



Berrigan Shire Council Preferred Tree Species List



1.0 Introduction

In accordance with Council's Tree Management Policy, preferred species is defined as the trees that Council would select for planting after considering various factors including environmental, proximity to infrastructure, and ongoing maintenance.

The following procedure outlines how Council assesses trees and their proposed locations to determine the most appropriate species. The Preferred Species List lists possible trees according to their size and includes tree characteristics to assist in determining site suitability.

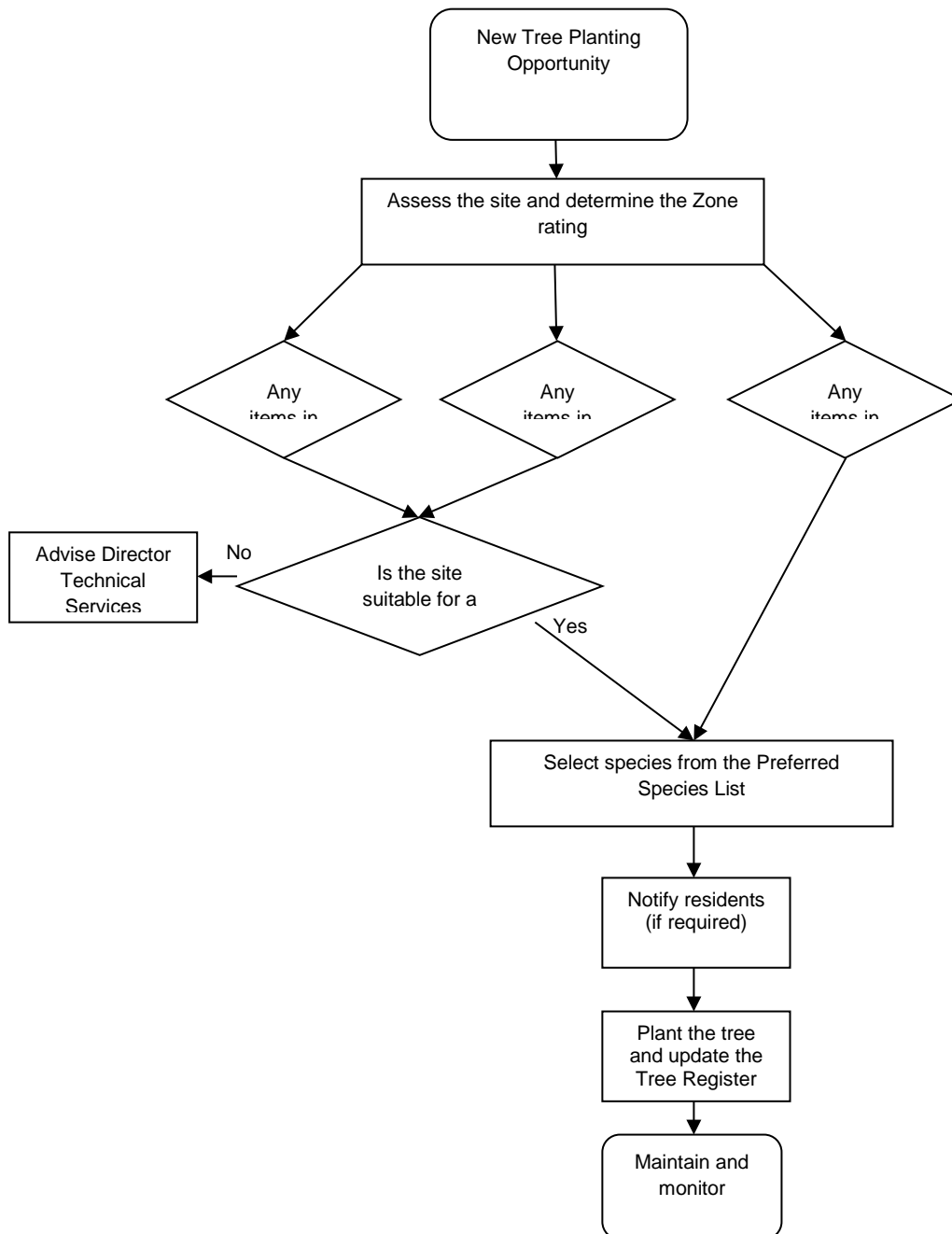
2.0 Zone Areas

When assessing the site and determining the type of tree to plant, consideration must be given to the following risk zones:






