

## Appendices : Multiple purpose trees

Table 13: Native trees and shrubs at a glance

Common name	Scientific name	Environmental and farm forestry uses (except recognised biodiversity values)	Wood qualities and uses
Akeake	<i>Dodonea viscosa</i>	Rapid soil erosion control; shelter; bioengineering riparian stabilization.	Widely planted as ornamental shrub. Very hard, heavy and durable wood, not fraying at edges on impact; agricultural tools, spinning tops, taiaha, canoe paddles, cabinet making; picture frames; best turned in green condition.
Black beech	<i>Nothofagus solandri var sol</i>	Efficient soil erosion control; shelter; bioengineering riparian stabilization, Honeydew production.	Durable, dense, stable wood. Cabinet making, panelling, flooring; impact handles; superb wood for turning.
Hard beech	<i>Nothofagus truncata</i>	Efficient soil erosion control; shelter, Honeydew production.	Durable, very dense and stable wood. Cabinet making, panelling, flooring; superb wood for turning.
Red beech	<i>N. fusca</i>	Efficient soil erosion control; shelter; bioengineering riparian stabilization.	Durable, dense, even texture; NZ's most stable timber; Cabinet making, panelling, flooring; superb wood for turning.
Silver beech	<i>Nothofagus menziesii</i>	Efficient soil erosion control; shelter; bioengineering, riparian stabilization.	Easily worked and dried wood (no tension wood); even texture; excellent cabinet-making wood, steam-bending qualities; brushware; furniture, flooring, interior finishes.
Black maire	<i>Nestegis cunninghamii</i>	Effective soil erosion control; bioengineering gully and riparian stabilization; shelter. Highly favoured turning wood. Fruit sought after by wild pigs.	Hard, heavy, strong and durable wood for many purposes, including substitute for metal bearings, framing, cabinet making, ornamental items.
Broadleaf	<i>Griselinia littoralis</i>	Rapid shelter; soil erosion control; bioengineering gully and riparian stabilization. Winter fruit for poultry/birds.	Soft turning wood.
Cabbage tree	<i>Cordyline australis</i>	Resilient tree. Rapid bioengineering results at exposed sites. Erosion and river control.	
Coprosma	<i>Coprosma repens, C. robusta</i>	Rapid shelter; soil erosion control; riparian stabilization. Fruit sought after by poultry/birds	
Fivefinger, lancewood	<i>Pseudopanax spp</i>	Shelter; soil erosion control; Bioengineering riparian stabilization.	Very hard wood.
Hebe	<i>Hebe stricta</i>	Rapid shelter; bioengineering soil erosion control and riparian stabilization	
Hinau, Pokaka	<i>Elaeocarpus spp</i>	Bioengineering, soil erosion control and riparian stabilization. Fruit sought after by wild pigs.	Useful medium density hardwood. Durable dark heartwood; non-durable whitish sapwood; boat building, furniture, decking, wood turning, flooring.
Kahikatea	<i>Dacrycarpus dacrydioides</i>	Flood control; riparian stabilization. Fruit sought after by poultry/birds and wild pigs.	Easily worked perishable timber without odour. Kitchen woodware; feature panelling; good turning wood.

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Kanuka	<i>Kunzea ericoides</i>	Rapid shelter; soil erosion control; bioengineering gully and riparian stabilization. Nectar and honey source.	Availability: small uncommon pioneer tree. Fuel use has made large trees for agricultural implements rare. Hard, strong non-durable wood, agricultural and horticultural implements; hammer and impact handles; elastic canoe paddles; firewood.
Kauri	<i>Agathis australis</i>	Rapid shelter; erosion control; bioengineering gully and riparian stabilization.	Re-growth wood easy to work, but less stable and durable compared to recycled strong wood. The latter is used for fine furniture, panelling, boat building. Excellent carving timber.
Kohekohe	<i>Dysoxylum spectabile</i>	Coastal shelter; riparian stabilization; fruit sought after by poultry/birds.	Attractively coloured, easily worked wood for furniture and cabinet making. Durable in sand.
Kohuhu, lemonwood etc	<i>Pittosporum spp</i>	Rapid effective wind break; soil erosion control; bioengineering riparian stabilization; honey.	
Kowhai	<i>Sophora spp</i>	Bioengineering: rapid and effective soil erosion control; gully and riparian stabilization; shelter; nectar source.	Small pieces for wood turning from ornamentally planted trees. External building; agricultural implements; good turning and carving wood; attractive yellow-orange colour.
Lacebark	<i>Hoheria spp</i>	Rapid shelter; riparian stabilization.	
Mangeao	<i>Litsea callicaris</i>	Shelter; riparian stabilization, nectar source. Fruit sought after by birds.	Silvery heartwood, light, strong, tough, elastic, durable, and steam bends well. Used for canoe, boat frames, sporting goods, wheel making, cooperage, flooring and interior finish.
Manuka	<i>Leptospermum scoparium</i>	Rapid shelter; soil erosion control; bioengineering gully and riparian stabilization. Manuka honey.	Availability: common native pioneer shrub. Hard, strong non-durable wood, agricultural and horticultural implements – hammer and impact handles; firewood.
Matai	<i>Prumnopitys taxifolia</i>	Future-proofing local matai population; fruit sought after by wild pigs.	Heartwood durable out of ground. Dimensionally stable; first class flooring, exterior joinery windowsill timber.
Miro	<i>Prumnopitys ferruginea</i>	Bioengineering erosion control; riparian stabilization; survival of local miro population; important winter food source; Fruit sought after by wild pigs.	Slightly stronger than rimu, not as durable and attractive. Heartwood excellent machining qualities.
Ngaio	<i>Myoporum laetum</i>	Coastal shelter; riparian stabilization, erosion control. Poisonous to stock.	Good wood turning.
NZ Flax harakeke	<i>Phormium tenax</i>	Resilient versatile plant; rapid bioengineering results at exposed sites; wind break. Erosion and river control. Nectar source.	Versatile uses for weaving; basket-making; rope fibre etc.
Pigeonwood	<i>Hedycarya arborea</i>	Riparian, erosion, shelter. Fruit sought after by birds/poultry and wild pigs.	

