

Notes on the list

If the name used is different from that in the standard floras the previous name is added in square brackets. For indigenous species, Allan (1961), Moore & Edgar (1970), and Cheeseman (1925) (grasses only) are accepted as the standard floras. For adventive species, "Standard Common Names for Weeds in New Zealand" (Healy 1984) is used as the standard reference.

Unless otherwise indicated plants are common or abundant.

Abbreviations and signs:

aff. affinities with

agg. aggregate, comprising more than one species

auct. of authors

A found in Ben More area only (see Fig.)

B found in Chalk Range area only (see Fig.)

(species found in both areas are left unmarked)

cf. compare with

incl. include (in concept of taxon)

s.l. sensu lato, in a broad sense

s.s. sensu stricto, in a narrow sense, excluding species other than the original in an aggregate

unc. uncommon or local

Specimens of all indigenous species and hybrids have been deposited in Botany Division, DSIR, herbarium, Lincoln (CHR) with the exception of the following 20 species and six hybrids (nine of these, however, are represented in WELT, National Museum, Wellington – they are marked by an asterisk): *Rhopalostylis sapida*, *Corynocarpus laevigatus*, **Hoheria populnea* var. *lanceolata*, *Lophomyrtus bullata*, *Nestegis cunninghamii*, *Plagianthus regius* var. *regius*, *Fuchsia excorticata* × *F. perscandens*, **Hebe* sp. ~~(A)~~, *Korthalsella lindsayi*, **K. salicornioides*, **Teucrium parvifolium*, *Freycinetia baueriana* ssp. *banksii*, *Rubus schmidelioides* var. *subpauperatus* × *R. squarrosus*, *Asplenium hookerianum* × *A. terrestre* ssp. *terrestre*, *Blechnum penna-marina* × *B. sp.* (undetermined), *Pterostylis areolata* × *P. australis*, *Echinopogon ovatus*, *Koeleria* sp. ~~(A)~~, **Carex sinclairii*, *Isolepis basilaris*, *Luzula migrata* × *L. rufa*, **Brachyglottis traversii*, **Epilobium hectorii*, **E. rostratum*, **Limosella lineata*, *Myriophyllum propinquum*.

(d)

(b)

INDIGENOUS PLANTS (569 SPECIES)

GYMNOSPERM TREES AND SHRUBS

- Dacrycarpus dacrydioides* (unc A) (CHR 249381, 279367)
[*Podocarpus dacrydioides*]
- Dacrydium cupressinum* (A) (CHR 279365)
- Phyllocladus alpinus* (CHR 274809, 274821, 363598)
- Podocarpus hallii* (CHR 249168)
- P. nivalis* (unc B) (CHR 387593)
- P. totara* var. *totara* (A) (CHR 245227)
- P. hallii* x *P. nivalis* (unc B) (CHR 275221)
- Prumnopitys ferruginea* (A) (CHR 275222, 279359, 387562) [*Podocarpus ferrugineus*]
- P. taxifolia* (CHR 249215, 274767)
- [*Podocarpus spicatus*]

h.s.s.

h.s.s.

MONOCOTYLEDONOUS TREES AND SHRUBS

- Cordyline australis* (CHR 249309)
- C. banksii* (unc A - Kekerengu Valley) (CHR 387561)
- Rhopalostylis sapida* (unc A)

DICOTYLEDONOUS TREES AND SHRUBS

- Alectryon excelsus* var. *excelsus* (A) (CHR 249144, 274909)
- Alepis flavida* (unc A) (CHR 279357) [*Elytranthe flavida*]
- Aristotelia fruticosa* var. (a) (CHR 249172, 363579)
- A. serrata* (CHR 249145)
- A. fruticosa* x *A. serrata* (unc) (CHR 279263)
- Brachyglottis monroi* var. *monroi* s.l. (incl. *B. monroi* var. *elongata*) (CHR 179345, 249150, 279195, 279274)
[*Senecio monroi*]
- B. repanda* s.s. (A) (CHR 245245)
- Carmichaelia* (~~*arborea* var. (a)~~) (incl. *C. ovata*) (CHR 179350, 245236, 249156)
- C. astonii* (CHR 249180, 249221, 279199, 279204, 279271)
- C. arborea* x *C. astonii* (unc A) (CHR 363595)
- Carpodetus serratus* (CHR 245265, 275209)
- Cassinia* (~~*leptophylla* var. *leptophylla* s.l.~~) (incl. *C. leptophylla* var. *spatulata*, *C. fulvida* var. *fulvida*, and *C. retorta*) (CHR 249164, 274808)
- C. vauvilliersii* (incl. *C. fulvida* var. *montana*) (CHR 249188, 274833, 274873)
- C. leptophylla* x *C. vauvilliersii* (CHR 275219)
- Coprosma acerosa* (unc B) (CHR 274894, 275228, 279278)
- C. areolata* (A) (CHR 245274)
- C. ciliata* (CHR 274825, 279335, 358372)
- C. colensoi* s.s. (A) (CHR 274807, 279380, 366017)
- C. crassifolia* (CHR 249428, 274917)
- C. foetidissima* (A) (CHR 275215)
- C. grandifolia* (A) (CHR 279353) [*C. australis*]
- C. linariifolia* (CHR 208566, 249205)
- C. lucida* s.s. (CHR 249396)
- C. microcarpa* (A) (CHR 249320)
- C. obconica* ssp. *obconica* (unc A - Isolation Creek) (CHR 279314, 394521)
- C. petriei* (unc B - The Zoo) (CHR 274785) [*C. petriei* var. *petriei*]
- C. propinqua* ssp. *propinqua* s.l. (incl. *C. propinqua* var. *latiuscula*) (CHR 249151, 279332, 358371)
- C. pseudocuneata* s.s. (unc B - Chalk Range) (CHR 358370)
- C. rhamnoides* (~~ssp. *rhamnoides* s.l.~~) (incl. *C. polymorpha*) (CHR 249323)
- C. rigida* (A - Wharf Stream) (CHR 312914-5)
- C. robusta* (A) (CHR 394333)
- C. rubra* (unc A - upper Brian Boru Valley) (CHR 208573)
- C. virescens* (unc A - upper Brian Boru Valley) (CHR 208574)
- C. sp.* (a) (described as *C. parviflora* var. *dumosa* by Cheeseman 1906, non *C. parviflora* var. *dumosa* sensu Allan 1961; lf undersurface not minutely hairy as is usual in *C. parviflora*; drupes usually unpigmented, occasionally purplish red) (CHR 249167, 358373) [*C. parviflora* in part]

h sp. (subgenus *Carmichaelia*)

h x *C. sp.* (subgenus *Carmichaelia*)

h *leptophylla*

h sp.(a) (aff. *C. vauvilliersii*)

h *leptophylla* x *L. sp.*(a)

h ssp.(a) (described as *C. acerosa* forma *brunnea* by Kirk 1974)

h [*C. brunnea*]

h ssp.(a) (adult, exposed lvs glabrous or nearly so)

h ssp.(a) (lvs narrower than in ssp. *pseudo-cuneata*)

- C. propinqua* × *C. robusta* (unc) (CHR 249259, 274818)
Coriaria arborea (CHR 394334)
C. kingiana (CHR 249153, 249270, 274935-6, 387543)
C. sarmentosa (unc) (CHR 279284)
C. arborea × *C. kingiana* (CHR 249312)
C. arborea × *C. sarmentosa* (unc A) (CHR 279350)
C. kingiana × *C. sarmentosa* (unc) (CHR 279285)
Corokia cotoneaster var. *cotoneaster* (CHR 249181)
Corynocarpus laevigatus (A – recorded from Woodside Gorge by Martin 1932) (The only tree seen by A.P.D. was close to habitation and had almost certainly been planted – CHR 249378)
Cyathodes sp. (a) (*C. juniperina* agg.; lvs usually <1 cm long and <1 mm broad) (CHR 249204, 274912)
Discaria toumatou (CHR 245208, 249154)
Dodonaea viscosa (A) (CHR 245233)
Dracophyllum acerosum (unc) (CHR 275203, 365379, 387758)
Elaeocarpus dentatus s.l. (incl. *E. dentatus* var. *obovatus*) (A) (CHR 249236, 249383)
E. hookerianus (A) (CHR 274806, 275214)
Exocarpus bidwillii (unc) (CHR 279277, 279330)
Fuchsia excorticata (CHR 279179)
F. excorticata × *F. perscandens* (unc A) [*F. colensoi*]
Gaultheria antipoda (A) (CHR 249238)
G. sp. (a) (unc B) (described as *G. depressa* var. *novae-zelandiae* by Franklin 1962) (CHR 274876) [*G. depressa* in part]
Griselinia littoralis (CHR 249200)
G. lucida (unc A) (CHR 274931)
Hebe decumbens (unc) (CHR 274829, 279289, 279345, 387750)
H. hulkeana (CHR 245238, 249174, 275206)
H. rupicola (unc) (CHR 274824, 279287-8, 365402, 387579)
H. salicifolia var. *salicifolia* (unc) (CHR 274857)
H. stricta var. *atkinsonii* (A) (CHR 179329, 249391)
H. traversii (CHR 249334, 274828)
H. venustula s.l. (incl. *H. brachysiphon*) (CHR 274860, 279235, 279308, 387560)
H. sp. (c) (A) (described as *Veronica arborea* by Buchanan 1874) (CHR 190924-5, 245205, 279186, 311916) [*H. parviflora* var. *arborea*]
H. sp. (d) (collected from Ure Valley by B.C. Aston – WELT 5340) (described as *Veronica squalida* by Kirk 1896) [*Hebe parviflora* var. *angustifolia*]
H. sp. (e) (unc B – near Dee Stream) (CHR 387566) [*H. raoulii* var. *pentasepala*]
H. salicifolia × *H. stricta* (unc A) (CHR 279312)
Hedycarya arborea (A) (CHR 245240)
Helichrysum aggregatum var. *aggregatum* (CHR 208572, 249214) [*H. glomeratum*]
H. depressum (unc B – Dee and Mead Streams) (CHR 279251, 387575)
H. intermedium var. (b) (branchlets c. 2.5 mm diam.; lvs c. 1.5 × 1 mm, broadly triangular, subacute, strongly convex, cucullate, not keeled; fls yellow) (CHR 249216, 274826, 279194, 279203, 387581, 387597, 387599) [*H. selago*]
H. parvifolium (unc B) (CHR 365322, 387595) [*H. microphyllum*]
H. aggregatum × *H. bellidioides* (unc) (CHR 274861, 279322, 387583)
H. depressum × *H. intermedium* (unc B – Mead Stream) (CHR 387576)
Hoheria angustifolia (A) (CHR 208570)
H. lyallii var. *lyallii* (CHR 208575, 249173, 274890)
H. populnea var. *lanceolata* (A – collected from Ben More by B.C. Aston) (WELT 28160) [*H. sexstylosa*]
H. angustifolia × *H. lyallii* (unc) (CHR 274949)
Ileostylus micranthus (unc A) (CHR 245246, 249159, 387785) [*Loranthus micranthus*]
Korthalsella clavata (unc A – Whemside) (CHR 363576) [*K. lindsayi* var. *clavata*]
K. lindsayi (unc A)

