

TIHIA FIELD TRIP

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On a previous Rotorua Botanical Society day trip to Tihia (March 2002) the wetlands seen to the north of the summit towards Kakaramea seemed to deserve further attention. As a result, an overnight trip was planned for 2003 (postponed because of bad weather that year) and finally accomplished on 14-15 March 2004. The roundup for the trip started from Tauranga, picking up Paul Cashmore, John Hobbs and Chris Ecroyd in Rotorua and Steve Deverell from DOC Turangi (with several changes of vehicle).

The climb to the summit of Tihia, although short, was burdened by laden packs and so little attention was given to the plants. Initially the track passes through podocarp forest dominated by rimu (*Dacrydium cupressinum*), miro (*Prumnopitys ferruginea*), maire (*Nestegis lanceolata*) kamahi (*Weinmannia racemosa*), and broadleaf (*Griselinia littoralis*) overhung by *Coprosma tenuifolia*, pepperwood (*Pseudowintera colorata*) and stinkwood (*C. foetidissima*). Surprisingly, as the track reached a ridge the podocarps were replaced by red beech (*Nothofagus fusca*) and later at the bush edge by mountain beech (*N. solandri* var. *cliffortioides*) and manuka (*Leptospermum scoparium*) shrublands.

The sudden transition to manuka shrubland at about 1000 m seems the result of relatively recent volcanic activity, perhaps the 1945 Ruapehu eruption. On the ridge plants were scarcely more than a metre high but down slope height rapidly increased to over 2 m tall (as we were to find shortly). On the ridge we paused for lunch and admired the view. This gave opportunity to see a few more species including snowberry (*Gaultheria antipoda*) and several *Gaultheria* hybrids, *Coriaria pteridoides*, flax (*Phormium cookianum*), *Celmisia spectabilis*, *Ourisia macrophylla*, *Poa anceps*, *Euphrasia cuneata* and small herbs such as *Raoulia albosericea*, *Gonocarpus montanus* and *Wahlenbergia pygmaea*.

Approaching the summit of Tihia one seedling each of grey willow (*Salix cinerea*) and Douglas fir (*Pseudotsuga menziesii*) were found and pulled out. At the summit, gorse (*Ulex europaeus*), attacked on the last trip, was sought out but not relocated. As we tried to plot a route down, Chris informed us that DOC had run summer program trips across to Kakaramea and so there should be a track down to the craters below. Wisely Steve turned back. An executive decision was made and we headed down a slip after adding *Pimelea prostrata* and *Helichrysum filicaule* to the list. Soon we were forcing our way through *Olearia nummulariifolia*, *Brachyglottis bidwillii*, *Coprosma "tayloriae"* and manuka, but as the manuka became taller (now over 3 m tall) the route became easier. Here, dead stalks of *Caladenia chlorostyla* were still evident. Finally we broke out through *Dracophyllum subulatum* on to a red tussock (*Chionochloa rubra*) flat half way down. An odd gorse plant occupied most of the group while a route down to the old crater floor was plotted down some slips. At the end of the first run of slips we stumbled on the old track, now heavily overgrown but cut through kamahi (*Weinmannia racemosa*)-broadleaf (*Griselinia littoralis*) scrub. It lead out to a wide frost flat covered by heather (*Calluna vulgaris*), strangely, a plant not included in Tony Druce's lists that we had (two different versions 1972, 1988) and *Gleichenia dicarpa* (also not on the list). Here, we set up camp near the top of a "gorge" amongst the heather.

With time to spare before dark, we set off up the flat skirting the stream which spread out into a broad swamp with a few ponds as the valley widened out. These wet areas were dominated by *Lepidosperma australe* and mosses with patches of comb sedge (*Oreobolus pectinatus*), *Carpha alpina*, lots of dead stalks of *Thelymitra cyanea* (easily identified by the wizened column arms), pygmy pine (*Lepidothamnus laxifolius*) and *Gonocarpus aggregatus*. At the head of the flat the inlet stream reappeared winding through red tussock (*Chionochloa rubra*) and containing *Potamogeton suboblongus*. As this was followed up *Acaena microphylla*, sweet scented holly grass (*Hierochloe redolens*), and *Aciphylla "Volcanic Plateau"* (like *A. squarrosa*) provided interest. The return down the other side of the flat added *Drosera pygmaea*.

Next morning we followed down the stream through low manuka and *D. subulatum* scrub to a lower crater level and more wetlands at the stream junction. Here *Microtis oligantha* was abundant. From there, we headed up around three sets of wetlands in other former craters, passing a patch of *Pterostylis patens* on the way up the initial "gorge". At the middle crater wetland we espied a few patches of *Empodisma minus* and *Eleocharis sphacelata* which we had long been expecting to see. The head of the last crater (still a frost flat) contained an ideal bush camp spot on the edge of a cedar (*Libocedrus bidwillii*) and pink pine (*Halocarpus biformis*) stand and provided quite a few new plants including *Oxalis magellanica* alongside a temporary stream and *Botrychium biforme* in the grass at the forest edge. Further out, in the short tussock grassland, *Rytidosperma viride*, *Stackhousia minima* and *Hieracium pilosella* were added.

