

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 – Druce did not list adventive species here)

C C Ogle (22 Forres St Whanganui), G La Cock (Department of Conservation, Whanganui) (additions [including adventive species]: 5 Dec 1991, 19 April 1993, 27 June 1993, 22 Oct 1996; 1 March 2000); with Tony & Helen Druce 19 Apr 1993; Whanganui Botanical Group (30 January 1993, 5 March 1995; 2 Sep 2006); CCO with GLC, V McGlynn & Laurel Stowell (14 Sep 2007); CCO & GLC (5 Oct 2010); C & R Ogle 4 Jan 2011; CCO with Wellington Bot Soc 30 March 2013; CCO with Horizons RC group 15.4.13; CCO with Whanganui Museum Botanical Group (WMBG) 3 Oct 2015; with WMBG and Birds Whanganui on 10 Mar 2019 (19 people)

Last revised 2 March 2000; 23 Jan 2002; 31 Aug. 2006; 4 Sep. 2006; 24 March 07; 15 Sep 2007, 5 Oct 2010, 4 Jan 2011, 30 Mar 2013, 15.4.13; 3.10.15; 10.3.19

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

(+) = **seen between 1988-96**; a = **addition 2.9.06**; (+a) = **recorded by Druce and not seen again until 2.9.06**; b = **addition 14.9.07**; (+b) = **recorded by Druce and not seen again until 14.9.07**; c = **new record 5 Oct 2010**; d= **new record 4.1.11**; e= **new record 30.3.13 & 15.4.13**; f= **new record 9Nov14**; g= **new record 3.10.15**; h=**new record 10.3.19**

Plants lacking an indication of when they were seen are Druce records that have not been seen since his visits.

(A) INDIGENOUS SPECIES

Monocot Trees

Cordyline australis (+) cabbage tree

Dicot Shrubs

Brachyglottis repanda (c) (unc-1) rangiora
Coprosma acerosa s.s. (+) sand coprosma
Coprosma propinqua ssp. propinqua (incl.
C. p. var. latiuscula) (h)(1 plant)
Coprosma repens (+) taupata
Coprosma robusta (+) karamu
Coprosma propinqua x C. robusta (+)
Kunzea robusta (c) (unc -1) kanuka
Leptospermum scoparium (+) manuka
Myrsine australis¹ (e) (unc 1) mapou
Olearia solandri (+)
Ozothamnus leptophyllus (+) tauhinu
Pimelea actea
Pimelea villosa sand daphne

Dicot Lianes

¹ Found by Aaron Madden, 15.4.13

<i>Calystegia sepium</i> ssp. <i>roseata</i>	(+)	convolvulus
<i>Calystegia soldanella</i>	(+)	sand convolvulus
<i>Muehlenbeckia complexa</i>	(+)	pohuehue
<i>Muehlenbeckia australis</i> X <i>M. complexa</i>	(e) unc	
<i>Parsonsia heterophylla</i>	(b) (unc)	NZ jasmine

Ferns

<i>Adiantum cunninghamii</i>	(+)	maidenhair fern
<i>Asplenium flabellifolium</i>	(b)	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>	(+a)	cliff kiokio
<i>Cyathea dealbata</i>	g (1)	ponga
<i>Cyathea medullaris</i>	(a) (5 seen)	mamaku
<i>Dicksonia fibrosa</i>	(+) (unc)	whekiponga
<i>Hypolepis ambigua</i>	(+a) (unc)	
<i>Microsorium pustulatum</i>	(b) (unc)	hound's tongue
<i>Paesia scaberula</i>	(b) (unc)	ring fern
<i>Pellaea rotundifolia</i>	(b) (2 plants)	button fern
<i>Pneumatopteris pennigera</i>		
<i>Polystichum neozelandicum</i> ssp. <i>zerophyllum</i>	(b) (1 plant)	shield fern
<i>Pteridium esculentum</i>	(+b)	bracken
<i>Pteris macilenta</i> (auct. NZ)	(a) (unc)	
<i>Pteris tremula</i>	(a) (unc)	shaking brake
<i>Pyrrhosia eleagnifolia</i>	(+) (unc)	leatherleaf fern
<i>Rumohra adiantiformis</i>	(b) (unc)	

