# 2.3 Code for Landscaping Design

#### **PURPOSE**

The purpose of this code is to ensure:

- landscaping of high quality is undertaken on development sites to retain the natural and subtropical character of the Shire and surrounds; and
- the ongoing manitenance of landscaping following establishment.

# NOTES

Landscape Plan, for the purpose of this Code, means a plan prepared by an appropriately qualified person, which outlines the proposed landscaping associated with a development, and demonstrates its satisfaction of the performance criteria of this Code. The Landscape Plan must at least contain;

- background information being scale, north point, legend, context of development (adjoining roads and land uses), photographs of site;
- existing conditions being soil types and moisture conditions, existing trees, watercourses, services and other emcumbrances;
- compliance with the landscaping requirements of this Planning Scheme, including the boundaries and area of the landscape and recreation area;
- extent of works being any vegetation removal, soft and hard surface materials, structures and other details;
- levels being spot levels and/or contours;
- planting plan being locations of proposed plantings, numbers and density of plants and dimensions of planting beds;
- planting schedule being botanic and common names, numbers, planting sizes and tree canopy spread; and
- details of the person who produced the plan.

#### (1) Element: General Landscaping

#### PURPOSE

To ensure that landscaping of a high quality is undertaken for all relevant development.

PERFORMANCE CRITERIA	ACCEPTABLE MEASURES
<ul> <li>P1 Landscaping must:</li> <li>promote and guide the character of the Shire as a subtropical environment in which built form is successfully integrated with the natural environment;</li> <li>recognise the importance of landscape to the continued economic prosperity of the shire, and the maintenance of pleasant visual amenity and microclimatic conditions;</li> </ul>	A1 For assessable development, landscaping shall be in accordance with an approved Landscape Plan which demonstrates the proposals satisfaction of the performance criteria.



PERFORMANCE CRITERIA	ACCEPTABLE MEASURES
<ul> <li>P1 continued</li> <li>be sensitive to site attributes, such as streetscape character, natural landform, existing vegetation, solar access (summer shade and winter sun), prevailing breezes (both cooling summer breezes and cold winter winds), views, privacy, security, land capability, availability of water, and drainage;</li> <li>be designed to incorporate and highlight attractive natural features such as creeks, and other watercourses, areas of remnant native vegetation, healthy mature existing trees, rocky outcrops and the like;</li> <li>respect natural landform by minimising major earth cuts, fill and mounding;</li> <li>be an appropriate scale and type relative to the size and nature of the development and its surroundings;</li> <li>not affect the structure of any proposed building;</li> <li>minimises risk of damage to overhead and underground power lines and other services; and</li> <li>not adversely affect the stormwater overland flow path.</li> </ul>	
P2 Landscape siting and design must assist microclimate management to conserve energy.	<ul> <li>A2.1 For assessable development, trees and vegetation are selected and located to provide as much shade as possible in summer, both on-site and on-street, without shading solar collectors on the roof during the middle 6 hours of the day, and without shading north facing windows in the winter.</li> <li>AND</li> <li>A2.2 For all development, fences are of open construction with a minimum of 15% breeze penetration when more solid construction is not needed to assist in noise mitigation.</li> </ul>
P3 Public and semi-public spaces must provide a reasonable level of shade to increase pedestrian comfort.	<b>A3.1</b> Solar protection at public or semi-public facilities is provided to meet the essential quantity of shade described in Section 2 of the "Creating Shade at Public Facilities" guidelines produced by the Australian Institute of Environmental Health, Queensland Division.
<ul> <li>P4 Planting must:</li> <li>predominantly use plant species which are locally native to the Shire; and</li> </ul>	A4.1 At least 70% of new plantings are locally native species. (Suitable species are listed in the Schedule to this code) AND



Maroochy Plan 2000

PERFORMANCE CRITERIA	ACCEPTABLE MEASURES			
<ul> <li>P4 continued</li> <li>use palms in a manner which is consistent with their natural character and occurance in the Shire; and</li> <li>not use species which have potential to become environmental weeds; and</li> <li>not use species which have the potential to be harmful when used in an inappropriate setting; and</li> <li>be of a suitable size and density.</li> </ul>	<ul> <li>A4.2 Palms are used in a manner consistent with the Schedule to this code.</li> <li>AND</li> <li>A4.3 Planting does not include environmental weeds as listed in the Schedule to this code.</li> <li>AND</li> <li>A4.4 Planting does not include poisonous or allergenic species as listed in the Schedule to this code where there is high pedestrian usage, in schools, kindergartens or shopping precints.</li> <li>AND</li> <li>A4.5 Planting sizes are at least as follows         Street and features trees</li></ul>			
		As street trees	ly the following dens	Other wise
	Trees	every 7 to 8 metres	For buffer planting at 2 metre centres	at 5 metre centres
	Large shrubs	NA	at 1 metre centres	at 2 metre centres
	Groundcovers	NA	at 0.5-1 metres centres	at 0.5-1 metres centres

# (2) Element: Retention of Vegetation

## PURPOSE

To ensure that landscaping retains any vegetation of environmental, aesthetic and cultural significance through integration as part of a landscape design.

PERFORMANCE CRITERIA	ACCEPTABLE MEASURES
P1 Landscaping is to retain any vegetation of environmental, aesthetic and cultural significance where not affected by the works approved for the development.	No acceptable measures nominated

## (3) Element: Rehabilitation of Vegetation

# PURPOSE

To ensure that the removal of vegetation on steep, sensitive or unstable land does not undermine the stability of the land or impact unnecessarily on downstream conditions.





PERFORMANCE CRITERIA	ACCEPTABLE MEASURES
<ul> <li>P1 Existing vegetation which is removed outside of the building area must be rehabilitated so as to not increase land slip or subsidence risks around:</li> <li>cut and fill areas;</li> <li>sensitive elements such as the heads of gullies, watercourses and major drainage lines;</li> <li>the toes of slopes; and to have proper regard to the integrity and character of the surrounding vegetation, in particular:</li> <li>land stability;</li> <li>waterflows and erosion,</li> <li>re-establishment of native vegetation;</li> <li>remediation of contamination; and</li> <li>the intended use following rehabilitation.</li> </ul>	A1 For assessable development landscaping shall be sited and designed to respond appropriately to site specific conditions in accordance with an approved Landscape Plan which demonstrates the proposals satisfaction of the performance criterion.

(4) Element: Multiple Unit Residential Development

#### PURPOSE

To ensure high standards of landscaping for forms of development that include residential units.

PERFORMANCE CRITERIA	ACCEPTABLE MEASURES
<ul> <li>P1 The landscaping must:</li> <li>provide accessible communal open space landscaped settings for the enjoyment and appreciation of residents;</li> <li>provide landscaping to the frontage of the site which complements the desired streetscape character and quality;</li> <li>provide privacy between dwelling units and to adjacent dwellings;</li> <li>provide screening to carparks, driveways and other service areas (such as garbage storage areas);</li> <li>ensure good visibility and sightlines for vehicles and pedestrians along streets, paths and driveways for driver safety and personal security reasons;</li> <li>contribute to energy efficiency and amenity by providing shade in summer particularly to western walls and open carpark areas; and</li> </ul>	A1 For assessable development landscaping shall be sited and designed to respond appropriately to site specific conditions in accordance with an approved Landscape Plan which demonstrates the proposals satisfaction of the performance criterion.



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Maroochy Plan 2000

PERFORMANCE CRITERIA	ACCEPTABLE MEASURES
<ul> <li>P1 continued</li> <li>admitting winter sunlight to outdoor and indoor living areas;</li> <li>maximise the extent of vegetated, unpaved or unsealed landscaped areas to facilitate on-site infiltration of stormwater run-off; and</li> <li>provide lighting to walkways and entries to ensure a high level of safety and security for residents and visitors, with lights designed to minimise light intrusion into habitable areas of dwellings.</li> </ul>	

# (5) Element: Commercial Development

## PURPOSE

To ensure high standards of landscaping for forms of development that include commercial development.

