

# STREET TREE BOOK

An Inspirational Guide to Street Trees in NZ

2019 Edition



**LEAFLAND**

leafland.co.nz

**QUALITY SPECIMEN TREES**

## STREET TREE BENEFITS

Street trees provide social, economic, and environmental benefits, including:

### Safety

Street trees provide a safety zone between traffic and people, and it is said vehicle speeds are often lower in tree-lined streets.

### Eco Friendly

Trees provide the majority of the oxygen we breathe. Their root systems absorb water which helps regulate rainwater run-off, reducing the risk of local flooding. Trees also help to cool off the water which otherwise can become quite warm, damaging river systems as it drains away.

### Shelter

Trees provide shelter from wind and rain and shade in the summer. This will cool down properties, people, and tar-seal on the road, meaning roads will last longer and ultimately less costs involved in the future.

### Increased property value

It is claimed that tree-lined streets increase the value of houses up to \$17,000, especially avenues of established trees. They create a different atmospheric feel season to season as well as the character they bring to a space particularly in more urban locations where placement has been creatively thought out. People are more inclined to gather and spend time in these spaces which is great for the local surrounding businesses.



## PRO-POTS ADVANCED GROWING SYSTEM




Leafland is aware of the need to look more closely at container growing methods used for advanced grade trees in NZ. We understand how important it is that a tree has a good healthy root system which will quickly establish to ensure the tree won't fail.

Our growing method had to be the most practical, sustainable, and cost-effective way to grow advanced grade trees that will also meet the customers expectations and remain price competitive. The search resulted in our development and use of Pro-Pots. These pots produce an air pruned root system, which prevents curling root systems. They are easy to use as no assembly is required. Leafland grows trees in 25L, 35L, 45L, 60L, and 100L Pro-Pots. At dispatch, we remove the trees from the pots and put the root ball into a biodegradable hessian easy-lift bag for planting. These hessian transport bags can be planted into the ground and will decompose within a few months. The pots will be washed and recycled, making this system a far superior and sustainable way to grow advanced grade trees.

Find our informative Pro-Pots video at [leafland.co.nz/pro-pots](https://leafland.co.nz/pro-pots)



A scenic view of a road lined with cherry blossom trees in full bloom. The road is paved and has a dashed yellow line down the center. The trees are pink and white, and the sky is overcast. A large white text overlay 'A-Z' is positioned on the left side of the image.

A - Z

Street Trees  
in NZ



## Acacia melanoxylon - (Blackwood)

Acacia melanoxylon in McGregor Street, Palmerston North (right)



Prized for its beautiful marbled timber. Quick growing hardy shade/shelter tree. Dense round headed tree with pale yellow flowers in winter/early spring. Tolerates high rainfall. (Evergreen 20m)

## Acer buergerianum - (Trident Maple)



Hardier oriental maple. Rounded crown with low spreading branches. Coppery red new leaves, green in summer. Autumn leaves of a vivid red, apricot and yellow. Smaller growing, compact shade tree. (Deciduous 7m)



## Acer negundo 'Kellys Gold' (Ash Leaved Maple )



Species from Western China. Large deeply lobed leaves emerge bronze purple and mature to olive green with prominent veins. Upright spreading habit with smooth green stems which mature silver with age. Glowing yellow and orange autumn leaves. (Deciduous 6m)

## Acer negundo 'Violaceum' (Violet Twig Box Elder)



Striking burgundy tassels adorn bare branches. Young shoots and leaves are purple-maroon. Summer leaves green that turn gold in autumn. A vigorous, round, irregular grower that has smooth bark with a whitish bloom. (Deciduous 6m)



## Acer palmatum - (Japanese Maple)



Grows into a round headed, open airy tree with slender stems. Green leaves are deeply lobed and dissected. They turn brilliant shades of yellow, orange and red in autumn. The perfect medium sized shade tree. Good cultivars are Acer palmatum 'Bloodgood' and Acer palmatum Senkaki. (Deciduous 5m)

## Acer platanoides - (Norway Maple)

Acer platanoides in Christchurch (left) and in Arrowtown (right)



A strong growing tree with a rounded head. Huge palmate deep green leaves turning a vivid gold in autumn. An ornamental shade tree for larger gardens. Tolerates most climates but not dry. (Deciduous 9m)



## Acer platanoides 'Drummondii' (Harlequin Maple)

Acer platanoides 'Drummondii' in Waimate (right)



Has exquisite cream and green spring leaves that turn yellow in autumn. A slow upright grower that requires wind protection. Grown well, it is a breath-taking tree. (Deciduous 5m)

## Acer platanoides 'Nigrum' (Purple Leaf Norway Maple)



During spring the large leaves glow coppery red, turning to purple red in summer and remaining that colour until autumn when they change to a purplish yellow. A slow growing upright tree. Perfect as a smaller feature tree, for lining drives or avenues and as a street tree. (Deciduous 6m)



## Acer platanoides 'Globosum' (Globe Norway Maple)

Acer platanoides 'Globosum' in Ohaupo



A Lollipop tree with red spring leaves that turn green. Beautiful yellow autumn leaves. A dense grower, that forms a globe shape. Excellent courtyard or plaza tree. Awesome for roundabouts. (Deciduous 4m)

## Acer rubrum - (Red Canadian Maple)

Acer rubrum in Rotorua (left)



Large shining dark green leaves turning a rich scarlet red in autumn. Reddish twigs, branchlets and buds. Red spring flowers on naked branches. Large growing tree perfect for streets, parks or large gardens. Use a selected clone such as Acer rubrum 'Brandywine' or Acer rubrum 'Autumn Glory' to ensure consistent tree form and colour. (Deciduous 10m)



## Acer rubrum 'Bowhall' - (Red Maple)



Upright columnar shape that is perfect as an avenue or street tree. Quick growing. Glowing orange red autumn leaves. Acer rubrum 'Columnare' has similar form and colour. (Deciduous 12m)

## Acer rubrum x freemanii 'Jeffersred' (Freeman Maple)



Large green leaves with silvery undersides. Striking red-orange leaves from March. A medium sized vase shaped tree that is wind and drought tolerant. Can be pruned as a narrow wind screen. (Deciduous 12m)



## Aesculus carnea - (Pink Horse Chestnut)



Round headed and wide growing tree with large dark green fan shaped leaves. Giant pink candles in late spring. Inedible glossy brown nuts in autumn. Great as a shade, avenue or paddock tree. The selected form, *Aesculus carnea* 'Briotii', will produce a more consistent avenue. (Deciduous 7m)

## Aesculus hippocastanum (Horse Chestnut)



A tall stately tree with a wide crown. Large deep green fan shaped leaves with giant white candles in late spring. Produces inedible glossy nuts in autumn. Great in large gardens, parks and paddocks. The selected form, *Aesculus hippocastanum* 'Baumanii', is seedless, so does not produce conkers which can be messy on streets. (Deciduous 15m)



