



## KAHIKATEA – kereru – manatu, lush, older plains ecosystem

Food for native birds:

F = Fruit

S = Bird Seed

N = Nectar

B = Bud/foilage

I = Insects

For lizards: L = fruit

Plant Tolerances

■ = tolerates or needs

□ = intolerant

½ = tolerant of some

\* = to establish, protect from frost  
t = toxic for toddlers

Staging

1 = 1<sup>st</sup> structural

2 = 2<sup>nd</sup> year

3 = only after canopy closure

## PLANT LISTS Selected from vegetation natural to these wet Taitapu soils.

### TALL (NOBLE) TREES (> 12 m)

|                                 |                                        |
|---------------------------------|----------------------------------------|
| <i>Alectryon excelsus</i>       | titoki                                 |
| <i>Cordyline australis</i>      | ti kouka, cabbage tree                 |
| <i>Dacrycarpus dacrydioides</i> | kahikatea, white pine                  |
| <i>Elaeocarpus dentatus</i>     | hinau                                  |
| <i>Elaeocarpus hookerianus</i>  | pokaka                                 |
| <i>Pittosporum eugenioides</i>  | tarata, lemonwood                      |
| <i>Plagianthus regius</i>       | manatu, lowland ribbonwood (deciduous) |
| <i>Podocarpus totara</i>        | totara                                 |
| <i>Prumnopitys ferruginea</i>   | miro                                   |
| <i>Prumnopitys taxifolia</i>    | matai, black pine                      |
| <i>Pseudopanax crassifolius</i> | horoeaka, lancewood                    |
| <i>Sophora microphylla</i>      | kowhai                                 |

### SMALL TREES & TALL SHRUBS (> 5 m)

|                                |                                            |
|--------------------------------|--------------------------------------------|
| <i>Aristotelia serrata</i>     | makomako, wineberry (semi-decid)           |
| <i>Carpodetus serratus</i>     | putaputaweta, marbleleaf                   |
| <i>Coprosma areolata</i>       | net-leaved coprosma                        |
| <i>Coprosma linariifolia</i>   | linear-leaved coprosma, yellow-wood        |
| <i>Coprosma lucida</i>         | shining karamu                             |
| <i>Coprosma robusta</i>        | karamu                                     |
| <i>Coprosma rotundifolia</i>   | round-leaved coprosma                      |
| <i>Fuchsia excorticata</i>     | kotukutuku, tree fuchsia (decid)           |
| <i>Griselinia littoralis</i>   | kapuka, broadleaf                          |
| <i>Hedycarya arborea</i>       | porokaiwhiri, pigeonwood                   |
| <i>Hoheria angustifolia</i>    | houhere, narrow-leaved lacebark (semi-dec) |
| <i>Leptospermum scoparium</i>  | manuka, tea tree                           |
| <i>Lophomyrtus obcordata</i>   | rohutu, NZ myrtle                          |
| <i>Melicytus micranthus</i>    | manakura, shrubby mahoe                    |
| <i>Melicytus ramiflorus</i>    | mahoe, whiteywood                          |
| <i>Myrsine australis</i>       | mapau, red mapau                           |
| <i>Neomyrtus pedunculata</i>   | rohutu, NZ myrtle                          |
| <i>Pennantia corymbosa</i>     | kaikomako, ducksfeet                       |
| <i>Pittosporum tenuifolium</i> | kohuhu, black matipo/mapau, tawhari        |
| <i>Pseudopanax arboreus</i>    | fivefinger, whauwhaupaku                   |
| <i>Pseudowintera colorata</i>  | horopito, peppertree                       |
| <i>Schefflera digitata</i>     | patete, seven-finger                       |
| <i>Streblus heterophyllus</i>  | turepo, small-leaved milk tree             |