PERFORMANCE CRITERIA	ACCEPTABLE MEASURES
<ul> <li>PERFORMANCE CRITERIA</li> <li>P1 The landscaping must: <ul> <li>provide landscaped settings for the enjoyment and appreciation of business people, employees and customers;</li> <li>provide landscaping to the frontage of the site which complements the desired streetscape character and quality;</li> <li>provide screening to carparks, driveways, other service areas (such as garbage storage and clothes drying areas) and adverse facades of the building;</li> <li>ensure good visibility and sightlines and opportunities for casual surveillance for vehicles and pedestrians along streets, paths and driveways for driver safety and personal security reasons;</li> <li>contribute to energy efficiency and amenity by providing shade in summer particularly to western walls and open carpark areas and admitting winter sunlight to public areas;</li> <li>provide lighting to walkways and entries to ensure a high level of safety and security; and</li> </ul> </li> </ul>	ACCEPTABLE MEASURES A1 For assessable development landscaping shall be sited and designed to respond appropriately to site specific conditions in accordance with an approved Landscape Plan which demonstrates the proposals satisfaction of the performance criterion.





#### (6) Element: Tourism Development

# PURPOSE

To ensure high standards of landscaping for forms of development for tourism purposes.

PERFORMANCE CRITERIA	ACCEPTABLE MEASURES
<ul> <li>P1 The landscaping must:</li> <li>be of a very high quality and presentation;</li> <li>be based on the natural and sub- tropical character of the Shire rather than an imported theme;</li> <li>retain uses and features of native vegetation as the major planting theme;</li> <li>use of natural materials and colours to integrate the develop-ment into the surrounding environment; and</li> <li>provide attractive landscaped settings for the enjoyment and appreciation of tourists.</li> </ul>	A1 For assessable development landscaping shall be sited and designed to respond appropriately to site specific conditions in accordance with an approved Landscape Plan which demonstrates the proposals satisfaction of the performance criterion.

# (7) Element: Industrial Development

# PURPOSE

To ensure high standards of landscaping for forms of development that includes industry.

<ul> <li>P1 The landscaping must:</li> <li>provide landscaped settings for the enjoyment and appreciation of business people, employees and customers;</li> <li>provide landscaping to the frontage of the site which complements the desired streetscape character and quality;</li> <li>provide screening to carparks, driveways, other service areas (such as garbage storage areas) and unarticulated facades of the building;</li> <li>ensure good visibility and sightlines and opportunities for casual surveillance for vehicles and pedestrians along streets, paths and driveways for driver safety and personal security reasons;</li> <li>contributes to energy efficiency and amenity by providing shade in summer particularly to western walls and open carpark areas an admitting winter sunlight to public areas; and</li> <li>have planting selection and design which is low maintenance and which can endure an intensively used environment.</li> </ul>



Volume Four

#### (8) Element: Landscaping for Taller Buildings, Balconies and Rooftops (vertical landscaping)

# PURPOSE

To ensure high standards of landscaping for forms of development that are more than two storeys in height.

PERFORMANCE CRITERIA	ACCEPTABLE MEASURES
<ul> <li>P1 Vertical landscaping must:</li> <li>promote a more attractive facade for multi-level buildings;</li> <li>soften the height of the building;</li> <li>graduate the height of the building with planting;</li> <li>increase privacy between upper level balconies and units;</li> <li>be suited to the difficult conditions of exposure;</li> <li>be able to be readily maintained; and</li> <li>ensure appropriate structural support, irrigation, drainage and water proofing of planting containers.</li> </ul>	<ul> <li>A1.1 Species selected for planting must be suited to use for vertical landscaping. A list of suitable species is included in the Schedule to this code.</li> <li>AND</li> <li>A1.2 For assessable development, landscaping shall be sited and designed to respond appropriately to site specific conditions in accordance with an approved Landscape Plan which demonstrates the proposals satisfaction of the performance criterion.</li> </ul>

(9) Element: Open Carparks, Driveways, Pathways and other Hard Surfaces

## PURPOSE

To ensure high standards of landscaping for open carparks, pathway and other hard surfaces.

PERFORMANCE CRITERIA	ACCEPTABLE MEASURES
P1 Landscaping must maximise the extent of vegetated, unpaved or unsealed landscaped areas to facilitate on-site infiltration of stormwater run-off.	A1 For assessable development, landscaping shall be sited and designed to respond appropriately to site specific conditions in accordance with an approved Landscape Plan which demonstrates the proposals satisfaction of the Performance Criteria.
<ul> <li>P2 Landscaping for open carparks and driveways must:</li> <li>provide suitable screening to street frontages, adjacent residences and other public spaces;</li> <li>reduce the harsh visual effect created by open paved areas;</li> <li>provide significant shade;</li> <li>provide trees with suitable growing conditions; and</li> <li>separate and define pedestrian and vehicular circulation routes.</li> </ul>	<ul> <li>A2.1 A planting bed of at least two metres (2 metres) width is provided along frontage to streets or other public areas</li> <li>AND</li> <li>A2.2 A planting bed of at least one metre width with screen fencing and dense landscaping is provided to any property boundary with adjacent residential use</li> <li>AND</li> <li>A2.3 Planting of trees and shrubs in median areas throughout the parking area and including one shade tree for every 6 parking spaces</li> <li>AND</li> <li>A2.3 Each planting bed for shade trees has minimum dimension of 1m<sup>2</sup>, and designed to provide suitable drainage and exclusion of motor vehicles</li> </ul>

PERFORMANCE CRITERIA	ACCEPTABLE MEASURES
<ul> <li>P3 Paving for hard surfaces must:</li> <li>be semi-porous or graded to maximise on-site infiltration of stormwater;</li> <li>be in materials and colours which complement the development;</li> <li>be of adequate strength and in non slip finishes; and</li> <li>provide equitable access for people with physical disabilities.</li> </ul>	A3 For assessable development, landscaping shall be sited and designed to respond appropriately to site specific conditions in accordance with an approved Landscape Plan which demonstrates the proposals satisfaction of the Performance Criteria.
P4 Landscaping must include lighting to carparks, driveways and entry pathways to ensure a high level of safety and security for residents and visitors.	A4 For assessable development, lighting shall be sited and designed to respond appropriately to site specific conditions in accordance with an approved Landscape Plan which demonstrates the proposals satisfaction of the Performance Criteria.

# (10) Element: Drainage Lines and Watercourses

# PURPOSE

To ensure high standards of landscaping for drainage lines and watercourses.

PERFORMANCE CRITERIA	ACCEPTABLE MEASURES
<ul> <li>P1 Any landscaping for drainage lines and watercourses must:</li> <li>achieve solutions for drainage lines which retain natural features and retain a natural appearance;</li> <li>use natural materials and solutions to traditionally hard and unattractive open concrete drains;</li> <li>integrate engineering and landscape solutions for stormwater management; and</li> <li>rehabilitate degraded areas with removal of weed species and replanting of native species.</li> </ul>	A1 For assessable development, landscaping shall be sited and designed to respond appropriately to site specific conditions in accordance with an approved Landscape Plan which demonstrates the proposals satisfaction of the Performance Criteria.

Volume Four



# (11) Element: Buffers

# PURPOSE

To ensure high standards of landscaping for development including buffers between incompatible land use.