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Puriri <sup>33</sup>	<i>Vitex lucens</i>	Bioengineering, effective soil erosion control and riparian stabilisation. Fruit available throughout the year and sought after by birds/poultry and wild pigs. Nectar available throughout the year.	Demand has always exceeded supply. The dark brown heartwood of NZ teak is hard, heavy, stable, durable and strong. Used for all purposes requiring great strength and durability.
Putaputaweta	<i>Carpodetus serratus</i>	Bioengineering gully and riparian stabilization, erosion, shelter.	Hard, strong wood, walking sticks.
Rata	<i>Metrosideros robusta</i> ; <i>M. umbellata</i>	Shelter; food source; erosion control; bioengineering gully and riparian stabilisation. Rata honey.	Very heavy, durable and the world's second hardest wood. Attractive reddish-plum coloured wood for turning.
Rewarewa	<i>Knightia excelsa</i>	Bioengineering; effective soil erosion control; gully and riparian stabilization, shelter. Nectar source.	Very strong and attractive feature wood. Internal house mouldings, panelling; wood turning.
Rimu	<i>Dacrydium cupressinum</i>	Bioengineering, tolerates poor soil; erosion control; riparian stabilization. Fruit sought after by birds and wild pigs.	Stable heartwood, high quality exterior joinery; flooring; popular structural timber; fine furniture, panelling; most beautiful turning wood.
Tanekaha	<i>Phyllocladus trichomanoides</i>	Bioengineering, tolerates poor soil; erosion control; riparian stabilization.	New Zealand's strongest and most flexible softwood; durable; easily worked; saws machines and turns well. Koikoi; renewable parts of canoes and houses; joinery; bridge, wharf decking; boat framing; sporting goods. Bark is source of red dye.
Tawa	<i>Beilschmiedia tawa</i>	Erosion and river control plant. Fruit sought after by wild pigs.	Harvestable size at 200 yrs. Strong heartwood, non durable. Most useful special purpose timber. Good finishing properties; attractive furniture, floor timber; Best NZ timber for turning across grain, door knobs.
Tawari	<i>Ixerba brexioides</i>	Erosion control, attractive flowers, honey.	Very hard, dense wood.
Titoki	<i>Alectryon excelsus</i>	River and erosion control plant. Shelter. Highly prized scented oil from seeds.	Attractive light to bright red hard and strong wood with good shock resistance. Not ground-durable. Used where strength and elasticity needed; axe-handles, carpenter tools, agricultural implements, panels, bent ware, furniture, wood turning.
Totara	<i>Podocarpus totara</i>	Stock shelter; erosion control; food source; bioengineering gully and riparian stabilization. Fruit sought after by poultry/birds and wild pigs.	Very durable, easily worked wood, good as a post, not as a beam. Much sought after exterior joinery timber; canoe; house piles, harbour works; fine furniture; turning; fenceposts.
Kotukutuku	<i>Fuchsia excorticata</i>	Bioengineering, rapid gully and riparian stabilization, erosion control. Rapid shelter in moist sites, shade in summer; drying sun in winter. Fruit sought after by poultry/birds and wild pigs.	Attractive soft wood of pale fawn colour with bluish streaks. Turns well when green, then rapidly dries.
Wineberry Makomako	<i>Aristotelia serrata</i>	Rapid attractive shelter, riparian stabilization, erosion control. Fruit sought after by poultry/birds.	

(Pollock, 1986; Bulloch, 1995; Clifton, 1990; Cooper and Cambie, 1991; Forest Research Institute, misc. publ.)

33 Puriri's persistent year-round flowering and fruiting makes it very valuable for sustaining fragile ecological processes in fragmented forest remnants. Highly desirable timber properties and a good growth rate make puriri an excellent prospect for its commercial planting around native forest edges or into shelterwood harvested pine stands (Janssen, 1992).