Orchids

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

Sedges

<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> CHR 625858	(+a) ²	
<i>Isolepis cernua</i>	(+a)	
<i>Isolepis prolifer</i>	(a) (1 patch)	
<i>Machaerina (Baumea) juncea</i>	(+)	
<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.	(+a) (unc)	
<i>Juncus kraussii</i> var. <i>australiensis</i>	(+) (unc)	sea rush
<i>Juncus edgariae</i>	(a) (unc)	

Monocot Herbs Other Than Orchids, Grasses, Sedges, Rushes

<i>Lemna disperma</i>	(e)	duckweed
<i>Libertia peregrinans</i>	(+)(unc) ³	sand iris
<i>Phormium cookianum</i>	(+)	wharariki, mountain flax
<i>Phormium tenax</i>	(+)	haraakeke, flax
<i>Potamogeton ochreatus</i> [(Cockayne 1908)]		
<i>Stuckenia pectinata</i> [Aston 1910, as <i>Potamogeton pectinatus</i>]	(+) ⁴	
<i>Triglochin striatum</i>	(+)	arrow-grass
<i>Typha orientalis</i>	(+)	raupo

Composite Herbs

<i>Centipeda minima</i> (?) ⁵	(+) (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>)		

² Scattered along 100 m or so of damp sand beside vehicle track on sea-ward side of *Cupressus macrocarpa* grove on 2.9.06 and 30.3.13 & 15.4.13

³ 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'; but just 1 patch of sparse plants seen in 2015 & 2019

⁴ Rediscovered in water supply pond in pine forest, Jan. 1993 (pond beside forestry road behind village)

⁵ As recorded by Druce. Needs re-finding to check which of the 3 indigenous species it is, as defined by Walsh (2001)

agg)	(+)	cudweed
<i>Senecio glomeratus?</i> (only juv. seen)	(a) (unc)	native fireweed
<i>Senecio hispidulus</i>	(+) (unc)	native fireweed
<i>Senecio quadridentatus</i>		silver fireweed

Dicot herbs (other than composites)

<i>Acaena</i> sp. (<i>A. anserinifolia</i> or <i>A. nz.</i>)	(b)	bidibid/piripiri
<i>Apium</i> sp (<i>A. filiforme</i> auct NZ)	(+) (unc)	slender sea celery
<i>Crassula sieberiana</i>	(+) (unc)	
<i>Epilobium billardioreanum</i> s.s.	(+a)	willow-herb
<i>Epilobium nerteroides</i>		"
<i>Epilobium pallidiflorum</i>		"
<i>Gunnera arenaria</i>		sand gunnera
<i>Haloragis erecta</i>	(b) (1 plant)	
<i>Hydrocotyle novae-zeelandiae</i> s.s.	(+)	swamp pennywort
<i>Lilaeopsis novae-zelandiae</i>	(+)	tape-measure plant
<i>Limosella lineata</i>	(+)	
<i>Lobelia anceps</i>	(+)	NZ lobelia
<i>Lobelia</i> (<i>Pratia</i>) <i>perpusilla</i> [between Rangitikei & Turakina Rivers; Aston 1910: 236] ⁶		
<i>Mazus novaezeelandiae</i> ssp. <i>impolitus</i> .	(+) (unc)	
<i>Mentha cunninghamii</i>	(+a) (unc)	NZ mint
<i>Myriophyllum pedunculatum</i> ssp. <i>novae-zelandiae</i>		
<i>Myriophyllum votschii</i>		
<i>Oxalis rubens</i>	(+)	wiry oxalis
<i>Oxybasis ambigua</i> (<i>Chenopodium ambiguum</i>)		
<i>Persicaria decipiens</i> (<i>Polygonum salicifolium</i>)	(+)	NZ willow-weed
<i>Potentilla anserinoides</i>	(+)	silverweed
<i>Ranunculus acaulis</i>	(+)	sand buttercup
<i>Samolus repens</i> var. <i>repens</i>	(h)	sea primrose
<i>Sarcocornia quinqueflora</i>	(+)	glasswort
<i>Sebaea ovata</i>		
<i>Selliera rotundifolia</i> ⁷	(+)(unc)	half-star
<i>Tetragonia tetragonioides</i> ⁸	(e)	NZ spinach
<i>Viola cunninghamii</i> [Cockayne 1908]		

Number of Species

101 species (+ 1 hybrid)

References

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

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

⁶ 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?

