Wanganui Plant List 8

Department of Conservation, Wanganui Vascular plants for Gordon Park Reserve

C C Ogle

Reserve is 14.5 ha, about 10 ha of forest and 4 ha in pasture and other exotic plants and young native plantings.

This forest remnant is of an extremely rare type and contains many species which are uncommon in the Wanganui district today. Most of the notable species are characteristic of periodically wet, high fertility soils of river flood plains. Most such forests have been cleared in this district.

Typical indicator plants of such sites are matai, titoki, *Coprosma propinqua, C. rigida, C. rotundfolia*, narrow-leaved lacebark, rohutu, *Melicope simplex*, black maire, *Melicytus micranthus*, kaikomako, lemonwood, ribbonwood, *Pseudopanax anomalus*, swamp maire, *Clematis foetida*, climbing fuchsia, *Metrosideros colensoi*, NZ passionflower, *Rubus schmidelioides*, forest starwort, *Gratiola nana*, *Parietaria debilis, Mazus novaezeelandiae, Carex lambertiana, Adiantum diaphanum, Cardamine* 'Long Style' and *C. corymbosa*. agg.

List compiled by Wanganui Museum Botanical Group on visits 6.10.68, 9.7.70 (either or both the 1st two dates with N Simpson, AP Druce, J Liddell, A King & others), 24.11.92; 1.5.04; 30.11.04 and numerous visits by C C Ogle¹ from January 1990. Numerous additions from inaugural workday of Friends of Gordon Park on 4 Nov. 06 and later in 2006 and through 2007-2010

Converted to Table format 12 Oct 2004; last additions and revisions 12 Oct 2010

Abundance Ratings

- a = abundant
- c = common
- o = occasional
- u = uncommon (or actual no. of specimens stated)
- 1 = local (species in small area, but can be common or abundant there)
- i = iuvenile plants
- p = planted specimens (+p indicates both natural and planted specimens present)

Where a species has not been seen since 1990, an abundance rating is not given.

1 SPECIES INDIGENOUS TO NEW ZEALAND

1 STECHES HYDIGHTY COS TO THEY PERMITE		
Latin name	Common name	Abundance
Gymnosperm Trees (Podocarps)		
Dacrycarpus dacrydioides	kahikatea	С
Podocarpus totara ²	totara	u
Prumnopitys taxifolia	matai	0

¹ 22 Forres Street, Wanganui

² Possibly planted rather than natural to this site.

Latin name	Common name	Abundance
Monocot Trees		
Cordyline australis	cabbage tree	o (+p)
Rhopalostylis sapida	nikau	u (j o)
Dicot Trees and Shrubs		
Alectryon excelsus	titoki	a
Beilschmiedia tawa	tawa	a
Brachyglottis repanda	rangiora	o
Carmichaelia arborea var.	NZ broom	u
Carpodetus serratus	putaputaweta	u
Coprosma areolata		С
Coprosma propinqua		u
Coprosma rigida		1
Coprosma robusta	karamu	u (4.106)
Coprosma rotundifolia		0
Coprosma propinqua x C. robusta		u
Corynocarpus laevigatus ³	karaka	c (mostly juv.)
Elaeocarpus hookerianus ⁴	pokaka	u
Geniostoma ligustrifolium	hangehange	0
Hoheria angustifolia	narrow-leaved lacebark	0
Hoheria populnea var. populnea ⁵	lacebark, houhere	o?
Hoheria sexstylosa	lacebark, houhere	0
Knightia excelsa ⁶	rewarewa	
Kunzea ericoides	kanuka	1j
Laurelia novae-zelandiae	pukatea	0
Lophomyrtus bullata	ramarama	u
Lophomyrtus obcordata	rohutu	u
Macropiper excelsum	kawakawa	o
Melicope simplex	poataniwha	0
Melicytus micranthus	small-leaved mahoe	С
Melicytus ramiflorus	mahoe	a
Melicytus micranthus X M. ramiflorus		o
Myrsine australis	mapou	u
Nestegis cunninghamii	black maire	u
Nestegis lanceolata	white maire	u (juv. only)
Pennantia corymbosa	kaikomako	o
Pittosporum crassifolium ⁷	karo	1 seedling 12/06
Pittosporum eugenioides	lemonwood, tarata	1 (west edge)

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³ Being eradicated from mid-2006, as not indigenous to this district

⁴ Adult, +1 sapling recently broken off (1990)

⁵ This species has broader leaves than the following, and is a garden escape or from past plantings; *H. sexstylosa* is indigenous to Wanganui; the 2 may be hybridisin at GPSR

⁶ recorded by Botanical Group in 1970, in forest transect; placed in "Class 20-30 cm dbh."