Then, at the largest tarn, we settled under some bog pine (*Halocarpus bidwillii*) for lunch and contemplated our finds. It was clear that the manuka shrubland had extended and grown considerably since the track was cut prior to 1987 and used for Summer Program trips. Thus some of our finds were due to landscape and ecological changes rather than missed by the eagle eyes of earlier visitors. Others such as heather, Douglas fir, grey willow and gorse with their low numbers yet are unwelcome new colonisers.

Once more, we found the old track and returned over the ridge to pack up camp. Then came a long slog back to the summit of Tihia, in part on the track we had discovered, and trying a new route to rocks north of the summit, hoping forlornly to find the old track. Nothing new was discovered during this heave uphill to the open summit of *Celmisia* herbfield. Here *Coprosma* "oreophila" and hybrids with *C.* "tayloriae" were common in the fringing shrubland. Finally, it was a welcome descent on the track to the waiting vehicle - thanks to Steve Deverell of DOC Turangi.



RBS botanists camping in the *Calluna* on the Tihia field trip.

TIHIA VASCULAR PLANT SPECIES LIST

(based on that by Tony Druce 1972; 1988 with additions = @)

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| <i>Acaena anserinifolia</i> agg (<i>A. pusilla</i> ; <i>A. viridior</i>) | Bidibid |
| <i>Acaena microphylla</i> | Red mountain bidibid |
| * <i>Achillea millefolium</i> | Yarrow |
| <i>Aciphylla</i> "Volcanic Plateau" aff <i>A. squarrosa</i> (J. Dawson) | |
| * <i>Agrostis capillaris</i> (<i>A. tenuis</i>) | Browntop |
| <i>Agrostis muscosa</i> | Pincushion grass |
| <i>Agrostis personata</i> (<i>A. cf. perenans</i> ; <i>A. parviflora</i> ; <i>A. "cf. canina"</i>) | |
| * <i>Aira caryophyllea</i> | Silvery hair grass |
| <i>Alseuosmia pusilla</i> | Karapapa; mountain honeysuckle |
| <i>Anaphalioides alpina</i> (<i>Anaphalis "bellidioides large"</i> ; <i>Helichrysum</i>) | |
| <i>Anaphalioides bellidioides</i> ss (<i>Helichrysum</i>) | Everlasting daisy |
| <i>Androstoma empetrifolia</i> (<i>Cyathodes</i> ; <i>Styphelia taxifolia</i>) | Mountain mikimiki; bog mingimingi |
| <i>Anisotome aromatica</i> ss (many vars and forms) | Kopoti |
| * <i>Anthoxanthum odoratum</i> | Sweet vernal |
| <i>Aporostylis bifolia</i> | Odd-leaved orchid |
| <i>Aristotelia fruticosa</i> | Shrubby wineberry |
| <i>Aristotelia serrata</i> | Wineberry; makomako |
| <i>Asplenium bulbiferum</i> | Hen and chickens fern; moku |
| <i>Asplenium flaccidum</i> ss | Hanging spleenwort; makawe |
| <i>Asplenium hookerianum</i> | Lacey spleenwort |
| <i>Asplenium polyodon</i> (<i>A. falcatum</i>) | Sickle spleenwort; petako |
| <i>Astelia nervosa</i> | |
| <i>Astelia fragrans</i> | Bushflax; kakaha |
| @ <i>Baumea rubiginosa</i> | |
| <i>Blechnum chambersii</i> (<i>B. lanceolatum</i>) | Nini; lance fern |
| <i>Blechnum colensoi</i> (<i>B. patersonii</i>) | Peretao; paretao |
| <i>Blechnum discolor</i> | Crown fern; piupiu; petipeti |
| <i>Blechnum fluviatile</i> | Kiwakiwa; kiwikiwi |
| <i>Blechnum membranaceum</i> | |
| <i>Blechnum montanum</i> (pp <i>B. capense</i> ; <i>B. "mountain"</i>) | Mountain kiokio |
| <i>Blechnum montanum</i> x <i>B. novae-zelandiae</i> | |
| <i>Blechnum novae-zelandiae</i> f. Swamp form | Swamp kiokio |
| <i>Blechnum penna-marina</i> var. <i>alpina</i> | Alpine blechnum |
| <i>Blechnum procerum</i> (<i>B. minus</i> of V1) | Kiokio; small kiokio |
| <i>Blechnum vulcanicum</i> | |

