



# TOTARA – bellbird – matai, 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 moist & deep Kaiapoi soils

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

|                                 |  | Food    | sun | shade | wet | dry | wind | Stages |
|---------------------------------|--|---------|-----|-------|-----|-----|------|--------|
| <i>Alectryon excelsus</i>       | titoki                                 | F,I     | ½   | ■     | ½   | ½   | □    | 3*     |
| <i>Cordyline australis</i>      | ti kouka, cabbage tree                 | F,N,I   | ■   | ½     | ■   | ■   | ■    | 1      |
| <i>Elaeocarpus dentatus</i>     | hinau                                  | F,I     | ½   | ½     | ½   | ½   | □    | 3*     |
| <i>Pittosporum eugenioides</i>  | tarata, lemonwood                      | F,I     | ■   | ■     | ½   | ■   | ½    | 1      |
| <i>Plagianthus regius</i>       | manatu, lowland ribbonwood (deciduous) | I, B    | ■   | ½     | ½   | ½   | ■    | 1      |
| <i>Podocarpus totara</i>        | totara                                 | F       | ■   | ½     | ½   | ■   | ■    | 2      |
| <i>Prumnopitys taxifolia</i>    | matai, black pine                      | F       | ■   | ½     | ■   | ½   | ■    | 2      |
| <i>Pseudopanax crassifolius</i> | lancewood, horoeka                     | F,N,B,I | ■   | ½     | ½   | ■   | ■    | 2      |
| <i>Sophora microphylla</i>      | South Island kowhai                    | N,B     | ■   | ½     | ½   | ■   | ■ t  | 2      |

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

|                                |  |       |   |   |   |   |     |    |
|--------------------------------|--|-------|---|---|---|---|-----|----|
| <i>Aristotelia serrata</i>     | makomako, wineberry (semi-decid)           | F,I,B | ½ | ½ | ½ | ½ | □   | 2  |
| <i>Carpodetus serratus</i>     | putaputaweta, marbleleaf                   | F,I   | ½ | ■ | ½ | ½ | □   | 2  |
| <i>Coprosma areolata</i>       | net-leaved coprosma                        | F,B   | ½ | ■ | ■ | ½ | □   | 2* |
| <i>Coprosma linariifolia</i>   | linear-leaved coprosma, yellow-wood        | F     | ½ | ■ | ½ | ½ | ½   | 2  |
| <i>Coprosma lucida</i>         | shining karamu                             | F     | ½ | ■ | ½ | ½ | ■   | 2  |
| <i>Coprosma robusta</i>        | karamu                                     | F     | ■ | ■ | ■ | ½ | ½   | 1  |
| <i>Coprosma rotundifolia</i>   | round-leaved coprosma                      | F,B   | ½ | □ | ■ | □ | □   | 2* |
| <i>Dodonaea viscosa</i>        | akeake                                     | I     | □ | ½ | □ | □ | □   | 2* |
| <i>Fuchsia excorticata</i>     | kotukutuku, tree fuchsia (decid)           | F,N,B | ½ | ■ | ½ | □ | □   | 3* |
| <i>Griselinia littoralis</i>   | kapuka, broadleaf                          | F,I   | ■ | ■ | ½ | ■ | ■   | 2  |
| <i>Hedycarya arborea</i>       | porokaiwhiri, pigeonwood                   | F,I   | ½ | ■ | ½ | □ | □   | 3* |
| <i>Hoheria angustifolia</i>    | houhere, narrow-leaved lacebark (semi-dec) | I     | ■ | ½ | ½ | ■ | ■   | 1  |
| <i>Kunzea ericoides</i>        | kanuka                                     | I     | ■ | □ | □ | ■ | ■   | 1  |
| <i>Leptospermum scoparium</i>  | manuka, tea tree                           | I     | ■ | □ | ■ | ■ | ■   | 1  |
| <i>Lophomyrtus obcordata</i>   | rohutu, NZ myrtle                          | F,I   | ½ | ■ | ½ | ½ | ■   | 2  |
| <i>Melicactus micranthus</i>   | manakura, shrubby mahoe                    | F,I   | ½ | ■ | ½ | ½ | □   | 3  |
| <i>Melicactus ramiflorus</i>   | mahoe, whiteywood                          | F,L,I | ½ | ■ | ½ | ½ | ½   | 3* |
| <i>Myoporum laetum</i>         | ngaio                                      | F,I   | □ | ½ | □ | □ | □ t | 3* |
| <i>Myrsine australis</i>       | mapau, red mapau                           | F,L,I | ■ | ■ | ½ | ½ | ½   | 3* |
| <i>Neomyrtus pedunculata</i>   | rohutu, NZ myrtle                          | F,I   | ½ | ■ | ■ | □ | □   | 3* |
| <i>Pennantia corymbosa</i>     | kaikomako, ducksfeet                       | F,N,I | ½ | ■ | ■ | ½ | ½   | 2  |
| <i>Pittosporum tenuifolium</i> | kohuhu, black matipo/mapau, tawhari        | F,I   | ■ | ■ | ½ | ■ | ■   | 1  |
| <i>Pseudopanax arboreus</i>    | fivefinger, whauwhaupaku                   | F,N,I | ■ | ■ | □ | ½ | ½   | 2  |
| <i>Pseudowintera colorata</i>  | horopito, peppertree                       | F,N,I | ■ | ■ | ■ | □ | ½   | 2  |