- K. salicornioides* (recorded from Woodside Creek and Ure River by Martin 1932 and 1938; collected from Dee Gorge, Ure River, and Kekerengu by B.C. Aston) (WELT 31435, 31437, 31445)
- Kunzea ericoides* (CHR 249407) [*Leptospermum ericoides*]
- Leptospermum scoparium* (CHR 245237)
- Leucopogon fasciculatus* (A) (CHR 249206, 279366) [*Cyathodes fasciculata*]
- L. fraseri* s.s. (CHR 275225) [*Cyathodes fraseri*]
- Lophomyrtus bullata* (A - recorded from Woodside Gorge by Martin 1932, as *Myrtus bullata*)
- L. obcordata* (A) (CHR 245264)
- Macropiper excelsum* var. *excelsum* (A) (CHR 245203, 245213, 245270)
- Melicope simplex* (unc A) (CHR 387756)
- M. ternata* (unc A - Woodside Gorge) (CHR 279394)
- Melicytus alpinus* s.s. (CHR 249319, 279291, 279352) [*Hymenanthera alpina*]
- M. crassifolius* var. (a) (unc) (plants erect, up to 1 m high; lvs larger than in var. *crassifolius*) (CHR 249307, 249399, 279290, 279292, 279317, 279358, 366127, 387536, 387547; WELT 15104, 50485) [*Hymenanthera crassifolia*]
- M. lanceolatus* s.l. (incl. *M. lanceolatus* var. *latior*) (unc A - upper Brian Boru Valley) (CHR 365364)
- M. obovatus* var. *obovatus* (unc A - Waima Gorge) (CHR 394410) [*Hymenanthera obovata*]
- M. ramiflorus* ssp. *ramiflorus* (A) (CHR 249237, 274919)
- Myoporum laetum* var. *laetum* (A) (CHR 245239, 274918)
- Myrsine australis* (A) (CHR 245251)
- M. divaricata* s.s. (CHR 274834)
- M. nummularia* (unc A - Ben More) (CHR 365391)
- Neomyrtus pedunculata* (A) (CHR 274768)
- Nestegis cunninghamii* (A - recorded from Kekerengu by Martin 1932, as *Olea cunninghamii*) [*Gymnelaea cunninghamii*]
- Nothofagus fusca* (CHR 208565)
- N. solandri* (CHR 249240, 279385-6)
- N. fusca* x *N. solandri* (unc A) (CHR 274855)
- Notospartium carmichaeliae* s.l. (incl. *N. glabrescens*) (CHR 249280, 279196, 387594)
- Olearia arborescens* (unc) (CHR 279351)
- O. coriacea* (CHR 249155, 279293, 387598)
- O. cymbifolia* (unc) (CHR 274820, 387596)
- O. hectorii* var. *hectorii* (unc B - Wharf Stream and the Zoo) (CHR 208558, 208894, 274819)
- O. odorata* s.s. (unc B - Chalk Range) (CHR 279281, 279283, ~~387565, 387569~~)
- O. paniculata* (CHR 249411, 274853)
- O. solandri* (A) (CHR 249358, 249436, 366080)
- Pachystegia insignis* s.s. (CHR 249158)
- Pennantia corymbosa* (A) (CHR 245275, 274915)
- Peraxilla tetrapetala* (unc) (CHR 365371) [*Elytranthe tetrapetala*]
- Pimelea aridula* (CHR 179324, 208580, 222606, 249142, 249351, 274874, 279276, 363583, 363585, 365393, 387537, 393969, 394338)
- P. pseudolyallii* (unc A - Ben More) (CHR 279327-8, 365372)
- P. ~~stuartii~~ var. (a) (incl. *P. oreophila*)* (unc - Chalk Range and Ben More) (CHR 363575) [*P. pseudolyallii* in part]
- P. traversii* (unc) (CHR 249380, 274882)
- P. ~~stuartii~~ var. *stuartii** s.l. (incl. *P. prostrata* var. *quadrifaria*) (A - coastal) (CHR 274916, 393968) [*P. prostrata* in part]
- Pitosporum divaricatum* (A) (CHR 274765, 279202, 279381-3, 387762) [*P. divaricatum* and *P. lineare*]
- P. eugenioides* (A) (CHR 249253)
- P. tenuifolium* ssp. *tenuifolium* (CHR 245209)
- Plagianthus regius* var. *regius* (A) - recorded from Woodside Gorge by Martin 1932, as *P. betulinus* [*P. betulinus*]

h agg.

h var. (a) (juv. lvs not much wider than adult lvs)

h, 387565, 387569

h var. (a)

h c.f.
h P. sp. (c) (A)

- Pseudopanax anomalus* (unc A) (CHR 274856) [*Neopanax anomalum*]
- P. arboreus* var. *arboreus* (CHR 245206, 279198, 363484) [*Neopanax arboreum*]
- P. colensoi* s.s. (unc, except on cliffs) (CHR 274804, 363577) [*Neopanax colensoi* in part and *N. colensoi* var. *montanum* in part]
- P. crassifolius* (CHR 249322)
- P. ferox* (unc A - Waima River) (CHR 279309-10)
- Pseudowintera colorata* (A) (CHR 249321)
- Schefflera digitata* (A) (CHR 249210)
- Solanum aviculare* var. *aviculare* s.l. (incl. *S. aviculare* var. *albiflorum* and *S. cheesmanii*) (A) (CHR 245210)
- S. laciniatum* s.l. (incl. *S. laciniatum* f. *novozelandicum*) (unc A - Kekerengu) (CHR 245211)
- Sophora microphylla* (CHR 208571, 279377)
- S. prostrata* (CHR 279264, 279371-2, 279376, 387580)
- S. microphylla* × *S. prostrata* (unc A) (CHR 279378)
- Streblus heterophyllus* (unc A) (CHR 245272) [*Paratrophis microphylla*]
- Teucrium parvifolium* (B - recorded from Swale Valley by Martin 1938, and collected from same area by B.C. Aston - WELT 59732, 59738, 64006)
- Traversia baccharoides* (unc A - Ben More) (CHR 365387)
- Tupeia antarctica* (unc) (CHR 208567, 49426, 387784)
- Urtica ferox* (CHR 249359, 279318)

MONOCOTYLEDONOUS LIANES

- Freycinetia baueriana* ssp. *banksii* (A - recorded from Woodside Gorge by Martin 1932, as *F. banksii*) [*F. banksii*]
- Ripogonum scandens* (unc A) (CHR 245269)