## Agathis australis - (Kauri)

Agathis australis in Napier



Slender, pyramidal tree. Although Kauri trees attain a broad size with age they will suit a confined space for up to 80 years before broadening out. Will tolerate moderate frosts heavy clay soils. Juvenile form with brown leaves lasts around 7 years before changing to green. (Native Evergreen 6m)

## Alectryon excelsus - (Titoki, NZ Oak)

Alectryon excelsus in Hastings (left)



An upright grower with a small rounded head. Glossy olive green pinnate leaves. Shiny black seeds emerge from scarlet fruit during summer. Attractive to seed eating birds. Tolerates light frosts. Great shade tree. (Native Evergreen 7m)



## Alnus cordata - (Italian Alder)



Shining heart shaped green leaves. A quick growing upright form. Will grow in moist swampy soils, useful for erosion control. Great as a street or shade tree. (Deciduous 12m)

## Alnus jorullensis (Evergreen Mexican Alder)

Alnus jorullensis in Palmerston North (right)



A very fast growing evergreen. Long green leaves are toothed. Can easily be pruned to any shape. Papery pale grey bark. Excellent as a dense screen. (Evergreen 6m)



## Amelanchier canadensis - (Shad Bush)



Small neat tree with rounded head. Bronze new spring leaves turning stunning red in autumn. Lacy white drooping racemes in spring. (Deciduous 4m)

## Araucaria heterophylla (Norfolk Island Pine)

Araucaria heterophylla in Ashburton (right)



Stately erect tree with a pyramidal form. Ideal hardy coastal tree. Enduring tree for large spaces. Can be kept small in a container. (Evergreen 10m)



## Arbutus unedo (Irish Strawberry Tree)



Large shrub or small tree. Very hardy to adverse conditions including coastal, heat and cold conditions. Small white flowers in spring followed by orange strawberry-like fruit in autumn and winter. Birds love the fruit. (Evergreen 4m)

## Banksia integrifolia - (Coastal Banksia)

Banksia integrifolia in College Street, Palmerston North (right)



Hardy, upright grower when smaller to become open spreading habit. Quick growing and coastal hardy. Large yellow brush flowers from autumn to winter attract tuis and bellbirds. Great for shelter. Can be pruned to any shape and size. (Evergreen 8m)



## Betula nigra - (River Birch)



One of the best trees for planting in wet areas. Becomes a strong pyramidal form with distinctive pinkish orange shaggy bark which flakes and curls. Glossy green leaves are glaucous underneath. They turn bright yellow in autumn. (Deciduous 10m)

## Betula utilis 'Jacquemontii' (Himalayan Birch)

Betula utilis 'Jacquemontii' in Ohaupo (left)



Lovely birch with dazzling white powdery bark from top to toe and maintained into old age. Peeling white bark. Neat erect growth habit. Large tapering dark green leaves turn bright yellow in autumn. (Deciduous 7m)



## Betula 'Whitespire' - (Whitespire Birch)



This is a grafted birch so all trees grow uniform and identical. The most narrow growing of all Birches. Perfect as a street tree, for avenues or where space is limited. Dazzling white bark from ground level which is maintained into old age. Yellow autumn leaves. (Deciduous 6m)

## Callistemon 'Western Glory' (Bottlebrush)



Erect growing bushy shrub or small tree. Pink new shoots mature into slender leathery leaves. Large heads of deep red flowers during late spring into summer. Flowers attract nectar seeking birds. Coastal and drought hardy. Other members of this family that are suitable are Callistemon 'Hot Pink' and Callistemon 'Kings Park Special'. (Evergreen 2.5m)



## Carpinus betulus (European Hornbeam)



Strong pyramidal form. The rich green leaves are heavily ribbed. Yellow/orange autumn leaves then brown through winter. Excellent as a hedge. Very popular for pleaching. (Deciduous 12m)

## Carpinus betulus 'Fastigiata' (Upright Hornbeam)

Carpinus betulus 'Fastigiata' in Ashburton (left)



A medium sized tree of upright pyramidal form, quite narrow while young. Becomes broader upon maturity. Excellent avenue and street tree. Yellow and orange autumn leaves. Leaves are dropped cleanly end of autumn. Very hardy. (Deciduous 8m)



## Celtis australis - (European Nettle)



A straight trunked tree with a smooth grey trunk. Small beautiful green leaves. A popular city street tree with its upright form. Tolerant of drought and winds. (Deciduous 12m)

## Cercis chinensis 'Avondale' (Chinese Redbud)



Dwarf large shrub or small upright growing tree. Large light green heart shaped leaves turn bright yellow in autumn. A profusion of deep cerise pink pea shaped flowers stud the bare branches for an extended period in early spring. Ideal for small spaces. (Deciduous 2.5m)



## Cinnamomum camphora (Camphor Tree)

Cinnamomum camphora in Moerangi Street, Palmerston North



A large growing shade tree with a very picturesque form. Pink new leaves contrast against the paler leaves. Smooth bark. All parts of the tree exude a camphor fragrance. Tolerates drought once established. (Evergreen 9m)

## Cordyline australis - (Cabbage Tree)

Cordyline australis on the Roberts Line roundabout, Palmerston North



Excellent landscape plant, suitable for group and specimen planting as well as containers. Hardy enough to grow in all situations and climates. Green leaves form large tufts. The stunning creamy flowers are borne in large panicles in later spring and perfume the air with their sweet fragrance. Great for roundabouts. (Native Evergreen 6m)

## Cornus "Eddie's White Wonder" (Flowering Dogwood)

Cornus "Eddie's White Wonder" in Rotorua (left)



Small upright growing tree with tiered semi weeping branches. Large flat lime green flowers age to white. Small red fruit in autumn until eaten by birds. Flowers well in warmer regions. Stunning autumn leaves of burnt orange and scarlet. Ideal smaller shade tree. (Deciduous 4m)

## Corylus colurna - (Turkish Hazel)



Erect conical grower with a very symmetrical branching habit. Produces edible nuts. Tolerates hot dry climates. Has corky bark. (Deciduous 10m)



## Crataegus laevigata 'Paul's Scarlet' (Scarlet Hawthorn)



Small upright tree with a compact rounded head. Impressive heads of double bright crimson red flowers smother the tree in late spring. Tolerant of strong winds. Does not set fruit. *Crataegus laevigata* 'Rosea Flora Pleno' is a similar tree, but with a more salmon coloured flower. (Deciduous 5m)

## Dacrycarpus dacrydioides (Kahikatea, White Pine)

*Dacrycarpus dacrydioides* in Hamilton (right)



Handsome narrow growing tree with soft green leaves on semi-weeping branches. Juvenile foliage is a brown colour before turning green. Prefers moist situations next to streams, lakes and ponds. (Native Evergreen 8m)