### Tolerances

| Food    | sun | shade | wet | dry | wind | Stages |
|---------|-----|-------|-----|-----|------|--------|
| F,I     | ½   | ■     | ½   | ½   | □    | 3*     |
| F,N,I   | ■   | ½     | ■   | ■   | ■    | 1      |
| F       | ■   | ½     | ■   | □   | ■    | 2      |
| F,I     | ½   | ½     | ½   | ½   | □    | 3*     |
| F,I     | ½   | ■     | ■   | ½   | □    | 2      |
| F,I     | ■   | ■     | ½   | ■   | ½    | 1      |
| I,B     | ■   | ½     | ½   | ½   | ■    | 1      |
| F       | ■   | ½     | ½   | ■   | ■    | 2      |
| F       | □   | ■     | ■   | □   | □    | 3      |
| F       | ■   | ½     | ■   | ½   | ■    | 2      |
| F,B,N,I | ■   | ½     | ½   | ■   | ■    | 2      |
| N,B     | ■   | ½     | ½   | ■   | t    | 2      |
| F,I,B   | ½   | ½     | ½   | ½   | □    | 2      |
| F,I     | ½   | ■     | ½   | ½   | □    | 2      |
| F,B     | ½   | ■     | ■   | ½   | □    | 2*     |
| F       | ½   | ■     | ■   | ½   | □    | 2      |
| F       | ■   | ■     | ■   | ½   | ½    | 1      |
| F,B     | ½   | ■     | ■   | ½   | ½    | 2*     |
| F,N,B   | ½   | ■     | ■   | □   | □    | 3*     |
| F,I     | ■   | ■     | ½   | ■   | ■    | 2      |
| F,I     | ½   | ■     | ½   | □   | □    | 3*     |
| I       | ■   | ½     | ½   | ■   | ■    | 1      |
| I       | ■   | □     | ■   | ■   | ■    | 1      |
| F,I     | ½   | ■     | ½   | ½   | ■    | 2      |
| F,I     | ½   | ■     | ½   | ½   | □    | 3      |
| F,L,I   | ½   | ■     | ½   | ½   | ½    | 3*     |
| F,L,I   | ■   | ■     | ½   | ½   | ½    | 3*     |
| F,I     | ½   | ■     | ■   | □   | □    | 3*     |
| F,N,I   | ½   | ■     | ■   | ½   | ½    | 2      |
| F,I     | ■   | ■     | ½   | ■   | ■    | 1      |
| F,N,I   | ■   | ■     | □   | ½   | ½    | 2      |
| F,N,I   | ■   | ■     | ■   | □   | ½    | 2      |
| F,I,B   | ½   | □     | ½   | □   | □    | 3*     |
| F,I     | ½   | ■     | ■   | □   | □    | 3*     |

