

# EUCALYPT

## VEGETATION TYPE 4a

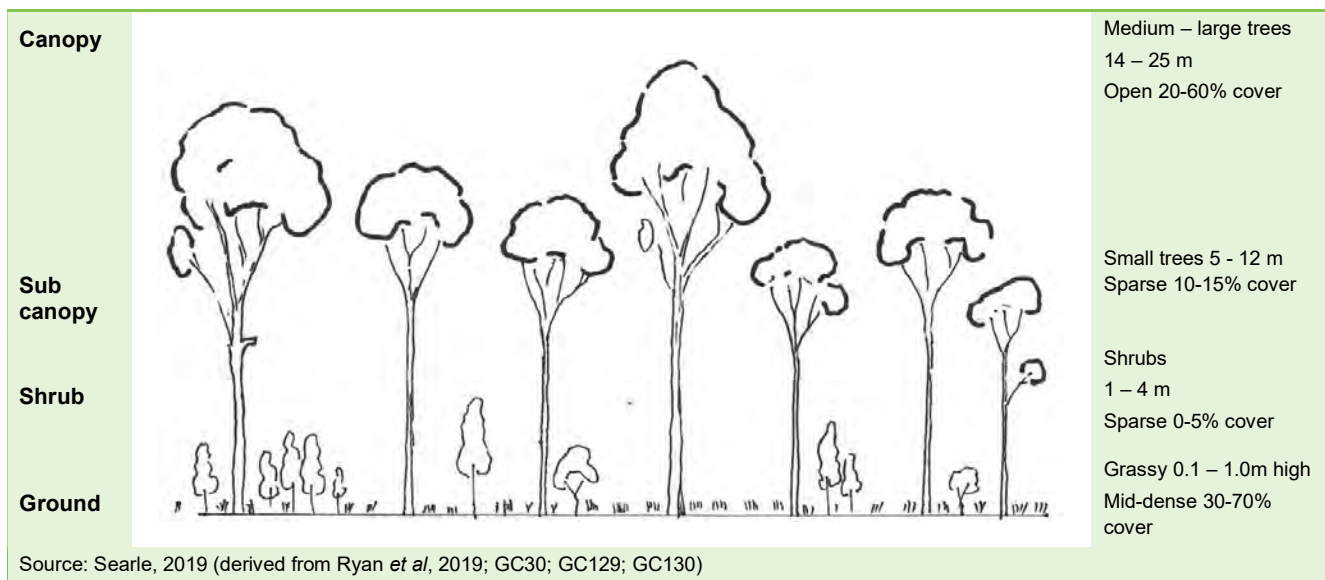
Regional Ecosystem: 12.11.25

Broad-leaved Ironbark - Large leaved Spotted Gum/Fine-leaved Red Gum (*Eucalyptus fibrosa* - *Corymbia henryi*/*E. seeana*) Woodland to Open Forest on Metasediments



## COMMUNITY STRUCTURE

Vegetation type (VT) 4a typically is woodland to open forest. The canopy layer varies from 14m to 25m high and provides approximately 20-60% canopy cover (shade to underlying plants). Broad-leaved Ironbark (*Eucalyptus fibrosa*) and Large-leaved Spotted Gum (*Corymbia henryi*) are common and conspicuous components. Narrow-leaved Red Gum (*E. seeana*) are also often present and can be co-dominant in some areas.



The sub-canopy and shrub layers are usually sparse, with Black Wattle (*Acacia concurrens*) and/or Black She-oak (*Alloasuarina littoralis*) usually comprising most of the shrubs, although Prickly-leaved Paperbark (*Melaleuca nodosa*) can be common in some locations. The ground cover is comprised mainly of native grasses.

# Characteristic plant species

Approximately **50 native plants** species have been recorded for this vegetation type. Characteristic plant species for this vegetation type are listed below. Dominant (most numerous) species are shaded.



Indicates species is a preferred koala food tree\*



Indicates species is a Glossy Black-Cockatoo feed tree species



Indicates species is a City-wide significant species

\* It is noted that in addition to preferred food trees, koalas utilise a range of eucalypt and non-eucalypt tree species for supplemental feeding and other uses such as shelter. These other species are also important and necessary features of koala habitat.