## Dysoxylum spectabile (Kohekohe, NZ Mahogany)



A handsome upright tree, suited to coastal windy conditions but requiring good soil and shelter from frosts. Spicily scented white flowers in panicles. Large glossy leaves. (Native Evergreen 10m)

## Eucalyptus ficifolia (Red Flowering Gum)

Eucalyptus ficifolia in Kimbolton Road, Feilding (right)



Sturdy single trunked tree with a round headed compact crown. Large thick green leaves. Flowers in mid-summer, variations of glowing red, orange or pink, but occasionally white as trees are produced from seed. Flowers attract nectar seeking birds. Tolerant of high rainfall, droughts and coastal winds. (Evergreen 7m)



## Eucalyptus leucoxylon 'Rosea' (Yellow Gum)

Eucalyptus leucoxylon 'Rosea' in Kimbolton Road, Feilding (right)



One of the hardiest gums tolerating extreme drought and cold conditions. Adult leaves are typical long and greyish. A profusion of deep pink flowers hang from the branches from autumn into winter and is a valuable nectar supply for tuis, bellbirds, and wax-eyes. Tall erect grower. (Evergreen 10m)

## Fagus sylvatica - (English Green Beech)



Tall dense pyramidal tree with lower branches sweeping to ground. New green leaves have a silky sheen. Cinnamon brown autumn leaves which persist through winter and shed prior to the new leaves emerging. Popular tree for hedging and pleaching. (Deciduous 10m)

## **Fagus sylvatica 'Dawyck Green '** **(Upright Green Beech)**



Tall columnar tree which broadens with maturity. Deep green leaves with a bronze tinge and shiny sheen in spring. Deep green through summer. Cinnamon brown autumn leaves which drop cleanly. Ideal where space is limited. *Fagus sylvatica* 'Dawyck Gold' and *Fagus sylvatica* 'Dawyck Purple' are similar trees in form, but with different colour. (Deciduous 8m)

## **Fagus sylvatica 'Purpurea'** **(Purple Beech, Copper Beech)**



Forms a tall dense pyramidal tree with lower branches sweeping to the ground. New spring coppery red leaves have a silky sheen. Summer leaves are deep purple, almost black. Cinnamon brown autumn leaves persist through winter. (Deciduous 10m)



## Fraxinus excelsior 'Green Glow' (European Ash)

Fraxinus excelsior 'Green Glow' in Ashburton (right)



Young leaves are bronze, becoming lush green for the rest of the growing season. Becomes a network of small branches which forms a tight beehive shape. Ideal small specimen tree or for lining avenues. (Deciduous 6m)

## Fraxinus excelsior 'Purple Spire' (Purple Spire Ash, PVR)

Fraxinus excelsior 'Purple Spire' in Nelson (right)



Young leaves are bronze, becoming lush green for the rest of the growing season. Becomes a network of small branches which forms a tight beehive shape. Ideal small specimen tree or for lining avenues. (Deciduous 6m)



## Fraxinus griffithii - (Evergreen Ash)



Fast growing small evergreen tree with shiny pinnate leaves. Rounded head but can be shaped into any size and form. Large panicles of white flowers smother the tree in summer. Prefers hot and well drained conditions. Will defoliate through winter in cold climates. (Evergreen 4m)

## Fraxinus ornus - (Manna Ash)

Fraxinus ornus in Parnell Heights Drive, Palmerston North (right)



Fast growing small evergreen tree with shiny pinnate leaves. Rounded head but can be shaped into any size and form. Large panicles of white flowers smother the tree in summer. Prefers hot and well drained conditions. Will defoliate through winter in cold climates. (Evergreen 4m)



## Fraxinus oxycarpa 'Raywood' (Claret Ash)



Elegant neat pyramidal growth habit, popular to use where space is limited but height is required. Bright green handsome pinnate leaves turn claret plum over an extended period from late summer until well into winter. Excellent as an avenue, driveway, or street tree. (Deciduous 10m)

## Fraxinus pennsylvanica 'Annesbrook' (PVR)



Hardy, fast growing, upright tree which forms a neat oval head with a straight trunk. Excellent lawn, avenue, street or park tree. A seedless variety. Deep green lobed leaves turn clear yellow in autumn. (Deciduous 10m)



## Fraxinus pennsylvanica 'Cimmzam' (Cimmaron Ash Tree)

Fraxinus pennsylvanica 'Cimmzam' in Kimbolton Road, Feilding (right)



A uniformly erect growing tree. Glossy green pinnate leaves. Fiery orange, yellow, burgundy and red autumn leaves which persist well into winter. Tolerant of drought and high winds. Perfect for lining avenues and driveways. (Deciduous 8m)

## Ginkgo biloba - (Maidenhair Tree)



Hardy tree of great beauty. Distinctive leaves are shaped like sections of Maidenhair fern. In autumn the leaves turn bright gold over many weeks before falling to create a carpet of gold. Allow space for this tree to develop. (Deciduous 7m)

## Ginkgo biloba 'Autumn Gold' (Maidenhair Tree)



Selected male clone with a classically neat broadly conical form. A spectacular sight in autumn when the leaves turn bright gold over many weeks before falling to create a carpet of gold. This male clone is non-fruiting. Tolerant of pollution. (Deciduous 7m)

## Ginkgo biloba 'Saratoga' (Maidenhair Tree)



Selected male clone with an upright growth habit. Distinctive long leaves hang from the branches to give a weeping effect. A spectacular sight in autumn. Non-fruiting. Tolerant of pollution. (Deciduous 7m)



## Gleditsia tricanthos inermis 'Skyline' (Honeylocust)



Upright form with a straight trunk and a compact branching structure. Excellent shade or specimen tree where space is limited. Golden autumn leaves in autumn over a long period. Withstands heat, cold and drought. Good street tree. (Deciduous 6m)

## Grevillea robusta - (Silky Oak)



Grows quickly into an upright pyramidal tree with large ferny paler green leaves. Mature trees bear amazing large golden spidery flowers in clusters in spring. Nectar seeking birds are drawn to the flowers. Tolerates coastal winds and dry conditions. (Evergreen 8m)

## Hymenosporum flavum (Australian Frangipani)



Small tree with an erect and graceful open form. Very fast grower. Glossy dark green leaves. Clusters of honey scented yellow tubular flowers are borne from late spring through summer. Tolerant of dry and windy conditions. Great for attracting tuis. Ideal for the smaller garden. (Evergreen 6m)

## Jacaranda mimosifolia (Blue Jacaranda)



This is a tree for warm sunny climates where temperatures don't fall below -4 degrees. Soft ferny leaves cover the spreading branches which radiate from the single trunk. Large mauve blue trumpet like flowers are borne in racemes from early summer. Excellent shade tree. (Semi-evergreen 7m)



