

WANGANUI PLANT LIST 7

List of vascular plants for Hawkens Lagoon Conservation Area¹ on true right bank of Waitotara River Mouth.

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(List for DOC managed land only). C C Ogle - based on visits 10 April 1989, 13 August 1989, 2 November 1989, 2 December 1989, 22 January 1990, 11 April 1996; J Barkla 22 Oct 1991; CAS group 9 May 1996. With Jim Campbell & Graeme La Cock 22 December 1997. With Jim Campbell, J Rehia 16 August 2000. Jim Campbell & Keith Beautrais 21-23 Aug 2000.

Last amended 23 August 2000.

Vegetation Types

- Foredunes: spinifex - marram - (pingao) : grassland.
- Hind-dunes: (dead lupin)/marram-tall fescue - cocksfoot and other pasture grasses: shrub grassland, with occasional tauhinu, boxthorn, gorse, evening primrose.
- Dune Flats:
- (a) (club sedge)/rippgut brome: reedland on seasonally-dry flats with occasional toetoe, pampas, and patches of sand willowherb, sand carex, *Schoenoplectus pungens*.
 - (b) *Gunnera* - *Myriophyllum votschii* - *Schoenus nitens*: herbfield on seasonally-dry flats with creeping bent, *Triglochin*, *Potentilla*, hawkbit, *Lilaeopsis*, *Isolepis cernua*, and (rare) *Eleocharis neozelandica*.
 - (c) Water milfoil - *Lilaeopsis* : herbfield, on pond margins with fluctuating water levels.
 - (d) *Schoenoplectus tabernaemontani* - *S. pungens*/Mercer grass - sharp spike sedge : reedland on pond margins with "constant" water levels, with locally common *Glossostigma*, jointed rush, raupo, *Myriophyllum pedunculatum*, *Gratiola*, *Cyperus* spp.

Threatened & uncommon species in de Lange et al. (1999): CRITICALLY ENDANGERED: *Sebaea ovata*; VULNERABLE: *Selliera rotundifolia*; DECLINING: *Eleocharis neozelandica*

Note: an inspection on 22 December 1997 higher water tables through many of the dune slacks, with more swamp plants than had occurred, say, 5-10 years ago. Five additional fern species were found in these flats in December 1997, which may be a result of permanently moist conditions.

Some earlier editions of this list included *Sebaea ovata*. This was based on dead plants collected in August 1989, which have been re-examined and found to be centaury. However, on 16 Aug 2000, Jim Campbell found a population of *Sebaea* that had flowering plants and many juveniles – prob. several hundred in all.

¹ Local information is that the general area is also known as Tapuarau, and the main lake is Paroa.

Abbreviations

* = exotic sp.

CHR = specimen collected in this area for Landcare Research NZ herbarium at Lincoln.

Abundance Ratings

a = abundant c = common o = occasional u = uncommon

l = local (species in small area, but can be common or abundant there; sometimes annotated to show this).

Dicot Shrubs

Cassinia leptophylla	tauhinu	o
Coprosma acerosa		u (2, female and male)
C. robusta	karamu	u (1 large, sev. small, in Aug 2000)
Leptospermum scoparium ²	manuka	u(7)
* Lupinus arboreus	tree lupin	c (mostly dead)
* Lycium ferocissimum	boxthorn	c
Olearia solandri	shrub daisy	u
Solanum sp.	poroporo	u
* Ulex europaeus	gorse	o

Dicot lianes

Calystegia soldanella	sand convolvulus	o
Muehlenbeckia complexa	pohuehue	o
M. australis x M. complexa		u(1)

Dicot herbs

Acaena anserinifolia (?)	bidibidi	o
*A. novae-zelandiae	bidibidi	u
* Amaranthus lividus	redroot	l
*A. powellii (?)	redroot	l
* Anagallis arvensis	scarlet pimpernel	o
* Arctotheca calendulacea	Cape daisy	l
* Aster subulatus	sea aster	u
* Bellis perennis	lawn daisy	o
* Bidens frondosa	beggars ticks	o
* Callitriche stagnalis	starwort	o
* Carduus tenuiflorus	slender wing thistle	l
* Centaurium erythraea	centaury	o
* Cerastium fontanum	mouse-eared chickweed	u
* C. glomeratum	mouse-eared chickweed	o
Chenopodium glaucum	glaucous goosefoot	l
* Cirsium arvense	California thistle	u

² Seedlings to 0.5m tall in 1993; probably establishing from brush brought into the reserve for maimai construction.

