↓ <u>Psychrophila novae-zealandiae</u>	X	x	X	x	X	X	-	X	-	-
<u>Cardamine</u> sp.(i) (<u>C. debilis</u> agg.) ("Long Style" of Pritchard 1957)	-	-	-	-	-	-	-	-	x	x
† <u>C.</u> sp.(ii) (apetalous)	-	-	-	-	-	-	-	-	x	-
to p.8) <u>Kellera laxa</u>	X	X	-	x	x	-	X	-	-	-
<u>Drosera arcturi</u>	X	x	X	-	X	-	-	-	-	-
<u>Epilobium alsinoides</u> s.s.	-	-	-	x	x	-	-	-	-	X
<u>E. brunnescens</u> s.s.	-	-	-	x	x	-	-	-	-	X
<u>E. chlorifolium</u>	-	-	-	-	-	-	x	-	-	-
<u>E. cinereum</u>	-	-	-	-	-	-	-	-	-	x
<u>E. cockayneanum</u>	X	X	X	X	X	X	X	X	-	X
<u>E. insulare</u>	-	-	-	-	x	-	-	-	-	-
<u>E. sinnaeoides</u>	x	x	-	x	-	x	x	-	x	X
<u>E. nummularifolium</u>	-	-	-	-	-	-	-	-	-	x
* <u>E. obscurum</u>	-	-	-	-	-	-	-	-	-	x
<u>E. pernitens</u>	x	-	x	-	-	x	-	-	-	-
① > <u>E. rotundifolium</u>	-	-	-	-	-	-	-	-	-	x
<u>Euphrasia cuneata</u>	-	x	-	-	-	-	-	-	-	-
<u>Forstera tenella</u>	X	x	X	x	X	X	X	-	-	-
<u>Gentiana</u> sp. (unnamed; aff. <u>G. grisebachii</u>)	X	X	X	X	X	X	X	X	X	X
<u>Geranium microphyllum</u>	X	X	X	X	X	X	X	X	-	-

Insect ibone

① > E. sp. (unnamed; included in E. brunnescens, as ssp. minuti florum, by Raven and Engelhorn 1971)

plant large, with decumbent branches up to 50cm long;

ROADSIDES (0)
SCRUB(S)

TUSsock AREAS (1-8)

	1	2	3	4	5	6	7	8	S	0
<u>Gonocarpus aggregatus</u>	-	-	x	X	-	-	-	-	-	-
<u>Hydrocotyle heteromeria</u>	-	-	-	-	-	-	-	-	x	-
<u>H. moschata</u>	-	-	-	-	-	-	-	-	-	x
<u>Liparophyllum gunnii</u>	-	-	-	-	X	-	-	-	-	-
<u>Montia fontana</u> s.s.	-	-	-	-	X	-	X	-	-	-
† <u>Myosotis venosa</u>	-	-	-	-	-	-	-	-	x	-
<u>M. sp. (M. forsteri agg.)</u> (fls up to 1 cm diam.)	-	-	-	-	-	-	-	-	x	x
<u>Nertera balfouriana</u>	-	-	-	-	X	-	-	-	-	-
<u>N. ciliata</u>	-	-	-	-	x	-	-	-	-	-
<u>N. depressa</u> (incl. <u>N. cunninghamii</u>)	-	-	-	x	-	-	-	-	-	-
<u>Oreomyrrhis colensoi</u> (incl. <u>O.c.</u> var. <u>hispida</u> and <u>O.c.</u> var. <u>multifida</u>)	X	X	X	X	X	X	X	X	-	-
<u>Ourisia colensoi</u>										
<u>O. lactea</u> ssp. <u>drucei</u>	x	X	-	X	-	X	X	-	-	-
<u>O. colensoi</u> X <u>O. lactea</u>										
<u>Oxalis magellanica</u> agg.	-	X	-	X	X	X	X	-	-	-
<u>Pratia angulata</u> agg.	X	X	X	X	X	X	X	X	-	-
<u>Ranunculus membranifolius</u>	-	-	-	X	-	x	x	-	x	-
<u>Schizeilema allanii</u>	-	-	x	X	x	x	X	x	X	-
<u>S. nitens</u>	x	X	-	X	X	x	-	-	-	-
<u>Stellaria decipiens</u> (incl. <u>S. parviflora</u>)	X	X	-	x	-	x	x	x	X	X
<u>Urtica incisa</u>	-	-	-	-	-	-	-	-	x	x
<u>Viola filicaulis</u>	X	X	X	X	X	X	X	X	X	X
<u>V. cunninghamii</u>	-	-	-	X	-	x	-	-	-	-

REFERENCES

Cheeseman, T.F. 1906: Manual of the New Zealand Flora. 1st ed. Government Printer, Wellington.

Edgar, E. 1966: Luzula in New Zealand. N.Z. J Bot. 4: 159-84.

1970: Cyperaceae, pp. 167-235 in "Flora of New Zealand". Government Printer, Wellington. Vol. 2. 354 pp.

Franklin, D.A. 1962: The Ericaceae in New Zealand (Gaultheria and Pernettya).
Trans. R. Soc. N.Z. Bot. 1: 155-73.

Oliver, W.R.B. 1935: The genus Coptosma. Bull. Bishop Mus.,
Honolulu 132.

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.; Engelman, T. 1971: New taxa and new combinations in
Australasian Epilobium (Onagraceae). N.Z. J. Bot. 9: 345-50.

