

WHANGANUI PLANT LIST NO. 25

Vascular Plants of Koitiata (Turakina Beach), including Koitiata Recreation Reserve, Manawatu Coast

Grid Ref: NZMS 260/S23/920245 to 930230 (approx)

A P Druce, Botany Division, DSIR
June 1975 (last revised July 1988)
(based on visits 1967, 1975, 1993)

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(additions: 5 Dec 1991, 19 April 1993, 28 June 1993, 22 Oct 1996; 1 March 2000); Wanganui Botanical Group (30 January 1993, 5 March 1995; 2 Sep 2006); CCO, GLC, V McGlynn & Laurel Stowell (14 Sep 2007); CCO & GLC (5 Oct 2010)

Last revised 2 March 2000; 23 Jan 2002; 31 Aug. 2006; 4 Sep. 2006; 24 March 07; 15 Sep 2007, 5 Oct 2010

(unc) **uncommon; local (in small area but may be quite common there)**

(+) = **seen between 1988-96 ; ! = addition 2.9.06; (+!) = recorded by Druce and not seen again until 2.9.06; # = addition 14.9.07; (+#) = recorded by Druce and not seen again until 14.9.07; ## new record 5 Oct 2010**

(A) INDIGENOUS SPECIES

Monocot Trees

Cordyline australis (+) cabbage tree

Dicot Shrubs

Brachglottis repanda (##) (unc-1) rangiora
Coprosma acerosa s.s. (+) sand coprosma
Coprosma propinqua ssp. propinqua (incl.
C. p. var. latiuscula)
Coprosma repens (+) taupata
Coprosma robusta (+) karamu
Coprosma propinqua x C. robusta (+)
Kunzea ericoides s.l. (##) (unc -1) kanuka
Leptospermum scoparium (+) manuka
Olearia solandri (+)
Ozothamnus leptophyllus (+) tauhinu
Pimelea actea
Pimelea villosa sand daphne

Dicot Lianes

Calystegia sepium ssp. roseum (+) convolvulus
Calystegia soldanella (+) sand convolvulus
Muehlenbeckia complexa (+) pohuehue
Parsonsia heterophylla (#) (unc) NZ jasmine

Ferns

<i>Adiantum cunninghamii</i>	(+)	maidenhair fern
<i>Asplenium flabellifolium</i>	(#)	necklace fern
<i>Asplenium flaccidum</i>	(!) (unc)	hanging spleenwort
<i>Asplenium oblongifolium</i>	(+!)	shining spleenwort
<i>Asplenium polyodon</i>	(+)	sickle spleenwort
<i>Azolla filiculoides</i> ssp. <i>rubra</i>	(+)	floating red waterfern
<i>Blechnum fluviatile</i>	(!) (1 plant)	
<i>Blechnum minus</i> (auct. NZ)	(+)	swamp kiokio
<i>Blechnum novae-zelandiae</i>	(+)	kiokio
<i>Blechnum triangularifolium</i>	(+!)	cliff kiokio
<i>Cyathea medullaris</i>	(!) (5 seen)	mamaku
<i>Dicksonia fibrosa</i>	(+) (unc)	whekiponga
<i>Hypolepis ambigua</i>	(+!) (unc)	
<i>Microsorium pustulatum</i>	(#) (unc)	hound's tongue
<i>Paesia scaberula</i>	(#) (unc)	ring fern
<i>Pellaea rotundifolia</i>	(#) (2 plants)	button fern
<i>Pneumatopteris pennigera</i>		
<i>Polystichum neozelandicum</i> ssp. <i>zerophyllum</i>	(#) (1 plant)	shield fern
<i>Pteridium esculentum</i>	(+ #)	bracken
<i>Pteris macilenta</i> (auct. NZ)	(!) (unc)	
<i>Pteris tremula</i>	(!) (unc)	shaking brake
<i>Pyrrosia eleagnifolia</i>	(+) (unc)	leatherleaf fern
<i>Rumohra adiantiformis</i>	(#) (unc)	