DICOTYLEDONOUS LIANES AND RELATED TRAILING PLANTS

- Calystegia soldanella* (A - coastal) (CHR 245212)
- C. tuguriorum* (CHR 245263)
- Clematis afoliata* (CHR 279370)
- C. foetida* (A) (CHR 245241, 249252)
- C. forsteri* s.l. (incl. *C. australis*, *C. hookeriana*, and *C. petriei*) (CHR 190923, 249388-9, 275207, 279167-8, 393957)
- C. paniculata* (A) (CHR 274797, 275218, 279354)
- Convolvulus* sp. (a) (unc A) (described as *C. verecundus* ssp. *waitaha* by Sykes in Connor & Edgar 1987) (CHR 274907, 363584, 393963)
- Metrosideros colensoi* s.l. (incl. *M. var. pendens*) (A) (CHR 249335, 249367)
- M. diffusa* (unc A) (CHR 279364)
- M. perforata* (unc A) (CHR 249395)
- Muehlenbeckia australis* (CHR 245243)
- M. axillaris* (CHR 249161, 393956)
- M. complexa* (CHR 249423)
- M. ephedroides* (unc A - coastal) (CHR 393961)
- M. australis* × *M. axillaris* (unc B) (CHR 279239)
- M. australis* × *M. complexa* (unc) (CHR 249281)
- M. axillaris* × *M. ephedroides* (unc A - coastal) (CHR 393967)
- Parsonsia capsularis* s.s. (CHR 245232, 249218)
- P. heterophylla* (unc A) (CHR 245228)
- P. capsularis* × *P. heterophylla* (unc A) (CHR 245230-1)
- Passiflora tetrandra* (A) (CHR 245229, 249417) [*Tetrapathaea tetrandra*]
- Rubus cissoides* var. (a) (form c of Allan 1961; leaflets broader than in var. *cissoides*) (CHR 249169-70, 279360, 387540)
- R. schmidelioides* var. *subpauperatus* (CHR 249187, 279331, 365398, 387563)
- R. squarrosus* (CHR 245247, 279361)
- R. cissoides* × *R. schmidelioides* (unc B) (CHR 387564)
- R. cissoides* × *R. squarrosus* (unc A) (CHR 279362)
- R. schmidelioides* × *R. squarrosus* (unc B)
- Trigonon trigyne* (A - coastal) (CHR 249317)

LYCOPODS

- Lycopodium australianum* (unc A) (CHR 387757)
- L. fastigiatum* (unc B) (CHR 274847)
- L. scariosum* (unc B) (CHR 274846)
- L. varium* s.l. (incl. *L. billardierei* and *L. novae-zelandicum*) (unc A) (CHR 274766, 387759)
- L. volubile* (A) (CHR 249261, 311891)

FERNS

- Adiantum cunninghamii* (CHR 245250)
- Asplenium flabellifolium* agg. (CHR 249211)
- A. flaccidum* (A) (CHR 245234)
- A. gracillimum* (A) (CHR 249418, 279368, 387767) [*A. bulbiferum* in part]
- A. hookerianum* (CHR 249212, 249409, ~~279305-7~~)
- A. lyallii* (CHR 208564, 249250, 274862, 279374-5)
- A. oblongifolium* (A) (CHR 249419, 279348) [*A. lucidum*]
- A. richardii* (CHR 274852, 275223, 279270)
- A. terrestre* ssp. *terrestre* (CHR 249251, 274903, 279373) [*A. flaccidum* in part]
- A. sp.* (a) (*A. trichomanes* f. sp.) (CHR 274871, 279213)
- A. flaccidum* × *A. gracillimum* (unc A) (CHR 279369)
- A. gracillimum* × *A. hookerianum* (unc A) (CHR 279301-4)
- A. gracillimum* × *A. terrestre* (unc A) (CHR 279295)
- A. hookerianum* × *A. terrestre* (unc A)
- A. lyallii* × *A. oblongifolium* (unc A) (CHR 279349)
- A. lyallii* × *A. terrestre* (unc A) (CHR 279347)
- A. richardii* × *A. terrestre* (B - recorded from The Zoo by Brownsey 1977b) (CHR 308938, WELTU 12413)
- Azolla filiculoides* (unc A) (CHR 393936) [*A. rubra*]
- Blechnum chambersii* (CHR 274858) [*B. lanceolatum*]
- B. colensoi* (A) (CHR 274859) [*B. patersonii*]
- B. discolor* (A) (CHR 274771)
- B. filiforme* (A) (CHR 249406)
- B. fluviatile* agg. (A) (CHR 249397)
- B. minus* (CHR 274817, 311896) [*B. capense* in part]
- B. penna-marina* (CHR 249398)
- B. procerum* (syn. *Lomaria latifolia*) (CHR 275211) [*B. minus*]
- B. vulcanicum* (A) (CHR 249223)
- B. sp.* (a) (A) (*B. capense* agg.; lower pinnae reduced in length) (CHR 279356)
- B. sp.* (d) (A) (*B. capense* agg.; "The Green Bay Species" of Crookes 1963; lower pinnae not reduced in length) (CHR 245218, 245273, 311895)
- B. minus* × *B. sp.* (d) (unc A) (CHR 311897)
- B. penna-marina* × *B. sp.* (undetermined) (unc B - near The Zoo)
- Botrychium australe* (unc A) (CHR 387590)
- Cheilanthes distans* (unc A) (CHR 279192, 393944)
- C. sieberi* ssp. *sieberi* (unc A) (CHR 279191, 279300, 393945)
- Ctenopteris heterophylla* (CHR 249235, 387772) [*Grammitis heterophylla*]
- Cyathea dealbata* (A) (CHR 245267, 249233)
- C. medullaris* (unc A) (CHR 279183, 311870)
- C. smithii* (A) (CHR 279388)
- Cystopteris tasmanica* (CHR 274868) [*C. fragilis*]
- Dicksonia fibrosa* (unc A - Kekerengu Valley) (CHR 387592)
- D. squarrosa* (unc A - Kekerengu Valley) (CHR 279363)
- Grammitis billardierei* (CHR 365382, 387533, 387535, 387754)
- G. ciliata* (unc) (CHR 279197, ~~387534~~, 387771)
- G. magellanica* ssp. *nothofageti* (unc A) (CHR 249255) [*G. billardierei* in part]
- G. patagonica* (unc) (CHR 249254, 279336, 387788) [*G. ciliata* in part]
- G. poeppigiana* (unc A) (CHR 279336, 387789) [*G. pumila*]
- Histiopteris incisa* (A) (CHR 275224)
- Hymenophyllum bivalve* (unc A) (CHR 274793)
- H. cupressiforme* (unc A - Kekerengu Valley) (CHR 387559) [*H. revolutum* in part]
- H. demissum* (A) (CHR 274794)

< *Asplenium colensoi* (CHR 249212, 279306)

h ss / 279305

< *A. colensoi* × *A. hookerianum* (CHR 279307)

h incl.

h homilis

< *G. sp.* (c) (aff. *G. ciliata*) (CHR 387534)

- H. flabellatum* (unc A) (CHR 279389)
H. minimum (unc A) (CHR 279391, 387553)
H. multifidum (unc A) (CHR 274791)
H. peltatum (A) (CHR 249331, 279392)
H. pulcherrimum (A) (CHR 387768-9)
H. sanguinolentum agg. (unc A) (CHR 249256, 387557)
H. scabrum (A) (CHR 249257)
~~*H. sp. (a) (unc A) (CHR 249257)*~~ *H. villosum* (CHR 365375)
Hypolepis ambigua (A) (CHR 249248, 387760) [*H. tenuifolia* in part]
H. millefolium (unc) (CHR 274938)
H. rufobarbata (A) (CHR 274796) [*H. rugosula* in part]
Lastreopsis glabella (unc A) (CHR 249430) [*Ctenitis glabella*]
L. microsora ssp. *pentangularis* (unc A - Kekerengu Valley) (CHR 393940) [*Ctenitis decomposita*]
L. velutina (unc A) (CHR 249431, 393941) [*Ctenitis velutina*] *Leptopteris hymenophylloides* (A) (CHR 274780) [*Todea hymenophylloides*]
Ophioglossum coriaceum agg. (CHR 274897, 279152, 279266)
Paesia scaberula (A) (CHR 279390)
Pellaea rotundifolia (CHR 245249, 249241, 279325)
P. sp. (a) (unc A - Isolation Creek) (~~cf. *P. foliata*~~) (CHR 279326)
Phymatosorus diversifolius (CHR 249410) [*Phymatodes diversifolium*]
Pleurosorus ruifolius (unc A - Waima Gorge) (CHR 365304)
Pneumatopteris pennigera (A) (CHR 249258) [*Thelypteris pennigera*]
Polystichum richardii (CHR 245268)
P. vestitum (CHR 274770)
Pteridium esculentum (CHR 249171) [*P. aquilinum* var. *esculentum*]
Pteris tremula (unc A) (CHR 245222)
Pyrrosia elfeagnifolia (A) (CHR 249207) [*P. serpens*]

✓ (aff. *P. rotundifolia*)

✓ *pustulatus*

ORCHIDS

- Adenochilus gracilis* (unc A - Kekerengu Valley) (CHR 387554)
~~*Caladenia fentonata*~~ (unc A) (CHR 279172, 312923) (~~cf. *carnea* in part~~)
Chiloglottis cornuta (A) (CHR 249222)
Corybas macranthus (CHR 249300, 387550)
Corybas rivularis s.s. (CHR 274867, 387538, 387555) [*C. orbiculatus*]
C. trilobus s.s. (A) (CHR 274792)
Gastrodia cunninghamii (unc A) (CHR 365370)
Microtis oligantha (unc B - The Zoo) (CHR 365365)
M. unifolia (CHR 245216)
Prasophyllum colensoi (unc) (CHR 279149, 279201)
Pterostylis areolata (unc) (CHR 365310, 365319, 387549, 393933)
P. australis (unc) (CHR 365309, 393932)
P. banksii s.s. (CHR 249234, 249387, 279154, 387591)
P. foliata (unc A) (CHR 279150)
P. irsoniana (unc) (CHR 249249, 279355, 365321)
P. areolata × *P. australis* (unc A - near Whernside)
Thelymitra hatchii (unc A - near Whernside) (CHR 387528)
T. longifolia (CHR 249376)
~~*T. sp. (a) (unc A) (CHR 279151)*~~ (~~cf. *P. pauciflora*~~) (CHR 279151)

✓ *carnea* agg.

