

Department of Science, Information Technology and Innovation

BioCondition Benchmarks for Regional Ecosystem Condition Assessment

Benchmarks are quantitative values for each vegetation condition attribute assessed in BioCondition (Eyre et al. 2015), and are used as a reference for comparison purposes within and between regional ecosystems. Benchmarks are subject to regular review and updates based on additional data.

BioCondition benchmarks are compiled from quantitative site data from reference sites, data from the Queensland Herbarium's CORVEG database and expert opinion, and are specific to each regional ecosystem vegetation community. BioCondition benchmarks aim to reflect the natural variability in structure and floristic composition under a range of climatic and natural disturbance regimes throughout the geographic extent of a regional ecosystem. However, data from local reference sites should be collected where possible to account for spatial and temporal (seasonal and annual) variability when undertaking BioCondition assessments.

In some rangeland ecosystems, seasonal conditions can account for wide variation in the values obtained for some attributes assessed in BioCondition. Therefore in these ecosystems a range is expressed instead of a single benchmark value. When using rangeland regional ecosystem benchmarks to assess condition, the lower value of the benchmark range can be used as the benchmark, or if assessing a site under good seasonal conditions then use of the average value as the benchmark.

Definitions

Attribute	Brief description
Recruitment of dominant canopy species	Proportion of the dominant canopy (ecologically dominant layer) species with evidence of recruitment.
Native plant species richness	The number of species expected in four life form groups, i.e. tree, shrub, grass, forbs and other species
Tree strata:	A tree is defined as a woody plant, single stemmed >2 m tall.
 Canopy 	Height – median height in metres
Sub-canopy	Cover - percentage cover (assessed as opaque crowns)
Large trees	 DBH (Diameter at Breast Height) – For large trees only; dbh threshold (cm).
	Typical tree species
Shrub strata: • Native shrub cover	A shrub is defined as a woody plant, multi-stemmed from base or single stemmed and <2 m tall.
	Cover - percentage cover (assessed as opaque crowns)
	Typical shrub species
Ground cover:	Cover – percentage cover (assessed as projected foliage cover)
Native perennial grass coverLitter cover	Typical ground cover species
Coarse woody debris	 Total length in metres of woody debris > 10 cm diameter and > 0.5 m per hectare
Non-native plant cover	Cover – The percentage cover of non-native plants
	 Typical non-native species listed with common names and declared pest status¹

Conditions of use

BioCondition benchmarks have been developed from information published by the State of Queensland and remain the property of the State of Queensland. BioCondition benchmarks are not to be included on internet sites other than the Queensland Government website.

Users should reference information contained in the BioCondition benchmarks as: Queensland Herbarium (year*) BioCondition benchmarks for Regional Ecosystems, (month, year*) (Department of Science, Information Technology and Innovation: Brisbane). * Date shown in footnote of individual descriptions.

While every effort has been made to ensure the information presented is as reliable as possible, the State of Queensland accepts no liability and gives no assurance in respect of its accuracy and shall not be liable for any loss or damage arising from its use. BioCondition benchmarks are based on a combination of quantitative and qualitative information and should be used as a guide only. BioCondition benchmarks are subject to review and are updated as additional data becomes available.

For more information, contact:

Queensland Herbarium, DSITI Brisbane Botanic Gardens (Mt Coot-tha), Mt Coot-tha Road, Toowong QLD 4066

Last reviewed 5/10/2016

¹ **Declared**—either: a) a plant or animal species listed in Schedule 2 of the *Biosecurity Act 2014*; or b) an exotic plant that is listed in a local government pest management plan.

Table of Contents

Southeast Queensland benchmarks	
12.2.1	4
12.2.2	5
12.2.5	6
12.2.6	7
12.2.7	8
12.2.8	9
12.2.9	10
12.3.1	11
12.3.3	12
12.3.3c	13
12.3.5	14
12.3.5a	15
12.3.7	16
12.3.8	17
12.3.11	18
12.3.12	19
12.5.2x1	20
12.5.3	21
12.5.4	22
12.5.6	
12.5.6a	
12.5.7	25
12.5.13	
12.8.13	
12.8.16	28
12.8.17	
12.8.21	
12.8.24	
12.8.25	
12.9-10.2	
12.9-10.4	
12.9-10.6	
12.9-10.7	
12.9-10.11	
12.9-10.15	
12.9-10.16	
12.9-10.17a	
12.9-10.17b	
12.9-10.17c	
12.9-10.17d	
12.9-10.19	
12.9-10.19a	

12.11.3	46
12.11.5a	
12.11.6	48
12.11.7	49
12.11.11	50
12.11.23	
12.12.12	52
12.12.15	53

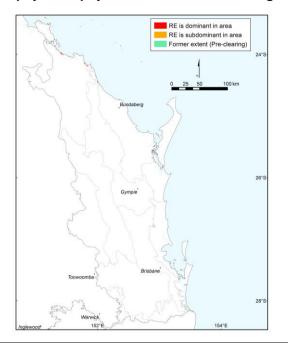
Notophyll vine forest on parabolic high dunes





BioCo	ndition attribute		Benchmark
Recruit	ment of dominant	canopy species (%):	100
Native p	olant species richr	ness: Tree:	44
_	-	Shrub:	7
		Grass:	0
		Forbs and other:	36
Trees:	Tree canopy	Tree canopy median height (m):	28
		Tree canopy cover (%):	74
	Tree sub-canopy	Tree sub-canopy median height (m):	na
		Tree sub-canopy cover (%):	na
	Large trees	Large eucalypt tree dbh threshold (cm):	na
		Number of large eucalypt trees per hectare:	na
		Large non-eucalypt tree dbh threshold (cm):	45
		Number of large non-eucalypt trees per hectare:	61
		: Syzygium luehmannii (riberry), Agathis robusta (kauri pine), Acmena hemila nald's laurel), Lophostemon confertus (brush box)	ampra, Cryptocarya
Shrubs	:	Native shrub cover (%):	31
	Typical shrub specie pepperbush)	es: Neolitsea dealbata (white bolly gum), Eupomatia laurina (bolwarra), Tasm	annia insipida (brush
Ground	l cover (%):	Native perennial grass cover (%):	0
		Organic litter cover (%):	79
	Typical ground cove	r species: Pseuderanthemum variabile (pastel flower), Aneilema acuminatun	n (slug herb)
Coarse	woody debris: Tota	al length (m) of debris ≥ 10cm diameter and ≥0.5m in length per hectare:	817
Non-na	tive plant cover		0
	None listed		

Microphyll/notophyll vine forest on beach ridges





BioCo	ndition attribute	Beno	hmark
Recruit	ment of dominant	t canopy species (%):	100
Native	plant species rich	ness: Tree:	11
		Shrub:	15
		Grass:	1
		Forbs and other:	11
Trees:	Emergent canopy	Tree emergent canopy median height (m):	na
		Tree emergent canopy cover (%):	na
	Tree canopy	Tree canopy median height (m):	10
		Tree canopy cover (%):	87
	Tree sub-canopy	Tree sub-canopy median height (m):	na
		Tree sub-canopy cover (%):	na
	Large trees	Large eucalypt tree dbh threshold (cm):	na
		Number of large eucalypt trees per hectare:	na
		Large non-eucalypt tree dbh threshold (cm):	18
		Number of large non-eucalypt trees per hectare:	257
	Typical tree specie coriaceus, Elaeoca	s: Cupaniopsis anacardioides (tuckeroo), Acronychia imperforata, Flindersia schottiana, Alectryon arpus obovatus	
Shrubs	:	Native shrub cover (%):	49
	Typical shrub spec	ies: Breynia oblongifolia, Alchornea ilicifolia, Fitzalania bidwillii, Psychotria loniceroides	
Ground	l cover (%):	Native perennial grass cover (%):	0
		Organic litter cover (%):	1
	Typical ground cove	er species: Ottochloa gracillima, Commelina lanceolata, Dianella congesta, Embelia australiana	
Coarse	woody debris: To	tal length (m) of debris ≥ 10cm diameter and ≥0.5m in length per hectare	567
Non-na	tive plant cover		0
	Typical non-native passion flower), Riv	species: Baccharis halmifolia, Megathyrsus maximus, Asparagus aethiopicus, Passiflora suberosa vina humilis	ı (corky
Benchm		ference sites and a technical description based on 4 Benchmark reliability ranking:	moderate