Site Characteristic	Zone A <i>Most constraints (High to Very High Risk)</i>	Zone B <i>Moderate constraints (Medium Risk)</i>	Zone C <i>Fewest constraints (Low Risk)</i>
Electrical and telecommunications	<ul style="list-style-type: none"> • Uninsulated low and high voltage wires; • Bushfire prone area 	<ul style="list-style-type: none"> • Bundled cables; • Insulated cables 	<ul style="list-style-type: none"> • No powerlines
Below ground services – typical layouts	<ul style="list-style-type: none"> • Fibre optic cables; • High voltage power 	<ul style="list-style-type: none"> • Bundled cables; • Insulated cables; • Water conduits; • Sewer conduits 	<ul style="list-style-type: none"> • No powerlines; • No conduits
Slope	<ul style="list-style-type: none"> • Steep slope 	<ul style="list-style-type: none"> • Moderate slope 	<ul style="list-style-type: none"> • Generally flat ground
Paved areas	<ul style="list-style-type: none"> • Paved area; • Sealed surface • Brick pavers 	<ul style="list-style-type: none"> • Partially paved areas; • Non reinforced concrete 	<ul style="list-style-type: none"> • Grassy area
Verge width	<ul style="list-style-type: none"> • Less than 3.0m 	<ul style="list-style-type: none"> • From 3 to 4m 	<ul style="list-style-type: none"> • 4m or wider
Building set back	<ul style="list-style-type: none"> • None 	<ul style="list-style-type: none"> • Less than 6m 	<ul style="list-style-type: none"> • 6m or greater
Street lighting	<ul style="list-style-type: none"> • Over pedestrian crossings; • Traffic intersections 	<ul style="list-style-type: none"> • Street lighting other than crossings and intersections 	<ul style="list-style-type: none"> • No street lighting
Signage (i.e. traffic signs)	<ul style="list-style-type: none"> • Arterial roads; • High density residential streets 	<ul style="list-style-type: none"> • Medium density residential streets; • Arterial roads in rural zones 	<ul style="list-style-type: none"> • Low density rural/residential streets
Traffic	<ul style="list-style-type: none"> • Large volumes of heavy vehicles 	<ul style="list-style-type: none"> • Heavy vehicles in moderate volumes 	<ul style="list-style-type: none"> • Residential traffic in low volumes; • Cul-de-sacs
Soils	<ul style="list-style-type: none"> • Severely compacted; • Shallow; • Reactive clay; • Acid sulphate; • Poor drainage 	<ul style="list-style-type: none"> • Moderately compacted; • Urban fill; • Moderate drainage 	<ul style="list-style-type: none"> • Undisturbed soil; • Deep profile; • Medium texture; • Good natural drainage
Water table	<ul style="list-style-type: none"> • High 	<ul style="list-style-type: none"> • Moderate depth 	<ul style="list-style-type: none"> • Deep water table






Identify the zone and the constraints that exist at the identified site, and then select a tree from the Preferred Species List, that is suitable to that Zone, climatic conditions, wildlife habitat, landscaping principles, and aesthetic value. For example if you have identified an area for tree planting where fibre optic cables are present, you would not be planting trees that have been identified in the Preferred Species List that have extensive root systems.

