

WANGANUI PLANT LIST 7

List of vascular plants for Tapuarau Conservation Area (Hawkens Lagoon)¹ 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 Beutrais 21-23 Aug 2000.

Last amended 10 Sept. 2012.

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)/ripgut 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. (2009): **NATIONALLY CRITICAL:** *Sebaea ovata*; **VULNERABLE:** **DECLINING:** *Coprosma acerosa*; *Eleocharis neozelandica*; *Epilobium insulare*; *Gunnera arenaria*; *Selliera rotundifolia*; **RELICT:** *Ficinia spiralis*; **NATURALLY UNCOMMON:** *Myriophyllum votschii*

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 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

| | | |
|-------------------------------------|-------------|---|
| Ozothamnus (Cassinia) leptophyllus | tauhinu | o |
| Coprosma acerosa | | u (2, female and male) |
| Coprosma 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. (unidentified) | poroporo | u |
| * Ulex europaeus | gorse | o |

Dicot lianes

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

Dicot herbs

| | | |
|---------------------------|-----------------------|---|
| Acaena anserinifolia (?) | bidibidi | o |
| * Acaena novae-zelandiae | bidibidi | u |
| * Amaranthus lividus | redroot | l |
| * Amaranthus 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 |
| * Cerastium 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>Cirsium vulgare</i> | Scotch thistle | o |
| * <i>Conium maculatum</i> | hemlock | l |
| * <i>Conyza sumatrensis</i> | fleabane | o |
| <i>Cotula coronopifolia</i> | batchelor's button | o |
| <i>Epilobium billardioreanum</i> | willow-herb | c |
| <i>Epilobium cinereum</i> | willow-herb | u |
| <i>Epilobium insulare</i> | willow-herb | u |
| * <i>Epilobium. parviflorum</i> | tall willow-herb | u |
| * <i>Galium aparine</i> | cleavers | o |
| * <i>Galium 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 arenaria</i> (G. dentata var.) | 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>Lotus 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>Myriophyllum propinquum</i> | water milfoil | la |
| <i>Myriophyllum 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>Plantago lanceolata</i> | narrow-leaved plantain | u |
| * <i>Plantago major</i> | broad-leaved plantain | u |
| * <i>Polycarpon tetraphyllum</i> | allseed | u |
| <i>Persicaria decipiens</i> | swamp willow weed | lc |
| * <i>Persicaria hydropiper</i> | water pepper | u |
| <i>Potentilla anserinoides</i> | | la |
| * <i>Prunella vulgaris</i> | selfheal | u |
| <i>Pseudognaphalium</i> sp. [P. luteo- album agg., basal leaves round- tipped] | cudweed | o |
| <i>Ranunculus acaulis</i> | sand buttercup | u |

| | | |
|--|----------------------|----|
| * <i>Ranunculus repens</i> | creeping buttercup | lc |
| * <i>Ranunculus trichophyllus</i> | water buttercup | lc |
| * <i>Rorippa</i> sp. | water cress | u |
| * <i>Rumex acetosella</i> | sheeps sorrel | o |
| * <i>Rumex crispus</i> | curled dock | o |
| * <i>Rumex 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>Senecio elegans</i> | | o |
| * <i>Senecio glastifolius</i> | holly-leaved senecio | o |
| * <i>Senecio jacobaea</i> | ragwort | u |
| <i>Senecio</i> sp. (<i>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> | puwaha, sow thistle | o |
| * <i>Stellaria media</i> | chickweed | u |
| * <i>Trifolium arvense</i> | hare's foot trefoil | o |
| * <i>Trifolium campestre</i> | hop trefoil | lc |
| * <i>Trifolium dubium</i> | suckling clover | lc |
| * <i>Trifolium glomeratum</i> | clustered clover | u |
| * <i>Trifolium pratense</i> | red clover | u |
| * <i>Trifolium repens</i> | white clover | lc |
| * <i>Vicia</i> sp. | vetch | u |