Selected typical species are those that characterize the ecosystem, community or stratum at reference sites. Up to five frequently occurring species for each stratum are selected. Shrub and ground strata may contain recruiting canopy species. 'Eucalypt' refers to species belonging to the genera Eucalyptus, Corymbia, Angophora, Lophostemon and Syncarpia. Users should refer to regional ecosystem technical descriptions for more complete lists of characteristic species. Common names can differ between regions. Declared pest species in Queensland are designated (^).

checked CorVeg sites and expert opinion.

Corymbia intermedia +/- Lophostemon confertus +/- Banksia spp. +/- Callitris columellaris openforest on beach ridges usually in southern half of bioregion



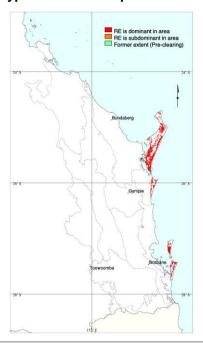


BioCo	ndition attribute	В	enchmark
Recruit	ment of dominant	canopy species (%):	100
Native	plant species richn	ess: Tree:	6
•	•	Shrub:	9
		Grass:	8
		Forbs and other:	10
Trees:	Tree canopy	Tree canopy median height (m):	15
		Tree canopy cover (%):	80
	Tree sub-canopy	Tree sub-canopy median height (m):	6
		Tree sub-canopy cover (%):	17
	Large trees	Large eucalypt tree dbh threshold (cm):	40
		Number of large eucalypt trees per hectare:	29
		Large non-eucalypt tree dbh threshold (cm):	33
		Number of large non-eucalypt trees per hectare:	45
	Typical tree species: (white cypress pine)	Corymbia intermedia (pink bloodwood), Lophostemon confertus (brush box), Ca	allitris columellaris
Shrubs	:	Native shrub cover (%):	15
	Typical shrub specie subsp. disparrima (s	s: Alphitonia excelsa (soap tree), Monotoca sp. (Fraser Island P.Baxter 777), Acouthern salwood)	acia disparrima
Ground	l cover (%):	Native perennial grass cover (%):	12
		Organic litter cover (%):	75
		r species: Themeda triandra (kangaroo grass), Lomandra longifolia (spiny mat ru n bracken), Dianella caerulea var. vannata	sh), Pteridium
Coarse	woody debris: Tota	al length (m) of debris ≥ 10cm diameter and ≥0.5m in length per hectare:	673
Non-na	tive plant cover		0
	Typical non-native sp	pecies: Lantana camara^, Opuntia stricta^ (smooth pest pear), Passiflora subero	sa^ (corky passion

Selected typical species are those that characterize the ecosystem, community or stratum at reference sites. Up to five frequently occurring species for each stratum are selected. Users should refer to the regional ecosystem description database (REDD) and/or the technical description for more complete lists of characteristic species. Only the most frequently used common name is given. Other common names may be used in other regions. Declared pest species in Queensland are designated (^).

flower), Ageratum houstonianum (blue billygoat weed), Asparagus africanus^ (asparagus fern)

Eucalyptus racemosa open-forest on dunes and sand plains. Usually deeply leached soils





BioCo	ndition attribute			Benchmark
Recruit	ment of dominant	canopy species (%):		100
Native	plant species richn	ess:	Tree:	9
•	•		Shrub:	16
			Grass:	2
			Forbs and other:	13
Trees:	Tree canopy	Tree canopy median he	eight (m):	16
		Tree canopy cover (%):		64
	Tree sub-canopy	Tree sub-canopy media	n height (m):	na
		Tree sub-canopy cover	(%):	na
	Large trees	Large eucalypt tree dbh	threshold (cm):	53
		Number of large eucaly	pt trees per hectare:	34
		Large non-eucalypt tree	e dbh threshold (cm):	28
		Number of large non-eu	calypt trees per hectare:	24
	Typical tree species: leiocarpa (rusty gum	` `	ibbly gum), Corymbia intermedia (pink bloodwood	d), Angophora
Shrubs	:	Native shrub cover (%):		26
		s: Leucopogon pimeleoides sp. (Fraser Island P.Baxter	s (beard heath), Acacia disparrima subsp. disparr r 777)	rima (southern
Ground	l cover (%):	Native perennial grass	cover (%):	4
		Organic litter cover (%):	:	71
			a (kangaroo grass), Eriachne pallescens (wander folius (wombat berry), Dianella caerulea (blueberi	
Coarse	woody debris: Tota	al length (m) of debris ≥ 10c	cm diameter and ≥0.5m in length per hectare:	138
Non-na	tive plant cover			0
	None listed			

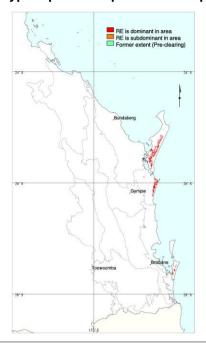
Melaleuca quinquenervia or rarely M. dealbata open forest on sand plains





	~~	15th		
BioCo	ndition attribute		1	Benchmark
Recruit	ment of dominant	canopy species (%):		100
Native	plant species rich	ness:	Tree:	3
•	•		Shrub:	4
			Grass:	3
			Forbs and other:	12
Trees:	Emergent canopy	Tree emergent canopy me	edian height (m):	na
		Tree emergent canopy co	ver (%):	na
	Tree canopy	Tree canopy median heigh	nt (m):	14
		Tree canopy cover (%):		60
	Tree sub-canopy	Tree sub-canopy median	neight (m):	8
		Tree sub-canopy cover (%	5):	20
	Large trees	Large eucalypt tree dbh th	reshold (cm):	50
		Number of large eucalypt	trees per hectare:	5
		Large non-eucalypt tree d	bh threshold (cm):	30
		Number of large non-euca	lypt trees per hectare:	120
		: Melaleuca quinquenervia (sveolens (swamp box), Corymbia	vamp paperbark), Eucalyptus tereticornis, Eucalyptus robusta, a intermedia (pink bloodwood)	
Shrubs	:	Native shrub cover (%):		15
		es: Acacia leiocalyx, Acacia di num, Alphitonia excelsa	sparrima subsp. disparrima, Melaleuca quinquenervia (swamp	paperbark),
Ground	l cover (%):	Native perennial grass co	ver (%):	15
		Organic litter cover (%):		30
		r species: Imperata cylindrica asia marginata, Blechnum ind	(blady grass), Themeda triandra (kangaroo grass), Paspalum icum (swamp water fern)	
Coarse	woody debris: Tot	al length (m) of debris ≥ 10cm	diameter and ≥0.5m in length per hectare:	900
Non-na	tive plant cover			0
	Typical non-native s	pecies: Lantana camara^ (lan	tana), Baccharis halimifolia^ (groundsel bush)	
Benchm	ark based on: 46 C	orveg sites and expert opinion	Benchmark reliability ranking:	high