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| <i>Botrychium australe</i> | Coarse parsley fern |
| <i>Brachyglottis bidwillii</i> (<i>Senecio</i>) | Rock slide tree daisy |
| <i>Brachyglottis repanda</i> | Rangiora |
| @ <i>Caladenia chlorostyla</i> (<i>Petalochilus</i> , <i>C.</i> "green column") | |
| *@ <i>Calluna vulgaris</i> (<i>Culluna</i> ; in error) | Heather; ling |
| <i>Cardamine</i> "Long Style" (of Pritchard 1957; <i>C. debilis</i> agg) | |
| <i>Carex breviculmis</i> | |
| <i>Carex comans</i> | |
| <i>Carex coriacea</i> | Cutty grass; toetoe rautahi |
| <i>Carex dipsacea</i> | |
| <i>Carex dissita</i> | |
| <i>Carex echinata</i> (<i>C. stellulata</i> var. <i>australis</i>) | Star sedge |
| <i>Carex maorica</i> (<i>C. pseudo-cyperus</i> auct.) | |
| <i>Carex rubicunda</i> | |
| <i>Carex sinclairii</i> | |
| <i>Carex solandri</i> | |
| <i>Carpha alpina</i> | |
| <i>Carpodetus serratus</i> | Putaputaweta; marbleleaf |
| <i>Celmisia</i> "rhizomatous" (aff <i>C. gracilentia</i>) | |
| <i>Celmisia glandulosa</i> | Downy daisy |
| <i>Celmisia gracilentia</i> (<i>C. adamsii</i> var. <i>rugosula</i> ; <i>C. majus</i> var. <i>brevis</i>) | Dainty daisy |
| <i>Celmisia gracilentia</i> x <i>C. spectabilis</i> | |
| <i>Celmisia spectabilis</i> | Cotton plant |
| * <i>Centaureum erythraea</i> (<i>C. umbellatum</i>) | Centuary |
| <i>Centella uniflora</i> | |
| @ <i>Centrolepis ciliata</i> | |
| *@ <i>Cerastium fontanum</i> (<i>C. triviale</i>) | Mouse-eared chickweed |
| <i>Chionochloa rubra</i> (<i>Danthonia raoulii</i> var.) | Red tussock |
| * <i>Cirsium arvense</i> | Californian thistle |
| * <i>Cirsium vulgare</i> (<i>C. lanceolatum</i>) | Scotch thistle |
| @ <i>Clematis paniculata</i> | Clematis; puawhananga |
| <i>Collospermum microspermum</i> | |
| * <i>Conyza albida</i> (<i>C. floribunda</i> ; <i>C. canadensis</i> auct.; <i>Erigeron</i>) | Broad-leaved fleabane |
| <i>Coprosma</i> "oreophila" (<i>C. cheesemanii</i> (o)) | |
| <i>Coprosma</i> "tayloriae" (<i>C. parviflora</i> (t)) | |
| <i>Coprosma cheesemanii</i> | Sprawling coprosma |
| <i>Coprosma cunninghamii</i> X <i>C. robusta</i> (= <i>C. cunninghamii</i>) | |
| <i>Coprosma foetidissima</i> | Stinkwood; hupiro |
| <i>Coprosma grandifolia</i> (<i>C. australis</i>) | Raurekau; kanono; mamono |
| <i>Coprosma lucida</i> | Karamu; shining karamu |
| <i>Coprosma microcarpa</i> | Small seeded coprosma |
| <i>Coprosma perpusilla</i> (<i>C. pumila</i>) | Creeping coprosma |
| <i>Coprosma pseudocuneata</i> | Alpine coprosma |

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| <i>Coprosma rigida</i> | |
| <i>Coprosma robusta</i> | Karamu |
| <i>Coprosma robusta</i> x <i>C. tenuifolia</i> | |
| <i>Coprosma rugosa</i> | Needle-leaved coprosma |
| <i>Coprosma tenuifolia</i> | Wavy-leaved coprosma |
| <i>Cordyline australis</i> | Cabbage tree; ti-kouka |
| <i>Cordyline australis</i> x <i>C. banksii</i> | |
| <i>Cordyline banksii</i> | Forest cabbage tree; ti ngahere |
| <i>Cordyline indivisa</i> | Toi; broad-leaved cabbage tree |
| <i>Coriaria arborea</i> | Tree tutu |
| <i>Coriaria arborea</i> x <i>C. pteridoides</i> | |
| <i>Coriaria pteridoides</i> | Mountain tutu |
| <i>Cortaderia fulvida</i> (<i>Arundo</i>) | Kakaho; toetoe |
| <i>Corybas trilobus</i> (<i>Nematoceras</i>) | Spider orchid |
| <i>Craspedia minor</i> agg (<i>C. major</i> ; <i>C. uniflora</i> var <i>major</i>) | |
| <i>Craspedia uniflora</i> many entities - status unknown | |
| * <i>Crepis capillaris</i> | Hawkesbeard |
| @ <i>Ctenopteris heterophylla</i> (<i>Grammitis</i>) | |
| <i>Dacrycarpus dacrydioides</i> (<i>Podocarpus</i>) | Kahikatea, white pine |
| <i>Dacrydium cupressinum</i> | Rimu, red pine |
| <i>Deyeuxia</i> "Volcanic Plateau <i>quadriseta</i> " | |
| <i>Deyeuxia avenoides</i> agg (var. <i>brachyantha</i>) | Mountain oatgrass |
| <i>Dichelachne crinita</i> | Long-hair plume grass |
| <i>Dichondra</i> "Volcanic Plateau" (aff <i>D. brevifoila</i>) | |
| <i>Dracophyllum longifolium</i> var. <i>filifolium</i> (<i>D. filifolium</i>) | |
| <i>Dracophyllum longifolium</i> x <i>D. subulatum</i> | |
| <i>Dracophyllum recurvum</i> | Curved-leaved grass tree |
| <i>Dracophyllum subulatum</i> | Monoao |
| <i>Drosera arcturi</i> | Wahu; sundew |
| <i>Drosera binata</i> | Scented sundew |
| @ <i>Drosera pygmaea</i> | |
| <i>Drosera spathulata</i> | Sundew |
| <i>Earina autumnalis</i> | Easter orchid; raupeka |
| <i>Earina mucronata</i> | Spring orchid; <i>peka-a-waka</i> |
| <i>Elaeocarpus dentatus</i> | Hinau |
| <i>Elaeocarpus hookerianus</i> | Pokaka |
| <i>Eleocharis gracilis</i> | |
| <i>Eleocharis sphacelata</i> | |
| <i>Empodisma minus</i> (<i>Calorophus</i> ; <i>Hypolaena lateriflora</i>) | |
| <i>Epacris alpina</i> | |
| <i>Epilobium alsinoides</i> agg (<i>E. thymifolium</i>) | |