GRASSES

- ✓ *Austrofestuca littoralis* (unc A - coastal) (CHR 393965) [*Festuca littoralis*]
Chionochloa pallens var. (a) (unc A - Ben More) (vs broader than in var. *pallens*) (CHR 365378) [*Danthonia raoulii* in part]
C. sp. (a) (*C. flavescens* auct. South Island, non *C. flavescens* Zotov; lf blade green on abaxial surface, glaucous on adaxial surface, wide, strap-like, without midrib, or with faint midrib on abaxial surface only) (CHR 208563, 249400) [*Danthonia raoulii* in part]
Cortaderia richardii (CHR 275210)
Deyeuxia avenoides s.l. (incl. *D. avenoides* var. *brachyantha*) (CHR 249246)

✓ *Anemathle lessoniana* (unc A)

✓ ssp. *pilosa*

- D. billardierei* (A – coastal) (CHR 249313, 393947)
- D. youngii* s.l. (incl. *D. youngii* var. *petriei*) (unc B – Chalk Range) (CHR 274951)
- D. sp.* (a) (unc A – Waima River) (lf blade flat, up to 4 mm wide; spikelets 4–5 mm long; awn up to 7 mm) (CHR 252333, 387531, 387765)
- Dichelachne crinita* (CHR 274937, 387790)
- Echinopogon ovatus* (A)
- Elymus multiflorus* (unc A) (CHR 249290) [*Agropyron multiflorum*]
- E. narduroides* (unc B) (CHR 274763, 279248, 365320) [*Asperella gracilis*]
- E. sp.* (c) (aff. *E. rectisetus*; lf blade flat to rolled) (CHR 273420, 274761, 279228–9, 279257, 393942) [*Agropyrum scabrum* in part]
- E. sp.* (d) (lf blade setaceous) (CHR 249165, 275197, 279211, 279243, 279245, 279258, 279320, 312925, 387766, 393938) [*Agropyrum scabrum* in part]
- Festuca multinodis* (CHR 249182, 249291, 279218–9, 365386)
- F. novae-zelandiae* (CHR 363597)
- F. sp.* (a) (unc B – Dee Stream) (aff. *F. rubra*) (CHR 387527) [*F. rubra* in part]
- F. sp.* (c) (*F. mathewsii* sensu Connor 1968; plants tussock-forming, glaucous) [CHR 365374]
- Hierochloa redolens* (unc) (CHR 249332–3, 365377)
- Koeleria sp.* (b) (unc B – near Dee Stream) (*K. novozelandica* agg.; plants tufted; lvs up to 3mm wide, flat) [*K. kurtzii* in part]
- Lachnagrostis richardii* (A) (CHR 249276, 249372, 363565, 387751) [*Deyeuxia forsteri* var. *pilosa*]
- L. sp.* (a) (included in *L. filiformis*, as var. *semiglabra*, by Zotov 1965) (CHR 274864–5, 387752) [*Deyeuxia forsteri* var. *semi-glabra*]
- L. sp.* (b) (undetermined) (unc A – Waima River) (CHR 249162)
- Microlaena avenacea* (A) (CHR 275213)
- M. polynoda* (unc A) (CHR 245248, 393943)
- M. stipoides* (A) (CHR 249408)
- Poa acicularifolia* ssp. *acicularifolia* (CHR 208577, 249184, 249377, 274854, 365373, 387587)
- P. breviglumis* (unc A) (CHR 365385) [*P. imbecilla* var. *breviglumis*]
- P. cita* (CHR 249412) [*P. caespitosa*]
- P. colensoi* (CHR 249244)
- P. imbecilla* (CHR 245258, 249226, 249273, 274888–9, 279142, 279297, 279387, 279393)
- P. mathewsii* (A) (CHR 279296) [*P. imbecilla* var. *mathewsii*]
- Rytidosperma buechananii* (CHR 249160, 249166, 249328, 279208) [*Danthonia buechananii*]
- R. clavatum* (A) (CHR 279174) [*Danthonia pilosa* in part]
- R. gracile* (CHR 274775, 274830) [*Danthonia semiannularis* in part]
- R. maculatum* (unc A – coastal, near mouth of Mirza Creek) (CHR 393931)
- R. setifolium* (CHR 249189) [*Danthonia semiannularis* var. *setifolia*]
- R. unarede* (CHR 249330, 279244) [*Danthonia semiannularis* in part]
- Trisetum sp.* (a) (A) (plants up to 45 cm high; culms spreading at base, slender; panicles drooping; lf sheath usually glabrous, occasionally slightly hairy in upper part, with hairs up to 0.5 mm long; lf blade flat, up to 2.5 mm wide, margins smooth, usually with a few hairs near ligule) (CHR 249382, 279185) [*T. antarcticum* in part]
- T. sp.* (c) (plants up to 50 cm high; culms erect; panicles erect or slightly drooping; lf sheath glabrous in upper part, densely hairy in lower part, with hairs mostly <0.1 mm long; lf blade flat, up to 7 mm wide; margins scabrid, with some long hairs near ligule) (CHR 274759, 275205, 279220–2, 279242, 279246, 279319, 279321, 355040, 365305, 387778) [*T. antarcticum* in part]

1 ssp. (lvs filiform)

- T. sp. (d) (unc B – Mead Stream) (plants up to 40 cm high; culms erect; panicles erect or slightly drooping; lf sheath densely hairy, with hairs mostly <0.2 mm long; lf blade flat, up to 5 mm wide, margins with hairs c. 2 mm long) (CHR 279212, 312905, 313219) [*T. antarcticum* in part]
- T. sp. (e) (unc A – Isolation Creek) (plants up to 35 cm high; culms erect; panicles erect or slightly drooping; lf sheath glabrous; lf blade flat, up to 3 mm wide, margins minutely scabrid) (CHR 393970, 394313) [*T. antarcticum* in part]
- Zoysia minima* (unc A – coastal) (CHR 393935) [*Z. pungens* in part]

SEDGES

- Baumea rubiginosa* (unc A – coastal, near mouth of Waima River) (CHR 394416)
- Bolboschoenus caldwellii* (unc A – coastal) (CHR 274904, 393937) [*Scirpus caldwellii*]
- Carex breviculmis* (CHR 249185)
- C. buchananii* (unc A – Waima River) (CHR 249306, 249352)
- C. colensoi* (unc) (CHR 279247, 387779)
- C. dipsacea* var. *dipsacea* (unc A – Kekerengu River) (CHR 249420)
- C. dissita* s.s. (CHR 274812, 279232)
- C. flagellifera* (CHR 245219, 245271, 249227, 274875, 279260, 365404)
- C. flaviformis* (unc A – near mouth of Waima River) (CHR 274928)
- C. forsteri* (CHR 245214, 249228)
- C. gaudichaudiana* (B – The Zoo) (CHR 274764)
- C. geminata* s.s. (unc) (CHR 249324, 279148, 279180)
- C. goyenii* (unc A) (CHR 363596)
- C. lessoniana* (unc – The Zoo, Wharf Stream, and near Whemside) (CHR 274947, 279230–1, 365318)
- C. petriei* (unc B – Limburn Stream) (CHR 387578)
- C. pumila* (A – coastal) (CHR 249314)
- C. raoulii* (A) (CHR 245254)
- C. resectans* (unc A – Ben More) (CHR 387780)
- C. secta* s.s. (CHR 245225)
- C. sinclairii* (B – recorded from Dee Stream by Hamlin 1954 – WELT)
- C. solandri* (CHR 274811, 279233)
- C. virgata* (A) (CHR 249421)
- C. wakatipu* s.s. (two forms: a widely distributed one, shortly rhizomatous and tufted; and a second, noted at The Zoo only, strongly rhizomatous and forming a dense sward) (tufted form: CHR 208562, 249272, 275184, 279193, 279315–6, 312901–2, 363600, 365388; sward form: CHR 275182–3, 312904, 363578)
- Desmoschoenus spiralis* (A – coastal) (CHR 274906, 393939)
- Eleocharis acuta* (CHR 249298, 249355, 274769)
- E. gracilis* (unc) (CHR 274778)
- Gahnia pauciflora* (unc-A) (CHR 249379)
- Isolepis basilaris* (unc A – coastal, near mouth of Waima River) [*Scirpus basilaris*]
- I. cernua* (A – coastal) (CHR 274925) [*Scirpus cernuus*]
- I. nodosa* (A) (CHR 245204) [*Scirpus nodosus*]
- I. pottsii* (unc) (CHR 274787, 279237, 363566, 365324, 387522) [*Scirpus pottsii*]
- Schoenoplectus pungens* (A – coastal) (CHR 274923) [*Scirpus americanus*]
- S. validus* (unc A) (CHR 274902) [*Scirpus lacustris*]
- Schoenus apogon* s.l. (incl. *S. apogon* var. *caespitosus*) (unc A) (CHR 279147, 393953)
- S. pauciflorus* (~~slender form~~; see Edgar 1970, p.194) (CHR 249341, 393946)
- Uncinia clavata* (A) (CHR 274805)
- U. divaricata* (unc A – Ben More) (CHR 279256)
- U. ferruginea* (unc A) (CHR 249302–3)
- U. laxiflora* (CHR 249266, 249271, 249274, 249402, 275189–95, 387753, 387761)
- U. leptostachya* (CHR 249429)

1 s.s. (= "slender form" of

mp. 11

to p. 10 ←

- U. purpurata* s.l. (incl. *U. fuscovaginata* var. ~~*caespitosa*~~) (unc) (CHR 274831-2, 274844, 363572-3)
- U. rupestris* s.l. (incl. *U. angustifolia*) (CHR 249262, 274945-6, 313220, 387586)
- U. scabra* (A) (CHR 249203, 249229)
- U. silvestris* (~~syn.~~ *U. affinis*) (unc A) (CHR 387755)
- U. sinclairii* (unc B - The Zoo) (CHR 387518)
- U. uncinata* (CHR 249345)

incl.