### CLIMBERS & VINES

|                          |                 |   |   |   |   |   |   |   |
|--------------------------|-----------------|---|---|---|---|---|---|---|
| <i>Clematis forsteri</i> | yellow clematis | I | ½ | ½ | □ | ½ | ½ | 3 |
|--------------------------|-----------------|---|---|---|---|---|---|---|

## Tolerances

|                               |                                 | Food | sun<br>shade | wet<br>dry | wind | Stages |
|-------------------------------|---------------------------------|------|--------------|------------|------|--------|
| <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>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 | □ ■ ■ |  | 2  |
| <i>Coprosma propinqua</i>      | mikimiki, mingimingi  | F,L     | ■ ½ | ■ ■ ■ |  | 1  |
| <i>Coprosma rhamnoides</i>     | red-fruited mikimiki  | F,L     | □ □ | ½ ½ □ |  | 3* |
| <i>Coprosma rubra</i>          | red-stemmed coprosma  | F,L     | ■ ½ | ½ ½ ■ |  | 1  |
| <i>Fuchsia perscandens</i>     | climbing fuchsia      | F,L,N,I | ½ ½ | □ ½ ½ |  | 3* |
| <i>Hebe salicifolia</i>        | koromiko              | I       | ■ □ | □ ½ ■ |  | 1  |
| <i>Leucopogon fasciculatus</i> | mingimingi            | F,I     | ½ ½ | □ ½ ½ |  | 2  |
| <i>Melicope simplex</i>        | poataniwha            | F,I     | ½ ■ | ½ ½ ■ |  | 3  |
| <i>Myrsine divaricata</i>      | weeping mapou         | F,L,I   | ½ ½ | ■ ½ ■ |  | 2  |
| <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* |

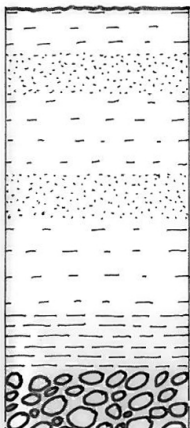
## PERCHING PLANTS & PARTIAL PARASITES

|                               |                   |       |           |   |  |   |
|-------------------------------|-------------------|-------|-----------|---|--|---|
| <i>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 ■ |  | 2   |
| <i>Acaena novae-zelandiae</i> | bidibidi, piripiri             | S,I | ■ □   | □ ■ ■ |  | 2   |
| <i>Anemanthele lessoniana</i> | hunangamoho, bamboo/wind grass | S   | ■ ■ □ | ½ ■   |  | 2   |
| <i>Astelia fragrans</i>       | kakaha, bush flax              | F,I | ■ ■   | ½ ½ ■ |  | 2   |
| <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 solandri</i>         | forest sedge                   | S,I | ■ ■   | ½ ½ ■ |  | 3   |
| <i>Carex virgata</i>          | swamp sedge                    | S,I | ■ ½   | ■ ½ ■ |  | 1   |
| <i>Cortaderia richardii</i>   | toetoe                         | S   | ■ □   | ½ ■ ■ |  | 1   |
| <i>Dianella nigra</i>         | turutu, blue berry             | F,I | ■ ■ □ | ■ ■   |  | 2   |
| <i>Echinodium hispidum</i>    | moss                           |     | □ ■   | ½ ½ □ |  | 3   |
| <i>Hypnum cupressiforme</i>   | moss                           |     | ½ ■   | ½ ■ ■ |  | 3   |
| <i>Juncus distegus</i>        | wiwi, tussock rush             | S   | ■ □   | ■ ½ ■ |  | 1   |
| <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 polynoda</i>    | a rice grass                   | S   | ½ ■   | ½ ½ ■ |  | 3   |
| <i>Microlaena stipoides</i>   | meadow rice grass              | S   | ■ ■   | 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   |

|  |                                   | Tolerances |     |       |     |     | Stages |      |
|--|-----------------------------------|------------|-----|-------|-----|-----|--------|------|
|  |                                   | Food       | sun | shade | wet | dry |        | wind |
| <i>Uncinia uncinata</i>                | watau/kamu, hooked sedge          | S          | ½   | ■     | ½   | ½   | ½      | 3    |
| <i>Urtica incisa</i>                   | dwarf nettle                      | I          | ½   | ■     | □   | ½   | □      | 3    |
| <b>GROUND &amp; TREE FERNS</b>         |                                   |            |     |       |     |     |        |      |
| <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 novae-zelandiae/minus</i>  | swamp kiokio                      |            | ½   | ■     | ■   | □   | □      | 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>Dicksonia fibrosa</i>               | kuripaka, wheki ponga - tree fern |            | ½   | ■     | ■   | □   | □      | 3*   |
| <i>Dicksonia squarrosa</i>             | wheki, rough tree fern            |            | ½   | ■     | ½   | ½   | □      | 2    |
| <i>Hypolepis ambigua</i>               | rough pig fern                    |            | ½   | ■     | ■   | ½   | ½      | 3    |
| <i>Pellaea rotundifolia</i>            | tarawera, button fern             |            | ½   | ■     | □   | ■   | □      | 3    |
| <i>Microsorium pustulatus</i>          | maratata, hounds tongue fern      |            | ½   | ■     | □   | ■   | □      | 2    |
| <i>Polystichum zelandica/richardii</i> | pikopiko/tutoke, shield fern      |            | ½   | ■     | □   | ■   | □      | 2    |
| <i>Pteridium esculentum</i>            | rahurahu, bracken fern            |            | ■   | ½     | ½   | ■   | ■      | 1    |



**Underlayers:** Alternating silt, sand & clay on greywacke river stones (2-100mm rounded)