EASTERN GOLDEN BAY LIMESTONE ECOSYSTEM NATIVE PLANT RESTORATION LIST

| Locality: | Limestone hill country of outcrops and soils derived from limestone mostly in the lower Takaka catchment between Ligar Bay and Rangihaeata and inland to Payne's Ford. Also includes Taupo Point and Tata Islands. |
|----------------------|--|
| Topography: | Diverse karst landforms of limestone outcrops, bluffs and depressions. Occasional caves, sinkholes and shafts. Bedrock usually flat-topped and broken into blocks by dissolution fissures forming corridors (clints and grikes). Includes gentle landforms directly adjoining limestone. |
| Soils and Geology: | Mostly very well-drained, fertile silt loams derived from platy limestone. Limestone depth varies from 15-180 metresSome impeded drainage in depressions and on flat limestone plates. Soil depth is highly variable depending on bedrock topography; often very shallow. Drought-prone. |
| Climate: | High sunshine hours; frosts nil to moderate; mild annual temperatures. Rainfall 1500mm on the coast to 2400mm inland. |
| Coastal Influence: | Rangihaeata headland, Motupipi estuary and from Pohara to Ligar Bay up to ½km inland. Also Tata Islands and Taupo Point. |
| Original Vegetation: | Mixed podocarp-broadleaf forest; especially of mataī, tōtara, northern rātā and tītoki. |
| Human Modification: | Much of ecosystem is still covered in native vegetation although little of it is original due to logging and burning. Weed infestation generally extensive. Limestone quarrying. |

[Refer to the Ecosystem Restoration map showing the colour-coded area covered by this list.]

KFY

| PLANTING RATIO | PLANT PREFERENCES | TYPE OF FOOD PROVIDED FOR BIRDS AND LIZARDS |
|--|---|---|
| Early Stage plants are able to establish in open sites and can act | Wet, Moist, Dry, Sun, Shade, Frost, Saline | F = Fruit/seeds |
| as a nursery for later stage plants by | 1 = prefers or tolerates | N = Nectar |
| providing initial cover. Later Stage plants need cover to | ½ = prefers or tolerates some0 = intolerant of | N = Nectal |
| establish. | | B = Buds/foliage |
| | Plant in habitat type: | |
| 2 = plant commonly | | I = Insects |
| 1 = plant less commonly | C = coastal | |
| 0 = not suitable to plant at this stage | W = freshwater wetland | |
| | R = river bank (riparian) | |

| PLANT SPECIES FOR EASTERN GOLDEN BAY LIMESTONE ECOSYSTEM | | STAGE | STAGE | | | ı | PLAN | T PRE | FERE | NCES | 3 | | |) | |
|--|--------------------------|---------------------------|---------------------------|-----|-------|-----|------|-------|-------|--------|------------|-------------------------|-----------------|-------------------------|-----------|