## ***Knightsia excelsa* (Rewarewa, Honeysuckle)**

*Knightsia excelsa* in McGregor Street, Palmerston North (left)



Poplar-like tree with its narrow column form. Ideal for areas where height is required in a restricted area. Large long leathery leaves are heavily serrated. Spidery red flowers in early summer attract nectar seeking birds. Tolerates poor soils, frosts and strong winds. (Native Evergreen 7m)

## ***Koelreuteria paniculata* (Golden Rain Tree)**



Small tree with open spreading form clothed in pinnate leaves. Soft pink spring leaves mature green and then yellow in autumn. Panicles of golden yellow flowers are followed by dangling rosy red papery capsules. Grows best in hot summers/cold winters. (Deciduous 5m)

## Kunzea ericoides (Kanuka, White Tea-tree)



Small tree with a compact rounded head and smooth mottled bark. Forms a large bush of weeping stems. Small narrow dark green aromatic soft leaves and sprays of white flowers glisten on the bushes in early summer. Very tough tolerating frosts, drought and poor soils. Excellent for screening or sheltering more tender plants. Attracts bees. (Native Evergreen 4m)

## Lagerstroemia indica 'Saint Emilion' (Crepe Myrtle)

Lagerstroemia in Blenheim (right)



Small tree with a compact rounded head and smooth mottled bark. Lime green spring leaves age green through summer and brilliant red, orange and yellow colours through autumn. Large cone shaped panicles of reddish crimson flowers in autumn. Other similar varieties are Lagerstroemia indica 'Bergerac' and Lagerstroemia indica "De Puard". (Deciduous 3.5m)



## Lagunaria patersonii (Primrose Tree, Norfolk Island Hibiscus)

Lagunaria patersonii in Timaru (right)



Handsome erect and stately pyramidal growing tree. Clothed with thick olive green leaves. A profusion of miniature Hibiscus shaped pink flowers through summer and autumn. Excellent as a dense screen or hedge, clips well. Very tough, enduring coastal winds and drought. (Evergreen 8m)

## Leptospermum nitidum 'Copper Sheen' (Shiny Tea Tree)



Very quick growing large shrub with reddish young stems. Small bronzy purple leaves smother the arching branches. Can be pruned to form a dense colourful shelter or screen, A profusion of single greenish white flowers in summer. Very hardy, tolerant of moist conditions. (Evergreen 4m)

## Liquidambar styraciflua 'Gumball' (American Sweetgum)

Liquidambar styraciflua 'Gumball' outside Leafland  
on Roberts Line, Palmerston North(left)



One of our top-selling trees. Forms a dense rounded ball of maple leaves. Autumn leaves in all the colours that persist into winter. Great for formal planting. Graft height determines ultimate height. (Deciduous 3.5m)

## Liquidambar styraciflua 'Lane Roberts' (American Sweetgum)



A neat pyramidal growth habit with smooth bark. Distinctive rich blackish crimson red autumn leaves. Reliably colours every year regardless of the climatic conditions. Liquidambar styraciflua 'Rotundiloba' is a seedless clone but less wind hardy. (Deciduous 5m)



## Liquidambar styraciflua 'Worplesdon' (American Sweetgum)

Liquidambar styraciflua 'Worplesdon' in Queenstown (right)



Upright pyramidal form with outer branches that gracefully droop. The maple leaves are finely cut and deeply lobed. Striking autumn leaves are pale orange and apricot before turning scarlet and purple. (Deciduous 6m)

## Liriodendron tulipifera - (Tulip Tree)



A magnificent tall pyramidal tree with a broad spreading crown. Beautiful bright green leaves turn a glorious buttery yellow in autumn. Fragrant lime green, banded orange, tulip shaped flowers are borne in summer. Excellent as a large lawn specimen and as a paddock specimen. (Deciduous 10m)

## Liriodendron tulipifera 'Fastigiatum' (Columnar Tulip Tree)



Narrow upright columnar form. Excellent for confined spaces, for avenues, screens, or focal points in formal gardens. Beautiful green summer leaves turn glorious buttery yellow in autumn. (Deciduous 8m)

## Liriodendron tulipifera 'Snowbird' (Variegated Upright Tulip Tree)



Forms a perfect pyramid of up-swept branches. Strikingly variegated large green leaves are heavily bordered with creamy white. Colour is more muted through summer but intensifies through autumn. Excellent for lining avenues and driveways. (Deciduous 10m)



## Magnolia grandiflora 'Blanchard' (Southern Magnolia)



Strong compact columnar form. Large glossy green leaves have a thick under coating or felting of cinnamon brown. Produces large white single flowers through the warmer months. Will grow in most soils. Great avenue or driveway specimen. (Evergreen 7m)

## Magnolia grandiflora 'Little Gem' (Southern Magnolia)



Small compact, narrowly columnar tree. Smaller glossy deep green leaves with some rusty felt underneath. Citrus scented flowers smaller pure white flowers are borne through summer and autumn. Excellent for the smaller garden and as a street tree. Tolerant of poorly drained positions. (Evergreen 5m)



## Magnolia grandiflora 'Main Street' (Southern Magnolia)



Narrow upright columnar growth habit. Very compact form makes this an ideal selection as a street or avenue tree. Handsome large glossy green leaves are heavily rusted with felt underneath. Large creamy lemon scented flowers through summer. Prefers a moist soil. (Evergreen 10m)

## Magnolia 'Heaven Scent' (Gresham Hybrid)



Erect pastel lavender pink tulip shaped blooms, paler towards the tips and with white interiors. A unique colour among Magnolias and strongly fragrant. Upright rounded grower. Mid spring flowering. Flowers from an early age. (Deciduous 4m)



## Magnolia 'Milky Way' - (Jury Hybrid)



Large icy white heavily textured flowers with a soft pink base. Cup shaped deliciously fragrant blooms. Becomes an erect neatly rounded tree. Ideal for the smaller garden. Flowers from an early age. (Deciduous 5m)

## Malus ioensis 'Plena' (Betchel Crabapple)



Small vase shaped tree. In late spring, produces a profusion of large soft pink semi-double flowers. Lovely yellow and orange autumn leaves. (Deciduous 4m)

## Malus 'Red Top' - (Crabapple, PVR)



Compact upright grower. A profusion of semi double dark pink blossom emerges with the bright red new leaves which turn green through summer. Little red crabapples follow and persist until eaten by birds. (Deciduous 5m)

## Malus tschonoskii (Upright Japanese Crabapple)



Beautiful pyramidal grower with silvery white felted spring leaves. Bright green leaves through summer, felted white underneath. Glorious show in autumn with yellow, orange, red and purple leaves. Few fruit. (Deciduous 8m)



## Melia azedarach - (Indian Bead Tree)



Quick growing tree with a stout upright trunk. Open form with wide spreading branches to give light shade. Pinnate leaves appear with the caramel scented panicles of lilac flowers in late spring. Clear yellow autumn leaves. Withstands strong winds and drought. (Deciduous 7m)