⁷ 1 seedling found 12/06, removed and vouchered to CHR; not indigenous to southern North Island, presumably brought here from a garden by a bird. A 2 m plant found Feb 07 & removed

Latin name	Common name	Abundance
Pittosporum tenuifolium	kohuhu	О
Plagianthus regius ⁸	ribbonwood, manatu	u
Pseudopanax arboreus	five-finger	u
Pseudopanax crassifolius	lancewood, horoeka	u
Pseudopanax lessonii ⁹	houpara, coastal five-	О
	finger	
Raukaua (Pseudopanax) anomalus		О
Schefflera digitata	pate	u
Solanum aviculare	poroporo ¹⁰	u (1 st record 12/09)
Solanum laciniatum	poroporo	u (1st record 1/10)
Sophora godleyi ¹¹	kowhai	o
Sophora microphylla	kowhai	(possibly p, but regenerating)
Streblus heterophyllus	small-leaved milktree,	c
	turepo	
Syzygium maire ¹²	swamp maire, maire	u
	tawake	
Urtica ferox ¹³	shrub nettle, ongaonga	
Vitex lucens ¹⁴	puriri	u
Dicot Lianes		
Calystegia tuguriorum		u
Clematis foetida	scented clematis	u
Clematis forsteri	green clematis	u (1 juv. vine 26.9.09 [CCO];
		12.1.10 [F McGowan])
Clematis paniculata?	puawhananga	
Fuchsia perscandens	climbing fuchsia	u

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⁸ 1 male tree 24.11.92; 1 female tree 28.2.95; 2 seedlings recorded in 1968 or 1970; 1 seedling c. 1998; 5 or more seedlings close to circuit track 2 March 2005 (CCO & G Jane); many dozens of juveniles up to 1.5 m tall seen on 3.11.06 (loc. as for 2.3.05); 1 flowering adult found close by the seedlings 10.12.06, but it died in about Jan. 2008.

⁹ Found by C Devine 4.11.06, removed and vouchered to CHR; not indigenous to southern North Island, presumably brought here from garden by birds; another 10 or more, from 6.2.07 onwards, some to > 3 m tall; some appear to hybrids with *P. crassifolius*.

Both poroporo species may have been here for many years but were simply not recorded until the summer of 09-10, perhaps because they weren't both seen in flower before then.

It has not been possible to collect foliage from each of the adult trees for identification of the species, but juveniles that we find are both divaricating and non-divaricating; the typical naturally occurring kowhai (*Sophora godleyi*) of Wanganui district does not have a divaricating juvenile stage but *S. microphylla* does. The latter may not be native to the Wanganui district.

Record in 1970 list by Wanganui Botanical Group but rediscovered 22.7.07 (CCO) as a 1.2 m juvenile – possible adult tree(s) nearby but yet to be found. On 26.9.09 a 5-6 m tree (8 cm dbh) found close by the sapling – except the sapling was missing, poss. crushed by fallen dead tawa.

Not seen since before 1988 until a 1-m shrub & 3 seedlings found by G Wilson 20.3.07, c. 50 m from *Gratiola*; 2nd patch found C Devine Aug 07; 3rd plant found Dec/09 (CCO)

Seedling in forest 1 May 2004; removed and vouchered as CHR 570515; probably brought by bird. Maybe 30 or more found 2005-09 and removed (some for planting elsewhere in Wanganui.)

Latin name	Common name	Abundance
Metrosideros colensoi	climbing rata	u
Metrosideros diffusa	climbing rata	u
Metrosideros perforata	climbing rata	
Muehlenbeckia australis	pohuehue	С
Muehlenbeckia complexa	small-leaved pohuehue	u
Muehlenbeckia australis x	hybrid pohuehue	u
M.complexa		
Parsonsia heterophylla	NZ jasmine	o (j common)
Passiflora tetrandra	NZ passionflower, kohia	o (j common)
Rubus australis	lawyer	u
Rubus schmidelioides	lawyer	O
Rubus australis x R. schmidelioides	lawyer	u
Monocot Lianes		
Freycinetia banksii	kiekie	
Ripogonum scandens	supplejack	0
Dicot Herbs		
Acaena anserinifolia	bidibid, piripiri	u
Callitriche muelleri	forest starwort	1 (o?)
Cardamine sp. (C. debilis agg; C. "Long	bittercress	o
Style" of Pritchard (1957)	·	
Cardamine sp. (C. debilis agg; C.	bittercress	u
"Narrow Petal" of Pritchard (1957)	·	
Cardamine sp. (C. corymbosa agg.)	·	lc
Epilobium sp. (unidentified)	willowherb	u (1 patch, Nov.08)
Geranium homeanum	<u> </u>	1 plant, a stoloniferous patch
Gratiola concinna (G. nana of NZ		1
authors) ¹⁵		
Hydrocotyle heteromeria	waxweed	lc
Mazus novaezeelandiae ssp.	dwarf musk	u
novaezeelandiae 16		
Oxalis exilis (?)		
Parietaria debilis	native pellitory	0
Senecio hispidulus	fireweed	1
Senecio minimus	fireweed	u (1 on 4.11.06)
Senecio bipinnatisectus X S. minimus ¹⁷	hybrid fireweed	u (1 by loop track Sep 09)
Stellaria parviflora	NZ chickweed	u