| Botanical Names | Māori & Common Names | PLANTING RATIO - EARLY SI | PLANTING RATIO - LATER ST | Wet | Moist | Dry | ung | Shade | Frost | Saline | Coast Only | Freshwater Wetland Only | Riparian Mostly | Maximum Height (metres) | Food Type |
| TREES | | | | | | | | | | | | | | | |
| Alectryon excelsus | tītoki | 0 | 2 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | | | | 15 | FI |
| Aristotelia serrata | makomako, wineberry | 1 | 2 | 1/2 | 1 | 0 | 0 | 1 | 1/2 | 0 | | | | 10 | FBI |
| Brachyglottis repanda | rangiora | 0 | 1 | 0 | 1 | 1/2 | 1/2 | 1 | 1/2 | 0 | | | | 4 | |
| Carpodetus serratus | putaputāwētā, marbleleaf | 1 | 1 | 1 | 1 | 0 | 1 | 1/2 | 1 | 0 | | | | 10 | FBI |
| Coprosma areolata | thin-leaved coprosma | 1 | 1 | 0 | 1 | 1/2 | 1/2 | 1/2 | 1/2 | 0 | | | | 5 | FBI |
| Coprosma crassifolia | thick-leaved coprosma | 1 | 0 | 0 | 1/2 | 1 | 1 | 1/2 | 1 | 0 | | | | 5 | FB |
| Coprosma grandifolia | raurekau | 0 | 2 | 1/2 | 1 | 0 | 1/2 | 1 | 1/2 | 0 | | | | 6 | FB |
| Coprosma lucida | shining karamū | 1 | 1 | 0 | 1 | 1 | 1 | 1/2 | 1/2 | 0 | | | | 6 | F |
| Coprosma repens | taupata | 2 | 0 | 1 | 1 | 1 | 1 | 0 | 0 | 1/2 | С | | | 5 | FI |
| Coprosma robusta | karamū | 2 | 1 | 1/2 | 1 | 1 | 1 | 1/2 | 1/2 | 0 | | | | 6 | F |

Prepared by Shannel Courtney for Tasman District Council, June 2004

Last update: July 2008

| | IMESTONE ECOSYSTEM | PLANT PREFERENCES | | | | | | | | | | | | | |
|---|--------------------------------------|---------------------------|---------------------------|--------|-------|-----|-----|-------|-------|--------|------------|-------------------------|-----------------|-----------------------------------|-----------|
| Botanical Names | Botanical Names Māori & Common Names | PLANTING RATIO - EARLY ST | PLANTING RATIO - LATER ST | Wet | Moist | Dry | Sun | Shade | Frost | Saline | Coast Only | Freshwater Wetland Only | Riparian Mostly | Maximum Height (metres) Food Type | Food Type |
| Cordyline australis | tī kouka, cabbage tree | 2 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | | | | 12 | FNI |
| Coriaria arborea | tree tutu | 2 | 0 | 1/2 | 1 | 1 | 1 | 0 | 1/2 | 0 | | | | 6 | F |
| Cyathea dealbata | ponga, silver fern | 0 | 1 | 0 | 1 | 1/2 | 0 | 1 | 1/2 | 0 | | | | 10 | - 1 |
| Cyathea medullaris | mamaku, black treefern | 0 | 2 | 1/2 | 1 | 0 | 0 | 1 | 0 | 0 | | | | 16 | - 1 |
| Dacrycarpus dacrydioides | kāhikatea | 1 | 2 | 1 | 1 | 0 | 1/2 | 1/2 | 1 | 0 | | | | 60 | FI |
| Dicksonia squarrosa | whekī | 0 | 1 | 1/2 | 1 | 0 | 0 | 1 | 1 | 0 | | | | 7 | 1 |
| Dodonaea viscosa | akeake | 2 | 0 | 0 | 1 | 1 | 1 | 0 | 1/2 | 0 | | | | 7 | T |