## CANOPY

Upper layer of vegetation exposed to sunlight which creates a canopy that shades lower layers



**Broad-leaved Ironbark**

*Eucalyptus fibrosa subsp. fibrosa*



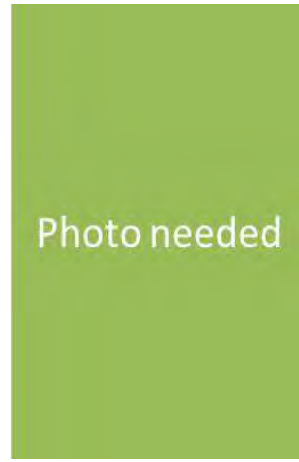
**Large-leaved Spotted Gum**

*Corymbia henryi*



**Narrow-leaved Red Gum**

*Eucalyptus seeana*



**Broad-leaved White Mahogany**

*Eucalyptus carnea*



**Smooth-barked Apple**

*Angophora leiocarpa*



## SUB-CANOPY

Tree layer below canopy



**Black She-Oak**  
*Allocasuarina littoralis*



**Prickly-leaved Paperbark**  
*Melaleuca nodosa*



**Black Wattle**  
*Acacia concurrens*

## SHRUB LAYER

Middle layer of vegetation usually made up of small trees and woody shrubs



**Black She-Oak**  
*Allocasuarina littoralis*



**Prickly-leaved Paperbark**  
*Melaleuca nodosa*

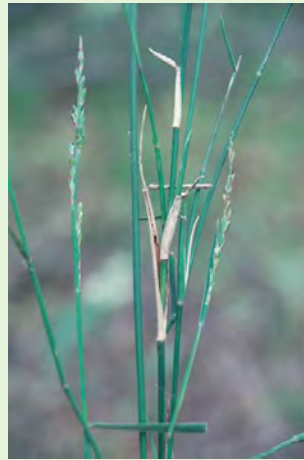
## GROUND LAYER AND VINES

Lowest layer of vegetation. Plant types can include grasses; graminoids (non-woody plants with a grass-like morphology); ferns; forbs (non-woody, broad-leaved, flowering plants) and vines (where present) may extend upwards into the canopy.



**Poverty Grass**  
*Eremochloa bimaculata*

GRASS (TUSSOCK)



**Wiry Panic**  
*Entolasia stricta*

GRASS (TUSSOCK)

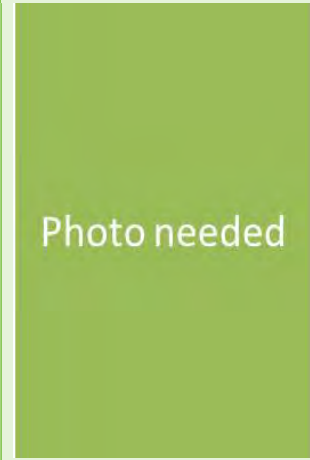


Photo needed

**Small-flowered Fingergrass**  
*Digitaria parviflora*

GRASS (TUSSOCK)



**Cockatoo Grass**  
*Alloteropsis semialata*

GRASS (TUSSOCK)

Graham McDonald ©



**Weeping Grass**  
*Microlaena stipoides*

GRASS (TUSSOCK)

Graham McDonald ©

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## City-wide significant plant species



The City of Gold Coast recognises species which are locally significant as City-wide significant (CWS) species. These species are important because they may be threatened, restricted to the Gold Coast, or at the edge of their geographic range. In addition to characteristic species identified above as CWS species, the following CWS plant species may also be present in this vegetation type.