Eucalyptus pilularis open-forest on parabolic high dunes





BioCo	ndition attribute	В	enchmark
Recruit	ment of dominant	canopy species (%):	100
Native	plant species richr	ness: Tree:	10
	· •	Shrub:	19
		Grass:	1
		Forbs and other:	16
Trees:	Tree canopy	Tree canopy median height (m):	22
		Tree canopy cover (%):	83
	Tree sub-canopy	Tree sub-canopy median height (m):	na
		Tree sub-canopy cover (%):	na
	Large trees	Large eucalypt tree dbh threshold (cm):	67
		Number of large eucalypt trees per hectare:	29
		Large non-eucalypt tree dbh threshold (cm):	31
		Number of large non-eucalypt trees per hectare:	28
	Typical tree species (forest oak)	: Eucalyptus pilularis (blackbutt), Corymbia intermedia (pink bloodwood), Allocas	uarina torulosa
Shrubs	:	Native shrub cover (%):	26
	Typical shrub specie dulcis (midgen berry	es: Banksia serrata (red honeysuckle), Monotoca sp. (Fraser Island P.Baxter 777), Austromyrtus
Ground	l cover (%):	Native perennial grass cover (%):	0
		Organic litter cover (%):	86
		r species: Themeda triandra (kangaroo grass), Alloteropsis semialata (cockatoo en bracken), Eustrephus latifolius (wombat berry)	grass), Pteridium
Coarse	woody debris: Tota	al length (m) of debris ≥ 10cm diameter and ≥0.5m in length per hectare:	540
Non-na	tive plant cover		0
	None listed		

None listed

Banksia aemula low open-woodland on dunes and sand plains. Usually deeply leached soils





BioCo	ndition attribute		Benchmark
Recruit	ment of dominant	canopy species (%):	100
Native plant species richness: Tree:		3	
		Shrub:	20
		Grass:	0
		Forbs and other:	4
Trees:	Tree canopy	Tree canopy median height (m):	8
		Tree canopy cover (%):	6
	Tree sub-canopy	Tree sub-canopy median height (m):	na
		Tree sub-canopy cover (%):	na
	Large trees	Large eucalypt tree dbh threshold (cm):	48
		Number of large eucalypt trees per hectare:	12
		Large non-eucalypt tree dbh threshold (cm):	14
		Number of large non-eucalypt trees per hectare:	2
	Typical tree species (woolly tea-tree)	: Banksia aemula (wallum banksia), Eucalyptus racemosa (scribbly gum), Le	eptospermum trinervium
Shrubs	:	Native shrub cover (%):	19
	Typical shrub specie heath)	es: Dillwynia floribunda (showy parrot pea), Woollsia pungens, Leucopogon I	eptospermoides (beard
Ground	l cover (%):	Native perennial grass cover (%):	0
		Organic litter cover (%):	47
		r species: Xanthorrhoea johnsonii (forest grasstree), Patersonia sericea, Co Caustis recurvata (curly wigs)	leocarya gracilis,
Coarse	woody debris: Tota	al length (m) of debris ≥ 10cm diameter and ≥0.5m in length per hectare:	103
Non-na	tive plant cover		0

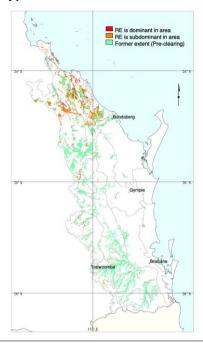
Gallery rainforest (notophyll vine forest) on alluvial plains





BioCondition attribute		Ве	nchmark
Recruitment of dominant	canopy species (%):		100
Native plant species rich	ness: Tree:		13
	Shrub:		15
	Grass:		1
	Forbs and other:		16
Trees: Emergent canopy	Tree emergent canopy median height (m):		na
	Tree emergent canopy cover (%):		na
Tree canopy	Tree canopy median height (m):		20
	Tree canopy cover (%):		70
Tree sub-canopy	Tree sub-canopy median height (m):		9
	Tree sub-canopy cover (%):		35
Large trees	Large eucalypt tree dbh threshold (cm):		na
	Number of large eucalypt trees per hectare:		na
	Large non-eucalypt tree dbh threshold (cm):		33
	Number of large non-eucalypt trees per hectare:		148
	s: Syzygium luehmannii, Castanospermum australe, C ınninghamiana (piccabeen palm), Waterhousea floribu		el),
Shrubs:	Native shrub cover (%):		20
Typical shrub speci	es: Pittosporum revolutum, Alyxia ruscifolia, Cordyline	rubra	
Ground cover (%):	Native perennial grass cover (%):		1
	Organic litter cover (%):		36
Typical ground cove Lomandra hystrix	er species: Oplismenus aemulus (creeping shade gras	s), Pseuderanthemum variabile (pastel flo	wer),
Coarse woody debris: Tot	al length (m) of debris ≥ 10cm diameter and ≥0.5m in	length per hectare:	236
Non-native plant cover			0
,,	species: Cinnamomum camphora, Macfadyena unguis glabrata (Easter cassia)	s-cati, Lantana camara^ (lantana), Ageratir	na riparia,
Benchmark based on: 3 ref	erence sites, 11 Corveg sites and expert opinion	Benchmark reliability ranking:	High

Eucalyptus tereticornis woodland on Quaternary alluvium





BioCo	ndition attribute		Benchmark
Recruit	ment of dominant	canopy species (%):	100
Native plant species richness: Tree:		ness: Tree:	5
		Shrub:	4
		Grass:	11
		Forbs and other:	24
Trees:	Tree canopy	Tree canopy median height (m):	27
		Tree canopy cover (%):	53
	Tree sub-canopy	Tree sub-canopy median height (m):	12
		Tree sub-canopy cover (%):	9
	Large trees	Large eucalypt tree dbh threshold (cm):	47
		Number of large eucalypt trees per hectare:	24
		Large non-eucalypt tree dbh threshold (cm):	na
		Number of large non-eucalypt trees per hectare:	na
		Eucalyptus tereticornis (blue gum), Angophora subvelutina (broad-leaved a box), Allocasuarina torulosa (forest oak)	pple), Lophostemon
Shrubs	:	Native shrub cover (%):	1
	Typical shrub specie	s: Acacia disparrima subsp. disparrima (southern salwood), Acacia maidenii	(Maiden's wattle)
Ground	l cover (%):	Native perennial grass cover (%):	47
		Organic litter cover (%):	34
		r species: Themeda triandra (kangaroo grass), Heteropogon contortus (black n (common bracken), Imperata cylindrica (blady grass), Cymbopogon refract	
Coarse	woody debris: Tota	al length (m) of debris ≥ 10cm diameter and ≥0.5m in length per hectare:	445
Non-na	tive plant cover		0

Selected typical species are those that characterize the ecosystem, community or stratum at reference sites. Up to five frequently occurring species for each stratum are selected. Users should refer to the regional ecosystem description database (REDD) and/or the technical description for more complete lists of characteristic species. Only the most frequently used common name is given. Other common names may be used in other regions. Declared pest species in Queensland are designated (^).