PERFORMANCE CRITERIA	ACCEPTABLE MEASURES				
P1 Any landscaping for buffers between incompatible land uses must be of suitable width and density of planting to achieve its intended effect and minimise land use conflict.	A1.1 Planting for buffer areas are to be at the following minim density:Trees:2 metre centresShrubs:1 metre centresGroundcovers:0.5-1 metres centresAND				
	A1.2 For industrial use, required buffers between conflicting uses shall be of a width compatible with 'Acceptable Measure' A1, in Element 4 of the Code for Industries in Urban Areas. AND				
	A1.3 For Intensive Rural Industry and Aquaculture uses, required buffers between conflicting uses shall be compatible with 'Acceptable Measure' A1.3, Element 1 of the Code for Intensive Rural Industry and Aquaculture.				
	AND				
	A1.4 For assessable development, landscaped buffers shall be of an appropriate density, width and location in accordance with an approved Landscape Plan which demonstrates the proposals satisfaction of the Performance Criteria.				

# (12) Element: Development in Rural Areas

## **PURPOSE**

To ensure high standards of landscaping for development in rural areas of the Shire.

PERFORMANCE CRITERIA	ACCEPTABLE MEASURES
<ul> <li>P1 Landscaping in rural areas must:</li> <li>be consistent with the established rural character of the locality;</li> <li>be well suited to low maintenance regimes;</li> <li>realise opportunities for revegetation of earthworks on prominent hillsides and degraded land; and</li> <li>retain the important views and aesthetics of the landscape, particularly on tourists routes.</li> </ul>	A1 For assessable development landscaping shall be sited and designed to respond appropriately to site specific conditions in accordance with an approved Landscape Plan which demonstrates the proposals satisfaction of the Performance Criteria.





## (13) Element: Maintenance

# PURPOSE

To ensure the landscaping is established and is properly maintained for the life of the development.

PERFORMANCE CRITERIA	ACCEPTABLE MEASURES
P1 The landscaping must be designed and constructed consistent with best horticultural practices, with consideration to ease of maintenance and to ensure success of the landscaping.	<ul> <li>A1.1 Planting uses locally native species which are suited to local climate and soil conditions, and therefore lower maintenance requirements. Suitable species are listed in the Schedule to this code.</li> <li>AND</li> <li>A1.2 Planting for residential, commercial and industrial development has simple planting choice with fewer massed planted species, to seek consistent and tidy growth and ease of maintenance regime.</li> <li>AND</li> <li>A1.3 Landscape works are to be designed with consideration to maintenance including:</li> <li>a landscaping scheme that has realistic maintenance requirements</li> <li>with the use of extensive mulching,</li> <li>edging treatment for mowing</li> <li>planting has appropriate drainage</li> <li>planting and fertilisation if undertaken consistent with horticultural best industry practice.</li> </ul>
<ul> <li>P2 The landscaping must be maintained in accordance with:</li> <li>the original design intent expressed in the landscaping plan; and</li> <li>horticultural industry best practice.</li> </ul>	A2 For assessable development, landscaping shall be sited and designed to respond appropriately to site specific conditions in accordance with an approved Landscape Plan which demonstrates the proposals satisfaction of the Performance Criteria.



# SCHEDULE TO CODE 2.3 FOR LANDSCAPING DESIGN

## Choice of Plants

The selection of plant species is of primary importance when landscaping a site. The species should be determined in relation to the locality of the site and the existing conditions and should ensure the integration of the built form into the natural environment. A predominance of natives are to be utilised in landscape design. Canopy trees, which are to develop the structure of the design, should be predominantly native species.

The use of indigenous plant species, which occur naturally in the area will generally result in healthier, faster growing, hardier plants which require little maintenance. The use of local species will also assist in the retention of the natural subtropical character of Maroochy Shire.

Schedules of suitable plants for the Shire are found in attached lists. The lists address the different regions in the Shire including: coastal and wallum areas; open forest and woodland areas; and rainforest areas. Lists of species unsuitable for planting, due to their potential to become bushland weeds or their poisonous nature, are also found.

#### The Use of Palms

The use of palms in landscapes within Maroochy Shire is an issue to be approached with concern and thought. Palms may either enhance a landscape design or make it appear completely out of character. Whilst the use of palms is not completely discouraged, a monoculture of palms is inappropriate.

Palms have their correct place in landscape design and some species are more appropriate than others. For instance, in tight, narrow garden beds, courtyards and beside walls, the use of palms may be appropriate. Palms may also be attractive planted as a clump, or in small groups amongst other tree types. Palms are to be an emergent, rather than dominant feature in the landscape design, and should be planted to mirror their occurrence in a natural environment. The use of Cocos palms in particular, is not supported due to its potential to be come an environmental weed, its maintenance problems and over use on the Sunshine Coast.

#### **Suggested Palm Species**

The use of these palms is particularly encouraged in areas where they occurred naturally in the Shire.

BOTANICAL NAME	COMMON NAME
Archontophoenix cunninghamiana	Bangalow/ Piccabeen Palm
Archontophoenix	
alexandrae	Alexandra Palm
Livistonia australis	Cabbage Tree Palm
Linospadix monostachya	Walking Stick Palm
Livistonia decipens	Weeping Cabbage Palm

#### Street Trees

Street trees contribute to the identity of the shire through the provision of pleasant streetscapes and planting themes. The character or theme in residential subdivisions, in particular, is enhanced by the selection of street trees. The utilisation of native species for use as street trees is encouraged in order to preserve and enhance the natural character of the shire. In addition, the retention and featuring of existing vegetation within the road reserve may provide a suitable established landscaped streetscape.

Careful consideration is required in the location and choice of street trees, with particular attention to:

- services and infrastructure (both underground and overhead);
- sight lines at intersections, and;
- pedestrian movements

Street trees should be chosen for their:

- non-invasive root system;
- good canopy spread and shade provision;
- low height growth nature (under 10m in height);
- colour and appeal;
- low maintenance requirements.

Street trees provided as part of a new development should be a minimum of 45 litres in size to provide an early established feel to the development. In some circumstances the use of root barriers will be required when planting trees close to kerbs, buildings and other structures under the possible threat of root damage. A species list of those plants particularly recommended for street tree planting is provided in Section 6.2.2.

Street trees are to be planted a minimum of one (1) metre away from infrastructure services such as water and sewage pipes. The location of all services, existing footpaths, driveways and street furniture should be indicated on the landscape design plan.





#### Coastal & Wallum Areas

Coastal and wallum areas include those parts of the Shire, which are close to the coast and are characterised by sandy soils and an often-low lying, exposed habit. The Maroochy Shire coast stretches from Mooloolaba and Mountain Creek to Peregian Beach and is made up of a variety of coastal habitats. Some of these habitats are highly exposed to salt and wind, whilst other areas are wet and low-lying. A small sample of the coastal vegetation communities are explained below:

- Heathland Communities are an important vegetation type associated with coastal sand plains. They occur in low-lying areas in conjunction with poorly drained soils. This vegetation type provides an attractive and much ignored landscape to an area, being rich in colour and unusual form, particularly in the Spring. The retention and enhancement of this vegetation type is highly recommended. These areas are often prone to clearing, as the canopy is less than 2 metres high.
- Dunal and/or Headland Communities These communities occur in a narrow strip along the coastal edge. For properties situated within this zone, the most appropriate species for planting are the frontline coastal species, which will thrive in these conditions and require little maintenance. It is recommended that the vegetation character of the dunal community is retained to enhance the natural setting of the coast.
- Riverine Communities The vegetation associated with coastal rivers, streams and creeks, acts as vital corridors for fauna, as a genetic link between remnant patches of rainforest, and assists in maintaining high water quality. Plants chosen for revegetating such strips of land should be tolerant of occasional inundation and be in keeping with the indigenous plant species of the area. Be sure not to plant any weed prone trees or ground covers along waterways, as the river system will further distribute the unwanted species.
- Mountain Heathland Mounts Coolum and Emu (Peregian). This vegetation unit is confined to the near coastal hills and rocky outcrops of the Shire. For properties situated near such areas, it is recommended that the vegetation character is enhanced to achieve an aesthetic appeal.



## Coastal & Wallum: Trees and Large Shrubs (1st preference)

Species marked "\*" are those able to withstand front line exposure to salt and/or wind. Endemic species are those which occur locally on the Sunshine Coast.