2.1 New Tree Assessment Flow Diagram











3.0 Preferred Species List





SMALL TREES – LESS THAN 10M											
Image	Botanical Name	Common Name	Deciduous/ Evergreen	Site Suitability							
				Zone (A,B,C)	Nature Strip			Under Powerlines	Underground Services	Drought Tolerant	Frost Tolerant
					Suitability	Ultimate Height	Ultimate Width				
	<i>Eucalyptus eximia</i> "Nana"	Dwarf Yellow Bloodwood	E		Yes	8m	6m	Yes	No - >6m	Moderate	Moderate
		Notes: Spring flowering. Tolerates a wide range of soils.									
	<i>Lagerstromia indica</i>	Crepe Myrtle	D		Yes	6 - 8m	5 – 6m	Yes	Yes but >4.0m	High	High
		Notes: Tree can adapt to a range of soils and prefers full sun.									
	<i>Pistacia chinensis</i>	Chinese Pistachio	D		Yes	10m	10m	Yes	Yes but >3.5m	High	High
		Notes: Adapts to most soil textures.									
	<i>Acacia acinacea</i>	Gold Dust Wattle	E		Yes	2m	1.5m	Yes	Yes	High	High
		Notes: Fast growing flowering shrub and adaptable to most soil types but sensitive to waterlogging.									
	<i>Eriostemum myoporoides</i>	Long Leaf Waxflower	E		Yes	2m	2m	Yes	Yes	High	High
		Notes: Hardy shrub with long flowering season – tolerant of cold and drought. Dislikes root disturbance.									




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				Zone (A,B,C)	Nature Strip			Under Powerlines	Underground Services	Drought Tolerant	Frost Tolerant
					Suitability	Ultimate Height	Ultimate Width				
	<i>Melaleuca incana</i>	Grey Honey Wattle	E		Yes	3m	2m	Yes	Yes	High	High
	Notes: Small weeping type shrub with bottlebrush type flowers. Tolerant of drought and prefers well drained soils and sunny positions.										
	<i>Callistemon citrinus</i>	Crimson bottlebrush	E		Yes	3m	2m	Yes	Yes but >2.0m	Moderate	Moderate
	Notes: Very hardy plants requiring minimal maintenance with bright red flowers										
	<i>Myoporum montanum</i>	Water Bush (or sometimes Western Boobialla)	E		Yes but depends on width	3m	8m	Yes	>4.0m	High	High
	Notes: Species vary in size and are quite spreading										
	<i>Eremophila maculata</i>	Spotted Emu Bush	E		Yes	2m	2m	Yes	Yes	Low	Low
	Notes: Tolerant of periodic flooding and saline environments										
	<i>Senna artemisioides</i>	Silver Cassia	E		Yes	3m	3m	Yes	Yes	High	High
	Notes: Fast-growing, useful low level cover in windbreaks. Important understory component for biodiversity. Bright yellow flowers.										





Preferred Tree Species List





MEDIUM TREES – 10 – 20 METRES IN HEIGHT											
Image	Botanical Name	Common Name	Deciduous/ Evergreen	Site Suitability							
				Zone (A,B,C)	Nature Strip			Under Powerlines	Underground Services	Drought Tolerant	Frost Tolerant
					Suitability	Ultimate Height	Ultimate Width				
	<i>Eucalyptus eximia</i>	Yellow Bloodwood	E		Yes	10 - 12m	4 – 6m	No	No	High	Low – particularly when young
	Notes: Spring flowering gum. Fast growing. Able to succeed on poor, gravelly or sandy soils.										
	<i>Hymenosporum flavum</i>	Native Frangipani	E		Yes	6 – 10m	4 – 6m	No	Yes but >4.0m	Moderate	Moderate
	Notes: Adaptable species tolerating a range of soil conditions										
	<i>Jacaranda mimosaefolia</i>	Jacaranda	D		Yes	15m	10m	No	No – extensive root system >6.0m	Moderate	Low
	Notes: Prefers rich well drained soils. Needs protection from frost when young. Suitable for parks not streetscapes.										
	<i>Nyssa sylvatica</i>	Tupelo	D		Not suitable near footpaths	11m	6m	Yes	No - >6m	Low	Moderate
	Notes: Slow growing tree with a high tolerance of wet soils and flooding.										
	<i>Pyrus spp</i>	Ornamental Pear (varieties)	D		Yes	10m	10m	Yes – but need to assess all varieties	Yes but >6.0m	Moderate	High
	Notes: Moderate tolerance of waterlogged sites. Hardy plant.										