* <i>C. vulgare</i>	Scotch thistle	o
* <i>Conium maculatum</i>	hemlock	l
* <i>Conyza albida</i>	fleabane	o
<i>Cotula coronopifolia</i>	batchelor's button	o
<i>Epilobium billardioreanum</i>	willow-herb	c
<i>E. cinereum</i>	willow-herb	u
<i>E. insulare</i>	willow-herb	u
* <i>E. parviflorum</i>	tall willow-herb	u
* <i>Galium aparine</i>	cleavers	o
* <i>G. palustre</i>	marsh bedstraw	o
* <i>Geranium molle</i>	dove's foot cranesbill	o
<i>Glossostigma elatinoides</i>		lc
* <i>Gnaphalium purpureum</i>	cudweed	u
<i>Gratiola sexdentata</i>		u
<i>Gunnera dentata</i> var. (<i>G. arenaria</i>)	sand gunnera	lc
<i>Hydrocotyle novae-zeelandiae</i>	swamp pennywort	u
* <i>Hypochoeris radicata</i>	catsear	o
* <i>Leontodon taraxacoides</i>	hawkbit	c
<i>Lilaeopsis novae-zelandiae</i>		lc
<i>Limosella lineata</i>		lc
* <i>Linum bienne</i>	pale flax	u
<i>Lobelia anceps</i>	native lobelia	lc
* <i>Lotus pedunculatus</i>	lotus	lc
* <i>L. suaveolens</i>	hairy lotus	u
* <i>Ludwigia palustris</i>		u
* <i>Lythrum hyssopifolia</i>	loosestrife	o
* <i>Medicago lupulina</i>	black medick	o
* <i>Melilotus indica</i>	King Island melilot	u
* <i>Mentha pulegium</i>	pennyroyal	lc
* <i>Myosotis laxa</i>	water forgetmetnot	o
<i>Myriophyllum pedunculatum</i> CHR		lc
<i>M. propinquum</i>	water milfoil	la
<i>M. votschii</i> CHR		lc
* <i>Oenothera stricta</i>	evening primrose	c
* <i>Orobanche minor</i>	broomrape	o
<i>Oxalis rubens</i>		u
* <i>Parentucellia viscosa</i>	tarweed	lc
* <i>Physalis peruviana</i>	cape gooseberry	u
* <i>Phytolacca octandra</i>	inkweed	o
* <i>Plantago australis</i>	swamp plantain	lc
* <i>P. lanceolata</i>	narrow-leaved plantain	u
* <i>P. major</i>	broad-leaved plantain	u
* <i>Polycarpon tetraphyllum</i>	allseed	u
* <i>Polygonum hydropiper</i>	water pepper	u
<i>P. salicifolium</i>	swamp willow weed	lc
<i>Potentilla anserinoides</i>		la
* <i>Prunella vulgaris</i>	selfheal	u
<i>Pseudognaphalium</i> sp. [<i>P. luteo-</i> <i>album</i> agg., basal leaves round- tipped]	cudweed	o
<i>Ranunculus acaulis</i>	sand buttercup	u

* <i>R. repens</i>	creeping buttercup	lc
* <i>R. trichophyllus</i>	water buttercup	lc
* <i>Rorippa</i> sp.	water cress	u
* <i>Rumex acetosella</i>	sheeps sorrel	o
* <i>R. crispus</i>	curled dock	o
* <i>R. sagittatus</i>	climbing dock	lc
* <i>Sagina procumbens</i>	pearlwort	u
<i>Samolus repens</i>	sea primrose	l
<i>Sarcocornia quinqueflora</i>	glasswort	u
<i>Sebaea ovata</i> ³		l
<i>Selliera rotundifolia</i>	half star	c
* <i>Senecio bipinnatisectus</i>	fireweed	u
* <i>S. elegans</i>		o
* <i>S. glastifolius</i>	holly-leaved senecio	o
* <i>S. jacobaea</i>	ragwort	u
<i>S. sp. (S. glomeratus?)</i>		u
* <i>Silene gallica</i>	catchfly	c
* <i>Sisymbrium officinale</i>	hedge mustard	u
* <i>Solanum nigrum</i>	black nightshade	u
* <i>Sonchus oleraceus</i>	puwha, sow thistle	o
* <i>Stellaria media</i>	chickweed	u
* <i>Trifolium arvense</i>	hare's foot trefoil	o
* <i>T. campestre</i>	hop trefoil	lc
* <i>T. dubium</i>	suckling clover	lc
* <i>T. glomeratum</i>	clustered clover	u
* <i>T. pratense</i>	red clover	u
* <i>T. repens</i>	white clover	lc
* <i>Vicia</i> sp.	vetch	u