|                                     |                                 |         | Tolerances |     |       |     |     | Stages |      |
|-------------------------------------|---------------------------------|---------|------------|-----|-------|-----|-----|--------|------|
|                                     |                                 |         | Food       | sun | shade | wet | dry |        | wind |
| CLIMBERS & VINES                    |                                 |         |            |     |       |     |     |        |      |
| <i>Clematis forsteri</i>            | yellow clematis                 | I       | ½ ½ □ ½ ½  |     |       |     |     |        | 3    |
| <i>Clematis paniculata</i>          | puawananga, bush/white clematis | I       | ½ ■ ½ □ □  |     |       |     |     |        | 3*   |
| <i>Parsonsia capsularis</i>         | kaiwhiria, NZ jasmine           | I       | ■ ■ ½ ½ ■  |     |       |     |     |        | 3    |
| <i>Parsonsia heterophylla</i>       | kaiwhiria, NZ jasmine           | I       | ■ ■ ½ ■ ■  |     |       |     |     |        | 3    |
| <i>Passiflora tetrandra</i>         | kohia, NZ passionvine           | I       | □ ■ ½ □ ½  |     |       |     |     |        | 3*   |
| <i>Ripogonum scandens</i>           | kareao, supplejack              | F,I     | ½ ■ ½ □ ½  |     |       |     |     |        | 3*   |
| <i>Rubus australis</i>              | taramoa, bush lawyer            | F,I     | ½ ■ ■ □ □  |     |       |     |     |        | 3    |
| <i>Rubus cissoides</i>              | not in Riccarton!               | F,I     | ½ ½ ½ □ ½  |     |       |     |     |        | 2    |
| <i>Rubus schmidelioides</i>         | taramoa, narrow-leaved lawyer   | F,I     | ■ ½ ½ ■ ■  |     |       |     |     |        | 2    |
| SHRUBS & SCRAMBLERS                 |                                 |         |            |     |       |     |     |        |      |
| <i>Calystegia tuguriorum</i>        | powhiwhi, NZ bindweed           | I       | ■ ½ □ ½ ■  |     |       |     |     |        | 2    |
| <i>Coprosma rhamnoides</i>          | red-fruited mikimiki            | F,L     | □ ■ ½ ½ ½  |     |       |     |     |        | 3*   |
| <i>Coprosma propinqua</i>           | mikimiki, mingimingi            | F,L     | ■ ½ ■ ■ ■  |     |       |     |     |        | 1    |
| <i>Coprosma rubra</i>               | red-stemmed coprosma            | F,L     | ■ ½ ½ ½ ■  |     |       |     |     |        | 1    |
| <i>Hebe salicifolia</i>             | koromiko                        | I       | ■ □ □ ½ ■  |     |       |     |     |        | 1    |
| <i>Fuchsia perscandens</i>          | climbing fuchsia                | F,L,N,I | ½ ½ □ ½ ½  |     |       |     |     |        | 3*   |
| <i>Melicope simplex</i>             | poataniwha                      | F,I     | ½ ■ ½ ½ ■  |     |       |     |     |        | 3    |
| <i>Metrosideros diffusa</i>         | white/climbing rata             | I       | □ ■ ½ □ □  |     |       |     |     |        | 3*   |
| <i>Myrsine divaricata</i>           | weeping mapou                   | F,L,I   | ½ ½ ■ ½ ■  |     |       |     |     |        | 2    |
| <i>Olearia bullata</i>              | crinkly shrub daisy             | S,I     | ■ ½ ■ ½ ■  |     |       |     |     |        |      |
| <i>Pseudopanax anomalus</i>         | shrub pseudopanax               | F,N     | ½ ■ ½ □ ½  |     |       |     |     |        | 3    |
| <i>Rubus squarrosus</i>             | leafless lawyer                 | F,L,I   | ■ ½ □ ■ ■  |     |       |     |     |        | 2    |
| <i>Urtica ferox</i>                 | ongaonga, tree nettle           | I       | ½ ■ □ ½ □  |     |       |     |     |        | 3*   |
| PERCHING PLANTS & PARTIAL PARASITES |                                 |         |            |     |       |     |     |        |      |
| <i>Asplenium flaccidum</i>          | raukatauri, hanging spleenwort  | B       | ½ ■ □ □ □  |     |       |     |     |        | 3    |
| <i>Ileostylus micranthus</i>        | NZ mistletoe                    | F,N,B   | ■ □ □ □ ■  |     |       |     |     |        | 3    |
| <i>Korthalsella lindsayi</i>        | dwarf mistletoe                 | I       | ■ □ □ □ ■  |     |       |     |     |        | 3    |
| <i>Pyrrosia elaeagnifolia</i>       | leather-leaf fern               |         | ■ ■ □ ■ ■  |     |       |     |     |        | 3    |
| <i>Tupeia antarctica</i>            | NZ mistletoe                    | F,I     | ■ □ □ □ ■  |     |       |     |     |        | 3    |
| GROUNDCOVER HERBS & ‘GRASSES’       |                                 |         |            |     |       |     |     |        |      |
| <i>Acaena anserinifolia</i>         | piripiri, bidibidi              | S,I     | ■ ½ □ ½ ■  |     |       |     |     |        | 3    |
| <i>Anemanthele lessoniana</i>       | hunangamoho, bamboo/wind grass  | S       | ■ ■ □ ½ ■  |     |       |     |     |        | 2    |
| <i>Astelia fragrans</i>             | kakaha, bush flax               | F,I     | ■ ■ ½ ½ ■  |     |       |     |     |        | 2    |
| <i>Astelia grandis</i>              | kakaha, swamp flax              | F,I     | ■ ■ ■ ½ ■  |     |       |     |     |        | 1    |
| <i>Carex cockayneana</i>            | forest sedge                    | S       | ■ ■ ½ ½ ■  |     |       |     |     |        | 3    |
| <i>Carex forsteri</i>               | forest sedge                    | S       | ■ ■ ½ ½ ■  |     |       |     |     |        | 3    |
| <i>Carex lambertiana</i>            | forest sedge                    | S,      | ■ ■ ½ ½ ■  |     |       |     |     |        | 3    |
| <i>Carex secta</i>                  | pukio                           | S       | ■ □ ■ □ ■  |     |       |     |     |        | 1    |
| <i>Carex solandri</i>               | forest sedge                    | S       | ■ ■ ½ ½ ■  |     |       |     |     |        | 3    |
| <i>Carex virgata</i>                | swamp sedge                     | S       | ■ ½ ■ ½ ■  |     |       |     |     |        | 1    |
| <i>Cortaderia richardii</i>         | toetoe                          | S       | ■ □ ■ ■ ■  |     |       |     |     |        | 1    |
| <i>Cyperus ustulatus</i>            | upoko-tangata, umbrella sedge   | S       | ■ □ ■ ½ ■  |     |       |     |     |        | 1    |
| <i>Deschampsia caespitosa</i>       | tufted hair grass               | S       | ■ □ ■ ½ ■  |     |       |     |     |        | 1    |
| <i>Dianella nigra</i>               | turutu, blue berry              | F,I     | ■ ■ □ ■ ■  |     |       |     |     |        | 2    |
| <i>Echinodium hispidum</i>          | moss                            |         | □ ■ ½ ½ □  |     |       |     |     |        | 3    |
| <i>Gahnia xanthocarpa</i>           | giant gahnia                    | S       | ½ ■ ½ ½ □  |     |       |     |     |        | 3    |
| <i>Hypnum cupressiforme</i>         | moss                            |         | ½ ■ ½ ■ ■  |     |       |     |     |        | 3    |
| <i>Juncus distegus</i>              | wiwi, tussock rush              | S       | ■ □ ■ ½ ■  |     |       |     |     |        | 1    |