⁷ 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*

⁸ Beside the green waste dump; perhaps this species should be listed under adventive species since there is no known evidence of its natural occurrence in Foxton Ecological District.

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

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

Gymnosperms

Pinus pinaster	a (unc)	maritime pine
Pinus radiata	a	

Dicot shrubs and lianes

Acacia sophorae	a	sand wattle
Alnus glutinosa	e	alder
Argyranthemum frutescens	e	marguerite
Artemisia arborescens	unc	hedge artemisia
Berberis glaucocarpa	⁹	barbery
Calystegia silvatica	d	greater bindweed
Chrysanthemoides monilifera	a	boneseed
Cotoneaster franchetii	f (u)	
Cotoneaster lacteus	a	
Crataegus monogyna	unc	hawthorn
Delairea odorata (Senecio mikanioides)	a (local)	German ivy
Echium candicans	a (local)	pride of Madeira
Erica lusitanica		Spanish heath
Euonymus japonicus	b (2 plants)	spindle tree
Fuchsia magellanica WELT	e	Magellan fuchsia
Hedera helix CHR 625845	e	garden ivy
Juglans ailantifolia [seedlings]	(unc)	Japanese walnut
Lavandula dentata CHR 625843 (& WELT)		lavender
Lupinus arboreus	a	tree lupin
Lycium ferocissimum	a	boxthorn
Malva dendromorpha (Lavatera arborea)	a	tree mallow
Paraserianthes lophantha	e (1 sdlg)	brush wattle
Pelargonium X asperum CHR	b (1)	
Pelargonium X hortorum	a (2)	zonal pelargonium
Pelargonium peltatum	b (unc)	ivy-leaved geranium
Pelargonium vitifolium CHR	b (1)	
Pittosporum crassifolium	a	karo
Populus alba	a	silver poplar
Prunus seracifera (cv. atropurpurea)	a (1 seen)	cherry plum
Rosa rubiginosa		sweet brier
Rumex sagittatus	b	climbing dock
Ruschia geminiflora CHR	b (1 seen)	
Salix cinerea	a	grey willow
Salix fragilis	a	crack willow
Salix matsudana CHR	unc (2)	tortured willow
Salpichroa origanifolia	e ¹⁰	lily-of-the-valley vine
Senecio angulatus	a	Cape ivy
Senna multiglandulosa	a (1)	cassia
Teline monspessulana	b (3-4 plants)	Montpellier broom
Ulex europaeus	a	gorse

⁹ Sept 2010, G La Cock

¹⁰ Dominant cover plant around green waste area on 9 Nov14

Vinca major 'Variegata' CHR 625844	e	variegated periwinkle
Monocot 'shrubs'		
Aloe arborescens	a (1 patch)	
Yucca gloriosa	a	yucca
Fern ally		
Equisetum arvense ¹¹	d	meadow horsetail
Dicot herbs		
Acanthus mollis (seedlings only)	b (1 patch)	bear's breeches
Aeonium arboreum CHR	b (3 plants)	
Amaranthus powellii	d	redroot
Amaranthus lividis	d	
Anemone coronaria	c (1 plant)	garden anemone
Apium nodiflorum	a	water celery
Anagallis arvensis	a	scarlet pimpernel
Aptenia cordifolia	b (1 plant)	
Aptenia 'Red Apple' WELT	e	
Arctotheca calendula	a	Cape daisy
Arctotis stoechadifolia	b	arctotis
Aster subulatus	a	sea aster
Atriplex prostrata	a	orache
Bellis perennis	a	lawn daisy
Beta vulgaris	unc	silverbeet
Bidens frondosa	unc	beggar's ticks
Borago officinalis	e (unc)	borage
Calendula officinalis	e (unc)	marigold
Carpobrotus sp.	a	iceplant
Centaurium erythraea	a	centaury
Cerastium glomeratum	b	annual mouse-eared chickweed
Cerastium tomentosum CHR	b (3 patches)	snow-in-summer
Cereus peruviana? CHR	b (1 plant)	a cactus
Chenopodium album	d (local)	fathen
Chenopodium murale	d (local)	nettle-leaved fathen
Chrysanthemum segetum	a (1 plant)	corn marigold
Cirsium arvense	unc	Californian thistle
Cirsium vulgare	a	Scotch thistle
Cotyledon orbiculata	a (unc)	
Crassula decumbens	(unc, g)	
Crassula multicava	b (local)	fairy crassula
Crassula tetragona CHR 624957	e (unc)	miniature pine tree
Crepis capillaris	a	hawkbit
Cucurbita maxima	d (local)	pumpkin
Datura stramonium	d (unc)	thornapple
Diplotaxis tenuifolia CHR 625847	e (unc)	perennial rocket
Epilobium parviflorum ¹²	d (unc)	willow herb