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| * <i>Epilobium ciliatum</i> (<i>E. obscurum</i> , <i>E. erectum</i> ; <i>E. adenocaulon</i>) | Tall willow-herb |
| <i>Epilobium cinereum</i> (<i>E. billardiereanum</i> ssp <i>cinereum</i>) | |
| <i>Epilobium cockayneanum</i> (<i>E. alsinoides</i> ssp <i>atriplicifolium</i>) | |
| <i>Epilobium komarovianum</i> (<i>E. inornatum</i>) | |
| <i>Epilobium nummulariifolium</i> ss (corr orthog) | Creeping willow-herb |
| <i>Epilobium tenuipes</i> (<i>E. alsinoides</i> ssp <i>tenuipes</i>) | |
| <i>Euchiton audax</i> (<i>Gnaphalium</i> , pp <i>G. collinum</i>) | |
| <i>Euchiton delicatus</i> (<i>Gnaphalium</i>) | cudweed |
| <i>Euchiton paludosus</i> (<i>Gnaphalium</i> , <i>G. "narrow green"</i>) | |
| <i>Euchiton sphaericus</i> (<i>Gnaphalium</i> , pp <i>G. involucreatum</i>) | Japanese cudweed |
| <i>Euchiton traversii</i> (<i>Gnaphalium</i>) | |
| <i>Euphrasia cuneata</i> | Tutumako; NZ eyebright |
| @ <i>Festuca novae-zelandiae</i> | Hard tussock |
| <i>Forstera bidwillii</i> | Leafy forstera |
| * <i>Fragaria vesca</i> | Mountain strawberry |
| <i>Fuchsia excorticata</i> | Fuchsia; kotukutuku |
| <i>Gabnia pauciflora</i> | |
| <i>Gabnia procera</i> | Takahikahi; tall tufted sedge |
| * <i>Galium palustre</i> | Marsh bedstraw |
| <i>Galium perpusillum</i> ss (<i>Asperula</i>) | Bedstraw |
| <i>Gaultheria "novae-zelandiae"</i> (<i>G. depressa</i> var.) | Mountain snowberry |
| <i>Gaultheria "novae-zelandiae"</i> x <i>G. macrostigma</i> | |
| <i>Gaultheria antipoda</i> | Snowberry; tawiniwini |
| <i>Gaultheria antipoda</i> x <i>G. novae-zelandiae</i> | |
| <i>Gaultheria antipoda</i> x <i>G. paniculata</i> | |
| <i>Gaultheria colensoi</i> | Northern snowberry |
| <i>Gaultheria colensoi</i> x <i>G. "novae-zelandiae"</i> | |
| <i>Geniostoma rupestre</i> var. <i>ligustrifolium</i> | Hangehange; privet |
| <i>Genoplesium nudum</i> (<i>Corunastylis</i> , <i>Prasophyllum</i>) | |
| <i>Gentiana grisebachii</i> | Marsh gentian |
| <i>Geranium microphyllum</i> | Small-leaved crane's bill |
| <i>Geranium potentilloides</i> (<i>G. microphyllum</i> var. <i>obtusatum</i>) | |
| <i>Geranium sessiliflorum</i> ssp. <i>novae-zelandiae</i> | |
| @ <i>Gleichenia dicarpa</i> (<i>G. circinata</i>) | Waewaekaka; tangle fern |
| <i>Gonocarpus aggregatus</i> (<i>Haloragis depressa</i> var. <i>aggregatus</i>) | |
| <i>Gonocarpus micranthus</i> (<i>Haloragis micrantha</i>) | |
| <i>Grammitis billardierei</i> | Common strap fern |
| <i>Grammitis magellanica</i> ssp. <i>nothofagetti</i> (pp <i>G. billardierei</i>) | |
| <i>Griselinia littoralis</i> | Broadleaf; kapuka |
| <i>Halocarpus bidwillii</i> (<i>Dacrydium</i>) | Bog pine; mountain pine |
| <i>Hebe odora</i> (<i>Leonobebe</i>) | Leathery-leaved mountain hebe |
| <i>Hebe stricta</i> ss | Koromiko |