## Metasequoia glyptostroboides (Dawn Redwood)

Metasequoia glyptostroboides in Rotorua (right)



A handsome tree through all the seasons with a slender pyramidal to conical form. An upright specimen tree in the landscape. Soft ferny leaves are bright green through summer. Grows best in moisture retentive soil. Metasequoia glyptostroboides 'Spire' is an upright form if space is limited. (Deciduous 12m)

## Metrosideros excelsa 'Maori Princess' (Pohutukawa)

Metrosideros excelsa 'Maori Princess' in Summerhill Drive,  
Palmerston North (right)



Selected for its more upright narrow growth habit. Just as tough as excelsa with scarlet red flowers through December which attracts birds. (Native Evergreen 7m)

## Metrosideros 'Maungapiko' (Southern Rata Cross)



Pohutukawa and Southern rata cross. This narrow growing erect tree is clothed with shiny pointed fresh leaves. A profusion of clear scarlet flowers, which attract birds cover the tree in early January. Excellent tough coastal tree, withstanding a lot more frost than excelsa. (Native Evergreen 5m)



## Metrosideros 'Mistral' (Northern Rata Cross)

Metrosideros 'Mistral' in Cambridge Avenue, Ashhurst (left)



Pohutukawa and Northern rata cross. Smaller denser growing tree finally forms a neat canopy of thick olive green leaves. A profusion of deep rusty red flowers from mid-December attract nectar seeking birds. Excellent tough coastal tree. Superb as a screen. (Native Evergreen 5m)

## Metrosideros robusta - (Northern Rata)



A very bushy tree with small dark olive green leaves. Quite cold hardy and tolerant of moderate coastal exposure. Superb as a screen and very adaptable to pruning into any shape or form. We offer bushes and clear trunked standards. Rusty red flowers are borne in mid-December. (Native Evergreen 5m)

## Michelia doltsopa 'Silver Cloud' (Sweet Michelia)

Michelia doltsopa 'Silver Cloud' in Manson Street, Palmerston North (right)



A selected grafted variety of doltsopa which flowers from its first years. Large creamy white flowers have many petals. Strong growing, neatly formed pyramidal tree. Glossy rich green leaves. Drops leaves when flowering but quickly refoliates. (Evergreen 4.5m)

## Michelia 'Lemon Fragrant' (Thirkettle Hybrid)

Michelia 'Lemon Fragrant' in Christchurch airport (right)



A small neat large bush, pyramidal grower, with attractive fresh green leaves. Produces a mass of large lemon scented creamy white starry flowers over a long period from early spring. Ideal for hedging, amenable for pruning into any shape or form or grow as a small specimen tree. Other options would be Michelia 'Fairy Cream', Michelia 'Fairy White', and Michelia 'Fairy Blush'. (Evergreen 4m)



## *Nyssa sylvatica* (Black Tupelo, Black Gum)



Pyramidal grower with broad sweeping semi weeping branches. Dark green glossy leaves turn vibrant scarlet, orange and yellow in autumn, even in mild climates. Tolerant of wet poor draining soils.  
(Deciduous 7m)

## *Olea europaea* 'El Greco' (Hybrid Olive)

*Olea europaea* in Dannevirke (left)



A smaller growing, dense bushy tree. NZ selection. Ideal for hedging, screening, and training into pillars and balls. Great for containers.  
(Edible Evergreen 3.5m)

## Olearia paniculata 'Kaikoura' - (Akiraho)

Olearia paniculata 'Kaikoura' in Mount Maunganui, Tauranga (right)



Dark green leaves with wavy margins. Excellent for screening or as a hedge. Tolerates hard coastal conditions and cold winters. Must have excellent drainage. Selected from Kaikoura in the South Island. Makes a good coastal street tree. (Native Evergreen 2.5m)

## Pistacia chinensis - (Chinese Pistachio)



Handsome small tree with elegant glossy green pinnate leaves. Upright grower with spreading branches make a perfect small shade tree. Vivid scarlet, crimson and orange leaves in autumn. Tolerant of alkaline soils. (Deciduous 6m)



## Pittosporum crassifolium (Karo, Turpentine Tree)



Forms a large shrub or small erect growing tree. White felted new shoots are covered with a dense layer of silver hair. Mature leaves are dark green and leathery. Purple flowers fragrance the air through mid-summer. Very tough coastal hardy specimen tree, screen or hedge. (Native Evergreen 3m)

## Plagianthus regius - (Ribbonwood)

Plagianthus regius by the Timaru wharf (right)



Forms a graceful small tree of slender and upright habit. Fresh green new spring leaves and lime green blossoms. Tolerates exposed conditions. (Native Evergreen 5m)



## Platanus acerifolia - (London Plane)

Platanus acerifolia in Napier



Grows rapidly to form a large round headed tree. Smooth mottled bark peels off in large flakes. Large palmate leaves. Perfect for large lawns, parks, avenues, and streets. Can be pruned heavily. Able to survive extreme conditions of poor soil, limited moisture, and pollution. (Deciduous 15m)

## Platanus orientalis - (Oriental Plane)



Grows rapidly to form a large round headed tree. Bark peels off in large flakes to give a dappled appearance. Where space permits it forms a shade tree, perfect for large lawns, parks, avenues, streets, etc. Can be pruned heavily. Tolerant of pollution. (Deciduous 9m)



## Platanus orientalis 'Autumn Glory' (Oriental Plane)

Platanus orientalis 'Autumn Glory' in Blenheim (left)



Grows rapidly to form a dense and compact round headed tree. The bark peels off in large flakes to give a dappled appearance. Smaller leaves are deeply lobed. Gold and orange autumn leaves. Forms a handsome shade tree. Tolerant of pollution. (Deciduous 6m)

## Platanus orientalis 'Fitzherbert' (Oriental Plane)

Platanus orientalis 'Fitzherbert' in Fitzherbert Street, Palmerston North (right)



Developed for planting in the Manawatu and is now the feature tree in Fitzherbert Ave, Palmerston North. Wind hardy. Develops into a compact upright pyramidal grower with deeply cut fingered leaves. Disease-resistant. (Deciduous 7m)

## Podocarpus totara - (Green Totara)

Podocarpus totara in Temuka (right)



This tall straight pyramidal tree is covered with olive green to bronze needle like leaves. New leaves are a fresh green. Reddish brown bark peels in long strips. Very tough tree tolerating dry and windy conditions. Easily trimmed as a screen or hedge.  
(Native Evergreen 6m)

## Populus 'Chiba' - (Columnar Poplar)



A narrow upright fastigate form similar to Lombardy Poplar but rust resistant. Excellent for shelter, screening and lining driveways. Drought and wind tolerant once established. Unpalatable to possums and rabbits. Yellow autumn leaves.  
(Deciduous 12m)