Orchids

<i>Corybas</i> (<i>Nematoceras</i>) sp. (unidentified; <i>C. rivularis</i> agg.)		spider orchid
<i>Microtis unifolia</i>	(+)	onion-leaved orchid
<i>Thelymitra longifolia</i>	(+)	sun orchid
<i>Thelymitra</i> sp. (unidentified; erect channelled leaf)	(!)	sun orchid

Grasses

<i>Cortaderia toetoe</i>	(+)	toetoe
<i>Lachnagrostis billardierei</i>	(+)	sand bent
<i>Lachnagrostis filiformis</i> s.s.		
<i>Spinifex sericeus</i>	(+)	spinifex
<i>Zoysia minima</i>	(+)	

Sedges

<i>Baumea juncea</i>	(+)	
<i>Carex buchananii</i>		
<i>Carex pumila</i>	(+)	sand carex
<i>Carex virgata</i>	(+)	
<i>Cyperus ustulatus</i>	(+)	

<i>Eleocharis acuta</i>	(+)	sharp spike sedge
<i>Eleocharis gracilis</i>		slender spike sedge
<i>Ficinia (Isolepis) nodosa</i>	(+)	club sedge
<i>Ficinia (Desmoschoenus) spiralis</i>	(+)	pingao
<i>Isolepis basilaris</i>	(+!) ¹	
<i>Isolepis cernua</i>	(+!)	
<i>Isolepis prolifer</i>	(!) (1 patch)	
<i>Schoenoplectus pungens</i>	(+)	3-square
<i>Schoenoplectus tabernaemontani</i>	(+)	kapungawha
<i>Schoenus nitens</i>	(+)	

Rushes

<i>Apodasmia (Leptocarpus) similis</i>	(+)	jointed rush
<i>Juncus caespiticius</i> s.s.	(+!) (unc)	
<i>Juncus kraussii</i> var. <i>australiensis</i>	(+) (unc)	sea rush
<i>Juncus edgariae</i>	(!) (unc)	

Monocot Herbs Other Than Orchids, Grasses, Sedges, Rushes

<i>Libertia peregrinans</i>	(+)(unc) ²	sand iris
<i>Phormium cookianum</i>	(+)	wharariki, mountain flax
<i>Phormium tenax</i>	(+)	harakeke, flax
<i>Potamogeton ochreatus</i> [(Cockayne 1908)]		
<i>Potamogeton pectinatus</i> [Aston 1910] (= <i>Stuckenia pectinata</i>)	(+) ³	
<i>Triglochin striatum</i>	(+)	arrow-grass
<i>Typha orientalis</i>	(+)	raupo

Composite Herbs

<i>Centipeda minima</i> (?) ⁴	(+) (unc)	sneezeweed
<i>Cotula coronopifolia</i>	(+)	bachelor's button
<i>Euchiton (Gnaphalium) audax</i>		cudweed
<i>Lagenifera pumila</i>	(+!) (local)	
<i>Pseudognaphalium</i> sp. (<i>P. luteoalbum</i> agg)	(+)	cudweed
<i>Senecio glomeratus</i> ? (only juv. seen)	(!) (unc)	native fireweed
<i>Senecio hispidulus</i>	(+) (unc)	native fireweed
<i>Senecio quadridentatus</i>		silver fireweed

¹ Scattered along 100 m or so of damp sand beside vehicle track on sea-ward side of pines on 2.9.06

² Recorded by Druce; 1 plant found by A King in 1993 or 1995; many dozens of tillers found 2.9.06 among *Apodasmia* and along vehicle track near pines – perhaps area 200 m diameter or more. Not (unc); better described as 'local'.