¹¹ Common in long grass etc. beside eastern-most end of the waterfront road – from camping ground east. First recorded 4.1.11, but so well-established that it was obviously here well before that; bearing abundant cones 3 Oct 15.

¹² 1st collection 4.1.11, a few plants near green waste dump, on peaty sand churned up during pine logging; growing among loc. common *E. billardioreanum*

Erigeron (Conyza) sumatrensis (syn. C. albida)	a	fleabane
Eschscholtzia californica	d (unc)	Californian poppy
Euphorbia lathyris	e (unc)	caper spurge
Euphorbia peplus	e (unc)	milk weed
Euphorbia stricta	f, patch c. 5 m diam	upright spurge
Fumaria muralis	a	scrambling fumitory
Galinsoga parviflora	d (local)	Kew weed
Galium aparine	b	cleavers
Galium palustre	b	marsh bedstraw
Gazania rigens	a	gazania
Geranium molle		soft dovesfoot
Helleborus foetidus ¹³ CHR	a (unc)	winter rose
Helminthotheca (Picris) echioides	a	ox-tongue
Hypericum perforatum	e	St John's wort
Hypochoeris radicata	a	catsear
Jacobaea vulgaris (Senecio jacobaea)	a	ragwort
Lactuca virosa	a	wild lettuce
Leontodon saxatilis (syn. L. taraxacoides)	a	hawkbit
Lepidium didymum (Coronopus didymus)	a	twin cress
Linum bienne	a	pale flax
Lobularia maritima	unc	sweet alyssum
Lotus pedunculatus	a	lotus major
Lotus tenuis CHR	a	
Lunaria annua	e (unc)	honesty
Lythrum hyssopifolia	a (unc)	hyssop loosestrife
Malva dendromorpha (Lavatera arborea)	e (local)	tree mallow
Malva neglecta?	e (unc)	mallow
Malva nicaeensis	f (small patch)	French mallow
Medicago lupulina		black medick
Medicago nigra	b	burr medick
Melanoselinum decipiens	a (unc)	parsnip palm
Melilotus indica		King Island melilot
Mentha X piperita var. piperita?	e (unc)	peppermint
Mentha pulegium		pennyroyal
Mentha suaveolens CHR 625846	e (unc)	apple mint
Moenchia erecta	c	
Myosotis laxa		water forget-me-not
Myosotis sylvatica	b (1 patch)	garden forget-me-not
Myriophyllum aquaticum CHR	unc	parrot's feather
Nasturtium officinale (?)		watercress
Nigella damascena CHR	f (1 flg sdlg)	love-in-the-mist
Oenothera stricta	a	evening primrose
Opuntia ficus-indica	c	prickly pear
Opuntia monacantha CHR 624958	e (unc)	prickly pear
Orobanche minor	a	broom-rape
Osteospermum jucundum	b (local)	
Oxalis articulata	a (local)	sourgrass
Oxalis incarnata	b	lilac oxalis
Oxalis pes-caprae	a	Bermuda buttercup
Papaver atlanticum?	c	
Papaver rhoeas	f (1 plant)	field poppy

¹³ 1st NZ record of this plant in the wild (found by G La Cock; collected 4.9.06)