## Populus 'Crows Nest' (Lombardy Poplar)



A very tall fast growing tree that remains tight and upright growing. An excellent screen which can be trimmed very narrow. Yellow autumn leaves. (Deciduous 10m)

## Prunus 'Amanogawa' (Milky Way Cherry)



Fragrant clusters of fragrant semi-double pale pink flowers with deeper margins. Flowers late October. Orange and yellow autumn leaves. A tree for narrow spaces where height is required. Also for lining avenues and drive-ways. (Deciduous 5m)



## Prunus campanulata 'Felix Jury' (Taiwan Cherry)



Flowers early September. Profuse display of larger deep rose red single blossom in pendulous clusters. Blossom is full of nectar to the delight of birds. Autumn leaves are a rich blend of red, gold and orange. Forms a small pyramidal upright tree. (Deciduous 5m)

## Prunus campanulata 'Pink Cloud' (Taiwan Cherry)



Delightful small, rounded neat headed tree with spreading branches. Perfect shade tree for a smaller garden. Clusters of soft pink pendant clusters hang from the branches in early August. Blossom is full of nectar to the delight of birds. Coppery green leaves all season. (Deciduous 4m)



## Prunus cerasifera 'Thundercloud' (Flowering Plum)



Ornamental plum hybrid with year round interest. Black stems and branches are revealed through winter. Stems are wreathed in dainty pink blossom in early September. Leaves emerge smoky red and darken to purple-black. Colour persists all season. Upright grower. (Deciduous 4m)

## Prunus sato-zakura 'Kanzan' (Flowering Cherry)



Narrow erect vase shaped grower. Maroon buds open to large fully double purplish pink flowers held in drooping clusters. Bronze leaves emerge with the flowers to contrast nicely. Flowers late October. Red, orange and yellow autumn leaves. Perfect for lining avenues and drive-ways. (Deciduous 6m)

## Prunus 'Shimidsu Sakura' (Flowering Cherry)

Prunus 'Shimidsu Sakura' in the Waikato (right)



One of the loveliest flowering cherries which grows into a small spreading tree with gracefully arching branches to form a flat top tree. Late October flowering. Pink buds open to fully double flowers of palest pink which fade to white, in pendulous clusters. Orange and red autumn leaves. (Deciduous 4m)

## Prunus 'Shirotae' - (Mt Fuji Cherry)



Strong growing, wide spreading, flat top cherry with tiered horizontal branches. Grows as wide as its height. Large fragrant, pure white single and semi-double flowers. Flowers in early October. Serrated green leaves turn yellow and orange in autumn. A superb shade tree. (Deciduous 5m)



## Prunus yedoensis 'Awanui' (Hybrid Yoshino Cherry)

Prunus yedoensis 'Awanui' in the Esplanade in Palmerston North (left)



Erect vase shaped spreading grower. In mid-September becomes smothered in fragrant, blush pink single blossom, from deeper buds. An avenue of this cherry in full flower is an unforgettable sight. Yellow and orange autumn leaves. (Deciduous 6m)

## Pseudopanax crassifolius (Horoeka, Lancewood)



Narrow growing small tree with a tall erect trunk. Juvenile leaves are long and narrow and hang from the main trunk. After many years the foliage changes to a small head of leaves. Focal point where a hardy dramatic tree is required where there is very little space. Suitable for median strips and roundabouts. (Native Evergreen 4m)



## **Pseudopanax ferox (Horoeka, Toothed Lancewood)**



A narrow growing small tree with a tall erect trunk. Juvenile leaves are short and narrow, distinctly toothed and hang from the main trunk. After many years the foliage changes to a small head of leaves. Excellent focal point where a hardy dramatic tree is required where there is very little space. Suitable for median strips and roundabouts. (Native Evergreen 3m)

## **Pyrus calleryana 'Aristocrat' (Ornamental Pear)**



Pyramidal growing tree with an open form and spreading branches that can be trained to grow horizontal. Profusion of white flowers in early spring. Reddish purple new spring leaves mature glossy green and turn red in autumn. Tolerant of poor drainage and pollution. (Deciduous 7m)



## **Pyrus calleryana 'Bradford'** **(Ornamental Pear)**



Pyramidal growing tree with densely packed branches, can be easily trained into standard forms. A profusion of early spring blossom is a stunning feature. Glossy green leaves turn red, orange and maroon in autumn. (Deciduous 7m)

## **Pyrus calleryana 'Candelabra'** **(Ornamental Pear, PVR)**

Pyrus calleryana 'Candelabra' in Nelson (both)



A dense columnar growth habit making it ideal for avenues, streets and smaller spaces. Lustrous dark green leaves turn vibrant shades of red and orange through autumn. Very wind tolerant. Grows in both dry and poor soils plus heavy intermittently wet soils. (Deciduous 6m)

## Quercus ilex - (Holm Oak)



Forms a large tree with a dense wide spreading crown. Small leathery leaves are dark green with grey undersides. Coastal and drought hardy. With its dense form and smaller leaves can clip into a tough hedge or screen. Excellent for training into topiary forms. (Evergreen 10m)

## Quercus palustris (Pin Oak, Swamp Spanish Oak)

Quercus palustris at Tremaine Avenue and Ruahine Street intersection in Palmerston North (right)



A neat pyramidal habit with spreading branches that will weep to the ground. Glossy green deeply cut leaves turn scarlet, yellow and bronze in autumn. Tolerant of wet soils and strong winds. (Deciduous 10m)



## Quercus robur - (English Oak)

Quercus robur at Martinborough Estate (right)



The classic oak, famed for its broad shape, deep fissured bark and characteristic acorns. Lime green leaves in spring mature dark green. The leaves turn yellow in autumn and persist into winter. Ideal for parks, paddocks, lining avenues and as a magnificent specimen tree. (Deciduous 10m)

## Quercus robur 'Fastigiata' (Columnar English Oak)



Neat tight columnar habit, like a Lombardy Poplar. Perfect for restricted spaces where height is required. Dark green leaves turn yellow and copper in autumn, then brown in winter. Plant as a screen, to line avenues and driveways or a focal point. (Deciduous 10m)

## Quercus rubra - (Northern Red Oak)



Large broad headed tree. Red new leaves mature to large deep green leaves. Ruddy red and yellow autumn leaves. Becomes a high-branched, wide spreading tree with a deep rooting system allowing lawn and other plants to be grown underneath. Produces acorns. Not for alkaline soils. (Deciduous 10m)

## Robinia pseudoacacia 'Frisia' (Golden Locust)

Robinia pseudoacacia 'Frisia' in Picton (right)



One of the most brilliantly coloured yellow foliated trees. Forms a neat rounded head on a sturdy trunk. Golden yellow colour is maintained until leaf drop. Tolerant of heat, drought and pollution. Ideal for the smaller garden. (Deciduous 5m)



