

8/12/94

KAPITI ISLAND VEGETATION

Errors in the publication of Department of Lands and Survey "Kapiti Island Vegetation - report on a vegetation survey of Kapiti Island 1984/85 : S.A. Fuller

Corrections by C.C. Ogle

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The errors are of six main types:

1. Species ascribed as being native to the island when they are not, or are probably not. Such records were marked by asterisks on pp 37-40. Several marked by Fuller as being not native to island may, in fact, be so, and should have been indicated as (*?), or some similar designation. The following changes are needed:

- Dodonaea viscosa (*?)
- Entelea arborescens (*?)
- Hoheria populnea var. populnea *
- H. populnea var. (H. sexstylosa) (*?)
- Elatostema rugosum (*?)
- Doodia media ssp. australis (*?)
- Lunathyrium japonicum (*?)
- Pteris comans *

2. Species present only as planted specimens are indicated but not those which are present as natural to the island and as planted specimens. Rodda's work is extremely valuable in documenting at least some of these plantings, and Fuller's paper missed the opportunity to publish her work. Future workers on the island's flora will find it invaluable to know in which species "genetic pollation" may have occurred through plantings. I had noted about 45 examples of "natural and planted" species on Kapiti in my working list, including miro, wineberry, Coprosma areolata, taupata, karaka, hinau, tree fuchsia, and rewarewa.

3. Species present in my lists but as tentative, unconfirmed records, and marked as probable errors. Some are uncertain translations of early records under obsolete names. All of these should be deleted, unless Fuller has new records.

- Polystichum silvaticum
- Pimelea prostrata
- Hymenophyllum atrovirens
- Olearia arborescens
- Rubus sp. (R. australis)
- Lachnagrostis filiformis
- Uncinia banksii
- Scirpus sp. (S. caldwellii)
- Lepidium oleraceum (Cockayne (1907) listed this for Tokamapuna Island only, an area presumably outside Fuller's study area)
- Carduus pycnocephalus (a dubious translation of Esler's "Italian thistle")
- Arrhenatherum elatius (a possible translation of Esler's "tall oat grass")

Trifolium micranthum (a dubious translation of Esler's "T. filiforme")

(Tupeia antarctica was listed by Cockayne and the Wilkinsons, was stated to have been planted (Rodda), but Loranthus micranthus, which is present, was never listed by early observers, and Tupeia may be an erroneous record.)

4. Non-annotated records of species recorded in early documents only. While these are not strictly errors, the uninformed reader will assume that all the species listed are present. In fact, many have been recorded only once, e.g. as early as 1912 in the case of Chiloglottis cornuta by C. Aston, and 1907 by Cockayne. Many records were made by A.S. and A. Wilkinson (1952), who made no distinction between their own records and those of earlier observers, and it seems likely that some present as planted specimens only were listed by the Wilkinsons as being native to the island. (In passing, it should be noted that Wilkinson and Wilkinson (1952) is missing from the list of references on Fuller's p.34.) My own compilation made it clear which records were recent, which were reliable early records, and which were confirmed. While Fuller may have new records of some of these listed below, they are all (barring two of Esler's records) in my list as being more than 30 years old (last known records given after each name).

Abbreviations W = Wilkinson and Wilkinson (1952);
C = Cockayne (1907); A = Aston;
E = Esler (1967);
R = Rodda (1970)

Coriaria arborea; C, W
Gaultheria antipoda; W
Hymenanthera obovata; W
Melicope simplex; W
Pseudopanax arboreus x P. crassifolius; W
Pseudowintera colorata; W
Tupeia antarctica; C, W (also planted, R)
Carex pumila; W
C. spinirostris; W
Eleocharis gracilis; C, W
Gahnia setifolia; C, W
Hierochloa redolens; E
Libertia grandiflora; C, W (also planted, R)
Lachnagrostis filiformis; W
Poa imbecilla; W
Puccinellia stricta; W
Bulbophyllum pymaeum; W
Chiloglottis cornuta; A
Corybas trilobus; C, W (also planted, R)
Dendrobium cunninghamii; W
Gastrodia cunninghamii; W
Prasophyllum colensoi; W
Pterostylis australis; W
P. graminea; W
Thelymitra uniflora (invalid sp., in NZ); W
Chenopodium allanii; W

<u>Epilobium billardierianum</u> :	C
<u>E. chionanthum</u> ;	C
<u>E. cinereum</u> ;	C
<u>E. linnaeoides</u> ;	C
<u>E. pallidiflorum</u> ;	C
<u>E. pubens</u> :	C
<u>E. rotundifolium</u> ;	C
<u>E. komarovianum</u> ;	C
<u>E. nummularifolium</u> ;	C
<u>E. pendunculare</u> :	W
<u>E. alsinoides</u> :	W
<u>Geranium microphyllum</u> ;	C, W
<u>Lepidium tenuicaule</u> :	C(?), W
<u>Nertera depressa</u> ;	C, W (also planted, R)
<u>Pelargonium inodorum</u> ;	W
<u>Potentilla anserinoides</u> ;	W
<u>Scandia geniculata</u> :	C, W, E
<u>Senecio kirkii</u> ;	W
<u>S. rufigliandulosus</u> ;	W
<u>Sonchus kirkii</u> ;	C, W
<u>Taraxacum magellanicum</u> ;	C, W
<u>Tetragonia tetragonioides</u> ;	W
<u>Urtica incisa</u> ;	W
<u>Viola cunninghamii</u> ;	W
<u>Asplenium obtusatum</u> ;	C, W
<u>Blechnum colensoi</u> ;	W (also planted, R)
<u>B. nigrum</u> ;	W (also planted, R)
<u>Botrychium australe</u> ;	W
<u>B. biforme</u> ;	W
<u>Ctenopteris heterophylla</u> ;	W
<u>Dicksonia fibrosa</u> ;	C, W
<u>Hymenophyllum bivalve</u> ;	W
<u>H. flabellatum</u> ;	W
<u>H. revolutum</u> ;	C, W
<u>H. sanguinolentum</u> ;	W
<u>Hypolepis millefolium</u> ;	W
<u>Leptolepia novae-zelandiae</u> ;	C, W
<u>Lindsaea trichomanoides</u> :	W
<u>Lycopodium varium</u> ;	W
<u>Pellaea sp.</u> (unnamed coastal and S.I. sp.);	W
<u>Trichomanes lyallii</u> ;	W
<u>T. venosum</u> ;	W

5. Missing species

Although Fuller has adopted uncritically nearly all of the species in my list, the following should be added to his list.