Typical non-native species: Opuntia stricta[^] (smooth pest pear), Lantana camara[^], Cyanthillium cinereum (vernonia)

Melaleuca irbyana low open-forest on alluvial plains





BioCondition attribute				Benchmark
Recruit	ment of dominant	canopy species (%):		100
Native p	olant species richn	ess:	Tree:	2
			Shrub:	5
			Grass:	15
			Forbs and other:	27
Trees:	Emergent	Emergent canopy medi	an height (m):	21
		Emergent canopy cover	nergent canopy cover (%):	
	Tree canopy	Tree canopy median he	eight (m):	9
		Tree canopy cover (%):		70
	Tree sub-canopy	Tree sub-canopy media	n height (m):	na
		Tree sub-canopy cover	(%):	na
	Large trees	Large eucalypt tree dbh	threshold (cm):	36
		Number of large eucaly	pt trees per hectare:	10
		Large non-eucalypt tree	e dbh threshold (cm):	25
		98		

Typical tree species: Melaleuca irbyana (bush house paperbark), Eucalyptus moluccana (gum-topped box), Eucalyptus melanophloia (silver-leaved ironbark), Eucalyptus tereticornis (blue gum), Eucalyptus crebra (narrow-leaved red ironbark)

Shrubs: Native shrub cover (%):

Typical shrub species: Melaleuca irbyana (bush house paperbark), Acacia maidenii (Maiden's wattle), Acacia concurrens (curracabah), Acacia leiocalyx subsp. leiocalyx (early-flowering black wattle), Alphitonia excelsa (soap tree)

Ground cover (%):

Native perennial grass cover (%):

Organic litter cover (%):

22

Typical ground cover species: Fimbristylis bisumbellata, Leptochloa decipiens (slender canegrass), Cyperus trinervis, Cymbopogan refractus, Scleria mackaviensis

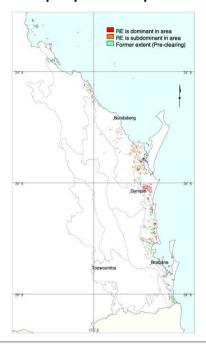
Coarse woody debris: Total length (m) of debris ≥ 10cm diameter and ≥0.5m in length per hectare: 360

Non-native plant cover

Typical non-native species: Echinochloa colona (awnless barnyard grass), Bryophyllum spp., Opuntia stricta^ (smooth pest pear), Megathyrsus maximus (guinea grass), Baccharis halimifolia (groundsel bush)

None listed

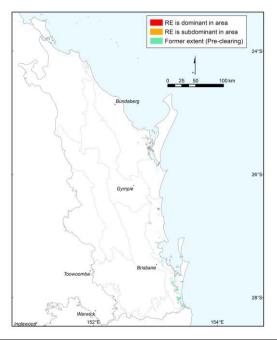
Melaleuca quinquenervia open-forest on coastal alluvium





BioCondition attribute Ben						
Recruit	Recruitment of dominant canopy species (%):					
Native	plant species richn	ness: Tree:	2			
	-	Shrub:	1			
		Grass:	4			
		Forbs and other:	15			
Trees:	Tree canopy	Tree canopy median height (m):	14			
		Tree canopy cover (%):	96			
	Tree sub-canopy	Tree sub-canopy median height (m):	na			
	Tree sub-canopy cover (%):		na			
	Large trees	Large eucalypt tree dbh threshold (cm):	na			
		Number of large eucalypt trees per hectare:	na			
		Large non-eucalypt tree dbh threshold (cm):	33			
		Number of large non-eucalypt trees per hectare:	168			
	Typical tree species: tereticornis (blue gur	: Melaleuca quinquenervia (swamp paperbark), Lophostemon suaveolens (swam)	amp box), Eucalyptus			
Shrubs	:	Native shrub cover (%):	1			
	Typical shrub specie Alphitonia excelsa (s	es: Melaleuca quinquenervia (swamp paperbark), Lophostemon suaveolens (s soap tree)	wamp box),			
Ground	l cover (%):	Native perennial grass cover (%):	2			
		Organic litter cover (%):	20			
Typical ground cover species: Leersia hexandra (swamp rice grass), Imperata cylindrica (blady grass), Gahnia clarkei (tall sawsedge), Blechnum indicum (swamp water fern), Lepironia articulata						
Coarse	Coarse woody debris: Total length (m) of debris ≥ 10cm diameter and ≥0.5m in length per hectare: 898					
Non-na	Non-native plant cover 0					

Melaleuca quinquenervia, Casuarina glauca +/- Eucalyptus tereticornis open forest on lowest river terraces



BioCo	ndition attribute		Bench	mark		
Recruit	Recruitment of dominant canopy species (%):					
Native	plant species richn	ess:	Tree:	3		
• •			Shrub:	3		
			Grass:	3		
			Forbs and other:	8		
Trees:	Emergent canopy	Tree emergent canopy i	median height (m):	na		
		Tree emergent canopy	cover (%):	na		
	Tree canopy	Tree canopy median he	ight (m):	16		
		Tree canopy cover (%):		80		
	Tree sub-canopy	Tree sub-canopy media	n height (m):	8		
		Tree sub-canopy cover	(%):	10		
	Large trees	Large eucalypt tree dbh	threshold (cm):	30		
		Number of large eucaly	pt trees per hectare:	10		
		Large non-eucalypt tree	edbh threshold (cm):	33		
		Number of large non-eu	icalypt trees per hectare:	168		
			(swamp paperbark), Casuarina glauca, Eucalyptus tereticornis (forest red Eucalyptus exserta (Queensland peppermint)	d		
Shrubs	:	Native shrub cover (%):		10		
		s: Casuarina glauca, Gloch roo), Jagera pseudorhus	nidion ferdinandi, Acacia disparrima subsp. disparrima, Cupaniopsis			
Ground	l cover (%):	Native perennial grass of	cover (%):	5		
		Organic litter cover (%):		28		
	Typical ground cover species: Cynodon dactylon, Phragmites australis, Imperata cylindrica (blady grass), Cyperus polystachyos, Parsonsia staminea					
Coarse	woody debris: Tota	I length (m) of debris ≥ 10c	cm diameter and ≥0.5m in length per hectare	898		
Non-na	tive plant cover			0		
	Typical non-native s flower)	pecies: Lantana camara^, E	Baccharis halimifolia^ (groundsel bush), Passiflora suberosa (corky pass	ion		

Selected typical species are those that characterize the ecosystem, community or stratum at reference sites. Up to five frequently occurring species for each stratum are selected. Shrub and ground strata may contain recruiting canopy species. 'Eucalypt' refers to species belonging to the genera Eucalyptus, Corymbia, Angophora, Lophostemon and Syncarpia. Users should refer to regional ecosystem technical descriptions for more complete lists of characteristic species. Common names can differ between regions.

Benchmark based on: 14 Corveg sites, a technical description and a similar

Declared pest species in Queensland are designated (^).

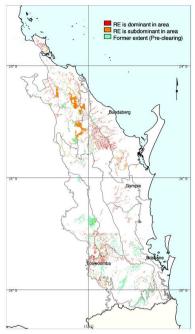
RE's benchmark and expert opinion

4/09/2015

moderate

Benchmark reliability ranking:

Eucalyptus tereticornis, Casuarina cunninghamiana subsp. cunninghamiana \pm Melaleuca spp. fringing woodland