³ Rediscovered in water supply pond in pine forest, Jan. 1993 (pond beside forestry road behind village)

⁴ As recorded by Druce. Needs re-finding to check which of the 3 indigenous species it is, as defined by Walsh (2001)

Dicot herbs (other than composites)

Acaena sp.) A. anserinifolia or A. nz.)	(#)	bidibid/piripiri
Apium sp (A. filiforme auct NZ)	(+) (unc)	slender sea celery
Chenopodium glaucum var. ambiguum		
Crassula sieberiana	(+) (unc)	
Epilobium billardioreanum s.s.	(+!)	willow-herb
Epilobium nerteroides		"
Epilobium pallidiflorum		"
Gunnera arenaria		sand gunnera
Haloragis erecta	(#) (1 plant)	
Hydrocotyle novae-zeelandiae s.s.	(+)	swamp pennywort
Lilaeopsis novae-zelandiae	(+)	tape-measure plant
Limosella lineata	(+)	
Lobelia anceps	(+)	NZ lobelia
Lobelia (Pratia) perpusilla [between Rangitikei & Turakina Rivers; Aston 1910: 236] ⁵		
Mazus novaezeelandiae ssp. impolitus.	(+) (unc)	
Mentha cunninghamii	(+!) (unc)	NZ mint
Myriophyllum pedunculatum ssp. novae-zelandiae		
Myriophyllum votschii		
Oxalis rubens	(+)	wiry oxalis
Persicaria decipiens (Polygonum salicifolium)	(+)	NZ willow-weed
Potentilla anserinoides	(+)	silverweed
Ranunculus acaulis	(+)	sand buttercup
Samolus repens var. repens		sea primrose
Sarcocornia quinqueflora	(+)	glasswort
Sebaea ovata		
Selliera rotundifolia ⁶	(+)(unc)	half-star
Viola cunninghamii [Cockayne 1908]		

Number of Species

100 species (+ 1 hybrid)

References

Aston B C, 1910. Trans NZ Inst. 43: 225-47

Cockayne L, 1908: Trans. NZ Inst. 41:309

Walsh, N.G. (2001). A revision of *Centipeda* (Asteraceae). *Muelleria* 15: 33–65.

⁵ This sp. was found & vouchered on 5 March 1995 in damp pasture beside dune lake/swamp in "Tunnel Hill" farm - may have been Aston's location?

⁶ Druce recorded *Selliera radicans*, but the publication since of *S. rotundifolia*, characteristic of dune flats between about Patea and Levin, suggests that it was the latter species. On 2.9.06 we found a small patch of *S. rotundifolia*

(B) ADVENTIVE SPECIES (all seen on or after 21 November 1990)

Gymnosperms

Pinus pinaster	(!) (unc)	maritime pine
Pinus radiata	(!)	

Dicot shrubs and lianes

Acacia sophorae		sand wattle
Artemisia arborescens	(unc)	hedge artemisia
Berberis glaucocarpa	⁷	barbery
Chrysanthemoides monilifera		boneseed
Cotoneaster lacteus	(! –seen but no ID earlier)	
Crataegus monogyna	(unc)	hawthorn
Echium candicans	(!) (local)	pride of Madeira
Erica lusitanica		Spanish heath
Euonymus japonicus	(#) (1 plant)	spindle tree
Juglans ailantifolia [seedlings]	(unc)	Japanese walnut
Lavandula dentata		lavender
Lavatera arborea		tree mallow
Lupinus arboreus		tree lupin
Lycium ferocissimum		boxthorn
Pelargonium X asperum CHR	(#) (1)	
Pelargonium X hortorum	(!) (2)	zonal pelargonium
Pelargonium peltatum	(#) (unc)	ivy-leaved geranium
Pelargonium vitifolium CHR	(#) (1)	
Pittosporum crassifolium	(unc)	karo
Populus alba		silver poplar
Prunus seracifera (cv. atropurpurea)	(!) (1 seen)	cherry plum
Rosa rubiginosa		sweet brier
Rumex sagittatus	(#)	climbing dock
Ruschia tumidula (?) CHR	(#)	
Salix cinerea		grey willow
Salix fragilis		crack willow
Salix matsudana CHR	(unc; 2)	tortured willow
Senecio angulatus		Cape ivy
Senecio mikanioides	(!) (local)	German ivy
Senna multiglandulosa	(! 1 plant)	cassia
Teline monspessulana	(#) (3-4 plants)	Montpellier broom
Ulex europaeus		gorse