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				Zone (A,B,C)	Nature Strip			Under Powerlines	Underground Services	Drought Tolerant	Frost Tolerant
					Suitability	Ultimate Height	Ultimate Width				
	<i>Ulmus parvifolia</i>	Chinese Elm	D		Yes	10m	11m	No	Yes but >6.0m	Moderate	High
Notes: Adaptable tree capable of growing well in a wide variety of sites. Performs best in well drained soils, but will tolerate compacted conditions.											
	<i>Gleditsia triacanthos</i>	Honey locust	D		Yes	10 - 15m	8 – 10m	Yes	No > 10m	Moderate	High
Notes: Hardy, very adaptable and easy to grow. Tolerant of a wide range of soil conditions											
	<i>Acer x freemanii</i>	Jeffersred' Autumn Blaze Maple	D		Yes	13	10	No	No	Moderate	Low
Notes: Well structured, adaptable tree. Suitable to car parks, amenity areas around buildings, street and park plantings.											





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					Suitability	Ultimate Height	Ultimate Width				
	<i>Melaleuca lanceolata</i>	Moonah	E		Yes	7m	5m	Yes	No	Moderate	Moderate
	Notes: Good for use in gardens and parks. Can be used as a windbreak or for shade. Low maintenance and fast growing										
	<i>Geijera parviflora</i>	Wilga	E		Yes	9m	8m	Yes	No	High	Moderate
	Notes: Very good shade and shelter tree but very slow growing										
	<i>Acmena smithii</i>	Lilly Pilly	E		Yes but need to keep in mind that this tree bears fruit	15m	5m	No	No >20m	Low	High
	Notes: Suitable for streetscapes – fruit attracts birds and other wildlife. Tree can also be pruned into a hedge.										
	<i>Pittosporum phylliraeoides</i>	Butterbush	E		No	6m	2 – 4m	Yes	>6.0m	Moderate	High
	Notes: Slow growing but long living suitable for parks and gardens										

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					Nature Strip			Under Powerlines	Underground Services	Drought Tolerant	Frost Tolerant
					Suitability	Ultimate Height	Ultimate Width				
	<i>Corimbia ficifolia</i>	Red-flowering gum	E		Yes	10m	5m	Yes	No	Moderate	Low
Notes: Hardy and fast growing and rarely requires pruning – does not like waterlogged sites.											
	<i>Fraxinus oxycarpa</i>	Desert Ash	D		Yes	15m	12m	No	No >20m	High	High
Notes: Fast growing tree which has invasive potential for native sites.											
	<i>Acacia iteaphylla</i>	Willow-leaved wattle or Flinders Range wattle	E		Yes	5m	5m	Yes	No	High	Moderate
Notes: Once established this tree has a low water requirement. Early pruning will encourage bushiness in later stages.											

LARGE TREES – GREATER THAN 20 METRES											
Image	Botanical Name	Common Name	Deciduous/ Evergreen	Zone (A,B,C)	Site Suitability						
					Nature Strip			Under Powerlines	Underground Services	Drought Tolerant	Frost Tolerant
					Suitability	Ultimate Height	Ultimate Width				
	<i>Callitris glauca</i>	White Cypress Pine	E		Not for pedestrian areas – seed cones	20 – 30m	5 – 6m	No	Yes but >3.5m – has the potential for an invasive root system	High	High
Notes: Prefers well drained sandy soils and has a low salt tolerance											
	<i>Eucalyptus albens</i>	White Box	E		No	18 – 25m	12 – 15m	No	No - >20m	Moderate	Moderate
Notes: Will grow in a range of soils but uses a large amount of ground water. A very useful tree for erosion control with large spreading roots.											
	<i>Eucalyptus citriodora</i>	Lemon scented gum	E		No	15 -30m	10-25m	No	No	Moderate	Moderate
Notes: Must be pruned in early stages to remove wayward limbs and to promote vertical growth to avoid limb failure.											
	<i>Eucalyptus leucoxylon ssp. Pruinosa</i>	Yellow Gum	E		No	15-25m	5-10m	No	No >6m	High	High
Notes: This tree has many different forms and varieties – moderately fast growing and excellent shade, shelter and wind erosion control.											