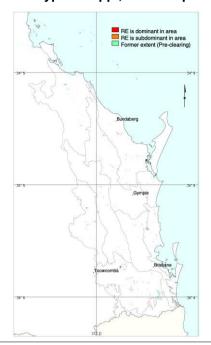


BioCo	ndition attribute			Benchmark
Recruitment of dominant canopy species (%):				
Native p	olant species richn	ess:	Tree:	10
•	•		Shrub:	10
			Grass:	7
			Forbs and other:	30
Trees:	Emergent canopy	Tree emergent ca	anopy median height (m):	na
		Tree emergent ca	anopy cover (%):	na
	Tree canopy	Tree canopy med	lian height (m):	16
		Tree canopy cove	er (%):	30
	Tree sub-canopy	Tree sub-canopy	median height (m):	11
		Tree sub-canopy	cover (%):	30
	Large trees	Large eucalypt tre	ee dbh threshold (cm):	53
		Number of large	eucalypt trees per hectare:	1
		Large non-eucaly	pt tree dbh threshold (cm):	23
		Number of large i	non-eucalypt trees per hectare:	220
	Typical tree species	: Eucalyptus tereticor	nis, Melaleuca viminalis, Casuarina cunninghamiana, Waterhou	usea floribunda
Shrubs	:	Native shrub cove	er (%):	18
	Typical shrub specie	es: Pittosporum revolu	utum, Breynia oblongifolia, Mallotus philippensis	
Ground	cover (%):	Native perennial	grass cover (%):	1
		Organic litter cove	er (%):	54
	Typical ground cove	r species: Lomandra	hystrix, Oplismenus aemulus (creeping shade grass), Viola hed	leracea
Coarse	woody debris: Tota	al length (m) of debris	s ≥ 10cm diameter and ≥0.5m in length per hectare:	667
Non-na	tive plant cover			0
	<u>-</u>	pecies: Celtis sinens	is, Macfadyena unguis-cati, Lantana camara^ (lantana), Digitari	a didactyla, Bidens

Benchmark based on: 1 reference site, a technical description and expert opinion Benchmark reliability ranking:

Moderate

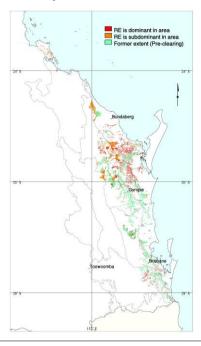
Swamps with Cyperus spp., Schoenoplectus spp. and Eleocharis spp.





BioCo	ndition attrik	bute Benci	hmark	
Recruit	ment of domi	inant canopy species (%):	na	
Native	plant species	richness: Tree:	0	
		Shrub:	0	
		Grass:	1	
		Forbs and other:	5	
Trees:	Emergent can	opy Tree emergent canopy median height (m):	na	
		Tree emergent canopy cover (%):	na	
	Tree canopy	Tree canopy median height (m):	na	
		Tree canopy cover (%):	na	
	Tree sub-cand	ppy Tree sub-canopy median height (m):	na	
		Tree sub-canopy cover (%):	na	
	Large trees	Large eucalypt tree dbh threshold (cm):	na	
		Number of large eucalypt trees per hectare:	na	
		Large non-eucalypt tree dbh threshold (cm):	na	
		Number of large non-eucalypt trees per hectare:	na	
Shrubs	:	Native shrub cover (%):	na	
Ground	l cover (%):	Native perennial grass cover (%):	20	
		Organic litter cover (%):	1	
	Typical ground rice grass)	d cover species: Cyperus spp., Eleocharis spp., Persicaria spp., Juncus spp., Leersia hexandra (swa	amp	
Coarse	woody debris	s: Total length (m) of debris ≥ 10cm diameter and ≥0.5m in length per hectare:	na	
Non-na	tive plant cov	ver	0	
Typical non-native species: Eichhornia crassipes (water hyacinth), Phyla canescens, Salvinia molesta (salvinia), Hydrocotyle bonariensis (pennywort), Urochloa mutica (para grass)				
Benchm	Benchmark based on: 4 reference sites, 2 Corveg sites and expert opinion Benchmark reliability ranking: high			

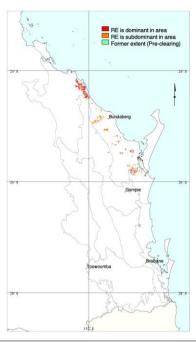
Eucalyptus tereticornis +/- Eucalyptus siderophloia, Corymbia intermedia open-forest on alluvial plains usually near coast





BioCondition attribute Be				Benchmark	
Recruit	Recruitment of dominant canopy species (%):				
Native	olant species richn	ess:	Tree:	7	
-	-		Shrub:	7	
			Grass:	12	
			Forbs and other:	25	
Trees:	Tree canopy	Tree canopy median hei	ight (m):	23	
		Tree canopy cover (%):		56	
	Tree sub-canopy	Tree sub-canopy media	n height (m):	8	
		Tree sub-canopy cover	(%):	33	
	Large trees	Large eucalypt tree dbh	threshold (cm):	49	
		Number of large eucalyp	ot trees per hectare:	22	
		Large non-eucalypt tree	dbh threshold (cm):	36	
		Number of large non-eu	calypt trees per hectare:	8	
	Typical tree species: quinquenervia (swan		ue gum), Eucalyptus siderophloia (red ironbark), Me	elaleuca	
Shrubs	:	Native shrub cover (%):		20	
	Typical shrub specie excelsa (soap tree)	s: Acacia leiocalyx (early flo	owering black wattle), Allocasuarina littoralis (woolly	y oak), Alphitonia	
Ground	l cover (%):	Native perennial grass of	cover (%):	44	
		Organic litter cover (%):		37	
	Typical ground cover species: Themeda triandra (kangaroo grass), Imperata cylindrica (blady grass), Eremochloa bimaculata (poverty grass), Lomandra longifolia (spiny mat rush), Eustrephus latifolius (wombat berry)				
Coarse	woody debris: Tota	I length (m) of debris ≥ 10c	m diameter and ≥0.5m in length per hectare:	555	
Non-na	tive plant cover			0	
	None listed				

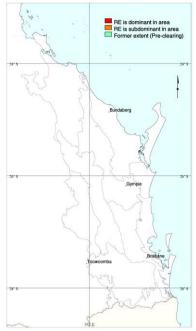
Eucalyptus latisinensis or E. exserta, Melaleuca viridiflora var. viridiflora woodland on alluvial plains





BioCor	Benchmark			
Recruitment of dominant canopy species (%):				
Native p	olant species richn	ness: Tree:	6	
		Shrub:	9	
		Grass:	10	
		Forbs and other:	20	
Trees:	Tree canopy	Tree canopy median height (m):	12	
		Tree canopy cover (%):	53	
	Tree sub-canopy	Tree sub-canopy median height (m):	5	
		Tree sub-canopy cover (%):	12	
	Large trees	Large eucalypt tree dbh threshold (cm):	47	
		Number of large eucalypt trees per hectare:	11	
		Large non-eucalypt tree dbh threshold (cm):	26	
		Number of large non-eucalypt trees per hectare:	64	
		: Melaleuca viridiflora var. viridiflora, Eucalyptus latisinensis, Eucalyptus exsiuca quinquenervia (swamp paperbark), Corymbia intermedia (pink bloodwoo		
Shrubs	<u>:</u>	Native shrub cover (%):	4	
		es: Acacia leiocalyx subsp. leiocalyx (early-flowering black wattle), Acacia dis n salwood), Grevillea banksii (red-flowered silky oak), Xanthorrhoea johnsoni		
Ground	cover (%):	Native perennial grass cover (%):	41	
		Organic litter cover (%):	17	
Typical ground cover species: Themeda triandra (kangaroo grass), Rhynchospora rubra, Schoenus apogon var. apog (fluke bogrush), Scleria rugosa, Xanthorrhoea johnsonii (forest grasstree)				
Coarse woody debris: Total length (m) of debris ≥ 10cm diameter and ≥0.5m in length per hectare:				
Non-na	tive plant cover		0	
	None listed			