## Sophora chathamica - (Coastal Kowhai)



Bears a profusion of golden yellow flowers from late winter to spring. Does not go through a juvenile tangle of shoots. Larger leaves are more densely packed on the stems. Very hardy, tolerant of dry and windy positions. (Native Evergreen 6m)

## Sophora godleyi - (Rangitikei Kowhai)



A distinctive grower with an upright form and pendulous side branches. From a distance the leaves appear greyish. Becomes smothered with golden flowers in September. (Native Evergreen 5m)

## Sophora microphylla (South Island Kowhai)



Has a tangled mass of branches when young but develops into a medium sized tree with gracefully arching and spreading branches and small leaves. Golden yellow spring flowers attract nectar seeking birds. Grow in sun or semi-shade, not too dry. Looks lovely sited overlooking water. (Native Evergreen 5m)

## Sophora tetraptera (Large-leaved Kowhai)

Sophora tetraptera in Marne Street, Palmerston North (right)



Larger leaves and larger flowers than microphylla. A slender small tree with an airy graceful form. Golden yellow spring flowers attract nectar seeking birds. Grow in sun or semi-shade, not too dry. Looks lovely sited overlooking water. (Native Evergreen 4m)



## Sorbus aria 'Lutescens' (Silver Whitebeam)



Compact small upright tree with a pyramidal form. Bold rounded leaves are covered with a dense layer of white hairs to give the leaves a silvery look. Grey green leaves through summer, turning yellow in autumn. (Deciduous 4m)

## Syagrus romanzoffiana - (Queen Palm)

Syagrus romanzoffiana at Schnell Drive and Boston Parade roundabout in Palmerston North (left)



A tall elegant quick growing palm for temperate areas. The trunk remains narrow to give wonderful height with a canopy of deep green upright and spreading fronds. Soft leaves. Tolerant of strong winds and some coastal. (Evergreen 15m)

## Tilia cordata - (Small Leaved Lime)

Tilia cordata in South Street, Palmerston North (right)



Green through summer, yellow in autumn. Forms a dense pyramidal tree with masses of pale yellow sweetly scented flowers in summer that attract bees. The pliable branches can be trained along wires for pleaching. Also can be grown as a hedge. (Deciduous 8m)

## Tilia platyphyllos - (Broad Leaf Lime)



Forms a large umbrella shaped tree with broad green heart shaped leaves. Produces a mass of pale yellow flowers in summer which bees are attracted to. Perfect park tree, for large avenues and driveways. Can be used for pleaching. (Deciduous 8m)



## Trachycarpus fortunei (Chinese Windmill Palm)

Trachycarpus fortunei in Blenheim (right)



The most cold hardy of the palms able to survive in the colder regions of NZ. A thick layer of protective hair on the trunk is a distinctive characteristic of this palm. Big light green fan leaves form a compact canopy. Coastal and wind hardy. (Evergreen 10m)

## Ulmus hollandica 'Groeneveld' (Dutch Hybrid Elm)



Selected to be resistant to Dutch Elm disease. Densely upswept branches form a narrow pyramid. Leaves in mid-November. Yellow autumn leaves. Hardy to strong wind and drought but intolerant of wet feet. Perfect for lining large avenues. (Deciduous 20m)

## Ulmus hollandica 'Lobel' (Upright Elm)



Vigorous hybrid Elm with striking upright growth habit. Bronze new leaves mature deep green, then yellow in autumn. Resistant to Dutch Elm disease. Coastal and drought hardy. Perfect hardy screen tree for lining large avenues. (Deciduous 15m)

## Ulmus parvifolia - (Chinese Elm)

Ulmus parvifolia in Church Street, Palmerston North (right)



Forms a rounded head with graceful pendulous branches, slender trunk and peeling bark. Smaller dark green leaves turn orange and yellow in autumn. Tolerant of moderate coastal winds and drought. Perfect shade tree for the smaller garden. First elm to leaf. (Deciduous 6m)



## Ulmus parvifolia 'Frontier' (Hybrid Chinese Elm)

Ulmus parvifolia 'Frontier' in Richmond (right)



Forms a vase shaped tree with a small rounded head. Small dark green leaves turn glowing burgundy in autumn and persist well into winter. Tolerant of moderate coastal winds and drought. Perfect shade trees for the smaller garden. Does not produce seeds. (Deciduous 6m)

## Ulmus procera 'Louis Van Houtte' (Golden Elm)

Ulmus procera 'Louis Van Houtte' in Churchill Avenue, Palmerston North (right)



Vase shaped tree with a large spreading canopy. Large soft golden leaves maintain their show until autumn when they become brighter before falling. Hardest golden-foliaged trees to winds. Profusion of double lime green blossom on bare spring branches. Excellent specimen tree. (Deciduous 6m)

## Vitex lucens - (Puriri)

Vitex lucens in Rugby Street, Palmerston North (right)



Young trees are quite shrubby and upright, forming a large canopy after many decades. Rich green leaves have wavy edges. Pinkish red flowers are produced through most of the year and attract tuis while wood pigeons favour the red berries. Tolerant of wind and coastal exposure but only light frosts. (Native Evergreen 8m)

## Zelkova serrata - (Japanese Zelkova)

Zelkova serrata in Fairs Road, Palmerston North (right)



Forms a vase shaped tree with a spreading crown of branches which weep at their tips. Narrow pale green leaves turn yellow orange and scarlet in autumn. Tolerant of drought, once established and withstands strong winds. (Deciduous 8m)



# Zelkova serrata 'Kiwi Sunset' (Japanese Zelkova)

Zelkova serrata 'Kiwi Sunset' in Timona Park, Feilding (left)

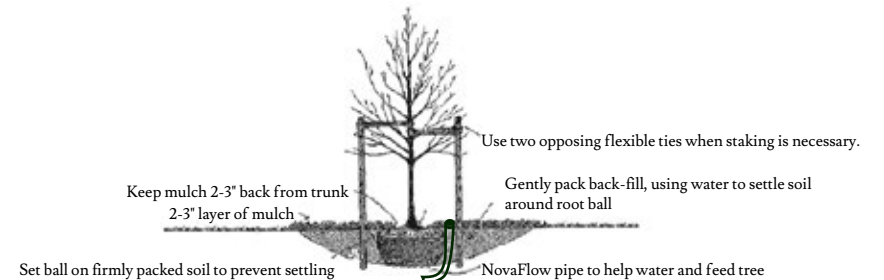
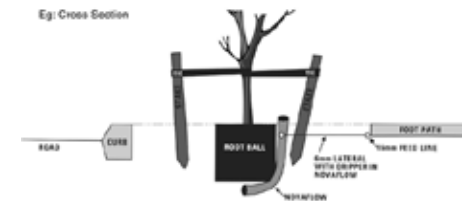


Showy large shrub or small tree with handsome golden leaves. New leaves emerge wine red to bronze. Pruning to keep this plant a bush will encourage the long branches to weep in a striking effect. (Deciduous 4m)

# STREET TREE WATERING SYSTEM

Leafland recommend an in-ground automatic watering system for street trees. Using this system, trees could be planted any time of the year, and would save time watering while protecting the planting investment.