Found 10 Dec 06 but not identified until 6 Feb 07 (CCO); not the same species as Australian G.

¹⁶ 1 patch found inside loop track, north end; 9 Dec 08 by G La Cock; 6 more patches found within 50 m in Jan 2009.

¹⁷ Non-flowering material collected for AK Sep 09; pot-grown from cuttings by CCO until it flowered in Feb. 2010 – sent to P de Lange who confirmed its identity. This suggested hybrid has not been recorded in NZ before – between a NZ and an Australian species.

Latin name	Common name	Abundance
Urtica incisa	stinging nettle	1
Orchids		
Corybas trilobus agg. (Nematoceras	spider orchid	0
triloba)		
Drymoanthus adversus		u? ¹⁸
Earina autumnalis	Easter orchid	u ¹⁹
Earina mucronata		0
Microtis unifolia	onion-leaved orchid	1, with <i>Pterostylis</i> (q.v.)
Pterostylis banksii	greenhood orchid	u^{20}
Grass		
Cortaderia fulvida	dryland toetoe	u
Microlaena avenacea	bush rice grass	1
Sedges		
Carex dipsacea		1, on 10.12.06
Carex dissita ²¹ ?		u?
Carex geminata agg.		la
Carex inversa		u (4.11.06)
Carex lambertiana		С
Carex lessoniana		la?
Carex ochrosaccus ²²		1?
Carex secta s.s.		u ²³
Carex solandri		0
Carex virgata		0
Cyperus ustulatus		1
Eleocharis acuta	sharp spike-sedge	u
Gahnia xanthocarpa		u^{24}
Isolepis reticularis		1
Schoenus maschalinus		u ²⁵
Uncinia clavata?	hookgrass	u
Uncinia distans	hookgrass	0
Uncinia uncinata	hookgrass	С

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¹⁸ Several on fallen tawa, 23.2.00; 1 on fallen dead tawa 26.9.09 (Robyn Ogle)

^{19 1} on windfall matai 4/04

²⁰ patch of c. 15-20 plants by track near northern car-park, in seed & flower 16 Nov. 08

Needs confirming – maybe all *C. ochrosaccus*?

²² Collected as *C. dissita* but re-identified by K Ford (Landcare Research, Lincoln) in Jan 07; two 'forms', one with terminal spikes purely male and other with fruits at tip of male spikes

Listed in 1988 but not seen again until1 found in fruit, 12.2.08, on edge of channel just inside western edge (vouchered to CHR). Seed collected Feb 08, grown and 110 planted in GPSR in Dec 08 and Jan 09, mostly near the Loop Track (c. 20 stolen early 2009).

New record 14.9.10; 1 robust tussock in forest, between loop track and Kaimatira Rd.

²⁵ 2 patches by track near northern car-park; Nov. 08

Latin name	Common name	Abundance
Rushes		
Juncus sp. (prob. J. pauciflorus)		u (1 st recognised in Dec 09, but collected as J.pallidus in 2008)
Other Monocot Herbs		
Astelia solandri	perching lily	u
Collospermum hastatum	perching lily	c
Typha orientalis	raupo	1