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| <i>Hebe stricta</i> x <i>H. venustula</i> | |
| <i>Hebe tetragona</i> agg (<i>Leonobebe</i>) | Dwarf whipcord |
| <i>Hebe venustula</i> agg (<i>H. brachysiphon</i>) | |
| @ <i>Helichrysum filicaule</i> | Slender everlasting |
| <i>Herpolirion novae-zelandiae</i> | Sky lily; grass lily |
| *@ <i>Hieracium pilosella</i> (<i>Pilosella officinarum</i>) | Mouse-eared hawkweed |
| <i>Hierochloa redolens</i> (<i>Holcus</i>) | Sweet-scented holly grass |
| <i>Histiopteris incisa</i> | Water fern |
| * <i>Holcus lanatus</i> | Yorkshire fog |
| <i>Huperzia australiana</i> (<i>Lycopodium australianum</i>) | fir clubmoss; alpine clubmoss |
| <i>Huperzia varia</i> (<i>Lycopodium varium</i> agg) | Hanging clubmoss; iwituna |
| <i>Hydrocotyle heteromeria</i> (<i>H. americana</i> var.) | Wax weed |
| <i>Hydrocotyle microphylla</i> | Hydrocotyle |
| <i>Hydrocotyle sulcata</i> (pp <i>H. tripartita</i>) | |
| <i>Hymenophyllum demissum</i> (<i>Mecodium</i>) | Piripiri; irirangi |
| <i>Hymenophyllum dilatatum</i> (<i>Mecodium</i>) | Lop-sided filmy fern |
| <i>Hymenophyllum flabellatum</i> (<i>Mecodium</i>) | Fan fern |
| <i>Hymenophyllum multifidum</i> (<i>Meringium</i>) | |
| <i>Hymenophyllum pulcherrimum</i> (<i>Mecodium</i>) | |
| <i>Hymenophyllum rarum</i> (<i>Mecodium</i>) | Wire-stemmed filmy fern |
| <i>Hymenophyllum revolutum</i> | |
| <i>Hymenophyllum sanguinolentum</i> | Blood-scented filmy fern |
| <i>Hymenophyllum scabrum</i> (<i>Mecodium</i>) | Coarse-haired filmy fern |
| <i>Hypericum</i> "Volcanic Plateau" (aff <i>H. japonicum</i>) | |
| <i>Hypericum japonicum</i> | Matted St John's wort |
| * <i>Hypericum perforatum</i> | St John's wort |
| * <i>Hypochoeris radicata</i> (<i>Hypochoeris</i>) | Catsear |
| <i>Hypolepis ambigua</i> (agg <i>H. punctata</i> ; pp <i>H. tenuifolia</i>) | |
| <i>Hypolepis rufobarbata</i> (pp <i>H. rugosula</i>) | Sticky pig fern |
| <i>Isolepis crassiuscula</i> (<i>Scirpus</i> ; <i>Eleogiton</i>) | |
| <i>Isolepis subtilissima</i> (<i>Scirpus</i>) | |
| <i>Juncus antarcticus</i> | |
| * <i>Juncus articulatus</i> (<i>J. lampocarpus</i>) | Jointed rush |
| * <i>Juncus effusus</i> (<i>J. luxurians</i> ; <i>J. sarophorus</i> auct.) | Soft rush |
| <i>Juncus gregiflorus</i> (<i>J. polyanthemus</i>) | Wiwi |
| <i>Juncus novae-zelandiae</i> | |
| * <i>Juncus tenuis</i> (<i>J. macer</i>) | |
| <i>Kelleria dieffenbachii</i> (<i>Drapetes</i>) | |
| <i>Kelleria laxa</i> (<i>Drapetes dieffenbachii</i> var.) | |
| <i>Knightia excelsa</i> | Rewarewa; NZ honeysuckle |
| <i>Kunzea ericoides</i> (<i>Leptospermum</i>) | Kanuka; white teatree |