Monocot ‘shrubs’

Aloe arborescens	(!) (1 patch)	
Yucca gloriosa		yucca

⁷ Sept 2010, G La Cock

Dicot herbs

<i>Acanthus mollis</i> (seedlings only)	(#) (1 patch)	bear's breeches
<i>Aeonium</i> (arboreum?)	(#) (3 plants)	
<i>Anemone coronaria</i>	(##) (1 plant)	garden anemone
<i>Apium nodiflorum</i>		water celery
<i>Anagallis arvensis</i>		scarlet pimpernel
<i>Aptenia cordifolia</i>	(#) (1 plant)	
<i>Arctotheca calendula</i>	(!)	Cape daisy
<i>Arctotis stoechadifolia</i>	(#)	arctotis
<i>Aster subulatus</i>	(!)	sea aster
<i>Atriplex prostrata</i>		orache
<i>Bellis perennis</i>	(!)	lawn daisy
<i>Beta vulgaris</i>	(unc)	silverbeet
<i>Bidens frondosa</i>	(unc)	beggar's ticks
<i>Carpobrotus</i> sp.		iceplant
<i>Centaurium erythraea</i>		centaury
<i>Cerastium glomeratum</i>	(#)	annual mouse-eared chickweed
<i>Cerastium tomentosum</i>	(#) (3 patches)	snow-in-summer
? <i>Cereus</i> sp.	(#) (1 plant)	a cactus
<i>Chrysanthemum segetem</i>	(! 1 plant)	corn marigold
<i>Cirsium arvense</i>	(unc)	Californian thistle
<i>Cirsium vulgare</i>		Scotch thistle
<i>Conyza sumatrensis</i> (syn. <i>C. albida</i>)		fleabane
<i>Coronopus didymus</i>		twin cress
<i>Cotyledon orbiculata</i>	(!) (unc)	
<i>Crassula multicava</i>	(#) (local)	fairy crassula
<i>Crepis capillaris</i>		hawkbit
<i>Fumaria muralis</i>	(!)	scrambling fumitory
<i>Galium aparine</i>	(#)	cleavers
<i>Galium palustre</i>	(#)	marsh bedstraw
<i>Gazania rigens</i>	(!)	gazania
<i>Geranium molle</i>		soft dovesfoot
<i>Helleborus foetidus</i> ⁸ CHR	(!) (unc)	winter rose
<i>Helminthotheca</i> (<i>Picris</i>) <i>echioides</i>		ox-tongue
<i>Hypochoeris radicata</i>		catsear
<i>Lactuca</i> sp.		wild lettuce
<i>Lampranthus</i> (?) sp.	(#)	
<i>Leontodon saxatilis</i> (syn. <i>L. taraxacoides</i>)		hawkbit
<i>Linum bienne</i>		pale flax
<i>Lobularia maritima</i>	(unc)	alyssum
<i>Lotus pedunculatus</i>		lotus major
<i>Lotus tenuis</i> CHR		
<i>Lythrum hyssopifolia</i>	(!) (unc)	hyssop loosestrife
<i>Medicago lupulina</i>		black medick
<i>Medicago nigra</i>	(#)	burr medick
<i>Melanoselinum decipiens</i>	(!) (unc)	parsnip palm
<i>Melilotus indica</i>		King Island melilot

⁸ 1st NZ record of this plant in the wild (found by G La Cock; collected 4.9.06)