Fern Ally		
Huperzia varia (Lycopodium varium)	(club moss)	
Ferns		
Adiantum cunninghamii	maidenhair fern	
Adiantum diaphanum	maidenhair fern	lc
Arthropteris tenella		0
Asplenium bulbiferum	hen and chicken fern	
Asplenium flaccidum s.s.	hanging spleenwort	О
Asplenium gracillimum		С
Asplenium polyodon	sickle spleenwort	С
Asplenium bulbiferum (?) x A.		o
colensoi		
Azolla filiculoides ssp. rubra ²⁶		u
Blechnum filiforme	climbing blechnum	1
Blechnum membranaceum		0
Cyathea cunninghamii	gully tree fern	u
Cyathea dealbata	ponga, silver fern	u (1 trunkless, on 4.11.06; 1
		with 20 cm trunk Jan 07)
Cyathea medullaris	mamaku	lc
Dicksonia fibrosa	whekiponga	u (1, trunkless, 1 st found 28.8.2010 ²⁷)
Dicksonia squarrosa	wheki	u (c.5, trunkless ²⁸)
Histiopteris incisa		u
Hymenophyllum dilatatum		u (1 patch on log, 12 Oct 10)
Hymenophyllum revolutum	filmy fern	1 (4.11.06)
Hypolepis ambigua		1
Lastreopsis glabella		1
Leptopteris hymenophylloides		u
Loxogramme dictyopteris	lance fern	u(1 patch on dead standing
(Anarthropteris lanceolata)		tawa, 12 Oct 10)
Microsorum pustulatum	hounds tongue fern	u

²⁶ In water in wheel tracks in north-east corner of reserve, 24.11.92; in pool beside loop track 4.11.06

²⁷ Inside forest near water channel, towards No.3 Line /Kaimatira Road corner; beside a wheki

On 12.2.08, > 12 found just inside western edge, some with trunks to 1 m tall

Latin name	Common name	Abundance
Microsorum scandens		О
Pellaea rotundifolia	button fern	c
Polystichum neozelandicum ssp. zerophyllum ²⁹	hard shield fern	u
Polystichum silvaticum		u
Pneumatopteris pennigera		u
Pteridium esculentum	bracken	u
Pteris "macilenta" (P. pendula)		1
Pteris tremula	shaking brake	u
Pyrrosia eleagnifolia	leatherleaf fern	С

B. NZ INDIGENOUS SPECIES PRESENT AS PLANTED SPECIMENS ONLY

Latin name	Common name	Abundance
Prumnopitys ferruginea	miro	[reported by Botanical Group,
		1970s; not seen since]
Griselinia littoralis	broadleaf	[1 tree – still present Sep 2009]
Melicope ternata	wharangi	[1 reported by Wanganui Botanical
		Group, 1970s; not seen since]
Nothofagus menziesii	(silver beech)	[3 trees – 1 died 2004]

C. ADVENTIVE SPECIES (not a complete list; species noted as common and/or potential threats to indigenous vegetation)

Latin name	Common name	Abundance
Trees and shrubs		
Buddleja davidii	purple buddleia	1 (1.5.m shrub in fruit; removed from
		centre of forest 11 Aug 09)
Cupressus macrocarpa	macrocarpa	1 (planted only, mostly removed c.
		2000); 3-4 seedlings Dec.06
Crataegus monogyna	hawthorn	occ. seedlings
Elaeagnus X reflexa	elaeagnus	1 in Jan 07, 1 in July 07, 1 large shrub
		cut & poisoned Aug. 09
Eriobotrya japonica	loquat	5 eradicated 28.2.95; 2 in 2004
Euonymus japonicus	spindle tree	A 4 m tree in full fruit, Feb 2010 – cut
		and poisoned.
Juglans regia	walnut	2 on western edge (12.2.08)
Laurus nobilis	bay laurel	5 (on 4.11.06, 23.1.07, 13.11.07,
		14.10.08, 26.9.09 – removed)
Ligustrum sinense	Chinese privet	Occ. seedlings, removed 2004, and
		from 11/06 onwards
Pinus radiata		u (planted only, mostly removed c.
		2000 except for western boundary, by

²⁹ Listed in early 1970s as *P. richardii*; 1 infertile juv. found on fallen tree root plate 14.10.08; fertile collected for WELT Sep 09