Melaleuca irbyana low open-forest on remnant Tertiary surfaces





D: - O -					
RIOCO	ndition attribute	Benchmark			
Recruit	ment of dominant	100			
Native _I	plant species richr	ness:	Tree:	3	
			Shrub:	2	
			Grass:	12	
			Forbs and other:	26	
Trees:	Tree canopy	Tree canopy media	n height (m):	9	
		Tree canopy cover	(%):	74	
	Tree sub-canopy	Tree sub-canopy m	edian height (m):	4	
		Tree sub-canopy co	over (%):	7	
	Large trees	Large eucalypt tree	dbh threshold (cm):	na	
		Number of large eu	calypt trees per hectare:	na	
		Large non-eucalypt	tree dbh threshold (cm):	24	
		Number of large no	n-eucalypt trees per hectare:	105	
			sh house paperbark), Eucalyptus crebra (narro tus moluccana (gum-topped box), Corymbia c		
Charles	_		(0.1)	_	

Shrubs: Native shrub cover (%):

Typical shrub species: Alphitonia excelsa (soap tree), Alstonia constricta (bitterbark), Melaleuca irbyana (bush house paperbark), Acacia concurrens (curracabah)

Ground cover (%): Native perennial grass cover (%):

Organic litter cover (%):

Typical ground cover species: Paspalidium distans (shotgrass), Themeda triandra (kangaroo grass), Enteropogon unispiceus, Digitaria breviglumis, Bothriochloa decipiens (pitted bluegrass)

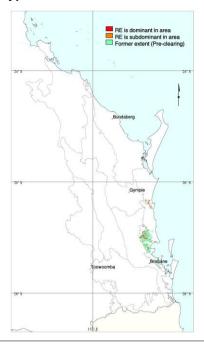
Coarse woody debris: Total length (m) of debris ≥ 10cm diameter and ≥0.5m in length per hectare: 223

Non-native plant cover 0

Typical non-native species: Megathyrsus maximus (guinea grass), Bryophyllum spp., Lantana camara^, Lantana montevidensis (creeping lantana)

None listed

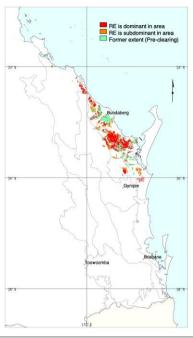
Eucalyptus racemosa woodland on remnant Tertiary surfaces





BioCondition attribute Benchm					
Recruit	Recruitment of dominant canopy species (%):				
Native	ness: Tree:	5			
		Shrub:	6		
		Grass:	5		
		Forbs and other:	13		
Trees:	Tree canopy	Tree canopy median height (m):	24		
		Tree canopy cover (%):	62		
	Tree sub-canopy	Tree sub-canopy median height (m):	8		
		Tree sub-canopy cover (%):	33		
	Large trees	Large eucalypt tree dbh threshold (cm):	51		
		Number of large eucalypt trees per hectare:	25		
		Large non-eucalypt tree dbh threshold (cm):	na		
		Number of large non-eucalypt trees per hectare:	na		
		: Eucalyptus racemosa (scribbly gum), Corymbia intermedia (pink bloodwood), Corymbidwood), Lophostemon confertus (brush box), Angophora woodsiana (smudgee)	ia		
Shrubs	:	Native shrub cover (%):	27		
		es: Alphitonia excelsa (soap tree), Acacia disparrima subsp. disparrima (southern salwo Persoonia stradbrokensis, Banksia integrifolia	ood),		
Ground	l cover (%):	Native perennial grass cover (%):	15		
		Organic litter cover (%):	67		
	Typical ground cover species: Themeda triandra (kangaroo grass), Entolasia stricta (wiry panic), Xanthorrhoea latifolia, Lepidosperma laterale (broad sword sedge), Pteridium esculentum (common bracken)				
Coarse	Coarse woody debris: Total length (m) of debris ≥ 10cm diameter and ≥0.5m in length per hectare: 432				
Non-na	tive plant cover		0		

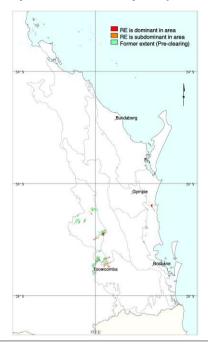
Eucalyptus spp., Corymbia spp., Melaleuca spp. woodland on complex of remnant Tertiary surfaces and Cainozoic and Mesozoic sediments





BioCo	ndition attribute		Benchmark
Recruit	ment of dominant	canopy species (%):	100
Native _I	plant species richr	ness: Tree:	6
		Shrub:	14
		Grass:	10
		Forbs and other:	20
Trees:	Tree canopy	Tree canopy median height (m):	15
		Tree canopy cover (%):	57
	Tree sub-canopy	Tree sub-canopy median height (m):	na
		Tree sub-canopy cover (%):	na
	Large trees	Large eucalypt tree dbh threshold (cm):	41
		Number of large eucalypt trees per hectare:	24
		Large non-eucalypt tree dbh threshold (cm):	
		Number of large non-eucalypt trees per hectare:	4
	Typical tree species bloodwood)	: Angophora leiocarpa (rusty gum), Eucalyptus latisinensis, Corymbia trachyp	ohloia (yellow
Shrubs	:	Native shrub cover (%):	14
	• • • • • • • • • • • • • • • • • • • •	es: Acrotriche aggregata (red cluster heath), Acacia leiocalyx (early flowering (prickly broom heath)	black wattle),
Ground	l cover (%):	Native perennial grass cover (%):	29
		Organic litter cover (%):	41
		r species: Themeda triandra (kangaroo grass), Alloteropsis semialata (cocka lata (poverty grass), Xanthorrhoea johnsonii (forest grasstree), Gompholobium	
Coarse	woody debris: Tota	al length (m) of debris ≥ 10cm diameter and ≥0.5m in length per hectare:	415
Non-na	tive plant cover		0
	None listed		

Eucalyptus siderophloia, E. propinqua, E. microcorys and/or E. pilularis open-forest on remnant Tertiary surfaces. Usually deep red soils



Typical non-native species: Lantana camara^



BioCo	Benchmark			
Recruit	100			
Native	12			
		Shrub:	11	
		Grass:	1	
		Forbs and other:	9	
Trees:	rees: Tree canopy Tree canopy median height (m):			
		Tree canopy cover (%):	91	
	Tree sub-canopy median height (m): Tree sub-canopy cover (%):		na	
			na	
	Large trees	Large eucalypt tree dbh threshold (cm):	61	
		Number of large eucalypt trees per hectare:	26	
		Large non-eucalypt tree dbh threshold (cm):	26	
		Number of large non-eucalypt trees per hectare:	30	
		Eucalyptus saligna, Eucalyptus pilularis (blackbutt), Eucalyptus microcorys (ta oia (red ironbark), Eucalyptus propinqua (small-fruited grey gum)	llow wood),	
Shrubs	:	Native shrub cover (%):	25	
Ground cover (%): Native		Native perennial grass cover (%):	0	
		Organic litter cover (%):	78	
Coarse woody debris: Total length (m) of debris ≥ 10cm diameter and ≥0.5m in length per hectare:				
Non-na	0			

Eucalyptus saligna or E. grandis open-forest, often with vine forest understorey on remnant Tertiary surfaces. Usually deep red soils