RUSHES

- Juncus australis* (A) (CHR 249329, 249433, 249435)
- J. distegus* (A) (CHR 249401, 249437, 279177)
- J. gregiflorus* (CHR 249422)
- J. maritimus* var. *australiensis* (A-coastal) (CHR 274922)
- J. novae-zelandiae* (unc) (CHR 274878, 279311)
- J. pallidus* (A) (CHR 249361)
- J. pusillus* (unc B - The Zoo) (CHR 365317)
- J. sarophorus* (A) (CHR 249360)
- Luzula migrata* (CHR 249194, 274869, 279342, 279344, 363590, 365308, 365376) [*L. banksiana* var. *migrata*]
- L. picta* s.s. (CHR 245262, 249231, 279187, 311913-5)
- L. rufa* s.s. (unc B) (CHR 274877, 365301)
- L. subclavata* (unc A) (CHR 274776) [*L. picta* var. *pallida*]
- L. sp. (a)* (unc B) (CHR 274777, 279249-50, 365400) [*L. picta* var. *limosa*]
- L. migrata* × *L. rufa* (unc B)

MONOCOTYLEDONOUS HERBS OTHER THAN ORCHIDS,

GRASSES, SEDGES, AND RUSHES

- Arthropodium candidum* (CHR 245256, 249198)
- Astelia fragrans* (unc A) (CHR 274810)
- Dianella nigra* (unc A) (CHR 279384)
- Lemna* sp. (a) (*L. minor* auct. New Zealand) (CHR 274798)
- Libertia ixioides* (CHR 245207)
- Phormium cookianum* (CHR 245201, 249311)
- P. tenax* (A) (CHR 249316)
- P. cookianum* × *P. tenax* (unc A) (CHR 274929)
- Potamogeton cheesemanii* (unc A) (CHR 274900)
- Ruppia polycarpa* (unc A - coastal, near mouth of Waima River) (CHR 274901)
- Triglochin striatum* (unc A - coastal) (CHR 274927)
- Typha orientalis* (CHR 274803)

2

COMPOSITE HERBS

- Brachycome sinclairii* s.s. (CHR 274911, 279155, 365394)
- Brachyglottis lagopus* var. *lagopus* s.l. (incl. *B. saxifragoides*) (CHR 208569, 274920, 279273, 365302) [*Senecio lagopus* and *S. saxifragoides*]
- B. traversii* (collected from Ure River by W. Martin - WELT 517) [*Senecio traversii*]
- B. lagopus* × *B. monroi* (unc B - Mead Hill) (CHR 279275)
- Celmisia cockayneana* (unc A - Isolation Creek) (CHR 279313)
- C. gracilentata* (a) (unc B - Chalk Range) (plants tufted; lvs narrowly linear, with recurved margins, 7 × 0.25 to 15 × 0.4 cm) (CHR 365395) [*C. gracilenta* in part]
- C. monroi* var. *monroi* (CHR 249339, 274863, 387584, 387775)
- C. spectabilis* ssp. *spectabilis* (unc) (CHR 274845, 279340, 387786)
- C. sp. (b)* (aff. *C. gracilentata*; plants strongly rhizomatous, forming large patches of discrete tufts; lvs narrowly linear, 5-15 cm long) (CHR 274779)
- C. monroi* × *C. spectabilis* (unc A) (CHR 387787)
- Cotula coronopifolia* (A) (CHR 274908)
- Craspedia lanata* s.s. (unc A - Ben More) (CHR 282768, 394302)
- C. minor* var. *minor* s.l. (incl. *C. major*) (CHR 249201, 249260, 249299, 249394, 274866, 279216, 279224, 387558)

5

ssp

ssp

- C. *uniflora* var. (a) (unc A - coastal) (aff. var. *grandis*; evergreen; lvs elliptic-spathulate, green, both surfaces densely covered in very short glandular hairs, 0.05-0.6 mm long; lf margins white with cottony hairs; fls white)²³ (CHR 274913, 394303)
- C. sp. (a) (B - The Zoo) (described as *C. lanata* var. *elongata* by Allan 1961; summer-green; lvs elliptic-spathulate, white or greenish white, both surfaces ± clad in cottony hairs; fls usually white, occasionally very pale yellow) (CHR 365367-9)
- C. sp. (f)(B) (summer-green; lvs broadly elliptic-spathulate, white, greenish white, or grey-green; hair covering variable - each surface clad in either appressed cottony hairs or in dense, very short erect hairs; fls yellow) (CHR 274885-6, 279253-4, 365392, 387523-5)
- Gnaphalium audax* (CHR 245242, 249224, 387764)
- G. ensifer* (unc - Ben More and The Zoo) (CHR 365316) [*G. collinum* in part]
- G. gymnocephalum* (A) (CHR 249225) [*G. collinum* in part]
- G. involucreatum* (unc A) (CHR 249357)
- G. limosum* (CHR 249301) [*G. collinum* in part]
- G. polylepis* (unc - Waima River and The Zoo) (CHR 249157, 249304)
- G. sphaericum* (unc A) (CHR 275229) [*G. involucreatum* in part]
- G. traversii* (unc) (CHR 274781, 279200, 279298, 387774)
- Helichrysum bellidioides* s.s. (CHR 249349)
- H. filicaule* (CHR 274760)
- Lagenifera petiolata* s.s. (unc A - Ben More) (CHR 365306)
- L. pinnatifida* (unc B - The Zoo) (CHR 274799)
- L. pumila* (CHR 245217, 249308, 249344) [*Lagenophora pumila* var. *pumila*]
- L. strangulata* (CHR 279238) [*Lagenophora petiolata*]
- Leptinella dioica* ssp. *dioica* (unc A) (CHR 245215, 249283) [*Cotula dioica*]
- L. pusilla* (unc) (CHR 279146, 279209) [*Cotula perpusilla*]
- L. pyrethrifolia* agg. (CHR 249217) [*Cotula pyrethrifolia*]
- L. serrulata* (unc B - Chalk Range and near Whernside) (CHR 275204) [*Cotula perpusilla* in part]
- L. sp. (b)* (unc) (included in *L. squalida*, as ssp. *mediana*, by Lloyd & Webb 1987) (CHR 274773-4) [*Cotula squalida* in part]
- Microseris scapigera* (CHR 208568, 274815)
- Pseudognaphalium* sp. (a) (A) (*P. luteoalbum* agg.; lvs mostly linear-spathulate to linear, acute) (CHR 275230, 363582, 394411) [*Gnaphalium luteoalbum* in part]
- P. sp. (c)* (*P. luteoalbum* agg.; lvs mostly oblong-spathulate to narrowly oblong, rounded; involucreal bracts light brown) (CHR 249294, 249326, 249404, 274836, 312953, 312955-9, 363567, 363580-1, 365311-2, 394412, 394415) [*Gnaphalium luteoalbum* in part]
- P. sp. (d)* (unc B - The Zoo) (*P. luteoalbum* agg.; lvs mostly narrowly oblong to narrowly deltoid; involucreal bracts almost unpigmented) (CHR 363568, 365358) [*Gnaphalium luteoalbum* in part]
- Raoulia australis* s.s. (CHR 249219, 274934, 363588)
- R. glabra* (B) (CHR 274850)
- R. hookeri* s.s. (unc - Isolated Hill and Chalk Range) (CHR 279265, 387781)
- R. subsericea* (unc B) (CHR 274851)
- R. tenuicaulis* s.l. (incl. *R. tenuicaulis* var. *dimorpha* and *R. tenuicaulis* var. *pusilla*) (CHR 249152)
- R. sp. (a)* (A - coastal) (aff. *R. hookeri*; "closely related form" of Allan 1961, p. 706; "coastal form" of Ward 1982, p. 15) (CHR 245202, 274930, 279159, 393951, 393966)
- R. sp. (b)* (unc B - Chalk Range) (cf. *R. beaeverdii*; tips of involucreal bracts dark brown) (CHR 279255, 365397) [*R. hookeri* var. *apicinigra* in part]
- Senecio glaucophyllus* ssp. (a) (unc A - coastal) (plants prostrate or decumbent, or ascending through low shrubs) (CHR 279181)

h s.s

h *Helichrysum* sp. (a) (incl. *Helichrysum*)

h aff.