| Fuchsia excorticata | kōtukutuku, tree fuchsia | 1 | 1 | 1/2 | 1 | 0 | 1/2 | 1 | 1/2 | 0 | | | | 10 | FNBI |
| Griselinia lucida | puka | 2 | 1 | 0 | 1 | 1 | 1 | 1/2 | 0 | 0 | | | | 8 | FBI |
| Hedycarya arborea | porokaiwhiri, pigeonwood | 0 | 2 | 0 | 1 | 1 | 1 | 1/2 | 1/2 | 0 | | | | 8 | FBI |
| Hoheria angustifolia | narrow-leaved lacebark | 2 | 2 | 1/2 | 1 | 1 | 1 | 0 | 1 | 0 | | | R | 10 | FI |
| Hoheria ovata | limestone lacebark | 2 | 1 | 1/2 | 1 | 1 | 1 | 1/2 | 1 | 0 | | | | 10 | FI |
| Kunzea ericoides | kānuka | 2 | 0 | 0 | 1/2 | 1 | 1 | 0 | 1 | 0 | | | | 15 | NI |
| Laurelia novae-zelandiae | pukatea | 0 | 2 | 1 | 1/2 | 0 | 0 | 1 | 1/2 | 0 | | | | 35 | BI |
| Lophomyrtus obcordata | rōhutu | 1 | 1 | 1/2 | 1 | 1 | 1 | 1 | 1/2 | 0 | | | | 8 | FI |
| Macropiper excelsum | kawakawa, pepperwood | 0 | 2 | 1/2 | 1 | 1 | 1 | 1 | 0 | 0 | | | | 6 | FI |
| Melicope simplex | poataniwha | 1 | 2 | 0 | 1 | 1 | 1 | 1 | 1/2 | 0 | | | | 5 | - ' ' |
| Melicope ternata | whārangi | 1 | 1 | 0 | 1 | 1 | 1 | 1/2 | 0 | 0 | С | | | 7 | В |
| Melicytus ramiflorus | māhoe, whiteywood | 0 | 2 | 1/2 | 1 | 1 | 1/2 | 1 | 1/2 | 0 | C | | | 10 | FBI |
| Metrosideros robusta | northern rātā | 1 | 1 | 1/2 | 1 | 1/2 | 1/2 | 0 | 1/2 | 0 | | | | 30 | N |
| Myoporum laetum | | 2 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 1/2 | С | | | 10 | FN |
| _ , . | ngaio | _ | | | _ | | | _ | - | _ | C | | | 8 | FI |
| Myrsine australis | māpou kaikōmako | 2 | 2 | 0 | 1 | 1 | 1 | 1/2 | 1 | 0 | | | | 12 | |
| Pennantia corymbosa | | _ | 2 | 1/ | | 1 | | 1 | 1 | - | | | | | FNBI |
| Pittosporum eugenioides | tarata, lemonwood kōhūhū | 2 | 1 | ½ 0 | 1 | 1 | 1 | 1/2 | 1 | 0 | | | | 12 9 | FI FBI |
| Pittosporum tenuifolium | | _ | 1 | _ | | 1 | 1 | _ | | | | | D | | |
| Plagianthus regius | manatū, lowland ribbonwood | 2 | 2 | 1/2 | 1 | 1 | 1 | 0 | 1 | 0 | | | R | 15 | FBI |
| Podocarpus totara | tōtara | 2 | 2 | 0 | 1 | 1 | 1 | 1/2 | 1 | | | | | 30 | FBI |
| Prumnopitys taxifolia | mataī | 1 | 2 | 0 | 1 | 1 | 1 | 1/2 | 1/ | 0 | | | | 25 | FI |
| Pseudopanax arboreus | orihou, five finger | 0 | 1 | 0 | 1/ | 1/2 | 1/2 | 1/2 | 1/2 | 0 | | | | 8 | FNBI |
| Pseudopanax ferox | fierce lancewood | 2 | 1 | 0 | 1/2 | 1 | 1 | 1/2 | 1/2 | 0 | | | | 8 | FNI |
| Pseudopanax macintyrei | limestone five-finger | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 1/2 | 0 | | | | 5 | F |
| Rhopalostylis sapida | nīkau | 0 | 2 | 1/2 | 1 | 0 | 0 | 1 | 0 | 0 | | | | 10 | FNI |
| Schefflera digitata | patē, seven-finger | 0 | 1 | 1/2 | 1 | 0 | 1/2 | 1 | 1/2 | 0 | | | | 8 | FBI |
