

Vascular Plants of Patea dunes: garden waste dump site

Wanganui Plant List 119

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List compiled from visits 14 July, 3 August, 14 & 25 Sept., 23 Nov. 1999, 6 March 2000; 11 Sept 2000; 5 March 2001 (GLC, Susan Timmins, Kate Blood); 18 Feb 2002 (GLC & CCO); CCO 17 April 02; GLC 1 Nov. 2002; CCO & GLC 14 Jan 2003; GLC 5 June 2003; CCO 31 July 03; GLC 30 June 2005.

Last amended 4.7.05

All species recorded below are established in the dune area from garden waste as seed or from bulbs, tubers, corms or other vegetative means, including rooted prunings, except for those as noted. The right hand column is for voucher specimens deposited in CHR (Landcare Research herbarium, Lincoln).

^ new since last edition of list

<u>Trees & Shrubs</u>	Common names	Voucher specimens CHR
<i>Argyranthemum frutescens</i>	marguerite daisy	
<i>Artemisia arborescens</i>	hedge artemisia	532890
<i>Buddleja davidii</i>	purple buddleia	
<i>Coprosma repens</i>	taupata ¹	
<i>Corynocarpus laevigatus</i>	karaka ²	
<i>Echium candicans</i>	pride of Madeira	CHR
<i>Echium pininana</i>		
<i>Ficus carica</i>	edible fig	
<i>Fuchsia</i> sp. (unidentified)	garden fuchsia [young rooted piece with flower]	CHR
<i>Hydrangea macrophylla</i>	hydrangea	
<i>Impatiens sodenii</i>	shrub balsam	
<i>Lupinus arboreus</i>	tree lupin	
<i>Lycium ferocissimum</i>	boxthorn <i>Present before dumping (+from cuttings 5/3/01)</i>	
<i>Olearia traversii</i>	Chatham I akeake	
<i>Paraserianthes lophantha</i>	brush wattle	
<i>Pelargonium Xasperum</i>		
<i>Pelargonium Xhortorum</i>	zonal pelargonium	CHR
<i>Phoenix canariensis</i>	phoenix palm	
^ <i>Pittosporum crassifolium</i>	karo	
<i>Populus deltoides</i> ?	Necklace? Poplar	
<i>Ricinus communis</i>	castor oil plant (5/3/01)	
<i>Rosa</i> sp. (unidentified)	rose [young rooted piece – bush or scrambler?]	
<i>Salix cinerea</i>	grey willow	
<i>Salix fragilis</i>	crack willow	
<i>Salix matsudana</i> cv. "Tortuosa"	tortured willow	
<i>Sambucus nigra</i>	elderberry	
<i>Solanum aviculare</i>	poroporo (native, but from dumped garden waste; 5/3/01)	
<i>Tamarix chinensis</i>	tamarisk (30/3/01)	526027
<i>Ulex europaeus</i>	gorse <i>Present before dumping (seedlings- new site 5/3/01)</i>	
<u>Vines</u>		
<i>Anredera cordifolia</i>	Madeira vine	
<i>Calystegia sepium</i> agg.	convolvulus	

¹ Growing naturally and planted near the dump; seedlings self establishing among dumped materials.

² One karaka seedling on 17.4.02; c 10 on 14.1.03. Species is native to the district, but this dune occurrence is the result of seeds dumped in garden waste