<i>Mentha pulegium</i>		pennyroyal
<i>Moenchia erecta</i>	(##)	
<i>Myosotis laxa</i>		water forget-me-not
<i>Myosotis sylvatica</i>	(#) (1 patch)	garden forget-me-not
<i>Myriophyllum aquaticum</i> CHR	(unc)	parrot's feather
<i>Oenothera stricta</i>		evening primrose
<i>Opuntia ficus-indica</i>	(##)	prickly pear
<i>Orobanche minor</i>		broom-rape
<i>Osteospermum jucundum</i>	(#) (local)	
<i>Oxalis articulata</i>	(!) (unc)	sourgrass
<i>Oxalis incarnata</i>	(#)	lilac oxalis
<i>Oxalis pes-caprae</i>	(!)	Bermuda buttercup
<i>Papaver atlanticum?</i>	(##)	
<i>Parentucellia viscosa</i>		tarweed
<i>Plantago australis?</i>		swamp plantain
<i>Plantago major</i>		broad-leaved plantain
<i>Polygonum hydropiper</i>		water pepper
<i>Ranunculus repens</i>		creeping buttercup
<i>Ranunculus sceleratus</i>		celery-leaved buttercup
<i>Ranunculus trichophyllus</i>		water buttercup
<i>Raphanus raphanistrum</i>		wild radish
<i>Rorippa nasturtium-aquaticum</i> (?)		watercress
<i>Rumex conglomeratus</i>		clustered dock
<i>Rumex crispus</i>		curled dock
<i>Rumex obtusifolius</i>		broad-leaved dock
<i>Salpichroa origanifolia</i>	(!)	lily of the valley vine
<i>Sedum praealtum</i>	(!) (unc)	shrubby stonecrop
<i>Sedum spectabile</i>	(#) (2)	
<i>Senecio elegans</i>		purple groundsel
<i>Senecio glastifolius</i>		pink ragwort (holly-leaved senecio)
<i>Senecio jacobaea</i>		ragwort
<i>Sisymbrium officinale</i>		hedge mustard
<i>Solanum chenopodioides</i>		velvety nightshade
<i>Solanum nigrum</i>		black nightshade
<i>Solanum tuberosum</i>	(!) (local)	potato
<i>Sonchus asper</i>		prickly sowthistle
<i>Sonchus oleraceus</i>		puwha
<i>Spergularia rubra</i>		sand spurrey
<i>Stachys palustris</i> ⁹ CHR		marsh woundwort
<i>Stellaria media</i>	(!)	chickweed
<i>Trifolium arvense</i>		haresfoot trefoil
<i>Trifolium dubium</i>		suckling clover
<i>Trifolium repens</i>		white clover
<i>Trifolium subterraneum</i>	(#)	subterranean clover
<i>Tropaeolum majus</i>	(!) (unc)	nasturtium
<i>Verbascum thapsus</i>	(#) (1)	woolly mullein

⁹ Marsh woundwort is recorded in NZ from only 2 locations, viz. "mainly near Turakina R" and "Hokoi estuary (near Levin)" (Flora of NZ Vol 4. P 796. 1988)

<i>Veronica persica</i>	(!) (unc)	scrambling speedwell
<i>Vicia sativa</i>		vetch
<i>Vicia</i> sp. (unidentified; maybe <i>V. tetrasperma</i>)	(!)	vetch
<i>Viola odorata</i>	(#) (1 patch)	violet

Monocot herbs

Grasses

<i>Agrostis stolonifera</i>		creeping bent
<i>Aira caryophylla</i>		silvery hair grass
<i>Ammophila arenaria</i>		marram grass
<i>Anthoxanthum odoratum</i>		sweet vernal
<i>Briza minor</i>		quaking grass
<i>Bromus diandrus</i>		riggut brome
<i>Cortaderia seloana</i>		pampas grass
<i>Cynodon dactylon</i>		Indian doab
<i>Dactylis glomerata</i>		cocksfoot
<i>Ehrharta erecta</i>	(!) (local)	veld grass
<i>Ehrharta villosa</i> CHR (& other NZ herbaria)		pyp grass
<i>Elytrigia repens</i>	(!) (local)	couch
<i>Festuca rubra</i> ssp. <i>commutata</i>	(!)	Chewings fescue
<i>Glyceria declinata</i>		floating sweetgrass
<i>Holcus lanatus</i>		Yorkshire fog
<i>Lagurus ovatus</i>		haretail
<i>Lolium perenne</i>		perennial ryegrass
<i>Paspalum dilatatum</i>		paspalum
<i>Paspalum distichum</i>		Mercer grass
<i>Pennisetum clandestinum</i>		kikuyu grass
<i>Poa annua</i>	(#)	annual poa
<i>Polypogon monspeliensis</i>		beard grass
<i>Schedonorus phoenix</i> (= <i>Festuca arundinacea</i>)		tall fescue
<i>Sporobolus africanus</i>		ratstail
<i>Vulpia bromoides</i>		vulpia hair grass