LARGE TREES – GREATER THAN 20 METRES											
Image	Botanical Name	Common Name	Deciduous/ Evergreen	Zone (A,B,C)	Site Suitability						
					Nature Strip			Under Powerlines	Underground Services	Drought Tolerant	Frost Tolerant
					Suitability	Ultimate Height	Ultimate Width				
	<i>Eucalyptus maculata</i>	Spotted gum	E		No	35m	10m	No	No	Moderate	Low
Notes: Fast growth but does require some formative pruning to address limb failure in advanced trees.											
	<i>Eucalyptus melliodora</i>	Yellow Box	E		No	20 – 30m	8 – 10m	No	No	High	High
Notes: Fast growing tree not suitable to shady areas or small compact areas. Does not tolerate water-logging.											
	<i>Eucalyptus microcarpa</i>	Grey Box	E		No	25m	8 – 10m	No	No	High	High
Notes: Suitable for park areas – it is a good shade tree and is useful as an upper canopy tree in windbreak plantings.											
	<i>Eucalyptus sideroxylon</i>	Mugga Ironbark	E		Yes	10 – 25m	Up to 15m	No	No	High	Moderate
Notes: Black barked tree with white, pink or red flowers – good ornamental street tree.											

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					Suitability	Ultimate Height	Ultimate Width				
	<i>Grevillea robusta</i>	Silky Oak	E		No	18 – 35m	5 – 14m	No	No >20m	High	Moderate
	Notes: Fast growing tree with golden orange bottlebrush flowers										
	<i>Acacia salicina</i>	Willow wattle	E		Yes	5 – 12m	10m	Yes	No - <4.0m	Moderate	Moderate
	Notes: Fast growing tree suitable for erosion control.										
	<i>Acacia pendula</i>	Weeping Myall or Boree	E		Yes	6 – 12m	4 – 6m	No	No - <4.0m	High	High
	Notes: Hardy tree which can tolerate drought and occasional flooding. Slow to moderate growth rate.										
	<i>Melaleuca stypheliodes</i>	Prickly-leaved Paperbark	E		Yes	8 – 10m	6 – 8m	No	No - <4.0m	Moderate	Moderate
	Notes: Hardy native tree with prickly foliage and profuse flowers during spring/summer										

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					Suitability	Ultimate Height	Ultimate Width				
	<i>Melaleuca armilaris</i>	Bracelet honey myrtle	E		Yes	8m	7m	Yes	No - <3.5m	High	Low
	Notes: Fast growing and adaptable to most soils. Pruning required to keep it healthy.										
	<i>Casuarina cunninghamiana</i>	River She-Oak	E		Yes	15 – 35m	6m	No	No	High	Low
	Notes: Slow growing tree. Use as a windbreak.										
	<i>Metrosideros excelsa</i>	Pohutakawa (New Zealand Christmas Tree)	E		Yes	12 – 25m	9 – 12m	No	No - > 6m	Moderate	Low
	Notes: Can survive in a range of soil types with unusual root system. Has been known to have invasive roots.										
	<i>Platanus orientalis 'Digitata'</i>	Cut Leaf Plane	D		No – has prickly fruit and root systems can lift and damage footpaths and kerbing	25 – 30m	20m	No	No >10m	Moderate	High
	Notes: Will tolerate exposed sites. Not prone to insects that cause obvious damage to foliage. Seen to have good tolerance of pruning and can handle root disturbance.										