Calystegia soldanella ³	sand convolvulus (<i>natural to area</i>)	
Cucurbita maxima	pumpkin and buttercup	526242 A,B,C
Muehlenbeckia complexa	small-leaved pohuehue (<i>growing naturally on edge of dumped material</i>)	
Pandorea pandorana	wonga vine	532903
Rubus fruticosus agg.	blackberry	
Rumex sagittatus	climbing dock	
Tetragonia tetragonioides	NZ spinach ⁴	CHR (CCO 4102)
Vinca major	periwinkle	
<u>Dicot herbs</u>		
Acanthus mollis	bear's breeches	
Alcea rosea	hollyhock	
Amaranthus deflexus	prostrate amaranth	CHR
Amaranthus powellii	redroot	526238
Amaranthus lividus	purple amaranth	
Anagallis arvensis	scarlet pimpernel	
Angelica pachycarpa	false angelica	
Anthemis cotula	stinking mayweed	
Aphanes inexpectata?	Parsley piert	
Aptenia cordifolia	(<i>a succulent related to ice-plant</i>)	CHR (CCO 4125)
Arctotheca calendula	Cape daisy	
Bellis perennis	lawn daisy	
Beta vulgaris	silver beet	
Borago officinalis	borage	CHR
Brassica napus?	Rape	532896
Brassica oleracea var. italica	broccoli	532900
Brassica rapa	wild turnip	532895
Calendula officinalis	marigold	532886
Cannabis sativa	cannabis	
Capsella bursa-pastoris	shepherd's purse	
Cardamine hirsuta	bittercress	
Centaurea cyanus	cornflower	536558
Centranthus ruber	valerian	532908
Cerastium glomeratum	mouse-eared chickweed	
Cerithe major	honeywort	532893
Cheiranthus cheiri	wallflower	532902, 541836
Chenopodium album agg.	fathen	
Chenopodium murale	nettle-leaved fathen	
Chrysanthemum segetum	corn marigold	
Cirsium vulgare	Scotch thistle	
Conium maculatum	hemlock	
Conyza albida	fleabane	
Coronopus didymus	twincress	
Cosmos bipinnatus	cosmos	
Cotula australis ⁵		
Crepis capillaris	hawksbeard	
Cymbalaria muralis	ivy-leaved toadflax	
Cynara scolymus/cardunculus	globe artichoke/cardoon	
Dahlia coccinea X D. pinnata	dahlia	526022
Datura stramonium	thornapple	CHR 18/2/02
Daucus carota	carrot	
Dendranthema cv	garden chrysanthemum	CHR (CCO 4107)

³ May occur naturally on local dunes, but one plant found 14.1.03 on clay fill used to cover the garden waste.

⁴ Native to NZ but not this district; established at the dump from garden - a number of well-established and fruiting plants in 2002 and persisting in Jan 03

⁵ Considered by some to be a NZ native, but arrived here in garden waste

Dianthus barbatus	sweet william	
Dichondra micrantha	Mercury Bay weed (exotic sp.)	
Digitalis purpurea	foxglove	
Echium plantagineum	Paterson's curse	532901
Epilobium komarovianum	willow-herb (<i>natural to area – on bank beside dump</i>)	
Erodium moschatum	musky storksbill	CHR (CCO 4129)
Eschscholtzia californica	Californian poppy	532897
Euphorbia helioscopia	sun spurge	
Euphorbia lathyris	caper spurge	
Euphorbia peplus	milkweed	
Foeniculum vulgare	fennel	
Fumaria muralis	fumitory	
Galinsoga parviflora	galinsoga	
Galium aparine	cleavers	
Gazania rigens	gazania	CHR
^Gazania linearis	gazania	
Geranium dissectum	cut-leaved geranium	
Geranium maderense	Madeira geranium	
Geranium molle	dove's foot crane's bill	
Helianthus annuus	sunflower	
Helminthotheca echioides	oxtongue	
Hypochoeris radicata	catsear	
Iberis umbellata	candytuft	536556
Lactuca sativa	lettuce	532899
Lamium purpureum	red dead nettle	
Lathyrus odoratus	sweet pea	
Lavatera arborea	tree mallow	
Lavatera cretica	Cretan mallow	
Leontodon taraxacoides	hawkbit	
Leucanthemum paludosum		532892
Linaria maroccana	garden linaria	532906
Linaria purpurea	purple linaria	
Lobelia erinus	bedding lobelia	536404
Lobularia maritima	alyssum	
Lunaria annua	honesty	
Lychnis coronaria	rose campion	
Lycopersicon esculentum	tomato	CHR
Malcolmia maritima	Virginia stock	532891, 532907
Malva parviflora	small-flowered mallow	CHR (CCO 4128)
Matricaria discoidea	rayless chamomile	
Matthiola incana	stock	541835
Medicago lupulina	black medick	
Medicago nigra	bur medick	
Melilotus indicus	King Island melilot	
Mentha x piperita var. citrata	eau-de-Cologne mint	
Mirabilis jalapa	marvel of Peru (5/3/01)	526020, 526021
Modiola caroliniana	creeping mallow	
Myosotis arvensis	field forget-me-not	
Myosotis sylvatica	garden forget-me-not (blue & white fld plants)	541832
Nicandra physaloides	apple of Peru	
Nicotiana sylvestris		
Nicotiana X sanderae	garden nicotiana	536561
Oenothera biennis	evening primrose	526239
Osteospermum fruticosum	dimorphotheca	
Oxalis articulata	sour-grass	CHR
Oxalis corniculata s.s.	horned oxalis	CHR 18/2/02