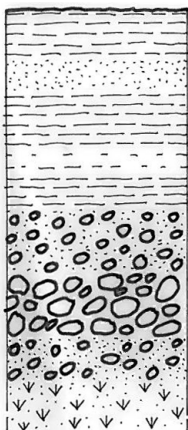
|                             |                             |     | Tolerances |     |       |     |     | Stages |      |
|-----------------------------|-----------------------------|-----|------------|-----|-------|-----|-----|--------|------|
|                             |                             |     | Food       | sun | shade | wet | dry |        | wind |
| <i>Juncus edgareae</i>      | wiwi, tussock rush          | S   | ■ □ ■ ½ ■  |     |       |     |     |        | 1    |
| <i>Juncus sarophorus</i>    | wiwi, tussock rush          | S   | ■ □ ■ ½ ■  |     |       |     |     |        | 1    |
| <i>Libertia ixioides</i>    | mikoikoi, NZ iris           | F,I | ■ ■ □ ■ ■  |     |       |     |     |        | 3    |
| <i>Microlaena avenacea</i>  | bush rice grass             | S   | □ ■ ■ ½ ½  |     |       |     |     |        | 3    |
| <i>Nertera depressa</i>     | nertera                     | F,I | ½ ■ ½ ½ ■  |     |       |     |     |        | 3    |
| <i>Parietaria debilis</i>   | NZ pellitory                | I   | ½ ■ □ ½ ½  |     |       |     |     |        | 3    |
| <i>Phormium tenax</i>       | harakeke, NZ flax           | N,L | ■ □ ■ ■ ■  |     |       |     |     |        | 1    |
| <i>Pratia angulata</i>      | panakeneke, creeping pratia | F,I | ■ ½ ½ ½ ■  |     |       |     |     |        | 1-3  |
| <i>Ranunculus reflexus</i>  | NZ buttercup                | S,I | □ ■ □ ½ □  |     |       |     |     |        | 3    |
| <i>Stellaria parviflora</i> | NZ stitchwort               | S,I | □ ■ □ ■ □  |     |       |     |     |        | 3    |
| <i>Thuidium sparsum</i>     | moss                        |     | ■ ■ □ ■ ■  |     |       |     |     |        | 3    |
| <i>Uncinia leptostachya</i> | matau, hooked sedge         | S   | ½ ■ ■ □ ½  |     |       |     |     |        | 3    |
| <i>Uncinia uncinata</i>     | watau/kamu, hooked sedge    | S   | ½ ■ ½ ½ ½  |     |       |     |     |        | 3    |
| <i>Urtica incisa</i>        | dwarf nettle                | I   | ½ ■ □ ½ □  |     |       |     |     |        | 3    |