Parentucellia viscosa	a	tarweed
Persicaria (Polygonum) hydropiper	aa	water pepper
Plantago australis?	a	swamp plantain
Plantago major	a	broad-leaved plantain
Polycarpon tetraphyllum	g (local)	allseed
Polygonum aviculare?	d	wireweed
Portulacca oleracea	d (unc)	purslane
Prunella vulgaris	e (unc)	self-heal
Ranunculus repens	a	creeping buttercup
Ranunculus sceleratus	a	celery-leaved buttercup
Ranunculus trichophyllus	a	water buttercup
Raphanus raphanistrum	a	wild radish
Rumex conglomeratus	a	clustered dock
Rumex crispus	a	curled dock
Rumex obtusifolius	a	broad-leaved dock
Salpichroa origanifolia	a	lily of the valley vine
Sedum praealtum	a (unc)	shrubby stonecrop
Sedum spectabile	b (2)	
Senecio elegans	a	purple groundsel
Senecio glastifolius	a	pink ragwort (holly-leaved senecio)
Sisymbrium officinale	a	hedge mustard
Solanum chenopodioides	a	velvety nightshade
Solanum lycopersicum	d (unc)	tomato
Solanum nigrum	a	black nightshade
Solanum tuberosum	a (local)	potato
Sonchus asper	a	prickly sowthistle
Sonchus oleraceus	a	puwha
Spergularia rubra	a	sand spurrey
Stachys palustris ¹⁴ CHR	aa	marsh woundwort
Stellaria media	a	chickweed
Trifolium arvense	a	haresfoot trefoil
Trifolium dubium	a	suckling clover
Trifolium fragiferum	d (locally common)	strawberry clover
Trifolium repens	a	white clover
Trifolium subterraneum	b	subterranean clover
Tropaeolum majus	a (unc)	nasturtium
Verbascum thapsus	b (1)	woolly mullein
Verbena officinalis	e (unc)	purpletop
Veronica anagallis-aquatica	h	water speedwell
Veronica persica	a (unc)	scrambling speedwell
Vicia sativa	a	vetch
Vicia disperma	a [d] (unc)	two-seeded vetch
Viola odorata	b (1 patch)	violet

Monocot herbs

Grasses

Agrostis stolonifera	a	creeping bent
Aira caryophyllea	a	silvery hair grass
Ammophila arenaria	a	marram grass

¹⁴ Marsh woundwort is recorded in NZ from only 2 locations, viz. "mainly near Turakina R" and "Hokio estuary (near Levin)" (*Flora of NZ* Vol 4. P 796. 1988); found 2013 at Whenuakura estuary

<i>Anthoxanthum odoratum</i>	a	sweet vernal
<i>Briza maxima</i>	f ¹⁵	quaking grass
<i>Briza minor</i>	a	quaking grass
<i>Bromus diandrus</i>	a	ripgut brome
<i>Bromus willdenowii</i>	e	prairie grass
<i>Cenchrus clandestinus</i> (<i>Pennisetum clandestinum</i>)	a	kikuyu grass
<i>Cortaderia jubata</i>	e	purple pampas
<i>Cortaderia seloana</i>	a	pampas grass
<i>Cynodon dactylon</i>	a	Indian doab
<i>Dactylis glomerata</i>	a	cocksfoot
<i>Digitaria sanguinalis</i>	e (local)	summer grass
<i>Ehrharta erecta</i>	a (local)	veld grass
<i>Ehrharta villosa</i> CHR (& other NZ herbaria)	a	pyp grass
<i>Eleusine indica</i>	h	crow's foot
<i>Elytrigia pycnantha</i>	h	sea couch
<i>Elytrigia repens</i>	a (local)	couch
<i>Festuca rubra</i> ssp. <i>commutata</i>	a	Chewings fescue
<i>Glyceria declinata</i>	a	floating sweetgrass
<i>Holcus lanatus</i>	a	Yorkshire fog
<i>Lagurus ovatus</i>	a	haretail
<i>Lolium</i> (<i>Festuca</i>) <i>arundinacea</i>	a	tall fescue
<i>Lolium perenne</i>	a	perennial ryegrass
<i>Paspalum dilatatum</i>	a	paspalum
<i>Paspalum distichum</i>	a	Mercer grass
<i>Poa annua</i>	b	annual poa
<i>Polypogon monspeliensis</i>	a	beard grass
<i>Setaria palmifolia</i>	e (unc)	palm grass
<i>Sporobolus africanus</i>	a	ratstail
<i>Vulpia bromoides</i>	a	vulpia hair grass