Oxalis incarnata	lilac oxalis		
Oxalis latifolia	fish-tail oxalis		
Oxalis pes-caprae	Bermuda buttercup		
Oxalis vallicola		526241	
Papaver rhoeas	field poppy	536555	
Pastinaca sativa	parsnip	CHR	
Pelargonium aspersum or P. peltatum	geranium		
Pentaglottis sempervirens	alkanet	536557	
Pericallis x hybrida	cineraria		
Petroselinum crispum	parsley	532905	
Physalis peruviana	cape gooseberry		
Phytolacca octandra	inkweed		
Pisum sativum	garden pea	532898	
Plantago lanceolata	narrow-leaved plantain		
Plantago major	broad-leaved plantain	CHR	
Plantago triandra var. (P. masoniae) ⁶	(<i>native sp., prob. self-introduced to site</i>)		
Polycarpon tetraphyllum	allseed		
Polygonum arenastrum	wireweed	CHR (CCO 4133)	
Polygonum persicaria	willow-weed		
Portulaca oleracea	purslane		
Pseudognaphalium luteo-album agg.	cudweed (<i>natural to area – on bank beside dump</i>)		
Ranunculus ficaria ssp. ficariiformis	celadine		
Raphanus raphanistrum	wild radish		
Raphanus sativus	radish	532885	
Reseda alba	mignonette	532912	
Rheum rhabarbarum	rhubarb		
Rumex crispus	curled dock		
Rumex obtusifolius	broad-leaved dock	CHR (CCO 4131)	
Sagina procumbens	pearlwort		
Scabiosa atropurpurea	annual scabious	536405	
Sedum kimnachii (= S. decumbens of NZ authors)			
Sedum spectabile			
Senecio elegans	purple groundsel		
Senecio skirrhodon	gravel groundsel		
Senecio vulgaris	groundsel		
Silene coeli-rosea	viscaria	536559	
Silene gallica	catchfly		
Silene sp. (unidentified)		541833	
Sisymbrium officinale	hedge mustard		
Sisymbrium orientale	oriental mustard		
Solanum nigrum	black nightshade		
Solanum tuberosum	potato		
Soliva sessilis	Onhunga weed		
Sonchus asper	prickly sow thistle		
Sonchus oleraceus	puwaha, sowthistle		
Spergula arvensis	spurrey		
Stachys arvensis	staggerweed		
Stachys sylvatica	hedge woundwort		
Stellaria media	chickweed		
Stellaria neglecta		532894	

⁶ Occurs naturally on mudstone seacliffs to west of dump area. One plant 14.1.03 on clay fill used to cover the garden waste. Presumed to have arrived by natural seed dispersal.