Latin name	Common name	Abundance
		drain)
Populus yunnanensis	Yunnan poplar	planted grove, poisoned then felled
-		2002 but some remaining in 2007
Prunus serrulata?	flowering cherry	1, c. 50 cm tall, March 07
Prunus sp.	plum	1 shrub eradicated 1998; occ. seedlings
		& saplings removed since Nov. 2006
Salix fragilis (+ other spp.?)	willow	c (mostly removed from c. 1990
		onwards)
Sequoia sempervirens	redwood	planted grove, felled 2002
Solanum mauritianum	woolly nightshade	few seedlings March 07
Solanum pseudocapsicum	Jerusalem cherry	a
Syzygium paniculatum	lillypilly	1 seedling 11 Aug 09
Syzygium (Acmena) smithii	monkey apple	maybe 6-10 seedlings 2007-09
Trachycarpus fortunei	Chinese windmill palm	Maybe 50 or more sdlgs eradicated
		Dec 2006 onwards
Lianes		
Actinidia deliciosa	kiwi fruit	u-1 sdlg removed by loop track
		22.5.10
Calystegia sepium agg.	convolvulus	c
Clematis vitalba	old man's beard	u ³⁰
Hedera helix	ivy	Occ. sdlgs removed, from Jan 07
		onwards
Humulus lupulus	hop	among long grass on SW corner of
		forest
Lonicera japonica	Japanese honeysuckle	c, especially on margins and in open
		swamp
Rubus fruticosus agg.	blackberry	0
Senecio mikanioides	German ivy	u
Vinca major	periwinkle	lc
Lygonad		
Lycopod Salaginalla kraussiana	African clubmoss	la (haing naisanad from about 2002 &
Selaginella kraussiana	Allican ciudinoss	la (being poisoned from about 2003 & experimentally from 2007)
		experimentally from 2007)
Monocot herbs		
Allium triquetrum	3-cornered garlic ('wild	1
I III WIII WIYWYWWIII	onion')	•
Amaryllis belladonna	belladonna lily	1 on 20.3.07 (C Devine)
Arum italicum	Italian arum	o – hand weeded
Bromus sterilis	sterile brome	1
		11
Carex otrubae ³¹		u

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³⁰ 3 seedlings (eradicated), + 1 semi-mature (still present 24.11.02; 2 fruiting vines eradicated 4/04, but one left on Kaimatira Rd fence); 1 immature vine in grass by fence removed 4.11.06 and another on 10.12.06; several; young vines removed in forest interior 2007-09

¹st found by pools in pasture to north of the forest 30.11.04 (specimen to Auckland Museum)

Latin name	Common name	Abundance
Cortaderia selloana	pampas grass	u
Corcosmia X crocosmiiflora	montbretia	1
Cyperus eragrostis		la, by Nov. 2006 – being hand-
		weeded & sprayed
Dactylis glomerata	cocksfoot	0
Echinochloa crus-galli	barnyard grass	1 by loop track Feb 07
Ehrharta erecta	veld grass	la
Hemerocallis fulva cv.	day lily	1 patch on 12/06 inside Kaimatira Rd
'Kwanso'		boundary fence
Holcus lanatus	Yorkshire fog	lc
Iris foetidissima	stinking iris	c, by Nov. 2006 – being hand-weeded
Leucojeum aestivum	snowflake	1
Lolium perenne	perennial ryegrass	u (in forest gaps)
Narcissus pseudonarcissus	daffodil	u (CCO, Sep 07)
Narcissus tarzetta cv. Soleil	jonquil	u (C Devine, June 07)
d'Or		
Narcissus tarzetta cv. [cream	jonquil	1
fls] ³²		
Pennisetum clandestinum	kikuyu grass	1
Schedonorus phoenix (Festuca	tall fescue	1
arundinacea)		
Scilla non-scripta	bluebell	o, on Kaimatira Rd forest edge
Tradescantia fluminensis	wandering Jew	la
Zantedeschia	arum lily	o (removed when found)
aethiopica [white spathe]		
Zantedeschia aethiopica cv.		1 (found and removed 4.11.06);
Green Goddess		several more Dec 06, Jan 07, Aug 09
D: 4H 1		
Dicot Herbs	111-	
Arctium minus	burdock	0
Carduus tenuiflorus	slender winged thistle	1
Cirsium arvense	Californian thistle	u (in gaps)
Cirsium vulgare	scotch thistle	0
Conium maculatum	hemlock	1 33
Conyza sumatrensis	fleabane	la ³³
Matricaria discoidea	rayless chamomile	1
Mentha pulegium	pennyroyal	1
Myosotis laxa	water forget-me-not	lc
Myosotis sylvatica	garden forget-me-not	u (I Bell, 26.9.09 – white fls)
Polygonum hydropiper	water pepper	u
Primula malaccoides	garden primula	2 (removed by loop track 11 Aug 09)
Ranunculus repens	creeping buttercup	0

Flowers June-July, heads of 3-5 single cream flowers common or dense in areas of felled exotic trees (poplars etc.) in 4/04 (previously listed as C. albida)

Latin name	Common name	Abundance
Ranunculus sceleratus	celery-leaved buttercup	u (1 by boardwalk, 26.9.09)
Senecio bipinnatisectus	fireweed	lc
Senecio glastifolius	pink ragwort	u (1 st seen 1998)
Solanum chenopodioides	velvety nightshade	lc (some up to 2 m tall)
Solanum nigrum	black nightshade	o (some up to 2 m tall)
Stachys sylvatica	hedge woundwort	lc
Symphytum Xuplandicum	Russian comfrey	u
Trifolium pratense	red clover	u
Trifolium repens	white clover	1