**Short-leaved Bitter-Pea**

*Daviesia villifera*

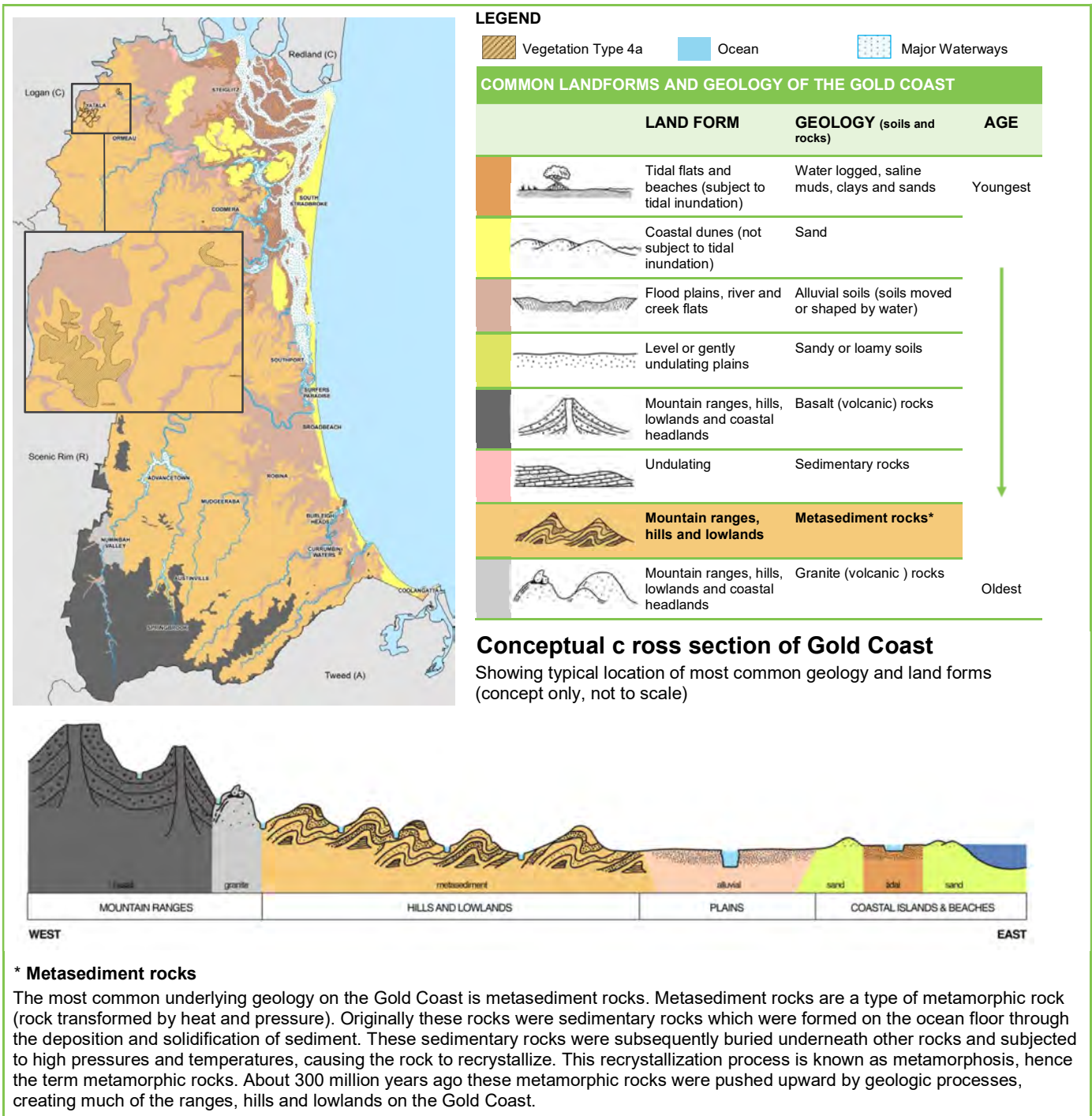
SHRUB

## OCCURRENCE

Native plants occur in vegetation communities, which are consistently associated with a particular soil type, landform (shape of the land, e.g. hills or plains) aspect (position on a slope in relation to the sun) and climate.

This vegetation type occurs on the crests and higher parts of low hillslopes in the north-west of Gold Coast City, represented in the localities of Stapylton and Yatala/Bannockburn. This community occurs on thin gravelly or stony soils with moderate to low soil moisture, although a thick litter layer may be present if fire has been absent. This community transitions into other vegetation types downslope on more fertile soils, such as VT1 or VT7. It is replaced by VT4 and VT4d on the crests and upper slopes of higher hills further south.