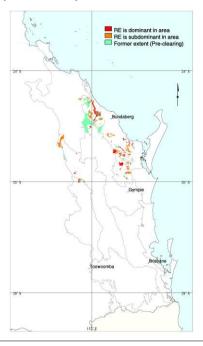


Typical non-native species: Lantana camara^



BioCo	ndition attribute		Benchmark
		canopy species (%):	100
	plant species richr	., ,	11
Native	piant species richi	Shrub:	9
		Grass:	3
		Forbs and other:	24
Trees:	Tree canopy	Tree canopy median height (m):	31
		Tree canopy cover (%):	85
	Tree sub-canopy	Tree sub-canopy median height (m):	na
		Tree sub-canopy cover (%):	na
	Large trees	Large eucalypt tree dbh threshold (cm):	56
		Number of large eucalypt trees per hectare:	32
		Large non-eucalypt tree dbh threshold (cm):	29
		Number of large non-eucalypt trees per hectare:	6
		Eucalyptus pilularis (blackbutt), Eucalyptus saligna, Eucalyptus montivaga, yptus eugenioides (thin-leaved stringybark)	Eucalyptus microcorys
Shrubs	:	Native shrub cover (%):	25
Ground	l cover (%):	Native perennial grass cover (%):	31
		Organic litter cover (%):	45
Coarse	woody debris: Tota	al length (m) of debris ≥ 10cm diameter and ≥0.5m in length per hectare:	447
Non-na	tive plant cover		0

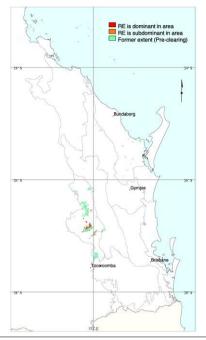
Corymbia citriodora subsp. variegata +/- Eucalyptus portuensis or E. acmenoides, E. fibrosa subsp. fibrosa open-forest on remnant Tertiary surfaces. Usually deep red soils





BioCondition attribute Bo					
Recruit	Recruitment of dominant canopy species (%):				
Native	Native plant species richness: Tree:				
		Shrub:	8		
		Grass:	12		
		Forbs and other:	14		
Trees:	Tree canopy	Tree canopy median height (m):	27		
		Tree canopy cover (%):	71		
	Tree sub-canopy	Tree sub-canopy median height (m):	8		
		Tree sub-canopy cover (%):	22		
	Large trees	Large eucalypt tree dbh threshold (cm):	47		
		Number of large eucalypt trees per hectare:	65		
		Large non-eucalypt tree dbh threshold (cm):	na		
		Number of large non-eucalypt trees per hectare:	na		
		: Corymbia citriodora subsp. variegata (spotted gum), Eucalyptus fibrosa subs s portuensis, Corymbia intermedia (pink bloodwood), Eucalyptus exserta (Qu			
Shrubs	:	Native shrub cover (%):	17		
		es: Acacia leiocalyx subsp. leiocalyx (early-flowering black wattle), Acacia disp n salwood), Jacksonia scoparia (native broom), Alphitonia excelsa	oarrima subsp.		
Ground	l cover (%):	Native perennial grass cover (%):	23		
		Organic litter cover (%):	48		
Typical ground cover species: Themeda triandra (kangaroo grass), Cymbopogon refractus (barbed-wire grass), Pultenaea spinosa, Chrysopogon fallax (golden beardgrass), Eremochloa bimaculata (poverty grass)					
Coarse woody debris: Total length (m) of debris ≥ 10cm diameter and ≥0.5m in length per hectare: 280					
Non-na	tive plant cover		0		
	None listed				

Microphyll to notophyll vine forest +/- Araucaria cunninghamii on remnant Tertiary surfaces

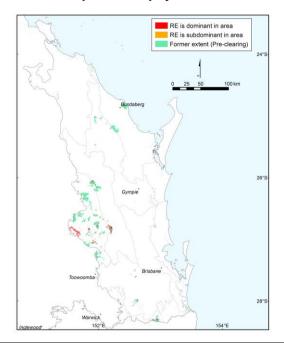




BioCo	BioCondition attribute				
Recruit	Recruitment of dominant canopy species (%):				
Native	olant species richn	ess: Tree:	20		
		Shrub:	17		
		Grass:	1		
		Forbs and other:	12		
Trees:	Tree canopy	Tree canopy median height (m):	23		
		Tree canopy cover (%):	90		
	Tree sub-canopy	Tree sub-canopy median height (m):	8		
	Tree sub-canopy cover (%):		31		
	Large trees Large eucalypt tree dbh threshold (cm):		na		
		Number of large eucalypt trees per hectare:	na		
		Large non-eucalypt tree dbh threshold (cm):	32		
		Number of large non-eucalypt trees per hectare:	100		
		Excoecaria dallachyana (scrub poison tree), Dendrocnide excelsa (giant sti ve), Vitex lignum-vitae (lignum vitae), Brachychiton discolor (white kurrajong			
Shrubs	:	Native shrub cover (%):	31		
Ground cover (%):		Native perennial grass cover (%):	0		
		Organic litter cover (%):	87		
Coarse woody debris: Total length (m) of debris ≥ 10cm diameter and ≥0.5m in length per hectare:					
Non-native plant cover					

Typical non-native species: Lantana camara^

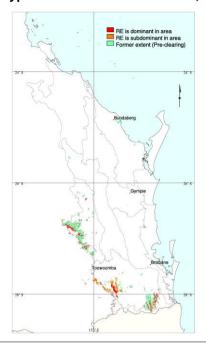
Araucarian complex microphyll vine forest on Cainozoic igneous rocks





BioCo	ndition attribute			Bench	hmark
Recruit	ment of dominant	canopy species (%):			100
Native plant species richness: Tree:					23
			Shrub:		20
			Grass:		1
			Forbs and other:		21
Trees:	Emergent canopy	Tree emergent canopy	/ median height (m):		24
		Tree emergent canopy	y cover (%):		5
	Tree canopy	Tree canopy median h	neight (m):		16
		Tree canopy cover (%):		58
	Tree sub-canopy	Tree sub-canopy med	ian height (m):		8
		Tree sub-canopy cove	er (%):		28
	Large trees	Large eucalypt tree db	h threshold (cm):		na
		Number of large eucal	ypt trees per hectare:		na
		Large non-eucalypt tre	ee dbh threshold (cm):		28
		Number of large non-e	eucalypt trees per hectare	:	55
		: Araucaria cunninghamii, -leaved stinging tree), Rh		pine), Cupaniopsis parvifolia, Dendrocnide (deep yellow wood)	
Shrubs	:	Native shrub cover (%):		17
	Typical shrub specie (brush caper berry)	es: Alchornea ilicifolia, Aly	xia ruscifolia, Argyrodend	ron trifoliolatum, Atalaya salicifolia, Capparis arl	oorea
Ground	l cover (%):	Native perennial grass	s cover (%):		1
		Organic litter cover (%)):		79
	,, ,	r species: Oplismenus aer astreopsis decomposita	mulus (creeping shade gr	ass), Geitonoplesium cymosum, Smilax australi	S,
Coarse	Coarse woody debris: Total length (m) of debris ≥ 10cm diameter and ≥0.5m in length per hectare				614
Non-na	tive plant cover				0
	-	pecies: Lantana camara^			
Benchm	ark based on: 1 refe	erence site, 7 Corveg sites	and expert opinion	Benchmark reliability ranking:	high

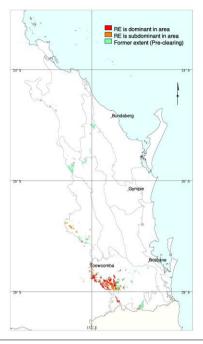
Eucalyptus crebra +/- E. melliodora, E. tereticornis woodland on Cainozoic igneous rocks