Symphytum sp.	comfrey	
Tagetes sp. (unidentified)	French marigold	532904
Taraxacum officinale	dandelion	
Trifolium pratense	red clover	
Trifolium repens	white clover	
Tropaeolum majus	nasturtium	
Urtica urens	nettle	
Verbascum thapsus	woolly mullein	
Veronica persica	scrambling speedwell	
Vicia sativa	vetch	
Viola tricolor (+ V. x wittrockiana?)	heartease (+ pansy hybrid??)	CHR (CCO 4126, 4127)
Grasses		
Agrostis capillaris	browntop	
Agrostis stolonifera	creeping bent	
Ammophila arenaria	marram <i>Present before dumping</i>	
Avena sativa	oats	CHR (CCO 4134)
Bromus diandrus	ripgut brome	CHR (CCO 4132)
B. lithobius		
B. willdenowii	prairie grass	
Cortaderia selloana	pampas grass	
Cynodon dactylon	Indian doab	
Dactylis glomerata	cocksfoot	
Digitaria sanguinalis	summer grass	
Echinochloa crus-galli	barnyard grass	
Ehrharta erecta	veld grass	
Eleusine indica	crowsfoot grass	
Elytrigia repens	couch	
Holcus lanatus	Yorkshire fog	
Hordeum murinum	barley grass	
Hordeum or Triticum	barley/wheat	
Lagurus ovatus	hare's tail	
Lolium multiflorum	Italian rye-grass	
Lolium perenne	perennial ryegrass	
Paspalum dilatatum	paspalum	
Pennisetum clandestinum	kikuyu grass	
Phalaris minor	canary grass	
Phormium sp.	NZ flax (indigenous, but growing from dumped plants)	
Poa annua	annual poa	
Pseudosasa japonica	bamboo	
Setaria palmifolia	palm grass	
Setaria verticillata	rough bristle grass	526240
Monocot herbs other than grasses		
Agapanthus orientalis	agapanthus	
Allium neapolitanum		CHR
Allium porrum	leek	532889
Allium triquetrum	three-cornered garlic	
Alocasia brisbanensis	elephant's ear	
^Aloe arborescens	Krantz (Afrikaans for cliff) aloe	
Arum italicum	Italian arum	
Canna sp. (unidentified)	canna lily	
Chlorophytum comosum		
Colocasia esculenta	taro	536560
Crococsmia X crocosmiiflora	montbretia	
Cyperus albostratus		CHR (CCO

		4130)
Eucomis comosa	pineapple flower	CHR (GLC:4/11/02)
Freesia refracta	freesia (white, cream & yellow flower colours)	
Furcraea sp.	furcraea	(Being grown 2003 by C Higgie)
Gladiolus natalensis?	gladiolus	
Hyacinthus orientalis?	hyacinth	532888
Isolepis nodosa	club sedge (<i>natural to area – in dune sand beside dump</i>)	
Iris foetidissima	stinking iris	
Iris tingitana X Ixiphium	Dutch iris	532909
Iris sp. (unidentified)	bearded iris?	
Ixia maculata?	ixia	
Kniphofia sp. (K. uvaria cv ?)	red-hot poker <i>Planted and growing from discards</i>	
Lachenalia sp. (unidentified)	lachenalia	532887
Lilium sp.	Christmas lily (or similar sp.)	
Narcissus pseudonarcissus	daffodil	541837
Nothoscordum inodorum	scentless onion	
Scilla non-scripta	bluebell	532910
Sparaxis tricolor	sparaxias	532913, 541834
Tradescantia fluminensis	wandering Jew	
Triteleia uniflora (Ipheion uniflorum)		532911
^Veltheimia sp?		Grown on by GLC and CCO
Watsonia meriana	watsonia	537515, 536591
Zantedeschia aethiopica	arum lily	
Ferns		
Nephrolepis cordifolia	tuber sword fern (dumped material, but not established - G La Cock 17/10/01)	

About 9 species listed above are considered indigenous to the area; a further 7 or so indigenous NZ species

have arrived in garden refuse. Almost all of the 252 exotic species have arrived in garden refuse (exceptions would be marram grass, tree lupin and perhaps some daisy herbs like cat's ear and hawkbit).