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| <i>Lachnagrostis lyallii</i> (L. "semiglabrata"; L. <i>humilior</i> , <i>Deyeuxia glabra</i>) | |
| <i>Lagenifera cuneata</i> (<i>Lagenophora</i>) | |
| <i>Lagenifera cuneata</i> x L. <i>pumila</i> | |
| <i>Lagenifera pumila</i> (<i>Lagenophora</i>) | |
| <i>Lastreopsis hispida</i> (<i>Rumohra</i>) | Hairy fern |
| <i>Lepidosperma australe</i> (<i>Cladium vauthiera</i>) | Four square |
| <i>Lepidothamnus intermedius</i> x L. <i>laxifolius</i> | |
| <i>Lepidothamnus laxifolius</i> (<i>Dacrydium laxifolium</i>) | Pygmy pine |
| <i>Leptecophylla juniperina</i> (<i>Cyathodes</i> , <i>Styphelia</i> , <i>C. acerosa</i>) | Prickly mingimingi |
| <i>Leptopteris hymenophylloides</i> (<i>Todea</i>) | Single crepe fern; heruheru |
| <i>Leptopteris hymenophylloides</i> x L. <i>superba</i> | |
| <i>Leptopteris superba</i> (<i>Todea</i>) | Prince of Wales feather |
| <i>Leptospermum scoparium</i> | Manuka; red teatree |
| <i>Leptostigma setulosum</i> (<i>Nertera</i> , <i>Coprosma</i>) | |
| <i>Leucopogon fasciculatus</i> (<i>Styphelia</i> ; <i>Cyathodes fasciculata</i>) | Mingimingi; kaikaitau |
| <i>Leucopogon fraseri</i> (<i>Cyathodes</i> ; <i>Styphelia nesophila</i>) | Patotara |
| * <i>Leycesteria formosa</i> | Himalayan honeysuckle |
| <i>Libertia ixioides</i> | Mikoikoi; native iris |
| <i>Libocedrus bidwillii</i> | Cedar; kaikawaka; pahautea |
| <i>Lilaeopsis ruthiana</i> | |
| <i>Lindsaea linearis</i> | Mudwort |
| <i>Lindsaea viridis</i> | |
| * <i>Linum bienne</i> (L. <i>marginale</i> ; L. <i>angustifolium</i>) | Pale flax |
| * <i>Linum catharticum</i> | Purging flax |
| <i>Liparophyllum gunnii</i> | |
| * <i>Lotus pedunculatus</i> (L. <i>major</i> ; L. <i>uliginosus</i>) | Lotus major |
| * <i>Ludwigia palustris</i> | Water purslane |
| * <i>Lupinus arboreus</i> | Tree lupin |
| <i>Luzula banksiana</i> ss | |
| <i>Luzula decipiens</i> | |
| <i>Lycopodium deuterodensum</i> (<i>Lycopodium</i>) | Puakarimu |
| <i>Lycopodium fastigiatum</i> | Mountain clubmoss |
| <i>Lycopodium scariosum</i> | Creeping clubmoss |
| <i>Lycopodium volubile</i> | Waewae-koukou; climbing clubmoss |
| <i>Manoao colensoi</i> (<i>Dacrydium</i> ; <i>Lagarostrobus</i>) | Silver pine, manoao |
| <i>Melicope simplex</i> | Poataniwha |
| <i>Melicytus lanceolatus</i> | Narrow-leaved mahoe; mahoe-wao |
| <i>Melicytus ramiflorus</i> | Mahoe |
| @ <i>Metrosideros colensoi</i> | |
| @ <i>Microlaena avenacea</i> (<i>Ehrharta diplax</i>) | Bush rice grass; oat grass |

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| <i>Microseris scapigera</i> | |
| @ <i>Microtis oligantha</i> | Small onion orchid |
| <i>Microtis unifolia</i> | Onion orchid |
| <i>Muehlenbeckia axillaris</i> | Creeping pohuehue |
| * <i>Mycelis muralis</i> | Wall lettuce |
| <i>Myosotis</i> "Volcanic Plateau" (aff <i>M. pygmaea</i>) | |
| <i>Myriophyllum pedunculatum</i> ssp. <i>novae-zeelandiae</i> | |
| <i>Myrsine australis</i> | Red matipo; mapou |
| <i>Myrsine divaricata</i> | Weeping matipo |
| <i>Myrsine nummulariifolia</i> x <i>M. salicina</i> | |
| <i>Myrsine salicina</i> | Toro |
| <i>Neomyrtus pedunculata</i> | Rohutu |
| <i>Nertera ciliata</i> (<i>Coprosma patrickii</i>) | |
| <i>Nestegis lanceolata</i> (<i>Gymnelaea</i>) | White maire |
| <i>Nothofagus fusca</i> | Red beech |
| <i>Nothofagus fusca</i> x <i>Nothofagus solandri</i> | |
| <i>Nothofagus menziesii</i> | Silver beech; tawhai |
| <i>Nothofagus solandri</i> var. <i>cliffortioides</i> | Mountain beech; tawhairakau |
| <i>Olearia arborescens</i> | Glossy tree daisy |
| <i>Olearia ilicifolia</i> | Mountain holly; hakeke |
| <i>Olearia nummulariifolia</i> | |
| <i>Olearia rani</i> | Heketara |
| <i>Olearia virgata</i> | |
| <i>Ophioglossum coriaceum</i> | |
| <i>Oreobolus pectinatus</i> | Comb sedge |
| <i>Oreomyrrhis colensoi</i> | Mountain myrrh |
| <i>Oreomyrrhis ramosa</i> | |
| <i>Oreostylidium subulatum</i> | |
| <i>Orthoceras novae-zeelandiae</i> (= <i>O. strictum</i> f. <i>viride</i> ; <i>O. viride</i>) | |
| <i>Ourisia macrophylla</i> ssp. <i>robusta</i> | |
| <i>Ourisia macrophylla</i> x <i>O. vulcanica</i> | |
| <i>Ourisia vulcanica</i> | Matted ourisia |
| <i>Oxalis exilis</i> ss (<i>O. corniculata</i> var. <i>microphylla</i> ; <i>Xanthoxalis</i>) | Yellow oxalis; creeping oxalis |
| @ <i>Oxalis magellanica</i> (<i>O. lactea</i>) | White oxalis |
| @ <i>Oxalis rubens</i> or <i>O. perenans</i> (= <i>O. stricta</i>) | |
| <i>Ozothamnus vauvilliersii</i> agg (<i>Cassinia</i>) | |
| <i>Paesia scaberula</i> | Scented fern; matata; ring fern |
| * <i>Parentucellia viscosa</i> (<i>Bartsia</i> ; <i>Odonites</i>) | Tarweed |
| <i>Parsonsia capsularis</i> | Small flowered jasmine; akakior |