Monocot herbs other than grasses

<i>Agapanthus orientalis</i> orientalis <i>praecox</i>	(unc)	agapanthus
<i>Alisma lanceolatum</i>	(unc)	water plantain
<i>Allium cepa</i>	(!)	onion
<i>Allium triquetrum</i>	(!)	3-cornered garlic
<i>Alstroemeria ligtu</i> hybrid	(#)	Peruvian lily
<i>Babiana angustifolia</i> (<i>B. stricta</i> of NZ authors)	(#)	baboon flower
<i>Canna</i> sp.	(!) (unc)	canna lily
<i>Chasmanthe floribunda</i>	(#) (1 patch)	
<i>Crococsmia x crocosmiiflora</i>		montbretia
<i>Cyperus albostratus</i>	(!) (1 clump)	
<i>Cyperus eragrostis</i>	(unc)	
<i>Freesia refracta</i> cv. (pink fl.)	(!)	freesia
<i>Hyacinthus orientalis</i> CHR	(!) (unc)	hyacinth
<i>Iris germanica/pallida</i> ?	(#)	bearded iris?
<i>Ixia maculata</i> CHR	(##)	ixia

<i>Juncus articulatus</i>		jointed-leaved rush
<i>Juncus bufonius</i>		toad rush
<i>Juncus subnodulosus</i> ¹⁰	(unc)	
<i>Muscari armeniacum</i>	(#) (unc)	grape hyacinth
<i>Narcissus tazetta</i>	(!) (unc)	jonquil
<i>Potamogeton crispus</i>		curled pondweed
<i>Scilla non-scripta</i>	(##)	
<i>Scilla peruviana</i>	(##)	
<i>Sparaxis grandiflora</i> ¹¹	(#) (a few patches)	
<i>Sparaxis tricolor</i>	(#) (unc.)	
<i>Tradescantia cerinthoides</i>	(#) (1 patch)	
<i>Watsonia aletroides</i>	(#) (1 clump)	watsonia
<i>Watsonia bulbifera</i> (?)	(!)	watsonia
<i>Zantedeschia aethiopica</i>	(#) (1 patch)	arum

¹⁰ Recorded in Flora of NZ Vol.3 as being only in Canterbury and Otago

¹¹ Seems to be establishing freely from seed

Species of Note

A Indigenous National Status¹²

Centipeda minima ¹³	:	Nationally Critical
Pimelea actea	:	Nationally Critical
Sebaea ovata	:	Nationally Critical
Mazus novaezeelandiae		
subsp. impolitus	:	
Isolepis basilaris	:	
Pimelea villosa	:	
Selliera rotundifolia	:	
Libertia peregrinans	:	

B Adventive

Ehrharta villosa: 1 of three known locations in NZ for this South African grass; spreading from plantings by Ministry of Works (Plant Materials section) in (?) 1960s.

Helleborus foetida: the first NZ record as an adventive plant

Juncus subnodulosus: first North Island record, 30 January 1993.

Stachys palustris: (see footnote, p. 5)

Lotus tenuis: only a few recorded sites in NZ (*Flora of NZ Vol. 4*)

Anemone coronaria: only one other NZ record in wild (Auckland)

¹² de Lange, PJ; Norton, D; Courtney, SP; Heenan PB; Barkla, JW; Cameron, EK; Hitchmough, R; Townsend, AJ. 2009. Threatened and uncommon plants of NZ (2008 revision). NZ J Botany 47: 61-96

¹³ As recorded by Druce. Almost certainly not this species, but needs refinding to check which of the indigenous species it is, as defined by Walsh (2001) (See footnote #4).