h aff.

h aff.

h agg.

h *beaeverdii*

- S. glaucophyllus* ssp. (b) (A - inland) (aff. ssp. *toa*; plants erect; stems sometimes woody at base; capitula larger than in ssp. *toa*, up to 2.8 cm diam.) (CHR 252317, 252365, 252367-71, 311869, 312099)
- S. glomeratus* (unc A) (CHR 394421) [*Erechtites arguta* and *E. quadridentata* var. *traversii*]
- S. hispidulus* (unc A) (CHR 245252, 249425) [*Erechtites scaberula* in part]
- S. minimus* (unc) (CHR 249369) [*Erechtites minima* var. *heterophylla* and *E. minima* var. *angustata*]
- S. quadridentatus* (A) (CHR 245244, 249148) [*Erechtites quadridentata*]
- S. wairauensis* (unc B) (CHR 274891) [*Erechtites wairauensis* and *E. wairauensis* var. *robusta*]
- Taraxacum magellanicum* ~~var. (incl. *T. zealandicum*)~~ (unc A - Ben More) (CHR 363593)
- Vitadinia australis* s.s. (unc - Dee Stream and coastal) (CHR 387573, 393954)
- V. sp.* (a) (aff. *V. australis*, lvs broader, and lvs and stems hairier than in *V. australis*) (CHR 208561, 274835, 279210, 279214, 387572)

agg. (two forms: a widely distributed one with broad lvs, and very hairy lvs and stems; and a second, noted only in Dee Stream and at the coast, with narrower lvs, and lvs and stems sparsely hairy) (form one: CHR 208561, 274835, 279210, 279214, 387572; form two: CHR 387573, 393954)

DICOTYLEDONOUS HERBS OTHER THAN COMPOSITES

- Acaena anserinifolia* s.s. (CHR 245253, 249243)
- A. caesiiglauca* (B) (CHR 275227) [*A. caesiiglauca* and *A. caesiiglauca* var. *pilosa*]
- A. dunicola* (unc B - Chalk Range) (CHR 274823, 274870, 358376)
- A. glabra* (unc B) (CHR 365396)
- A. fissistipula* (B - near Dee Stream) (CHR 387582)
- A. inermis* s.l. (incl. *A. microphylla* var. *robusta*) (CHR 274772, 274880-1, 279207, 387567, 393934)
- A. profundeincisa* (unc) (CHR 274842, 358377) [*A. anserinifolia* var. *sericeinitens* and *A. anserinifolia* var. *paucidens*]
- A. saccaticupula* (unc B - near Dee Stream) (CHR 387571)
- A. sp.* (a) (leaflets green, three to five distal distinctly larger than those lower on leaf) (CHR 249208, 279169, 387539)
- A. anserinifolia* x *A. inermis* (unc B) (CHR 274879)
- Aciphylla aurea* (CHR 249197, 274827, 279334, 387748-9)
- Aciphylla glaucescens* var. *glaucescens* (unc) (CHR 275220, 279333)
- A. subflabellata* (unc B - Chalk Range) (CHR 279280)
- Anisotome aromatica* (CHR 249390)
- A. filifolia* (CHR 249393, 274884)
- A. aromatica* x *A. filifolia* (unc A) (CHR 394409)
- Apium prostratum* ssp. (a) (A - coastal) (CHR 279143-4, 393972) [*A. australe*]
- A. sp.* (a) (unc A - coastal) (plants more slender than those of *A. prostratum* (CHR 394413) [*A. filiforme*]
- Cardamine* sp. (a) (off. *C. corymbosa*; both petalous and apetalous forms) (CHR 274892, 311807-8, 311810-1, 312934, 312985)
- C. sp.* (b) (A) (*C. debilis* agg.; "Long Style" of Pritchard 1957) (CHR 313031, 365361-3, 365383)
- C. sp.* (c) (*C. debilis* agg.; "Narrow Petal" of Pritchard 1957) (CHR 245255, 249275, 249414, 274795, 311893-4, 312960-5, 387552)
- C. sp.* (d) (A) (*C. debilis* agg.; "Glossy Leaf" of Pritchard 1957) (CHR 365360, 387551)
- C. sp.* (g) (A) (*C. debilis* agg.; plants up to 40 cm tall, entirely glabrous, or with a very few hairs on lf margins; stems branched, rounded in cross section; lvs slightly fleshy, 3-5-(7) foliolate; lfts variously shaped, terminal one us. 3-lobed, lateral us. narrower than terminal; fls up to 11 mm diam.; sepals subacute; petals obovate-oblong, up to 7.0 x 3.5 mm; siliques up to 3.5(4.0) cm long; style short, 1.0-1.5 mm long) (CHR 249263-5, 311892, 313029-30, 313032, 387770, 394311, 394349)
- C. sp.* (h) (*C. debilis* agg.; fls small or large, 3-10 mm diam.; capsules us. minutely hairy) (CHR 312936, 363591-2, 363594, 393959)
- C. sp.* or spp. (*C. debilis* agg.; there may be one or more additional species present)

juvenca

sp. (c) (aff. *A. glaucescens* but pinnae rigid)

- Centella uniflora* (unc) (CHR 279346)
- Cheesemania* sp. (a) (unc B - Chalk Range) (rosettes up to 12 cm diam.; lvs linear, glabrous, usually entire - occasionally producing a few small teeth in cultivation; fls small; siliques narrow, up to 35.0 x 1.3 mm) (CHR 34742, 274896, 279206, 312928)
- C. sp. (a)* (unc A - Ben More) (~~of *C. fastigiata*~~, lvs narrowly elliptic-spathulate, coarsely serrate; infl. not seen) (CHR 365389)
- Chenopodium glaucum* var. *ambiguum* (unc A - coastal) (CHR 274932, 393971) [*C. ambiguum*]
- Colobanthus acicularis* (unc B) (CHR 274822, 279379)
- C. apetalus* s.l. (incl. *C. apetalus* var. *alpinus*) (CHR 279252, 387782)
- C. muelleri* (unc A - coastal) (CHR 393952)
- C. strictus* (CHR 249178)
- Crassula tetramera* (CHR 249315, 387600) [*Tillaea sieberiana* in part]
- C. sieberiana* (CHR 249247) [*Tillaea sieberiana* in part]
- Daucus glochidiatus* (unc) (CHR 249279, 387545)
- Dichondra repens* var. (a) (CHR 249392)
- D. sp. (a)* (unc - Dee Stream, Mead Hill, Chalk Range, and coastal) (lvs 5-10 mm wide, emarginate, slightly fleshy, both surfaces initially covered with scattered, appressed hairs, becoming glabrous; fls 6-13 mm diam.; sepals < corolla lobes, between which they are often only just visible; corolla lobes 1.5-4 mm wide, rounded, creamy white, margins smooth, or irregularly lobed or toothed; peduncles up to 2.3 cm long, reflexed at fruiting stage) (CHR 279158, 279269, 387542)
- D. sp. (b)* (unc A) (*D. brevifolia* agg.; stems slender 0.5-1 mm diam.; lvs 5-13-(20) mm wide, very slightly emarginate, both surfaces covered with scattered hairs, erect on upper surface, appressed on lower surface; fls 4-5 mm diam; sepals = or > corolla lobes, between which they are conspicuous; corolla lobes c. 1 mm wide, subacute, very pale creamy white; peduncles up to 2.7 cm long, reflexed in fr) (CHR 249336, 279323-4)
- Disphyma australe* ssp. *australe* (unc A - coastal) (CHR 274933)
- Drosera peltata* ssp. *auriculata* (unc A) (CHR 279189) [*D. auriculata*]
- Einadia allanii* (unc - Mead Stream and coastal) (CHR 279157, 279279) [*Chenopodium allanii*]
- E. triandra* (unc A - coastal) (CHR 394414) [*Rhagodia triandra*]
- Epilobium alsinoides* s.s. (unc A) (CHR 387773) [*E. alsinoides* and *E. thymifolium*]
- E. atriplicifolium* s.s. (CHR 249343, 275216-7) [*E. novae-zelandiae*]
- E. billardiereanum* s.s. (unc A) (CHR 274924)
- E. brevipes* (unc B) (CHR 274837, 279226, 387585)
- E. brunnescens* s.s. (CHR 249239) [*E. pedunculare* var. *brunnescens*]
- E. chionanthum* (unc B - The Zoo) (CHR 274816, 365314)
- E. chlorifolium* (unc B - Limburn Stream) (CHR 387517, 387526)
- E. cinereum* (CHR 249149, 249424)
- E. elegans* (unc B - The Zoo) (CHR 365357)
- E. glabellum* s.s. (unc) (CHR 387520-1) [*E. glabellum* and *E. erubescens*]
- E. gracilipes* (unc) (CHR 279215, 279227, 279259) [*E. gracilipes* and *E. gracilipes* var. *concinnum*]
- E. hectorii* (recorded from Nidd Valley and Ure Gorge, by Martin 1938; also recorded from Nidd Valley by Raven and Raven 1976 - WELT) [*E. hectorii* and *E. simulans*]
- E. insulare* (CHR 249282, 279236)
- E. komarovianum* (A) (CHR 249296) [*E. nerteroides* and *E. nerteroides* var. *minimum*]
- E. linnaeoides* (unc A) (CHR 365381)
- E. macropus* (unc B - Limburn Stream and Nidd Valley) (CHR 387577)
- E. melanocaulon* (CHR 249232) [*E. melanocaulon*, *E. melanocaulon* var. *viride*, and *E. polyclonum*]
- E. microphyllum* (CHR 249220, 249297, 274838, 274921) [*E. microphyllum* and *E. microphyllum* var. *prostratum*]