| Solanum aviculare | poroporo | 1 | 0 | 0 | 1 | 1/2 | 1/2 | 1/2 | 1/2 | 0 | | | | 3 | F |
| Sophora longicarinata | limestone kōwhai | 2 | 1 | 0 | 1/2 | 1 | 1 | 1/2 | 1/2 | 0 | | | | 8 | NBI |
| Streblus banksii | ewekurī, large-leaved milk tree | 0 | 2 | 0 | 1 | 1 | 1/2 | 1 | 0 | 0 | С | | | 12 | FB |
| Streblus heterophyllus | milkwood | 1 | 1 | 0 | 1 | 1 | 1/2 | 1/2 | 1/2 | 0 | | | | 10 | FB |
| SHRUBS | | | | | | | | | | | | | | | |
| Carmichaelia australis var. "arenaria" | broom | 1 | 1 | 1/2 | 1 | 1 | 1 | 1/2 | 1 | 1/2 | С | | | 2 | NB |
| Coprosma propinqua ssp. propinqua | mikimiki | 2 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | | | | 5 | F |
| Hebe albicans ssp. "NWN glaucophyllus" | limestone koromiko | 2 | 0 | 0 | 1/2 | 1 | 1 | 1/2 | 1 | 0 | | | | 1 | N |
| Melicytus obovatus | limestone māhoe | 2 | 1 | 0 | 1/2 | 1 | 1 | 1/2 | 0 | 0 | | | | 4 | FB |
| Pimelea longifolia | coastal daphne | 0 | 1 | 0 | 1/2 | 1 | 1/2 | 1/2 | 1/2 | 0 | | | | 2 | FI |
| Teucridium parvifolium | native germander | 1 | 2 | 0 | 1 | 1 | 1/2 | 1/2 | 1/2 | 0 | | | R | 1 | |
| CLIMBERS | | | | | | | | | | | | | | | |

| PLANT SPECIES FOR EASTERN GOLDEN BAY LIMESTONE ECOSYSTEM | | | | PLANT PREFERENCES | | | | | | | | | | | |
|--|------------------------------|---------------------------|----------------------------|-------------------|-------|-----|-----|-------|-------|--------|------------|-------------------------|-----------------|-------------------------|-----------|
| Botanical Names | Māori & Common Names | PLANTING RATIO - EARLY ST | PLANTING RATIO - LATER STA | Wet | Moist | Dry | Sun | Shade | Frost | Saline | Coast Only | Freshwater Wetland Only | Riparian Mostly | Maximum Height (metres) | Food Type |
| Clematis foetida | dainty clematis | 0 | 1 | 0 | 1 | 1 | 1/2 | 1/2 | 1/2 | 0 | | | | 5 | |
| Freycinetia banksii | kiekie | 0 | 2 | 1/2 | 1 | 1/2 | 0 | 1 | 1/2 | 0 | | | | 10 | FNI |
| Metrosideros colensoi | limestone rātā vine | 0 | 2 | 0 | 1 | 1 | 0 | 1 | 1/2 | 0 | | | | 8 | N |
| Metrosideros perforata | lowland rātā vine | 0 | 1 | 0 | 1 | 1/2 | 1/2 | 1 | 1/2 | 0 | | | | 15 | N |
| Parsonsia capsularis | native jasmine | 1 | 1 | 0 | 1 | 1 | 1/2 | 1/2 | 1 | 0 | | | | 5 | 1 |
| Passiflora tetrandra | kōhia, native passionvine | 0 | 1 | 0 | 1 | 0 | 1/2 | 1/2 | 0 | 0 | | | | 15 | FN |
| Rhipogonum scandens | kareao, supplejack | 0 | 2 | 1 | 1 | 0 | 1/2 | 1 | 1/2 | 0 | | | | 15 | F |
| Rubus schmidelioides | shrub lawyer | 0 | 1 | 0 | 1 | 1 | 1 | 1/2 | 1 | 0 | | | | 5 | F |
| GRASSES, SEDGES & GROUND COVERS | | | | | | | | | | | | | | | |
| Acaena anserinifolia | piripiri, bidibid | 1 | 1 | 1/2 | 1 | 1 | 1 | 1/2 | 1 | 0 | | | | 0.2 | |