BOTANICAL NAME	COMMON NAME	Height	Spread (m)	Endemic (m)
Acacia complanata		3	3	1
Acacia sophorae*	Coastal Wattle	3	2	1
Acmena smithii	Lilly Pilly	6	5	1
Acronychia imperforata*	Fraser Island Apple	3	2	1
Alectryon coriaceus*	Beach Birds Eye	4	2	1
Allo casuarina littoralis	Black She-oak	8	5	1
Alphitonia excelsa	Red Ash	6	5	1
Banksia aemula	Old Man Banksia	5	3	1
Banksia integrifolia*	Coastal Banksia	6	4	1
Callitris columellaris	Bribie Island Pine	8	4	1
Casuarina equisetifolia*	Horsetail She-oak	6	6	1
Casuarina glauca	Swamp Oak	8	3	1
Corymbia intermedia	Pink Bloodwood	8	4	1
Cupaniopsis anacardioides	Tuckeroo/Cupania	6	6	1
Elaeocarpus reticulatis	Blueberry Ash	8	3	1
Eucalyptus robusta	Swamp Mahogany	10	5	1
Eucalyptus signata	Scribbly Gum	8	5	1
Eucalyptus tereticornis	Forest Red Gum	15	6	1
Eucalyptus tessellaris	Moreton Bay Ash	10	6	1
Hibiscus tiliaceus*	Cottonwood	6	6	1
Livistona australis	Cabbage Tree Palm	10	3	1
Lophostemon confertus	Brush Box	10	6	1
Macaranga tanarius	Macaranga	4	4	1
Melaleuca quinquenervia	Paperbark Tea Tree	8	3	1
Pandanus tectorius*	Pandanus	5	4	1
Petalostigma pubescens	Quinine Bush	5	4	1
Syzygium australe	Scrub Cherry	6	4	1
Syzygium oleosum	Blue Lilly Pilly	6	4	1





# Coastal & Wallum: Trees and Large Shrubs (2nd preference)

BOTANICAL NAME	COMMON NAME	Height	Spread (m)	Endemic (m)
Acacia concurrens		6	6	1
Acacia sophorae	Coastal Wattle	5	5	1
Acmena hemilampra	Lilly Pilly	6	5	1
Albizia lebbek	Woman's Tongue Tree	10	8	1
Angophora leiocalyx	Smooth Barked Apple	10	4	1
Baeckea spp (suggested B. la petite, camphorata, virgata, mt tozer)		various	sizes	
Banksia ericifolia	Heath Banksia	4	4	
Banksia oblongifolia		2	2	<i>✓</i>
Banksia robur	Swamp Banksia	2	2	<i>✓</i>
Banksia serrata	Saw Banksia	5	6	
Banksia spinulosa	Honeysuckle Banksia	3	2	1
Buckinghamia celcissima	Ivory Curl	6	4	
Caesalpinia ferrea	Leopard Tree	10	5	
Callistemon spp		various	sizes	1
Clerodendron inerme	Lolly Bush	3	2	1
Commersonia bartramii	Brown Kurrajong	6	2	1
Cryptocarya glaucescens	Brown Beech	10	4	1
Cryptocarya triplinervis	Brown Laurel	8	4	1
Delonix regia	Royal Poinciana	8	10	
Elaeocarpus obovatus	Blueberry Ash	10	6	1
Endiandra discolor	Tickwood	7	3	1
Endiandra sieberi	Corkwood	10	4	1
Eucalyptus bancroftii	Orange Gum	6	3	1
Eucalyptus conglomerata	Swamp Stringybark	6	4	1
Eucalyptus microcorys	Tallow Wood	15	8	1
Eucalyptus ptychocarpa	Swamp Bloodwood	6	4	
Gmelina leichhardtii	White Beech	12	6	1
Grevillea spp (suggested G. banksii, coastal glow, honey gem, majestic, moonlight, orange marmalade, pink surprise, sandra gordon - shrubs; and G. baileyana, hilliana, robusta - trees)		various	sizes	
Harpullia pendula	Tulipwood	6	4	1
Jacaranda mimosifolia	Jacaranda	8	10	



# Coastal & Wallum: Trees and Large Shrubs (2nd preference) Continued

BOTANICAL NAME	COMMON NAME	Height	Spread (m)	Endemic (m)
Leptospermum cardwell	Cardwell Tea Tree	2	2	
Leptospermum flavescens	Tea Tree	3	2	✓
Leptospermum laevigatum	Coast Tea Tree	4	2	
Leptospermum petersonii	Lemon Scented Tea Tree	4	2	1
Mallotus discolour	Yellow Kamala	6	4	1
Mallotus philipensis	Red Kamala		- • •	1
Melaleuca bracteata	Revolution Goal and Green	7	5	1
Melaleuca irbyana	Swamp Tea Tree	4	3	
Melaleuca linariifolia	Snow in Summer	4	3	1
Melaleuca linariifolia "snowstorm"		2	2	
Melaleuca nodosa	Prickly Heath Paperbark	3	2.5	1
Melaleuca sieberi	Swamp Tea Tree	6	3	1
Melaleuca stypheloides	Prickly Leaf Paperbark	6	3	
Melaleuca viridiflora	Red Flowering Paperbark	6	4	
Melia azedarach	White Cedar	8	4	1
Melicope elleryana	Pink Euodia	6	4	1
Metrosideros thompsonii	New Zealand Christmas Bush	6	4	
Pandanus tectorius		5	4	1
Pararchidendron priunosum	Snow Wood	6	4	1
Peltophorum pterocarpum	Golden Flame Tree	8	4	
Phebalium woombye	Woombye	2	2	1
Pittosporum rhombifolium	White Holly	6	2	1
Pittosporum undulatum	Mock Orange	6	4	1
Podocarpus elatus	Plum Pine/Brown Pine	10	5	1
Polyscias elegans	Celerywood	6	2	1
Polyscias murrayi	Pencil Cedar		• • •	1
Pongamia pinnata	Indian Beech	6	4	
Rhodosphaera rhodanthema	Deep Yellow Wood	8	4	1
Syzygium australe	Scrub Cherry (sth form)	4	2	
Syzygium fibrosum	Fibrous Satinash	4	3	
Syzygium francissii	Water Gum	6	4	
Syzygium leuhmanii	Small Leaved Lilly Pilly	6	4	1
Terminalia sericocarpa	Indian Almond	10	5	
Tristaniopsis laurina	Water Gum	4	2	1
Westringia fruticosa	Coastal Rosemary	2	2	
Xanthorrhoea spp	Grass Trees	2	1	1
Xanthostemon chrysanthus	Golden Penda	4	2	1





# Coastal and Wallum: Small Shrubs, Vines and Groundcovers

BOTANICAL NAME	COMMON NAME	Height	Spread (m)	Endemic (m)
Adiantum spp	Maidenhair Ferns	0.5	0.5	
<i>Aristolochia deltantha</i> (exotic species are poisonous to the Richmond Birdwing Butterfly)			vine	
Aristolochia praevenosavine			vine	<i>✓</i>
Austromyrtus dulcis	Midyim	1	2	<i>√</i>
Baeckea virgata miniature		3	3	
Bauera rubioides	Wiry Dog Rose	1	1	
Bauera ruby glow		1	1	
Brachysome spp	River Daisies	0.5	0.5	
Callistemon little john		1	1	
Carpobrotus glaucescens	Pigface	0.3	1	1
Crinum pedunculatum	Spider Lily	1	1	5
Cymbopogon ambiguus	Lemon Scented Grass	1	1	
Cymbopogon refractus	Barbed Wire Grass	1	1	5
Dampiera hederacea		0.3	1	
Dampiera stricta		0.3	0.5	1
Danthonia racemosa	Wallaby Grass	1	1	
Dianella caerulea	Flax Lily	0.5	0.3	5
Dicanthium sericeum	Queensland Blue Grass	0.5	0.5	
Dietes bicolor		1	1	
Dietes grandiflora		1	1	
Erigeron karvinskianus	Seaside Daisy	0.3	1.5	
Goodenia spp		0.3	1	1
Grevillea bronze rambler		0.3	3	
Grevillea forest rambler		0.3	3	
Grevillea royal mantle		0.3	3	
Hardenbergia violacea	Native Sarsparilla	vine	•	1
Helichrysum amplexans	Golden Buttons	0.3	1	
Helichrysum rosmarinifolium	Everlasting Daisy	0.3	• • •	
Hibbertia scandens	Snake Vine	0.2	2.5	1
Hibbertia vestita		0.3	0.5	1
Lomandra confertifolia		0.3	1	1
Lomandra histrix	Mat Rush	1	1	1
Lomandra longifolia	Mat Rush	1	1	1
Myoporum ellipticum		0.5	3	1