f. fastigiata

- E. nerteroides* (CHR 249413) [*E. pedunculare* var. *viride*]
E. nummulariifolium (CHR 249415)
E. pictum (CHR 249277, 274843)
E. pubens (CHR 249213) [*E. pubens* and *E. pubens* var. *strictum*]
E. rostratum (B - recorded from Mead Gorge by Raven & Raven 1976 - WELT 41063) [*E. rostratum* and *E. rostratum* var. *pubens*]
E. rotundifolium (CHR 245266, 249416, 274941-2)
E. wilsonii (CHR 249147, 274914, 279223, 365359)
E. sp. (a) (included in *E. brunnescens*, as ssp. *minutiflorum*, by Raven & Engelhorn 1971) (CHR 249163, 249293) [*E. pedunculare* var. *minutiflorum*]
E. sp. (b) (unc - Ure River and Swale Gorge) (aff. *E. glabellum*; lvs broader than in *E. glabellum*, very glossy; capsules us. glabrous, rarely with erect non-glandular hairs) (CHR 387519, 387532; WELT 41094a, b, 41161, 41165a, b)
Euphrasia laingii s.l. (incl. *E. drucei*) (CHR 279261, 279341)
Galium perpusillum s.s. (unc B - The Zoo) (CHR 363569, 363571)
G. propinquum (CHR 249348, 249365, 249374)
G. trilobum (CHR 249269, 249347, 249365-6)
G. sp. (a) (aff. *G. perpusillum*; plants bright green or yellow-green, cushion or mat-forming in exposed sites, but straggling in sheltered sites, amongst loose rocks, or under shrubs; lvs elliptic to narrowly elliptic, 2-5 mm long, rounded to subacute; stipules distinctly narrower, subacute to acute; apical bristles 0-4(-7); fls scented, 4-4.5 mm diam., cream to very pale yellow; corolla tube 1-2 mm long, funnel-form; corolla lobes 4 (or 5), c. 2 x 0.7-1.0 mm, subacute) (CHR 249195, 274950, 279267-8, 363570, 387546, 387568)
Gentiana astonii (CHR 249199, 279272) { var. *astonii*
G. corymbifera (unc A - Ben More) (CHR 365390, 387776-7)
G. grisebachii s.l. (unc B - The Zoo) (CHR 365325)
Geranium microphyllum (CHR 249386) { sp. (unnamed; aff. G.
G. sessiliflorum var. *novae-zelandiae* (CHR 275226)
Geum sp. (a) (unc - Limburn Stream, Brian Boru, and Ben More) (*G. parviflorum* agg.; stock short; terminal leaflet about as long as broad; fls up to 13 mm diam.) (CHR 279338)
Gingidia montana (CHR 249338) [*Angelica montana*]
G. trifoliolata (unc A - Ben More) (CHR 279339, 363586-7) [*Angelica trifoliolata*]
Gonocarpus aggregatus (CHR 249325) [*Haloragis depressa*]
Haloragis erecta ssp. *erecta* (CHR 245224, 249368, 393964)
Hydrocotyle elongata (A) (CHR 249375)
H. heteromeria (unc A) (CHR 249346) [*H. americana*]
H. moschata (A) (CHR 249350, 279178)
H. novae-zeelandiae s.s. (CHR 249305, 274784)
H. sp. (a) (CHR 249278, 249342, 249403) [*H. novae-zeelandiae* var. *montana*]
Hypericum gramineum (unc A) (CHR 279153)
Lilaeopsis novae-zeelandiae (unc A) (CHR 249354, 249434, 273421) [*L. lacustris*, *L. novae-zeelandiae*, and *L. orbicularis*]
Limosella lineata (B - recorded from Dee Stream by Martin 1938, as *L. tenuifolia*, and collected from same area by B.C. Aston - WELT 60086)
Linum monogynum (CHR 245235, 249143, 279217)
Mentha cunninghamii (CHR 274800)
Montia fontana s.s. (CHR 274813)
Myosotis arnoldii (CHR 249183, 274887, 279294, 279329)
M. colensoi (unc - Ben More and Chalk Range) (CHR 363546; WELT 2697)
M. pygmaea s.s. (unc A - Isolated Hill) (CHR 295291) [*M. pygmaea* var. *pygmaea*]
M. sp. (a) (cf. *M. forsteri*) (unc A - Kekerengu Valley) (CHR 387529-30, 387556)
M. sp. (d) (*M. australis* agg.; *M. saxatilis* Petrie 1918, non *M. saxatilis* Pallas 1795; fls white) (CHR 208559, 249190, 274839, 387544)
Angelica anysii (unc B) [*Angelica anysii*]

- M. sp. (e) (unc) (M. australis agg.; fls yellow) (CHR 363574, 365323, 365380)*
- Myriophyllum propinquum (unc A)*
- M. triphyllum (unc A - Kekerengu Valley) (CHR 393955)*
[*M. elatinoides*]
- Nertera ciliata (unc) (CHR 274788)*
- N. depressa s.l. (incl. N. cunninghamii) (A) (CHR 208578, 249337, 274814)*
- N. setulosa (unc A) (CHR 279173)*
- N. sp. (a) (A) (aff. N. dichondrifolia but hairs present on both surfaces of leaf, straight, not hooked) (CHR 274789) [N. dichondrifolia in part]*
- Oreomyrrhis colensoi s.l. (incl. O. colensoi var hispida and O. colensoi var multifida) (A - Ben More) (CHR 279343)*
- O. kamosa (CHR 274893)*
- O. rigida (CHR 249179, 274883, 279225)*
- Oxalis exilis (CHR 249196, 249295) [O. corniculata in part]*
- O. magellanica (CHR 275212) [O. lactea]*
- Parahebe catarractae ssp. martinii (CHR 249340, 279133-5, 279137-8, 393949-50)*
- P. decora (CHR 387570)*
- P. lyallii (unc - Waima River and Dee Stream) (CHR 179332; WELT 41487)*
- Parietaria debilis (unc A) (CHR 245223, 249384)*
- Plantago raoulii (unc A) (lvs narrowly elliptic) (CHR 249310)*
- P. spathulata ssp. spathulata (A - coastal) (CHR 279145, 279156)*
- Potentilla anserinoides (B - The Zoo) (CHR 274801)*
- Pratia angulata (CHR 249371)*
- Ranunculus acaulis (unc A - coastal) (CHR 393962) [R. acaulis and R. petriei]*
- R. cheesemaniae ssp. cheesemaniae (B - The Zoo) (CHR 274948, 279299)*
- R. foliosus (incl. R. lappaceus var. villosus, and probably R. insertus and R. porrectus as well) (B - Dee and Limburn Streams) (CHR 387574)*
- R. glabrifolius (unc) (CHR 274783, 274802, 279234) [R. rivularis in part] [R. insignis (CHR 249186) [R. insignis, R. insignis var. glabratus, R. lobulatus, and R. monroi]*
- R. reflexus (CHR 249209, 274782, 365384) [R. hirtus in part]*
- R. sp. (c) (B) (described as R. lappaceus var. macrophyllum by Kirk 1899) (CHR 275208)*
- R. sp. (f) (unc B - The Zoo) (aff. R. foliosus; plants slender; fls apetalous; on short peduncles that elongate as fruit ripens) (CHR 274943, 365366)*
- Samolus repens var. repens (A - coastal) (CHR 274899)*
- Schizeilema nitens (unc) (CHR 274786)*
- S. pallidum (unc A - Ben More) (CHR 249177)*
- S. roughii (CHR 249176, 274872, 279286, 363589, 363599, 387548)*
- S. trifoliolatum (unc A) (CHR 245220-1)*
- Scleranthus brockiei (B) (CHR 208560, 274848)*
- S. uniflorus (B) (CHR 208579, 249193, 274849, 387783)*
- Selliera radicans (A - coastal) (CHR 249353)*
- Spergularia marginata (unc A - coastal) (CHR 279170) [S. marginata]*
- Stackhousia minima (unc B - The Zoo and Chalk Range) (CHR 274895, 279205)*
- Stellaria decipiens s.l. (incl. S. minuta and S. parviflora) (A) (CHR 249230)*
- S. gracilentata (unc B) (CHR 274840, 365303)*
- Urtica incisa (CHR 249385, 279262)*
- Viola cunninghamii (CHR 249202)*
- V. filicaulis (A) (CHR 274790)*
- Wahlenbergia albomarginata var. albomarginata s.l. (incl. W. brockiei, W. pygmaea var. laxa, and W. simpsonii) (CHR 249175, 249363, 274762, 274841, 279171, 279240-1, 365307, 394304)*
- W. colensoi (A) (CHR 245259-61, 249242, 249245, 274910, 279394)*
- W. matthewsii (CHR 249292, 249362)*
- W. sp. (a) (aff. W. rupestris) (A) (CHR 249268, 249373, 275231, 279396)*

85.