| Anemanthele lessoniana | gossamer grass | 2 | 2 | 0 | 1 | 1 | 1/2 | 1/2 | 1/2 | 0 | | | | 1 | |
| Apium prostratum ssp. prostratum | sea celery | 1 | 0 | 0 | 1 | 1/2 | 1 | 1/2 | 1/2 | 1/2 | С | | | 0.1 | |
| Arthropodium cirratum | renga renga | 2 | 2 | 0 | 1/2 | 1 | 1 | 1/2 | 1/2 | 1/2 | С | | | 0.5 | |
| Arthropteris tenella | jointed fern | 0 | 1 | 0 | 1 | 1/2 | 0 | 1 | 0 | 0 | | | | 5 | |
| Asplenium gracillimum | graceful spleenwort | 0 | 2 | 0 | 1 | 1/2 | 0 | 1 | 1/2 | 0 | | | | 0.7 | В |
| Asplenium lyallii | limestone spleenwort | 0 | 1 | 0 | 1 | 1/2 | 0 | 1 | 1/2 | 0 | | | | 0.5 | |
| Asplenium oblongifolium | shining spleenwort | 0 | 2 | 0 | 1 | 1 | 1/2 | 1 | 0 | 0 | | | | 0.5 | |
| Astelia fragrans | ground lily | 0 | 2 | 0 | 1 | 0 | 1/2 | 1 | 1/2 | 0 | | | | 1.5 | F |
| Astelia solandri | kōwharawhara | 0 | 2 | 0 | 1 | 1/2 | 1/2 | 1 | 1/2 | 0 | | | | 1 | F |
| Blechnum filiforme | climbing hardfern | 0 | 2 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | С | | | 5 | |
| Blechnum minus | swamp kiokio | 2 | 2 | 1 | 1 | 0 | 1 | 1/2 | 1 | 0 | | W | | 0.5 | |
| Blechnum novae-zelandiae | kiokio | 2 | 0 | 1 | 1 | 1 | 1/2 | 1 | 1 | 0 | | | | 2 | 1 |
| Bolboschoenus caldwellii | pūrua grass | 2 | 0 | 1 | 1/2 | 0 | 1 | 0 | 1/2 | 1/2 | С | W | | 1 | - 1 |
| Carex geminata | toetoe rautahi | 2 | 0 | 1 | 1 | 0 | 1 | 1/2 | 1 | 0 | | W | | 1.5 | - 1 |
| Carex lambertiana | coastal forest sedge | 2 | 1 | 1 | 1 | 0 | 1 | 1/2 | 1/2 | 0 | С | | | 1 | |
| Carex solandri | droop sedge | 1 | 1 | 0 | 1 | 1/2 | 1/2 | 1/2 | 1 | 0 | | | | 1 | |
| Carex virgata | pukio | 2 | 1 | 1 | 1/2 | 0 | 1 | 1/2 | 1 | 0 | | W | | 1.5 | - 1 |
| Collospermum hastatum | perching lily | 1 | 2 | 0 | 1 | 1 | 1/2 | 1/2 | 1/2 | 0 | | | | 0.7 | F |
| Cortaderia richardii | South Island toetoe | 2 | 0 | 1 | 1 | 1 | 1 | 0 | 1 | 0 | | | | 2 | - 1 |
| Cyperus ustulatus | upoko tangata | 2 | 0 | 1/2 | 1 | 1/2 | 1 | 0 | 1/2 | 1/2 | С | | | 1 | F |
| Dichondra repens | kidney creeper | 1 | 0 | 0 | 1/2 | 1 | 1 | 1/2 | 1/2 | 0 | С | | | 0.1 | |
| Diplazium australe | herringbone fern | 1 | 2 | 0 | 1 | 0 | 1/2 | 1/2 | 1/2 | 0 | | | | 0.5 | |
| Disphyma australe | horokaka, native iceplant | 2 | 0 | 0 | 1/2 | 1 | 1 | 0 | 1/2 | 1/2 | С | | | 0.1 | FB |
| Elymus solandri | blue wheatgrass | 1 | 0 | 0 | 1/2 | 1 | 1 | 0 | 1/2 | 1/2 | С | | | 0.3 | |
| Euphorbia glauca | native sand spurge, waiūatua | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 1/2 | 1/2 | С | | | 1 | |
| Hypolepis ambigua | hypolepis | 1 | 0 | 1/2 | 1 | 0 | 1 | 1/2 | 1 | 0 | | | | 1 | |
| Isolepis nodosa | knot sedge | 1 | 0 | 0 | 1/2 | 1 | 1 | 0 | 1/2 | 1/2 | С | | | 1 | |