# Coastal and Wallum: Small Shrubs, Vines and Groundcovers Continued

BOTANICAL NAME	Common Name	Height	Spread (m)	Endemic (m)
Poa australis		0.5	0.5	* * *
Poa labillardierii	Tussock Grass	1	1	•
Pultenea spp (suggested P. villosa, wallum gold)		1	1	<i>✓</i>
Restio tetraphyllus	Foxtails	1	0.5	1
Ricinocarpus pinifolius prostrate form	Wedding Bush	0.3	2	~
Scaevola spp (suggested S. aemula, albida, calendulaceae, purple clusters)		0.3	1	
Stipa verticillata	Slender Bamboo Grass		• • •	• • •
Sowerbaea juncea	Vanilla Lily	0.3	0.5	<ul> <li>Image: A set of the set of the</li></ul>
Tetratheca thymifolia		0.5	0.5	~
Tecomanthe hillii	Fraser Island Creepervine			1
Tecomanthe spp roaring meg		vine		
Themeda triandra	Kangaroo Grass	1	1.5	1
Tibouchina jules		1	1	0 0 0 0
Viola hederacea	Native Violet	0.3	1	1
Vitex ovata (compact)		0.5	2	- - -





#### **Open Forest/Woodland Areas**

The open forest woodland areas include those sections of Maroochy Shire inland and away from the coast and up to the foothills of the range areas and in the western portion of the shire. This type of vegetation generally occurs in the rural areas. The canopy tree is often Eucalyptus, although in the wetter areas on the coastal plains, the dominant tree species will be Melaleuca / Paper barks. Much of this area of the Shire has been cleared for urban development and agricultural land uses.

BOTANICAL NAME	COMMON NAME	Height	Spread (m)	Endemic (m)
Acmena smithii	Lilly Pilly	6	5	✓
Allocasuarina torulosa	Forest She-oak	6	5	1
Casuarina cunninghamiana	River She-oak	12	6	✓
Corymbia intermedia	Pink Bloodwood	8	4	✓
Eucalyptus grandis	Flooded Gum	12	5	✓
Eucalyptus microcorys	Tallow Wood	10	8	✓
Eucalyptus tereticornis	Queensland Blue Gum	10	5	✓
Flindersia australis	Crows Ash	10	4	✓
Flindersia schottiana	Bumpy Ash	12	3	✓
Livistona australis	Cabbage palm	12	3	✓
Lophostemon confertus	Brush Box	12	6	✓
Melaleuca quinquenervia	Broad Leaved Paper Bark	10	4	✓
Syncarpia glomulifera	Turpentine	8	3	<i>✓</i>
Syzygium australe	Scrub Cherry	6	4	✓
Syzygium oleosum	Blue Lilly Pilly	6	4	✓
Tristaniopsis laurina	Water Gum	7	3	<i>✓</i>
Waterhousea floribunda	Weeping Lilly Pilly	8	4	1

## Open Forest/Woodland: Trees (1st preference)



## Open Forest/Woodland: Trees (2nd preference)

3OTANICAL NAME COMMON NAME		Height	Spread (m)	Endemic (m)
Acacia fimbriata	Brisbane Wattle	5	4	
Angophora leiocalyx	Smooth Barked Apple	10	4	1
Backhousia citriodora	Lemon Scented Myrtle	4	2	1
Backhousia myrtifolia	Sweet Carro	14	2	1
Baeckea spp		various	sizes	1
Banksia spp		various	sizes	1
<i>Callistemon spp</i> ( <i>Allocasuarina spp</i> ) suggested <i>C. anzac</i> , captain cook, candy pink, dawson river, endeavour, formosus, pachyphyllus, pink champagne, <i>salignus viminalis</i> , wildfire)		various	sizes	✓
Casuarina spp (suggested C. glauca, littoralis, cunninghamiana, torulosa)		various	sizes	✓
Corymbia intermedia		8	4	1
Elaeocarpus sp		various	sizes	✓
Grevillea spp		various	sizes	1
Kunzea spp		various	sizes	• • •
Leptospermum spp			sizes	1
Macaranga tanarius		4	4	1
Melaleuca spp		various	sizes	1
Pultenea spp		various	sizes	1
Xanthorrhoea spp	Grass Trees	2	1	1





# Open Forest/Woodland: Small Shrubs, Vines and Groundcovers

BOTANICAL NAME COMMON NAME		Height	Spread (m)	Endemic (m)	
Adiantum spp	Maidenhair Ferns	0.5	0.5		
Aristolochia deltantha (exotic			•		
species are poisonous to the Richmond Birdwing Butterfly)			vine	•	
Aristolochia praevenosavine			vine		
Austromyrtus dulcis	Midyim	1	2		
Baeckea virgata miniature	ivitayiii	3	3		
Bauera rubioides	Wiry Dog Rose	1	1		
Brachysome spp	River Daisies	0.5	0.5	• • •	
Callistemon little john		1	1		
Crinum pedunculatum	Spider Lily	1	1		
Cymbopogon ambiguus	Lemon Scented Grass	1	1		
Cymbopogon refractus	Barbed Wire Grass	1	1		
Dampiera hederacea		0.3	1		
Dampiera stricta		0.3	0.5		
Danthonia racemosa	Wallaby Grass	1	1		
Darwinia spp			• — — • •	• • • •	
(suggested <i>D. citriodora</i> )		0.5	1	✓	
Dianella caerulea	Flax Lily	0.5	0.3	<ul> <li>✓</li> </ul>	
Dietes bicolor		1	1	•	
Dietes grandiflora		1	1	• •	
Erigeron karvinskianus	us Seaside Daisy		1.5	• • •	
Goodenia spp		0.3	1	1	
Grevillea bronze rambler		0.3	3		
Grevillea forest rambler		0.3	3	•	
Grevillea royal mantle		0.3	3	• •	
Hardenbergia violacea	Native Sarsparilla	vine	* * *	<ul> <li>✓</li> </ul>	
Helichrysum amplexans	Golden Buttons	0.3	1		
Helichrysum rosmarinifolium	Everlasting Daisy	0.3	•		
Hibbertia scandens	Snake Vine	0.2	2.5	<ul> <li>✓</li> </ul>	
Lomandra confertifolia		0.3	1	1	
Lomandra histrix	Mat Rush	1	1	1	
Lomandra longifolia	Mat Rush	1	1	1	
Myoporum ellipticum		0.5	3	1	
Phebalium woombye prostrate form		0.3	1	✓	
Poa australis		0.5	0.5		
Pultenea spp (suggested P. villosa, wallum gold)		1	1	✓	



BOTANICAL NAME	COMMON NAME	Height	Spread (m)	Endemic (m)
Restio tetraphyllus	Foxtails	1	0.5	1
Ricinocarpus pinifolius prostrate form	Wedding Bush	0.3	2	1
Scaevola spp (suggested S. aemula, albida, calendulaceae, purple clusters)		0.3	1	
Sowerbaea juncea	Vanilla Lily	0.3	0.5	1
Tetratheca thymifolia		0.5	0.5	1
Tecomanthe hillii	Fraser Island Creepervine		- - - -	1
Themeda triandra	Kangaroo Grass	1	1.5	1
Tibouchina jules		1	1	
Viola hederacea	Native Violet	0.3	1	1
Vitex ovata (compact)	0.5 2			

## Open Forest/Woodland: Small Shrubs, Vines and Groundcovers Continued

# Closed Forest/Rainforest Areas

The closed forest and rainforest areas have particular significance to Maroochy Shire and South East Queensland for their floristic and structural diversity. They range from tall, structurally complex species, rich communities on the fertile, well watered plateaus of the Blackall and Conondale Ranges, to the dry, stunted rainforests and vine forests on the rockier sites of the western section of the Shire. Remaining areas of this vegetation type are often remnants from previously cleared land, and for this reason their conservation and/or re-establishment is highly encouraged. The once widespread lowland subtropical rainforests of the coastal plain are also significant relics to be retained, wherever possible.