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| @ <i>Parsonsia heterophylla</i> | Maori jasmine; kaihu; kaiwhiria Kaikomako |
| <i>Pennantia corymbosa</i> | |
| <i>Pentachondra pumila</i> | |
| <i>Phormium cookianum</i> (<i>P. colensoi</i>) | Mountain flax; wharariki |
| <i>Phormium cookianum</i> x <i>P. tenax</i> | |
| <i>Phormium tenax</i> | Flax |
| <i>Phyllocladus alpinus</i> (<i>P. aspleniifolius</i> var. <i>alpinus</i>) | Mountain toatoa; celery pine |
| @ <i>Pimelea prostrata</i> | Stratmore weed; pinatoro |
| <i>Pimelea suteri</i> var. <i>oreophila</i> agg (<i>P. oreophila</i>) | |
| * <i>Pinus contorta</i> (<i>P. murrayana</i>) | Lodgepole pine; contorta pine |
| <i>Pittosporum eugenioides</i> | Lemonwood; tarata |
| <i>Pittosporum tenuifolium</i> agg (<i>P. colensoi</i> ; <i>P. buttonianum</i>) | Black matipo; kohuhu |
| * <i>Plantago lanceolata</i> | Ribwort; narrow-leaved plantain |
| <i>Plantago raoulii</i> | |
| <i>Plantago triandra</i> | |
| <i>Pneumatopteris pennigera</i> (<i>Thelypteris</i> ; <i>Cyclosorus</i>) | Gully fern; pakau; pakauroharoha |
| <i>Poa anceps</i> | Coastal poa |
| <i>Poa cita</i> (<i>P. caespitosa</i> ; <i>P. laevis</i> ; <i>P. australis</i>) | Silver tussock |
| <i>Poa colensoi</i> agg (<i>P. colensoi</i> var. <i>guthrie-smithiana</i>) | Blue tussock |
| * <i>Poa pratensis</i> | Kentucky blue grass |
| <i>Poa pusilla</i> (<i>P. seticulmis</i>) | |
| <i>Podocarpus hallii</i> (<i>P. cunninghamii</i>) | Hall's totara; thin bark totara |
| <i>Podocarpus totara</i> | Totara |
| <i>Polystichum vestitum</i> | Prickly shield fern; punui |
| <i>Pomaderris phyllicifolia</i> | |
| @ <i>Potamogeton suboblongus</i> | Onion-leaved orchid |
| <i>Prasophyllum colensoi</i> | Panakenake |
| <i>Pratia angulata</i> | Miro; brown pine |
| <i>Prumnopitys ferruginea</i> (<i>Podocarpus ferrugineus</i> , <i>Stachypitys</i>) | Matai; black pine |
| <i>Prumnopitys taxifolia</i> (<i>Podocarpus spicatus</i>) | Selfheal |
| * <i>Prunella vulgaris</i> | |
| <i>Pseudognaphalium luteoalbum</i> agg (<i>G. luteoalbum</i> var.; <i>P. "ordinary"</i>) | Jersey cudweed |
| <i>Pseudopanax arboreus</i> (<i>Neopanax arboreum</i>) | Five finger; puhou; whaupaku |
| <i>Pseudopanax colensoi</i> (<i>Neopanax</i>) | Mountain three finger; orihou |
| <i>Pseudopanax crassifolius</i> | Lancewood; horoeka |