| Lastreopsis microsora ssp. pentangularis | creeping five-angle fern | 0 | 2 | 0 | 1 | 1/2 | 0 | 1 | 0 | 0 | С | | | 0.3 | |
| Libertia ixioides | native iris | 0 | 1 | 0 | 1 | 1/2 | 1/2 | 1/2 | 1/2 | 0 | | | | 0.3 | |
| Linum monogynum | rauhuia | 1 | 0 | 0 | 1 | 1 | 1 | 1/2 | 1/2 | 1/2 | С | | | 0.5 | |
| Lobelia anceps | shore lobelia | 1 | 0 | 1/2 | 1 | 1 | 1 | 1/2 | 0 | 1/2 | С | | | 2 | |
| Microlaena avenacea | bush ricegrass | 0 | 1 | 1/2 | 1 | 1/2 | 1/2 | 1 | 1 | 0 | | | | 0.5 | |
| Microlaena polynoda | bamboo grass | 1 | 2 | 0 | 1 | 1 | 1/2 | 1/2 | 1/2 | 0 | | | | 2 | |
| Microlaena stipoides | meadow ricegrass | 0 | 1 | 0 | 1 | 1 | 1/2 | 1/2 | 1/2 | 0 | | | | 0.2 | |
| Microsorum pustulatum | hounds tongue fern | 1 | 1 | 0 | 1 | 1 | 1/2 | 1 | 1/2 | 0 | | | | 0.2 | В |

| PLANT SPECIES FOR EASTERN GOLDEN BAY LIMESTONE ECOSYSTEM | | | STAGE | | | ŗ | PLAN | T PRE | FERE | NCES | 6 | | |) | |
|---|-------------------------|------------------------------|---------------------------|-----|-------|-----|------|-------|-------|--------|------------|-------------------------|-----------------|-------------------------|-----------|
| Botanical Names | Māori & Common Names | PLANTING RATIO - EARLY STAGE | PLANTING RATIO - LATER ST | Wet | Moist | Dry | Sun | Shade | Frost | Saline | Coast Only | Freshwater Wetland Only | Riparian Mostly | Maximum Height (metres) | Food Type |
| Pellaea aff. falcata | large button fern | 0 | 1 | 1/2 | 1 | 1/2 | 0 | 1 | 1/2 | 0 | | | | 0.3 | |
| Pellaea rotundifolia | button fern | 0 | 1 | 0 | 1 | 1/2 | 1/2 | 1 | 1/2 | 0 | | | | 0.2 | |
| Phormium cookianum | wharariki, coastal flax | 2 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 1/2 | С | | | 1.5 | N |
| Phormium tenax | harakeke, swamp flax | 2 | 0 | 1 | 1 | 1/2 | 1 | 0 | 1 | 0 | | W | | 2 | N |
| Pneumatopteris pennigera | pākau, gully fern | 0 | 2 | 0 | 1 | 0 | 0 | 1 | 1/2 | 0 | | | | 1 | - 1 |
| Poa aff. cita | coastal silver tussock | 2 | 0 | 0 | 1 | 1 | 1 | 0 | 1/2 | 1/2 | С | | | 0.5 | - 1 |
| Poa anceps | carpet poa | 1 | 2 | 0 | 1 | 1 | 1 | 1/2 | 1/2 | 1/2 | С | | | 0.2 | - 1 |
| Polystichum neozelandicum ssp. zerophyllum (=P. richardii) | lowland shield fern | 0 | 2 | 0 | 1 | 1/2 | 0 | 1 | 1/2 | 0 | | | | 0.5 | |
| Polystichum vestitum | prickly shield fern | 0 | 1 | 1/2 | 1 | 0 | 1/2 | 1 | 1 | 0 | | | | 1 | 1 |
| Ranunculus macropus | waoriki | 0 | 1 | 1 | 1/2 | 0 | 1/2 | 1/2 | 1/2 | 0 | С | W | | 0.5 | |
| Typha orientalis | raupō | 2 | 0 | 1 | 1/2 | 0 | 1 | 0 | 1 | 0 | | W | | 3 | |
| Uncinia uncinata | hookgrass | 1 | 2 | 1/2 | 1 | 1/2 | 1/2 | 1 | 1 | 0 | | | | 0.5 | |