Closed forest and related rainforest areas have been identified within Maroochy Shire as one of the most significant vegetation types and habitats in the area. There is potential for considerable revegetation of these species in rural and the Range areas. Closed forest / rainforest species are remarkably adaptable to a wide range of conditions and will generally grow best in moist well-drained soils. Due to the fire retardant nature of rainforest species, their use in such a setting is encouraged.

Rainforest areas provide valuable habitat areas for a range of flora and fauna, including the Richmond Birdwing Butterfly. The Butterfly is now listed a "vulnerable", and its continued rate of decline may lead to extinction. The on-going destruction of rainforest has seen a decline in the butterfly's larval food plant; the vines *Aristolochia praevenosa* and *Aristolochia deltantha var. leheyana*. The female butterfly lays eggs on the leaves of the vines, which provide food for the hatched larvae. The planting of the Richmond Birdwing Butterfly vine in all suitable areas of the Shire is encouraged.

Another significant threat to the Richmond Birdwing Butterfly, is the introduced Dutchman's Pipe Vine (*Aristolochia elegans*) which is common in backyard gardens and has become a weed in many bushland areas. The female butterfly lays its eggs on the Dutchman's Pipe Vine and the emerging larvae feed on the leaves, killing the larvae. The removal of the Dutchman's Pipe Vine from gardens is recommended.

The Richmond Birdwing Butterfly population is so depleted, that there are no longer any butterfly colonies north of Coolum and there is a large area from Caboolture to Nerang where no butterflies are found at all. However, in Maroochy Shire, butterflies have been confirmed in Coolum, Yandina, Nambour, Palmwoods, Maleny, Peachester, Beerwah, Woodford, Mt Eerwah and Mt Cooroy.





# Closed Forest/Rainforest: Trees (1st preference)

BOTANICAL NAME	COMMON NAME	Height	Spread (m)	Endemic (m)
Archontophoenix		12	2	,
cunninghamiana	Bangalow/Piccabeen Palm	12	3	
Brachychiton acerifolius	Flame Tree	8	4	
Brachychiton discolour	Queensland Lace Bark	6	3	
Castanospermum australe	Black Bean	10	6	<ul> <li>✓</li> </ul>
Cryptocaria glavcescens	Laurel	8	4	1
Elaeocarpus grandis	Blue Quandong	12	6	1
Elaeocarpus reticulatus	Blueberry Ash	8	6	1
Melicope elleryana	Pink Euodia	6	4	1
Euroschinus falcata	Ribbonwood	12	6	1
Ficus hillii	Hills Weeping Fig	12	5	1
Ficus macrophylla	Moreton Bay Fig	10	6	1
Ficus obliqua	Small Leaved Fig	15	5	1
Ficus platypoda	Small Leaved Moreton Bay Fig	10	4	1
Flindersia australis	Crows Ash	10	4	1
Grevillea robusta	Silky Oak	15	6	1
Glochidion ferdinardi	Cheese Tree	8	5	1
Hymenosporum flavum	Native Frangipani	8	3	1
Livistonia australis	Cabbage Palm	12	3	1
Lophostemon confertus	Brush Box			1
Omalanthus populifolius	Bleeding Heart	5	3	1
Stenocarpus sinuatus	Firewheel Tree	10	4	1
Waterhousea floribunda	Weeping Lilly Pilly 8 4		4	1



## Closed Forest/Rainforest: Trees & Large Shrubs (2nd preference)

BOTANICAL NAME COMMON NAME		Height	Spread (m)	Endemic (m)
Acmena brachyandra	Red Apple	12	6	1
Acmena graveolens	Cassowary Satinash	12	6	
Acmena hemilampra	Bush Satinash	6	5	1
Acmena smithii	Lilly Pilly	6	5	1
Agathis robusta	Queensland Kauri	20	6	1
Aleurites moluccana	Candle Nut	12	6	
Alloxylon flammeum	Tree Waratah	8	4	
Alphitonia excelsa	Red Ash	8	5	1
Alphitonia petriei	Pink Ash	12	8	1
Araucaria bidwillii	Bunya Pine	20	6	1
Araucaria cunninghamii	Hoop Pine	20	6	1
Archidendron hendersonii	White Lace Flower	12	6	
Archontophoenix alexandrae	Alexander Palm	15	5	1
Argyrodendron spp		various	sizes	1
Arytera distilis	Twin Leaved Coogera	8	4	1
Arytera lautereriana	Corduroy Tamarind	8	4	1
Backhousia citriodora	Lemon Scented Myrtle	4	2	1
Backhousia myrtifolia	Sweet Carrol	4	2	1
Barklya syringifolia	Crown of Gold	8	5	
Buckinghamia celsissima	Ivory Curl	6	4	
Caldcluvia paniculosa	Rose Leaf Marara	8	6	1
Callicarpa pedunculata	Velvet Leaf	4	2	
Callicoma serratifolia	Black Wattle	4	4	1
Cassia brewsteri	Leichhardt Bean	8	4	
Castanospora asphandii	Brown Tamarind	10	5	1
Cinnamomum oliveri	Oliver's Sassafras	10	6	1
Clerodendrum floribundum	Lolly Bush	3	2	1
Commersonia bartramii	Brown Kurrajong	6	3	1
Cordyline spp		various	sizes	1
Cryptocarya spp	Laurels	various	sizes	1
Cupaniopsis spp	Tuckeroo	6	4	1
Cyathea cooperi	Tree Fern	4	3	1
Darlingia darlingiana	Brown Silky Oak	10	4	•
Davidsonia pruriens	Davidson Plum	8	3	1
Diploglottis australis	Native Tamarind	10	6	1



## Closed Forest/Rainforest: Trees & Large Shrubs (2nd preference) Continued

BOTANICAL NAME	COMMON NAME	Height	Spread (m)	Endemic (m)
Dysoxylum spp (suggested D. fraserianum, muelleri)	Rosewood	10	6	~
Elaeocarpus sp (suggested E. angustifolius, eumundi, grandis, obovatus, reticulatis)	Quandongs	various	sizes	1
Endiandra spp (suggested E. discolor, globosa, sieberi)	Walnut	12	4	✓
Eugenia reinwardtiana	Beach Cherry	2	1	1
<i>Ficus spp</i> (including sandpaper figs but excluding <i>F. elastica</i> )		various	sizes	✓
Flindersia australis	Crow's Ash / Australian Teak	30	4	1
Flindersia brayleyana	Queensland Maple	8	4	1
Flindersia collina	Leopard Wood	8	4	
Geissois benthami	Red Carabeen	8	4	
Glochidion spp (suggested G.ferdinandi)	Cheese Tree	8	5	1
Gmelina leichhardtii	White Beech	15	6	1
Graptophyllum excelsum	Scarlet Fuchsia	2	1	
Grevillea baileyana	White Oak	8	4	
Grevillea hilliana	Yiel Yiel	8	5	1
Grevillea robusta	Silky Oak	15	6	1
Harpullia pendula	Tulipwood	6	4	1
Hymenosporum flavum	Native Frangipani	8	3	1
Jacksonia scoparia	Dogwood/Native Broom	4	2	1
Jagera pseudorhus	Foambark Tree	6	3	1
Licuala ramsayi	Fan Palm	8	3	• • •
Livistona australis	Cabbage Palm	12	3	1
Livistona decipiens	Weeping Cabbage Palm	8	3	
Macadamia spp		various	sizes	1
Macaranga tanarius	Macaranga	4	4	1
Mallotus spp (suggested M. discolor)				
Yellow Kamala		6	4	1
Melia azedarach	White Cedar	8	4	1
Melicope elleryana		6	4	1
Nauclea orientalis	Leichhardt Tree	8	6	
Neolitsea dealbata	White Bolly Gum	8	4	1