sp. (a) [P. catarractae ssp. martinii]

agg.

new line

royi

agg.
media

Urtica aspera (B) (CHR 4123, 322781)

ADVENTIVE PLANTS (217 SPECIES)

GYMNOSPERM TREES AND SHRUBS

Pinus radiata (unc)

DICOTYLEDONOUS TREES AND SHRUBS

Acer pseudoplatanus (unc A)
Buddleja davidii (A)
Chamaecytisus palmensis (A)
Cotoneaster simonsii (A – roadsides only)
Crataegus monogyna (unc)
Cytisus scoparius
Lavatera assurgentiflora (A)
Ligustrum vulgare (A – roadsides only)
Lupinus arboreus (A)
Lycium ferocissimum (A)
Malus domestica (A – roadsides only)
Phytolacca octandra (A)
Populus alba (A)
P. nigra 'Italica'
P. sp. (a) (undetermined) (A) (CHR 394417)23456
Prunus sp. (a) (undetermined) (A – roadsides only)
Ribes uva-crispa (B)
Rosa rubiginosa
Salix babylonica (A)
S. fragilis (A)
S. viminalis (A)
S. sp. (a) (undetermined) (A)
Sambucus nigra (B)
Teline monspessulana
Ulex europaeus

DICOTYLEDONOUS LIANES

Clematis vitalba
Hedera helix ssp. *helix* (A – roadsides only)
Senecio angulatus (A – roadsides only)
Vinca major

HORSETAILS

Equisetum arvense (A – Woodside Creek) (CHR 311917)

GRASSES

Agrostis capillaris
A. stolonifera (A)
Aira caryophyllea
Alopecurus aequalis (A)
A. pratensis (A)
Ammophila arenaria (A – coastal)
Anthoxanthum odoratum
Arrhenatherum elatius
Bromus diandrus (A)
B. hordeaceus
B. sterilis
B. tectorum (B)
B. willdenowii
Cynosurus cristatus (A)
C. echinatus (B)
Dactylis glomerata
Desmazeria rigida
Elymus rectisetus s.s. (CHR 249370, 274905, 279176)
Festuca arundinacea
F. nigrescens [F. *nigricans*]
Glyceria declinata (A)
Holcus lanatus
Hordeum marinum (A – coastal)
H. murinum
Lagurus ovatus (A – coastal)
Lolium perenne
Paspalum dilatatum (A)
Pennisetum macrourum (unc A)
Phleum pratense
Poa annua
P. pratensis
P. trivialis (A)
Rytidosperma caespitosum (B)
R. penicillatum (CHR 279175)
R. racemosum (A) (CHR 245257, 249146, 393948)

Vulpia bromoides (A)
V. myuros

SEDGES

Carex divulsa (B) (CHR 275195)
C. muricata (A) (CHR 245226, 249432)

RUSHES

Juncus articulatus
J. bufonius
J. effusus
J. tenuis (A)

MONOCOTYLEDONOUS HERBS OTHER THAN GRASSES,

SEDGES, RUSHES

Iris foetidissima (A)
Potamogeton crispus (A)

COMPOSITE HERBS

Achillea millefolium
Anthemis cotula (A)
Arctium sp. (a) (undetermined) (A)
Carduus tenuiflorus
Centipeda cunninghamii (unc A) (CHR 249356)
Cirsium arvense
C. vulgare
Conyza albida
C. bilbaoana (A)
Crepis capillaris
C. vesicaria ssp. *taraxacifolia*
Hieracium lepidulum [*Hieracium* "lachenalii"]
H. pilosella
H. praealtum
Hypochoeris radicata
Lactuca serriola (B)
Lapsana communis
Leontodon taraxacoides
Leucanthemum vulgare [*Chrysanthemum leucanthemum*]
Matricaria discoidea
Mycelis muralis
Picris echioides (A)
Senecio jacobaea
Sonchus asper
S. oleraceus
Taraxacum officinale s.l.
Tragopogon porrifolius (A)
Vittadinia gracilis (unc B) [*V. triloba*]

DICOTYLEDONOUS HERBS OTHER THAN COMPOSITES

Acaena agnipila
A. novae-zelandiae (A) (CHR 249318)
Alyssum alyssoides (B)
Anagallis arvensis
Anthriscus caucalis
Antirrhinum orontium (A – coastal)
Aphanes arvense
Arenaria serpyllifolia
Atriplex prostrata (A – coastal)
Callitriche stagnalis (A)
Capsella bursa-pastoris
Carpobrotus edulis (A – coastal)
Centaurium erythraea
Cerastium arvense (B)
C. fontanum ssp. *vulgare*
C. glomeratum
Chenopodium album agg.
Conium maculatum (CHR 394420)
Coronopus squamatus (A)
Daucus carota
Dianthus armeria (B)
Digitalis purpurea
Echium vulgare
Epilobium ciliatum (CHR 365315)
E. ciliatum × *E. chionanthum* (unc B – The Zoo) (CHR 365313)
Erodium cicutarium
E. moschatum (A)

- Erophila verna* (B)
- Euphorbia peplus* (A)
- Foeniculum vulgare*
- Galium aparine*
- G. divaricatum* (B)
- Geranium dissectum*
- G. molle*
- Glaucium flavum* (A – coastal)
- Gypsophila australis* (B)
- Hypericum perforatum* (B)
- Lathyrus latifolius* (A)
- Lepidium pseudotasmanicum* (A)
- Linum bienne* (A)
- L. catharticum*
- Malva nicaeensis* (A)
- M. sylvestris* (B) (CHR 394418)
- Marrubium vulgare*
- Medicago arabica* (A)
- M. lupulina*
- M. polymorpha* (A)
- M. sativa*
- Melilotus indica* (A)
- Mentha spicata* (A)
- M. sp. or hybrid* (a) (undetermined) (A)
- Mimulus guttatus*
- M. moschatus*
- Myosotis arvensis*
- M. discolor* (CHR 208581, 249192)
- M. laxa* ssp. *caespitosa*
- Nasturtium microphyllum*
- N. officinale*
- Navarretia squarrosa*
- Nepeta cataria* (B)
- Orobanche minor*
- Oxalis corniculata* (B)
- Parentucellia viscosa*
- Pastinaca sativa*
- Pelargonium inodorum* (unc A) (CHR 279184)
- P. peltatum* (A – coastal roadside only)
- Petroselinum crispum* (A)
- Plantago coronopus* (A)
- P. lanceolata*
- P. major*
- Polycarpon tetraphyllum*
- Polygonum aviculare* agg.
- Prunella vulgaris*
- Ranunculus repens*
- R. sceleratus*
- R. (sp. a) (subgenus Batrachium)* (A)
- Reseda luteola*
- Rumex acetosella*
- R. brownii* (A)
- R. crispus*
- R. obtusifolius* (A)
- R. pulcher* (A)
- Sagina procumbens*
- Salvia verbenaca* (B)
- Sedum acre*
- Sherardia arvensis*
- Silene gallica*
- Sisymbrium officinale*
- Solanum americanum* (A) [*S. nodiflorum*]
- S. nigrum*
- Spergula arvensis* (A)
- Spergularia rubra* (B)
- Stellaria media* (A)
- Torilis nodosa* (B)
- Tradescantia fluminensis* (A)
- Trifolium arvense*
- T. campestre* (A)
- T. dubium*
- T. fragiferum* (A)
- T. glomeratum*
- T. ornithopodioides* (A – coastal)
- T. pratense*

(*trichophyllum*)

T. repens
T. striatum
T. subterraneum
Urtica urens (A)
Verbascum creticum (A)
V. thapsus
V. virgatum
Verberna sp. (a) (undetermined) (A)
Veronica anagallis-aquatica
V. arvensis
Vicia hirsuta
V. sativa
V. sp. (a) (undetermined) (A)
Wahlenbergia marginata (CHR 279190)

RECORDS NOT ACCEPTED

Carmichaelia monroi (Martin 1938). The plants referred to undoubtedly belong to the subsequently named *C. astonii*.

Notospartium torulosum (Aston 1916). The plants referred to are here placed in *N. carmichaeliae*.

Olearia coriacea × *O. paniculata* (?) (Allan 1961, based on *O. paniculata* var. *viscosa* – type loc. Ure River). The type, CHR 48031, may be a variant of *O. paniculata*.

Senecio glaucophyllus ssp. *toa* (Ornduff 1960, as *S. glaucophyllus* ssp. *raoulii*). The plants referred to are here placed in a separate subspecies (ssp. (b)).

Epilobium atriplicifolium × *E. brevipes* (?) (Raven & Raven 1976, p. 175, as *E. alsinoides* ssp. *atriplicifolium* × *E. brevipes*?). The plants referred to are here considered to belong to an unnamed species (*E.* sp. (c)).

Myosotis macrantha (Martin 1932). The plants referred to undoubtedly belong to the subsequently named *M. arnoldii*.

In addition Martin's (1932) records of *Lophomyrtus bullata* (as *Myrtus bullatus*) and *Plagianthus regius* (as *P. betulinus*) from Woodside Gorge may have been in error; the species are not otherwise known from Marlborough south of the Wairau Valley.

Martin's collection of *Brachyglottis traversii* from the Ure River (WELT 517) is the only one made south of the Wairau Valley. The presence in the area of this otherwise western species needs to be confirmed.

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