Monocot herbs other than grasses

<i>Agapanthus praecox</i>	loc. common	agapanthus
<i>Alisma lanceolatum</i>	unc	water plantain
<i>Allium cepa</i>	a	onion
<i>Allium triquetrum</i>	a	3-cornered garlic
<i>Aloe maculata</i> (<i>A. saponaria</i>) CHR	d	
<i>Alstroemeria ligtu</i> hybrid CHR	b	Peruvian lily
<i>Aristea ecklonii</i>	e (2 clumps)	aristea
<i>Babiana angustifolia</i> (<i>B. stricta</i> of NZ authors)	b	baboon flower
<i>Canna</i> sp.	a (unc)	canna lily
<i>Chasmanthe floribunda</i> CHR	b (1 patch)	
<i>Crococsmia x crocosmiiflora</i>	a	montbretia
<i>Cyperus albobstriatus</i>	a (1 clump)	
<i>Cyperus congestus</i>	e	
<i>Cyperus eragrostis</i>	unc	
<i>Freesia refracta</i> cv. (pink fl.)	a	freesia
<i>Gladiolus carneus</i>	f	
<i>Hyacinthoides</i> (<i>Scilla</i>) <i>non-scripta</i>	b	
<i>Hyacinthus orientalis</i> CHR	a (unc)	hyacinth
<i>Iris germanica/pallida?</i>	b	bearded iris?

¹⁵ 1st listed 9Nov14, but almost certainly here much earlier and overlooked.

<i>Ixia maculata</i> CHR	c	ixia
<i>Juncus articulatus</i>	a	jointed-leaved rush
<i>Juncus bufonius</i>	a	toad rush
<i>Juncus effusus</i>	e (1)	soft rush
<i>Juncus subnodulosus</i> ¹⁶ CHR 625842, 624596	e	
<i>Kniphofia</i> sp.	e (1 plant)	redhot poker
<i>Muscari armeniacum</i> CHR	b (unc)	grape hyacinth
<i>Narcissus tazetta</i>	a (unc)	jonquil
<i>Potamogeton crispus</i>	a	curled pondweed
<i>Scilla peruviana</i>	c	
<i>Sisyrinchium</i> 'blue'	e	
<i>Sparaxis grandiflora</i> ssp. <i>fimbriata</i> CHR	b (a few patches)	
<i>Sparaxis tricolor</i> CHR	b (unc.)	
<i>Tradescantia cerinthoides</i> CHR	b (1 patch)	
<i>Watsonia aletroides</i> CHR	b (1 clump)	watsonia
<i>Watsonia bulbillifera</i> (?)	a	watsonia
<i>Zantedeschia aethiopica</i>	b (1 patch)	arum

Species of Special Note

A	<u>Indigenous</u>	<u>National Status</u> ¹⁷
	<i>Centipeda minima</i>¹⁸	Nationally Critical
	<i>Pimelea actea</i>	Nationally Critical
	<i>Sebaea ovata</i>	Nationally Critical
	<i>Mazus novaezeelandiae</i>	
	subsp. <i>impolitus</i>	Nationally Endangered (A3)
	<i>Libertia peregrinans</i>	Nationally Vulnerable (D3)
	<i>Coprosma acerosa</i> s.s.	At Risk – Declining
	<i>Ficinia spiralis</i>	At Risk – Declining
	<i>Gunnera arenaria</i>	At Risk - Declining
	<i>Isolepis basilaris</i>	At Risk – Declining (A2)
	<i>Mentha cunninghamii</i>	At Risk - Declining
	<i>Pimelea villosa</i>	At Risk – Declining (B1)
	<i>Oxybasis ambigua</i>	At Risk – Declining
	<i>Selliera rotundifolia</i>	At Risk – Declining (A1)
	<i>Stuckenia pectinata</i>	At Risk - Naturally Uncommon

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)

¹⁶ Recorded in Flora of NZ Vol.3 as being only in Canterbury and Otago; locally abundant on 15.4.13

¹⁷ **Conservation status of New Zealand indigenous vascular plants** (2017): Peter J. de Lange, Jeremy R. Rolfe, John W. Barkla, Shannel P. Courtney, Paul D. Champion, Leon R. Perrie, Sarah M. Beadel, Kerry A. Ford, Ilse Breitwieser, Ines Schönberger, Rowan Hindmarsh-Walls, Peter B. Heenan and Kate Ladley. May 2018, New Zealand Department of Conservation

¹⁸ As recorded by Druce. Almost certainly not this species, but *Centipeda* needs re-finding to check which of the indigenous species it is, as defined by Walsh (2001) (See footnote #4).

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

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

Tradescantia cerinthoides: 1st NZ record as adventive?