## Closed Forest/Rainforest: Trees & Large Shrubs (2nd preference) Continued

BOTANICAL NAME	COMMON NAME	Height	Spread (m)	Endemic (m)
Omolanthus populifolius	Native Bleeding Heart	8	6	1
Pararchidendron pruinosum	Snow Wood	10		<i>✓</i>
Phaleria clerodendron	Scented Daphne	4	4	
Pilidiostigma glabra	Plum Myrtle	3		
Pilidiostigma rhytisperma	Plum Myrtle	2	1	1
Pittosporum spp		various	sizes	1
Podocarpus elatus	Plum Pine	10	4	✓
Polyscias elegans	Celerywood	6	3	1
Polyscias murrayi	Pencil Cedar	8	3	1
Pongamia pinnata	Indian Beech	8	3	•
Pullea stutzeri	Hard Alder	4	3	•
Randia spp (suggested R. chartacea, fitzalanii)		various	sizes	✓
Rhodamnia maideniana	Smooth Scrub Turpentine	8	4	* * * *
Rhodosphaera rhodanthema	Yellow Wood	8	4	1
Sloanea woollsii	Yellow Carabeen	6	3	1
Syzygium spp		various	sizes	1
Terminalia sericocarpa	Indian Almond	10	5	
Toona australis	Red Cedar	12	6	1
Tristaniopsis laurina	Water Gum	8	3	1
Waterhousia floribunda	Weeping Lilly Pilly	6	4	1
Waterhousea unipunctata	Roly Poly Satinash	5	3	*
Xanthorrhoea spp	Grass Tree	various	sizes	1
Xanthostemon chrysanthos	Golden Penda	various	sizes	





# Closed Forest/Rainforest: Small Shrubs, Vines and Groundcovers

BOTANICAL NAME	COMMON NAME	Height	Spread (m)	Endemic (m)
Adianthum spp	Maidenhair Ferns	0.5	* * * *	* * *
Alpinia caerulea	Native Ginger		1	1
Aristolochia deltantha (exotic species of aristolochia are poisonous to the Richmond Birdwing Butterfly)		vine		J
Aristolochia pravenosa	Birdwing Butterfly Vine	vine		1
Aristolochia tagala		vine	•	
Cissus antarctica	Kangaroo vine	vine	•	<i>✓</i>
Cordyline spp		2	0.5	<i>✓</i>
Crinum pedunculatum	Crinum Lily	1	1	1
Davallia pyxidata	Fleur Lily	0.5	0.5	
Hibbertia scandens	Guinea Flower	0.2	2.5	✓
Hoya australis		vine	•	✓
Kreysigia multiflora	Sarsparilla Lily	0.5	0.5	•
Lobelia membranacea		0.3	0.5	<i>✓</i>
Lomandra longifolia	Mat Rush	1	1	1
Orthosiphon aristatus	Cats Whiskers	2	1	
Peperomia tetraphylla		0.3	1	
Proiphys cunninghamii	Brisbane Lily	0.5	0.5	1
Smilax australis	Sarsparilla	•		<ul> <li>✓</li> </ul>
Tecomanthe hillii	Fraser Island Creeper	vine		1
Tecomanthe sp "roaring meg"		vine	•	
Viola hederacea	Native Violet	0.3	1	



# **Species with Restrictions**

According to the rural Lands Protection Act (1985-1990) many trees, often selected for use in everyday planting situations, have the potential to become environmental weeds. Whilst this information applies to rural areas, it is strongly believed that the undesirable plants listed here can assist contactors in making prudent choices of plant material for particular projects.

#### 6.1.1 Plants not to be used

The schedule below contains those species not to be used in the Shire of Maroochy. Those species indicated with a "\*" after their common name, should not be used under any circumstances.

BOTANICAL NAME	COMMON NAME
Anredera cordifolia	Madeira Vine
Ardisia crispa	Coral Berry*
Ardisia humilis	Spice Berry*
Arecastrum romanzoffianum	Cocos Palm
Aristolochia elegans	Dutchman's Pipe*
Callisia fragrans	Purple succulent
Canna species	Canna Lily*
Cardiospermum grandiflorum	Balloon Vine*
Celtus sinensis	Chinese Elm*
Cinnamomum camphora	Camphor Laurel*
Coffea arabica	Coffee Bush
Cotoneaster pannosus	Cotoneaster
Datura species	Angel's Trumpets
Duranta repens	Skyflower
Eucalyptus torelliana	Cadagi*
Hypoestes sanguinolenta	Freckle Face
Ipomoea cairica	Mile a Minute
Ipomoea indica	Morning Glory
Lantana camara	Lantana*
Leucaena leucophala	Leucaena
Ligustrum lucidum	Privet Broad Leaf*
Ligustrum sinense	Privet, Small leaf*
Lonicera japonica	Honeysuckle
Macfadyena unuis-cati	Cats Claw Creeper*
Morus spp.	Mulberry
Nephrolepsis cordifolia	Fish bone Fern
Ochna serrulata	Mickey Mouse Bush
Olea africana	African Olive
Passiflora suberosa	Corky Passion Vine
Phyllostachys spp.	Running Bamboo
Phytolacca dioica	PackalaccaPinus elliotti, pinus radiataPine trees
Protasparagus sprengeri	Asparagus fern*
Radermacheria spp.	Asian Bell Tree
Raphiolepsis indica	Indian Hawthorn*
Sansevieria trifasciata	Mother in Laws Tongue*
Sasa spp.	Dwarf Bamboo*
Scheffera actinophylla	Umbrella Tree*
Schinus terebinthifolia	Broad Leafed Pepper Tree
Senna floribunda	Arsenic Bush
Senna pendula var. glabrata	Easter Cassia
Tamarix aphylla	Athel Pine
Tithonia diversifolia	Japanese sunflower
Wedelia trilobata	Singapore Daisy





#### 6.1.2 Use of the Pandanus Species

The future health of the Pandanus (*Pandanus tectorius var. pedunculatus*) species on the Sunshine coast is in jeopardy with the presence of an insect causing the plants to die. The problem is a leaf hopper (*Jamella australis*) which is responsible for the ill health and eventual death of many of the region's Pandanus species.

The leaf hopper is a predator to the Pandanus brought into south east Queensland from northern Queensland. As the leaf hopper has been introduced to this part of the Sate, there is no natural predator in this area to ensure natural control of the pest.

Due to the number of large and very significant Pandanus dying in key areas, and to ensure the survival of the species on the sunshine coast, Maroochy Shire has resolved to take a positive stand in the control of the leaf hopper. The Council is presently trialing a control method and plants throughout the Shire are being monitored. The transportation of Pandanus from north Queensland into the shire will not be permitted.

The use of the Pandanus species is encouraged, however it will be the responsibility of the applicant to ensure that stock chosen is not carrying the leaf hopper. Certification from the nursery is to be submitted to Council, and plants used in the landscape design should be monitored and controlled for any presence of the leaf hopper prior to planting. The Shire Arborist should be contacted to issue advice on the care of these specimens and to confirm the absence of the leaf hopper.