An inconspicuous and cheap system could easily water up to 100 trees at once, activated by a simple battery operated valve (which has a non-return valve) that feeds a 16mm pipe. The pipe would be laid under the grass verge beside the footpath prior to soil being brought in. As trees are planted, a shallow trench is dug to the tree watering feed pipe and a 6mm lateral tube installed with a dripper installed on the end by the tree. This should last for at least 10 years. Our recommended system will save time and money while improving the consistency of trees in the street.



# STREET TREE STANDARD

At Leafland, we believe that a quality specimen tree is nurtured from root to tip. These specifications and guidelines are for the supply of healthy, vigorous trees that are disease, damage, and defect free. This standard can be used for inspection of trees supplied for landscaping and street plantings.

**1. Identification:** Trees should be clearly labelled until planted.

**2. Health and vigor:** The size, colour, and appearance of leaves should be typical for the time of year and stage of growth of the species/cultivar.

**3. Pests and disease:** Trees shall be free of pests and disease.

**4. Injury:** Trees should show no evidence of foliage damage (e.g. distortion from herbicides or frost), trunk damage, or branch damage.

**5. Self-supporting:** Trees should be able to support themselves in an upright position with a full head of foliage while standing in the container and also after planting, without the use of canes or stakes. The trunk should be rigid for the lower quarter to half of its height, becoming gradually more flexible through the upper half. The trunk should be able to bend by approximately 30° side to side without the container lifting off the ground when the tree is bent at 80% of the tree's height, and shall return to an upright position after the test has been completed.

**6. Trunk:** The trunk should be strong, upright and reasonably straight, firm in the container. It should be free from wounds and blemishes. It must have a taper which is appropriate to the species and evident from root to crown. An un-tapered, parallel trunk may be accepted where it is a species characteristic e.g. standard cherries, Pseudopanax.

**7. Pruning:** Pruning practices shall benefit the tree's development. Pruning shall be undertaken to internationally-recognised arboricultural standards. The diameter of any wound shall not exceed 50% of the diameter of the trunk immediately above the point of pruning.

**8. Central leader:** Trees should have a relatively straight, well formed, clearly-defined, central leader for the height of the tree, with the apical bud intact. Trunks shall be free of co-dominant stems. This does not apply to multi-stem, weeping, or other tree forms where a straight leader is not a natural characteristic.

**9. Form and symmetry:** Form and habit should be true to species, with no crossing or rubbing branches, and a well-balanced appearance. The difference in crown distribution on opposite sides in any aspect should not exceed 20%. Branches should be distributed radially around (species dependent) and vertically along the trunk, not clustered in several areas, and should be no greater than 50% of the diameter of the trunk, measured 20mm above the branch bark ridge.



**10. Included bark:** Trees should be free of included bark. Included bark is where the branch bark ridge fails to expand outwards and, as the trunk and branch continue growing, it becomes more enclosed. Branch bark ridges that are included (concave) are considerably weaker than those with a prominent ridge line (convex). Some included bark will be tolerated in species where it naturally occurs e.g. kowhai, Tilia, Plagianthus, Ulmus.

**11. Graft unions:** Graft unions should be sound and the scion and rootstock compatible. The union of the scion and rootstock should be well knitted and show no obvious signs of incompatibility for the entire circumference of the graft. Graft unions are often different diameters and this does not indicate incompatibility.

**12. Roots:** Roots should be free of decay and damage. The tree should have a well-formed, diverse, and balanced root system with no kinked, circling, or girdling roots. To allow roots to have an even 360° spread, the centre of the trunk should be approximately central in the container. Roots should grow in a generally outwards and downwards direction. Shaving, pruning, or peeling off the shell of roots on the periphery and bottom of the root ball and teasing the roots out cuts away most defects, but if this is not the case, roots that are distorted as a result of inappropriate growing practices should not be accepted. Water management is critical after root pruning to avoid severe wilting and stress.

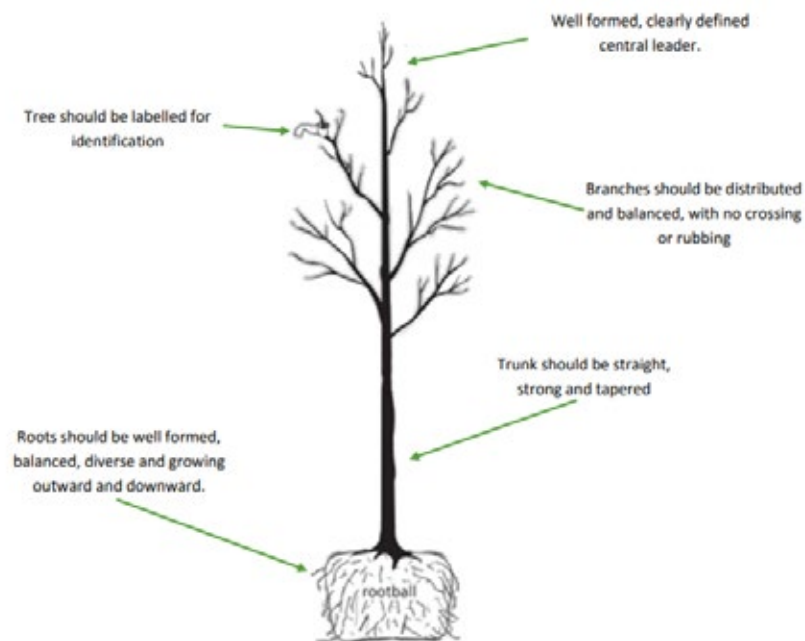
**13. Root-ball occupancy:** The root system should fully occupy, and be well established, in the container. Once the container is removed, 90% of the soil volume should remain intact. The outer edge of the root-ball should be free of woody circling roots and the base free of matted roots. The trunk should not be loose in the container.

**14. Height of root collar:** The root collar should be within the top 1 - 2 inches of soil, just below the surface of the root ball, with no large roots crossing over the main roots.

**15. Maintenance:** Container trees should be weed free and moist.

**16. Supply and collection:** Trees and plants should be handled with care at all times, lifted by the container and placed on the ground or into vehicles. Trees and plants should be thoroughly watered before they are transported from the nursery.

**17. Transportation and storage:** All tree and plant material should be carefully packed and protected during transport to prevent damage. Foliage should be protected from desiccation during transportation. Plant roots should be protected at all times from drying out. Plants and trees should be planted as soon as possible, but until then should be stored in shade, well protected, sheltered and well-watered.



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