## Historic distribution of Vegetation Type 4a



## 2017 EXTENT AND CONSERVATION STATUS

### Gold Coast

The current extent\* of this vegetation type on the Gold Coast is 29 hectares.

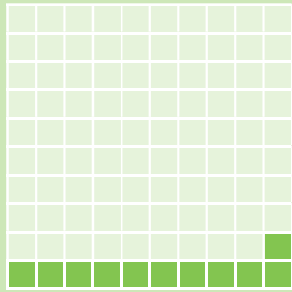
**1 HECTARE (HA) = 2.46 ACRES ≈ THE SIZE OF AN INTERNATIONAL RUGBY FIELD**

#### EXTENT (ha)

Historic  
269ha

2017\*  
29ha

11% of  
historical  
extent

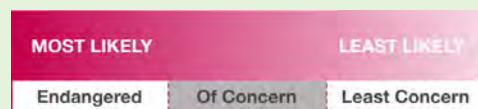


\* Extent as mapped in 2017. Includes remnant vegetation only. Does not include disturbed remnant or regrowth

### Queensland

The conservation status of vegetation in Queensland is specified under *the Vegetation Management Act 1999*, which lists this regional ecosystem (RE 12.11.25) as being 'Of Concern'.

#### LIKELIHOOD OF BECOMING EXTINCT (in QLD) due to biodiversity loss/degradation



## USEFUL RESOURCES

City of Gold Coast website: Environmental weeds and invasive plants.

Find out more about regional ecosystems at the Queensland Government Regional Ecosystems webpage.

## CREDITS

Content – ngh Environmental and Jason Searle.  
Vegetation Type Photo – Lui Weber ©  
Unless otherwise noted all other photos – Glenn Leiper ©

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## THREATS

Broad-leaved Ironbark/Broad-leaved Spotted Gum woodland is generally quite an open vegetation type, the ground layer of which typically forms a mosaic of grassland and more open areas with a conspicuous litter layer of leaves and bark. Too frequent fires, over-grazing or other loss of native grassy understorey can result in erosion and desiccation of the soil layer.

### Common threats to all vegetation types

#### Clearing

Native vegetation is protected by Federal, State and local legislation. However, with increasing population growth in the region, Southeast Queensland is experiencing large amounts of vegetation clearing, particularly in areas designated for urban development. Protecting native vegetation on your property is one of the most beneficial things you can do to protect wildlife and the natural environment.

#### Weeds

Environmental weeds are the second biggest threat to our natural environment after land clearing. Environmental weeds (introduced plants that have naturalised and are invading our bushland) degrade our natural environment by:

- out competing native plant species for available nutrients and light,
- taking over and transforming native landscapes often leading to local plant or animal extinctions and loss of biodiversity,
- reducing the availability of food and other resources for many native animals whilst sometimes benefiting pest animals,
- increasing the risk of destructive wildfire,
- often being toxic to people and animals.

#### Fire

Very broadly, vegetation types are either adapted to fire or fire sensitive. Fire can become a threat if:

- it extends into vegetation types which should not be burnt e.g. rainforest,
- the frequency and/or intensity of the fire is too high,
- the area burnt is too large.

#### Grazing

The grazing of animals like cattle, horses, goats and feral animals such as deer can cause trampling or loss of diversity of seedlings and compact soil, preventing natural regeneration.

#### Collecting

Unethical and illegal collection of plant specimens in the wild poses a serious threat to some species, particularly orchids, grass trees and epiphytes.

#### Climate change

Changes in temperature and rainfall can have significant effects on our city's vegetation. For example, without consistent rainfall, areas become drier, potentially resulting in higher fire frequency and/or intensity, which some plants and vegetation communities won't be able to tolerate. Plants (and animals) need available space to migrate as conditions change, with high altitude species at the greatest risk as there is nowhere suitable for them to go. Warmer conditions may also provide the right habitat for a greater variety of weeds. As sea levels rise, salt water moves further upstream and vegetation also becomes inundated.