<u>Potamogeton cheesemanii</u> ;	C, W (native sp.)
<u>Centaurea melitensis</u>)) exotic spp.
<u>Ehrharta erecta</u>)	

6. Species listed in wrong taxonomic groups Cordyline spp. (cabbage tree), Rhopalostylis (nikau), and Freycinetia (kiekie) are not monocot herbs, but require new headings such as "monocot trees", "monocot vines", although kieke could go under "climbers....." with Ripogonum (supplejack). Other transfers into the "climbers, lianes and related trailing plants" category should be Scandia geniculata and Tetragonia spp. Senecio kirkii is not a dicot herb but a dicot shrub.

Lobelia anceps (listed as being an exotic plant on p.42) is a native dicot herb.

Wahlenbergia marginata appears twice, once as a native and once as an exotic; it appears to be better regarded as exotic to New Zealand.

7. Mis-spellings etc

- (a) Sophora microphylla (not microphyllum: twice on p.37)
- (b) Weinmannia racemosa should be followed by "subsp. racemosa" (p.37)
- (c) Epilobium komarovianum should be followed by "(as nerterioides)" (not nerteroides : E. nerteroides, as recognised today, is not the E. nerterioides of Cockayne's time) (p.39).
- (d) Senecio hispidulus (not S. hispidus, on p.39)
- (e) Luzula banksiana (not L. banksii, on p.38)
- (f) Rytidosperma caespitosum (not caespitosa), and R. gracile (not gracilis), on p.38
- (g) "Monocot herbs", heading a section of p.38 should be preceded by "Other", since the previous group "grasses, sedges, rushes, and like plants" are also monocot herbs.
- (h) Callitriche (not Callatriche) p.41
- (i) Chenopodium pumilio (not pumila) p.41
- (j) Crocoshia x crocosmiiflora (not crocosmifolia) p.41
- (k) Festuca arundinacea (not arundinaceae) p.41
- (l) Hypochoeris (not Hypochaeris) p.41
- (m) Lotus pendunculatus (not peduncularis) p.42
- (n) Rytidosperma penicillatum (not pennicillatum) p.42
- (o) Medicago hispida on p.42 has no meaning, so far as I know; it is not listed by C.J. Webb in his checklist of adventive legumes in NZ (NZ Jour. Bot. 18 : 463).
- (p) Erigeron floribundus = Conyza floribunda (p.41), so one should be deleted.
- (q) Tetragonia tetragonioides (not tetragonoides)

Reference (additional to those in Fuller's paper)

Wilkinson, A.S.; Wilkinson, A. 1952 : Kapiti bird sanctuary; a natural history of the island. Masterton Printing Co Ltd.

THREATENED PLANTS FOUND ON KAPITI ISLAND

<u>Species</u>	<u>Status</u>
✓ ✓ <u>Hebe elliptica var crassifolia</u>	Endangered
<u>Hebe speciosa</u>	Endangered
✓ ✓ <u>Lepidium oleraceum</u> (Cooks Scurvey Grass)	Vulnerable/Rare (?Extinct from Kapiti)
✓ ✓ <u>Rytidosperma petrosum</u>	Rare
✓ ✓ <u>Tupeia antarctica</u> (Mistletoe)	Indeterminate
<u>Asplenium obtusatum</u> (fern)	Regionally threatened
<u>Carex spinirostris</u> (sedge)	Regionally threatened
<u>Cheilanthes distans</u> (fern)	Regionally threatened
<u>Daucus glochidiatus</u> (NZ carrot)	Regionally threatened
<u>Discaria toumatou</u> (matagouri)	Regionally threatened
* <u>Dodonaea viscosa</u> (akeake)	Regionally threatened
✓ ✓ <u>Doodia squarrosa</u> (fern)	Regionally threatened
* <u>Entelea arborescens</u> (whau)	Regionally threatened
<u>Ileostylus micranthus</u> (mistletoe)	Regionally threatened
✓ ✓ <u>Korthalsella salicornoides</u> (mistletoe)	Regionally threatened
✓ ✓ <u>Lepidium tenuicaule</u>	Regionally threatened
<u>Pelargonium inodorum</u>	Regionally threatened
<u>Pellaea</u> sp (unnamed) (fern)	Regionally threatened
<u>Ranunculus rivularis</u> (bamboo spike sedge)	Regionally threatened
<u>Scandia geniculata</u>	Regionally threatened
<u>Sonchus kirki</u>	
<u>Sophora microphylla</u> (prostrate kowhai)	Regionally threatened
✓ ✓ <u>Streblus banksii</u> (milk tree)	Regionally threatened
✓ ✓ <u>Tetragonia tetragoniodes</u> (NZ spinach)	Regionally threatened (?Extinct from Kapiti)
<u>Vitacollina australis</u>	
✓ ✓ <u>Euphorbia glauca</u>	
* Plants introduced to Kapiti.	

✓ ✓ Tetragonia sp