Monocots

| | | |
|---|-------------------------|------|
| * <i>Agrostis stolonifera</i> | creeping bent | lc |
| * <i>Alisma lanceolata</i> | water plantain | u |
| * <i>Ammophila arenaria</i> | marram grass | a |
| * <i>Anthoxanthum odoratum</i> | sweet vernal | u |
| <i>Apodasmia (Leptocarpus) similis</i> | oioi, jointed wire rush | lc |
| <i>Austroderia (Cortaderia) toetoe</i> | toetoe | o |
| * <i>Briza minor</i> | quaking grass | u |
| * <i>Bromus diandrus</i> | riggut brome | c |
| * <i>Bromus hordeaceus</i> | soft brome | o |
| * <i>Bromus willdenowii</i> | prairie grass | o |
| <i>Carex lessoniana</i> | | lc |
| <i>Carex pumila</i> | sand carex | lc |
| <i>Carex secta</i> s.s. | | u |
| <i>Cordyline australis</i> | cabbage tree | u(4) |
| * <i>Cortaderia selloana</i> ⁴ | pampas grass | o |
| * <i>Cynosurus cristatus</i> | crested dog's tail | o |

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>Cyperus congestus</i> | | lc |
| <i>Cyperus ustulatus</i> | | c |
| ? <i>Cyperus congestus</i> x <i>C. ustulatus</i> | | u |
| * <i>Dactylis glomerata</i> | cocksfoot | c |
| * <i>Catapodium rigidum</i> | hard grass | u |
| <i>Eleocharis acuta</i> | sharp spike sedge | c |
| <i>Eleocharis gracilis</i> | slender spike secge | o |
| <i>Eleocharis neozelandica</i> CHR | | l |
| * <i>Festuca rubra</i> ssp. <i>commutata</i> | chewing's fescue | u |
| <i>Ficinia (Isolepis) nodosa</i> | club sedge | c |
| <i>Ficinia (Desmoschoenus) spiralis</i> | pingao | o |
| * <i>Holcus lanatus</i> | Yorkshire fog | o |
| * <i>Hordeum murinum</i> | barley grass | o |
| <i>Isolepis cernua</i> | | lc |
| <i>Isolepis prolifer</i> | | u |
| * <i>Juncus articulatus</i> | jointed-leaved rush | c |
| <i>Juncus australis</i> | | o |
| * <i>Juncus bufonius</i> | toad rush | o |
| <i>Juncus caespiticius</i> | | lc |
| <i>Juncus edgariae</i> | | u |
| <i>Juncus kraussii</i> var. <i>australiensis</i> | sea rush | u |
| <i>Juncus pallidus</i> | | u |
| <i>Lachnagrostis billardierei</i> | sand bent | u |
| * <i>Lagurus ovatus</i> | hare's tail | c |
| * <i>Landoltia (Spirodela) punctata</i> | purple-backed duckweed | c |
| <i>Lemna disperma</i> | duckweed | o |
| * <i>Lolium perenne</i> | perennial ryegrass | o |
| * <i>Lolium perenne</i> X <i>Schedonorus arundinaceus</i> | | u |
| <i>Microtis unifolia</i> | | o |
| * <i>Paspalum dilatatum</i> | paspalum | u |
| * <i>Paspalum distichum</i> | Mercer grass | la |
| <i>Phormium tenax</i> | harakeke, 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>Potamogeton crispus</i> | curled pondweed | u? |
| <i>Potamogeton ochreatus</i> | | l |
| * <i>Schedonorus arundinaceus</i> | tall fescue | c |
| <i>Schoenoplectus pungens</i> | three-square | lc |
| <i>Schoenoplectus tabernaemontani</i> | kapungawha | c |
| <i>Schoenus maschalinus</i> | | u |
| <i>Schoenus nitens</i> | | la |
| * <i>Setaria geniculata</i> | bristlegrass | lc |
| * <i>Sisyrinchium 'blue'</i> | | u |
| <i>Spinifex sericeus</i> | spinifex | lc |
| * <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 |
| Asplenium 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 |
| Pteris tremula | shaking brake | u |

No of indigenous species = 76

Reference:

de Lange, P.J.; Norton, D.A.; Courtney, S.P.; Heenan, P.B.; Barkla, J.W.; Cameron, E.K. 2009: Threatened and uncommon plants of New Zealand (2008 revision). *New Zealand Journal of Botany* 47: 61-96.