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| *@ <i>Pseudotsuga menziesii</i> (<i>P. taxifolia</i>) | Douglas fir |
| <i>Pseudowintera axillaris</i> | Horopito |
| <i>Pseudowintera colorata</i> | Pepperwood; mountain horopito |
| <i>Pteridium esculentum</i> (<i>P. aquilinum</i> var. <i>esculentum</i>) | Bracken; rauaruhe |
| <i>Pterostylis humilis</i> | |
| <i>Pterostylis patens</i> (fn. <i>P. banksii</i> ; p144) | |
| <i>Ranunculus amphitrichus</i> (<i>R. rivularis</i> agg) | Waoriki |
| *@ <i>Ranunculus flammula</i> | Spearwort |
| <i>Ranunculus reflexus</i> (pp <i>R. hirtus</i>) | Maruru; hairy buttercup |
| <i>Raoulia "australis North"</i> | |
| <i>Raoulia albosericea</i> (<i>R. hookerii</i> var; corr orth) | |
| <i>Raoulia albosericea</i> x <i>R. "australis North"</i> | |
| <i>Raoulia glabra</i> | |
| <i>Raoulia tenuicaulis</i> | |
| <i>Raukawa anomalus</i> (<i>Pseudopanax</i> ; <i>Neopanax anomalum</i>) | Whauwhaupaku |
| <i>Raukawa edgerleyi</i> (<i>Pseudopanax</i>) | Raukawa |
| <i>Raukawa simplex</i> (<i>Pseudopanax</i> ; <i>Neopanax</i>) | Haumakoroa |
| * <i>Rosa rubiginosa</i> (<i>R. eglantaria</i>) | Sweet briar |
| <i>Rubus cissoides</i> | Bush lawyer; tataramoa |
| <i>Rubus schmidelioides</i> | Bush lawyer; tataramoa |
| <i>Rytidosperma australe</i> (<i>Erythranthera australis</i> ; <i>Triodia</i>) | |
| <i>Rytidosperma gracile</i> (<i>Notodanthonia semiannularis</i> var.) | Forest fairy grass |
| <i>Rytidosperma setifolium</i> (<i>Notodanthonia</i> ; <i>Danthonia semiannularis</i>) | Bristle tussock |
| @ <i>Rytidosperma viride</i> | |
| *@ <i>Salix cinerea</i> (<i>S. caprea</i> auct.) | Grey willow |
| * <i>Schedonorus phoenix</i> (<i>Festuca arundinacea</i>) | Tall fescue |
| <i>Schefflera digitata</i> | Pate; patae; kotete |
| <i>Schizaea australis</i> ss (<i>S. fistulosa</i> of Brownsey) | Comb fern |
| <i>Schoenus fluitans</i> | |
| <i>Schoenus pauciflorus</i> | Sedge tussock |
| <i>Senecio hispidulus</i> (pp <i>Erechtites scaberula</i>) | Fireweed |
| * <i>Senecio jacobaea</i> (<i>S. erucifolius</i> auct.) | Ragwort |
| <i>Senecio minimus</i> (<i>Erechtites minima</i>) | Fireweed |
| <i>Senecio wairauensis</i> (<i>Erechtites</i>) | Fireweed |
| * <i>Sonchus asper</i> | Prickly sow thistle; puha |
| * <i>Sonchus oleraceus</i> | Sow thistle; puha; puka |
| <i>Sparganium subglobosum</i> | |
| <i>Spiranthes novae-zelandiae</i> | |
| <i>Stackhousia minima</i> | |
| <i>Sticherus cunninghamii</i> (<i>Gleichenia</i>) | Umbrella fern; kotuku; tapuwae |
| * <i>Taraxacum officinale</i> | Dandelion |
| <i>Thelymitra cyanea</i> (<i>T. venosa</i> auct.) | Blue swamp orchid |

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| @ | <i>Thelymitra hatchii</i> | Blue sun orchid |
| | <i>Thelymitra longifolia</i> | White sun orchid |
| @ | <i>Thelymitra pauciflora</i> (<i>T. intermedia</i> ss non Moore; <i>T. "pseudopauciflora"</i>) | |
| | <i>Tmesipteris elongata</i> (pp <i>T. tannensis</i>) | |
| | <i>Trichomanes reniforme</i> (<i>Cardiomanes</i>) | Kidney fern; raurenga |
| | <i>Trichomanes venosum</i> | |
| * | <i>Trifolium pratense</i> | Red clover |
| * | <i>Trifolium repens</i> | White clover |
| | <i>Triglochin striata</i> | |
| | <i>Trisetum lepidum</i> (<i>T. "slender"</i>) | |
| * | <i>Ulex europaeus</i> | Gorse |
| | <i>Uncinia banksii</i> | |
| | <i>Uncinia clavata</i> | Fish-hooks |
| | <i>Uncinia distans</i> | |
| | <i>Uncinia gracilentia</i> | |
| | <i>Uncinia obtusifolia</i> (<i>U. "nervosa fine"</i>) | |
| | <i>Uncinia rubra</i> | |
| | <i>Uncinia rupestris</i> agg (<i>U. angustifolia</i>) | |
| | <i>Uncinia scabra</i> | |
| | <i>Uncinia viridis</i> | |
| | <i>Uncinia zotovii</i> | |
| | <i>Utricularia novae-zelandiae</i> agg | Bladderwort |
| | <i>Viola cunninghamii</i> | White violet; haka |
| | <i>Viola filicaulis</i> | Forest violet |
| | <i>Wahlenbergia pygmaea</i> (<i>W. albomarginata</i> var. <i>pygmaea</i>) | |
| | <i>Wahlenbergia violacea</i> (<i>W. trichogyna</i> ; <i>W. gracilis</i>) | Blue harebell; rimu-roa |
| | <i>Weinmannia racemosa</i> (<i>W. silvicola</i>) | Kamaha; Towai; tawhero |

*=exotic