## GROUND & TREE FERNS

|                                        |                                   |   |           |  |  |  |  |  |    |
|----------------------------------------|-----------------------------------|---|-----------|--|--|--|--|--|----|
| <i>Asplenium flabellifolium</i>        | necklace fern                     | B | ½ ■ □ ■ □ |  |  |  |  |  | 3* |
| <i>Asplenium gracillimum</i>           | makau, graceful spleenwort        | B | ½ ■ ½ ½ □ |  |  |  |  |  | 3* |
| <i>Asplenium terrestre</i>             | ground spleenwort                 | B | ½ ■ □ ■ □ |  |  |  |  |  | 3* |
| <i>Blechnum chambersii</i>             | kiokio, a hard fern               |   | □ ■ ½ □ □ |  |  |  |  |  | 3* |
| <i>Blechnum discolor</i>               | piupiu, crown fern                |   | □ ■ ½ □ □ |  |  |  |  |  | 3* |
| <i>Blechnum fluviatile</i>             | kiwakiwa, creek fern              |   | □ ■ ½ □ □ |  |  |  |  |  | 3* |
| <i>Blechnum novae-zelandiae/minus</i>  | swamp kiokio                      |   | ■ ■ ■ □ □ |  |  |  |  |  | 2  |
| <i>Blechnum penna-marina</i>           | kiokio, little hard fern          |   | ■ ■ ½ ■ ½ |  |  |  |  |  | 3  |
| <i>Cyathea dealbata</i>                | ponga, silver (tree) fern         |   | ½ ■ □ ½ □ |  |  |  |  |  | 3* |
| <i>Cyathea smithii</i>                 | katote, soft tree fern            |   | ½ ■ ½ □ □ |  |  |  |  |  | 3* |
| <i>Dicksonia fibrosa</i>               | kuripaka, wheki ponga - tree fern |   | ½ ■ ■ □ □ |  |  |  |  |  | 3* |
| <i>Dicksonia lanata</i>                | tuokura, woolly tree fern         |   | ½ ■ ½ □ □ |  |  |  |  |  | 3* |
| <i>Dicksonia squarrosa</i>             | wheki, rough tree fern            |   | ½ ■ ½ ½ □ |  |  |  |  |  | 2  |
| <i>Histiopteris incisa</i>             | mata, water fern                  |   | ½ ■ ½ □ □ |  |  |  |  |  | 3  |
| <i>Hypolepis ambigua</i>               | rough pig fern                    |   | ½ ■ ■ ½ ½ |  |  |  |  |  | 3  |
| <i>Hypolepis rufobarbata</i>           | sticky pig fern                   |   | ½ ■ ½ ½ ½ |  |  |  |  |  | 3  |
| <i>Lastreopsis glabella</i>            |                                   |   | □ ■ ½ □ □ |  |  |  |  |  | 3* |
| <i>Leptopteris hymenophylloides</i>    | heruheru, crape fern              |   | □ ■ ½ □ □ |  |  |  |  |  | 3* |
| <i>Pellaea rotundifolia</i>            | tarawera, button fern             |   | ½ ■ □ ■ □ |  |  |  |  |  | 3  |
| <i>Microsorium pustulatus</i>          | maratata, hounds tongue fern      |   | ½ ■ □ ■ □ |  |  |  |  |  | 2  |
| <i>Polystichum vestitum</i>            | puniu, prickly shield fern        |   | ■ ■ ■ □ ½ |  |  |  |  |  | 2  |
| <i>Polystichum zelandica/richardii</i> | pikopiko/tutoke, shield fern      |   | ½ ■ □ ■ □ |  |  |  |  |  | 2  |
| <i>Pneumatopteris pennigera</i>        | pakau-roharoha, gully fern        |   | □ ■ ½ □ □ |  |  |  |  |  | 3* |

**Note** Use plants propagated from wild populations and ask for natural local species rather than cultivars.

1. Don't use the common North Island lacebarks (*Hoheria populnea* or *Hoheria sextylosa*) as they hybridise with the natural local narrow-leaved lacebark (*Hoheria angustifolia*).
2. The common grown Golden Totara is a sterile hybrid and therefore does not produce berries, food for birds.



**Underlayers:** Clay & sand alternating on silt over greywacke river stones (2-100mm rounded) with some peat.