Council would appreciate your cooperation in the control of the leaf hopper in Maroochy Shire.

#### 6.1.3 Poisonous Plants

This table (below) includes poisonous plants, which are considered harmful when ingested or that may irritate or burn the skin on contact. The use of such plants is not recommended, in particular in areas where there is high pedestrian usage, in schools, kindergartens or shopping precincts.

BOTANICAL NAME	COMMON NAME
Abrus precatonus	Gigee Gigee
Agave spp	
Allamanda cathartica	Yellow Allamanda
Alocasia macrorrhiza	Cunjevoy
Brugmansia spp.	Angel's Trumpet
Calophyllum inophyllum	Beauty Leaf
Castanospermum australe	Black Bean
Dendrocnide sp.	Stinging Tree
Duranta repens	Skyflower
Hoya australis	Wax Flower
Lantana camara	Common Lantana
Nerium oleander	Oleander





# 6.2 Species for Special Situations

The following tables included species, which are suitable for specific uses including Koala habitat street trees and on building rooftops.

# 6.2.1 Rooftops & Balconies

BOTANICAL NAME	COMMON NAME
Acanthus mollis	
Actinotus helianthi	
Adenandra uniflora	
Agapanthus africanus	
Anigozanthos spp.	
Atriplex cinerea	
Austromyrtus dulcis	Midyim
Baeckea ramosissima	
Bauera rubiodes	Dog Roses
Boronia megastigma	
Brachyscome spp	River Daisy
Calytrix tetragona	
Carpobrotus glaucescens	Pig face
Clivia miniata	
Correa reflexa	
Crinum pendunculatum	Spider Lily
Crowea exalta	
Dampiera purpurea	
Darwinia citriodora	
Dianella caerulea	Flax Lily
Dianthus hybrids	
Dietes spp.	
Echinopogon ovatus	Hedgehog Grass
Erigeron karvinskianus	Seaside Daisy
Frankenia paucifolia	
Grevillea lanigera - dwarf	
Helichrysum rosmarinifolium	
Hibbertia spp	
Hoya australis	
Indigofera australis	
Ipomea pes-caprae	Goats Foot
Lagerostroemia indica	
Lavandula angustifolia	
Leptosperum sericeum	
Lomandra longifolia	Mat Rush





BOTANICAL NAME	COMMON NAME
Mahonia aquifolia	
Metrosideros spp.	
Mimulus prostratus repens	
Myoporum ellipticum	
Pelaronium peltatum	
Phebalium woombye	
Plumbago auriculata	
Poa australis	
Scaevola spp	
Scleranthus biflorus	
Sowerbaea juncea	Vanilla Lily
Stipa verticillata	
Strelitizia reginae	Bird of Paradise
Stylidium graminifolium	
Syzygium paniculatum	Lilly Pilly
Vitex ovata (compact)	
Westringia fruiticosa	Native Rosemary

# 6.2.2 Street Trees

The following species are all suitable for planting as street trees. Some species have particular features which render them appropriate for specific locations (such as under power lines for example). Selection of the appropriate tree will be dependent on constraints such as; adjacent structures and services, site character, growing conditions, safety and maintenance considerations. The feature codes are as follows:

C – exposed coastal PWR – appropriate for under power lines Can – canopy tree

BOTANICAL NAME	COMMON NAME	Height	Spread (m)	Endemic (m)	Features
Araucaria cunninghamii	Hoop Pine	15	6	3	6 6 6
Araucaria heterophylla	Norfolk Island Pine	15	6	* * *	• • •
Backhousia citriodora	Lemon Scented Myrtle	4	2	3	PWR
Backhousia myrtifolia	Grey Myrtle	4	2	3	PWR
Banksia integrifolia	Coastal Banksia	6	4	3	С
Brachychiton acerilfolius	Flame Tree	8	4	3	•
Brachychiton discolor	Lace Bark Tree	6	3	3	•
Buckinghamia celcissima	Ivory Curl Tree	6	4	•	PWR
Callistemon species	Bottlebrush	4	2	3	PWR
Cassia brewsteri	Leichhardt Bean	8	4	* * *	* * *
Castanospermum australe	Black Bean	10	6	3	Can
Corymbia intermedia	Pink Bloodwood	8	4	3	Can, C
Cupaniopsis anarcardiodes	Tuckeroo	6	6	3	C, PWR
Delonix regia	Poinciana	8	10	*	Can
Diploglottis campbelli	Small Leaved Tamarind	10	6	3	Can
Dysoxylum muelleri	Red Bean	10	5	3	Can
Elaeocarpus eumundii		10	6	3	Can
Elaeocarpus grandis	Quandong	12	6	3	Can
Elaeocarpus obovatus	Blueberry Ash	8	4	3	С
Eucalyptus ptychocarpa	Red Flowing Bloodwood	6	4	•	Can, C
Ficus species	Fig Trees	varies	varies	3	Can
Flindersia brayleana	Queensland Maple	8	4	•	•
Grevillea banksii		3	2	•	С
Grevillea baileyana	White Oak	8	4	* * *	*
Grevillea robusta	Silky Oak	15	6	3	* * *
Harpullia pendula	Tulipwood	6	4	3	Can
Hymenosporum flavum	Native Frangipani	8	3	3	*
Jacaranda mimosifolia	Jacaranda	8	10	- * * *	C, Can
Jagera pseudorhus	Foam Bark Tree	6	3	3	PWR, Can
Leptospermum longifolium	Weeping Tea Tree	5	5	*	* * *
Leptospermum petersonnii	Lemon Scented Tea Tree	4	2	3	С
Lophostemon confertus	Brush Box	10	6	3	PWR, C
Melaleuca quinquinervia	Paperbark Tea Tree	8	3	3	С
Melaleuca viridifolia	Broad Leaved Paperbark	4	*	* * *	*

BOTANICAL NAME	COMMON NAME	Height	Spread (m)	Endemic (m)	Features
Melicope elleryana	Pink Euodia	6	4	3	С
Pandanus tectorius	Screw Pine	5	4	3	PWR, C
Peltophorum pterocarpum	Yellow Flame Tree	8	4	•	
Pittosporum rhombifolium	White Holly	6	2	3	PWR
Plumeria obtusa	Frangipani	3	3	•	PWR, C
Podocarpus elatus	Plum Pine	10	4	3	•
Pongamia pinnata	Indian Beech	8	3	9 9 9	PWR, C
Stenocarpus sinuatus	Firewheel Tree	10	4	3	•
Syzygium species	Lilly Pilly	varies	varies	3	•
Terminalia cattappa	Indian Almond	8	6	* * *	C, Can
Waterhousea floribunda	Weeping Lilly Pilly	6	4	3	PWR

#### 6.2.3 Koala Habitats

There are a number of remnant bushland parcels throughout Maroochy Shire that are considered important habitat and corridor linkages for koalas. The planting of additional koala food trees is greatly encouraged in suitable areas and to complement these existing habitat areas.

The following is a list of koala food trees suitable for planting in Maroochy Shire.

BOTANICAL NAME	COMMON NAME
Corymbia citriodora	Spotted Gum
Eucalyptus crebra	Narrow-Leaf Red Ironback
Eucalyptus drepanophylla siderophloea	Queensland Grey Ironbark
Eucalyptus grandis	Rose Gum
Eucalyptus major	Grey Gum
Eucalyptus microcorys	Tallow Wood
Eucalyptus resinifera	Red mahogany
Eucalyptus robusta	Swamp Mahogany
Eucalyptus seeana	Narrow-Leaf Red Gum
Eucalyptus signata	Scribbly Gum
Eucalyptus tereticornis	Queensland Blue Gum
Lophostemon confertus	Brush Box