Monocots

* <i>Alisma lanceolata</i>	water plantain	u
* <i>Agrostis stolonifera</i>	creeping bent	lc
* <i>Ammophila arenaria</i>	marram grass	a
* <i>Anthoxanthum odoratum</i>	sweet vernal	u
* <i>Briza minor</i>	quaking grass	u
* <i>Bromus diandrus</i>	riggut brome	c
* <i>B. hordeaceus</i>	soft brome	o
* <i>B. willdenowii</i>	prairie grass	o
<i>Carex lessoniana</i>		lc
<i>C. pumila</i>	sand carex	lc
<i>C. secta</i> s.s.		u
<i>Cordyline australis</i>	cabbage tree	u(4)
* <i>Cortaderia selloana</i> ⁴	pampas grass	o
<i>C. toetoe</i>	toetoe	o
* <i>Cynosurus cristatus</i>	crested dog's tail	o
* <i>Cyperus congestus</i>		lc
<i>C. ustulatus</i>		c

³ Found by J Campbell 16.8.2000

⁴ Listed as "uncommon" in 1993 but occasional to locally common 1996; locally abundant to dominant in 2000.

? <i>C. congestus</i> x <i>C. ustulatus</i>		u
* <i>Dactylis glomerata</i>	cocksfoot	c
* <i>Desmazena</i> (=Catapodium) <i>rigida</i>		u
<i>Desmoschoenus spiralis</i>	pingao	o
<i>Eleocharis acuta</i>	sharp spike sedge	c
<i>E. gracilis</i>	slender spike sedge	o
<i>E. neozelandica</i> CHR		l
* <i>Festuca rubra</i> ssp. <i>commutata</i>	chewing's fescue	u
* <i>Holcus lanatus</i>	Yorkshire fog	o
* <i>Hordeum murinum</i>	barley grass	o
<i>Isolepis cernua</i>		lc
<i>I. nodosa</i>	club sedge	c
<i>I. prolifer</i>		u
* <i>Juncus articulatus</i>	jointed-leaved rush	c
<i>J. australis</i>		o
* <i>J. bufonius</i>	toad rush	o
<i>J. caespiticius</i>		lc
<i>J. gregiflorus</i>		u
<i>J. maritimus</i> var. <i>australiensis</i>	sea rush	u
<i>J. pallidus</i>		u
<i>Lachnagrostis billardierei</i>	sand bent	u
* <i>Lagurus ovatus</i>	hare's tail	c
<i>Lemna</i> sp. (<i>L. minor</i> auct. NZ)	duckweed	o
<i>Leptocarpus similis</i>	jointed wire rush	lc
* <i>Lolium perenne</i>	perennial ryegrass	o
* <i>Lolium perenne</i> X <i>Schedonorus phoenix</i>		u
<i>Microtis unifolia</i>		o
* <i>Paspalum dilatatum</i>	paspalum	u
* <i>P. distichum</i>	Mercer grass	la
<i>Phormium tenax</i>	NZ flax	u
* <i>Poa pratensis</i>	Kentucky bluegrass	o
* <i>Polypogon monspeliensis</i>	beard grass	o
<i>Potamogeton cheesemanii</i>	pond weed	l
* <i>P. crispus</i>	curled pondweed	u?
<i>P. ochreatus</i>		l
* <i>Schedonorus phoenix</i>	tall fescue	c
<i>Schoenoplectus pungens</i>	three-square	lc
<i>S. tabernaemontani</i>	kapungawha	c
<i>Schoenus maschalinus</i>		u
<i>S. nitens</i>		la
* <i>Setaria geniculata</i>	bristlegrass	lc
* <i>Sisyrinchium 'blue'</i>		u
<i>Spinifex sericeus</i>	spinifex	lc
* <i>Spirodela punctata</i>	purple-backed duckweed	c
* <i>Sporobolus africanus</i>	rats tail	c
<i>Triglochin striatum</i>	arrowgrass	c
<i>Typha orientalis</i>	raupo	lc
* <i>Vulpia bromoides</i>	vulpia hairgrass	o
<i>Wolffia australiensis</i>	water meal	lc

Ferns

Asplenium flabellifolium	necklace fern	u
A. oblongifolium	shining spleenwort	u (1)
Azolla filiculoides ssp. rubra		o
Blechnum minus (of NZ authors)	swamp kiokio	u
Cyathea medullaris	mamaku	u(7)
Dicksonia squarrosa	wheki	u
Hypolepis ambigua		o
Microsorium pustulatum	hound's tongue fern	u
Paesia scaberula	ring fern	u
Pneumatopteris pennigera		u (1)
Pteridium esculentum	bracken	u
Pteris macilenta (of NZ authors)		u
P. tremula	shaking brake	u

No of indigenous species = 76

Reference:

de Lange P J; Heenan, P B; Given D R; Norton, D A; Ogle C C. Johnson P N; Cameron E K 1999. List of threatened and uncommon plants of New Zealand. *NZ Journal of Botany* 37: 603-628.