BioCondition attribute				Benchmark	
Recruiti	Recruitment of dominant canopy species (%):				
Native p	Native plant species richness: Tree:				
			Shrub:	7	
			Grass:	7	
			Forbs and other:	29	
Trees:	Tree canopy	Tree canopy median heig	ght (m):	20	
		Tree canopy cover (%):		41	
	Tree sub-canopy	Tree sub-canopy median	height (m):	8	
		Tree sub-canopy cover (%):	17	
	Large trees	Large eucalypt tree dbh t	threshold (cm):	41	
		Number of large eucalypt trees per hectare:		32	
		Large non-eucalypt tree of	dbh threshold (cm):	30	
		Number of large non-euc	alypt trees per hectare:	2	
		Eucalyptus crebra (narrow-l , Eucalyptus albens (white	eaved red ironbark), Eucalyptus melliodora (yellobox)	ow box), Eucalyptus	
Shrubs:	1	Native shrub cover (%):		4	
	Typical shrub species	Cassinia laevis (wild roser	mary), Acacia spp., Exocarpos cupressiformis (na	ative cherry)	
Ground	cover (%):	Native perennial grass co	over (%):	45	
		Organic litter cover (%):		21	
	Typical ground cover species: Cymbopogon refractus (barbed-wire grass), Poa labillardierei var. labillardierei (tussock grass), Themeda triandra (kangaroo grass)				
Coarse woody debris: Total length (m) of debris ≥ 10cm diameter and ≥0.5m in length per hectare:				592	
Non-nat	tive plant cover			0	
Typical non-native species: Lantana camara^, Gomphocarpus physocarpus (balloon cottonbush)					

Eucalyptus melanophloia +/- E. crebra, E. tereticornis, Corymbia tessellaris woodland on Cainozoic igneous rocks

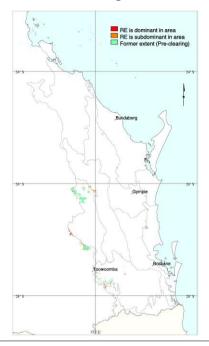




BioCo	ndition attrib	ute Be	nchmark			
Recruit	Recruitment of dominant canopy species (%):					
Native _I	plant species r	chness: Tree:	7			
•	•	Shrub:	5			
		Grass:	12			
		Forbs and other:	27			
Trees:	Emergent cano	y Tree emergent canopy median height (m):	na			
		Tree emergent canopy cover (%):	na			
	Tree canopy	Tree canopy median height (m):	19			
		Tree canopy cover (%):	48			
	Tree sub-canop	y Tree sub-canopy median height (m):	10			
		Tree sub-canopy cover (%):	20			
	Large trees	Large eucalypt tree dbh threshold (cm):	38			
		Number of large eucalypt trees per hectare:	24			
		Large non-eucalypt tree dbh threshold (cm):	na			
		Number of large non-eucalypt trees per hectare:	na			
		cies: Eucalyptus melanophloia (silver-leaved ironbark), Eucalyptus crebra (narrow-leaved red ticornis (blue gum), Corymbia tessellaris (Moreton Bay ash), Corymbia intermedia (pink blood				
Shrubs	:	Native shrub cover (%):	5			
		pecies: Alphitonia excelsa (soap tree), Psydrax odorata (shiny-leaved canthium), Acacia spp., essiformis (native cherry)				
Ground	l cover (%):	Native perennial grass cover (%):	32			
		Organic litter cover (%):	21			
Typical ground cover species: Heteropogon contortus (black speargrass), Cymbopogon refractus (barbed-wire grass), Themeda triandra (kangaroo grass), Bothriochloa decipiens						
Coarse	woody debris	Total length (m) of debris ≥ 10cm diameter and ≥0.5m in length per hectare:	234			
Non-na	Non-native plant cover					
	Typical non-native species: Dichanthium aristatum (angleton grass), Lantana camara^, Passiflora spp., Bidens spp.					
Renchm	Benchmark based on: 3 reference sites, 1 Corveg site and expert opinion Benchmark reliability ranking: moderate					
Dentenin	urk basea off.	Denominar reliability failthing.	moderate			

Selected typical species are those that characterize the ecosystem, community or stratum at reference sites. Up to five frequently occurring species for each stratum are selected. Shrub and ground strata may contain recruiting canopy species. 'Eucalypt' refers to species belonging to the genera Eucalyptus, Corymbia, Angophora, Lophostemon and Syncarpia. Users should refer to regional ecosystem technical descriptions for more complete lists of characteristic species. Common names can differ between regions. Declared pest species in Queensland are designated (^).

Semi-evergreen vine thicket with Brachychiton rupestris on Cainozoic igneous rocks. Usually southern half of bioregion





BioCondition attribute				Benchmark
Recruitment of dominant canopy species (%):				
Native p	olant species richn	ess:	Tree:	16
			Shrub:	13
			Grass:	1
			Forbs and other:	10
Trees:	Tree canopy	Tree canopy median height (m):		13
		Tree canopy cover (%):		47
	Tree sub-canopy	Tree sub-canopy median height (m):		9
Tree sub-canopy cover (%):		(%):	50	
	Large trees Large eucalyp		threshold (cm):	36
		Number of large eucaly	pt trees per hectare:	10
		Large non-eucalypt tree	dbh threshold (cm):	86
		Number of large non-eu	calypt trees per hectare:	20
	Typical tree species:	Eucalyptus orgadophila (m	nountain coolibah), Brachychiton rupestris (bottle	tree)
Shrubs	:	Native shrub cover (%):		49
Ground	cover (%):	Native perennial grass of	cover (%):	8
		Organic litter cover (%):		44
Coarse woody debris: Total length (m) of debris ≥ 10cm diameter and ≥0.5m in length per hectare:				1080
Non-native plant cover				0

Typical non-native species: Opuntia tomentosa^ (velvety tree pear)

Corymbia citriodora subsp. variegata open-forest on Cainozoic igneous rocks especially trachyte



Benchmark based on: 3 reference sites and expert opinion

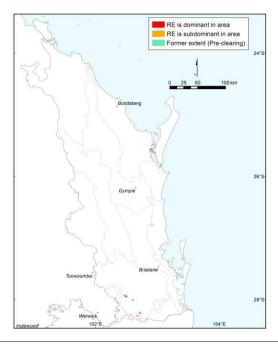


Benchmark reliability ranking: moderate

BioCo	ndition attribute	Benchn	nark		
Recruit	Recruitment of dominant canopy species (%):				
Native p	olant species richr	ness: Tree:	7		
	•	Shrub:	7		
		Grass:	13		
		Forbs and other:	28		
Trees:	Emergent canopy	Tree emergent canopy median height (m):	na		
		Tree emergent canopy cover (%):	na		
	Tree canopy	Tree canopy median height (m):	27		
		Tree canopy cover (%):	53		
	Tree sub-canopy	Tree sub-canopy median height (m):	11		
		Tree sub-canopy cover (%):	24		
	Large trees	Large eucalypt tree dbh threshold (cm):	42		
		Number of large eucalypt trees per hectare:	25		
		Large non-eucalypt tree dbh threshold (cm):	na		
		Number of large non-eucalypt trees per hectare:	na		
	Typical tree species moluccana (gum-top	: Corymbia citriodora subsp. variegata, Eucalyptus crebra (narrow-leaved red ironbark), Eucalypoped box)	otus		
Shrubs	:	Native shrub cover (%):	7		
	Typical shrub specie	es: Alphitonia excelsa (soap tree), Psydrax odorata (shiny-leaved canthium), Acacia spp.			
Ground	l cover (%):	Native perennial grass cover (%):	8		
		Organic litter cover (%):	32		
	Typical ground cove Themeda triandra (k	r species: Cymbopogon refractus (barbed-wire grass), Desmodium rhytidophyllum (hairy trefoil), angaroo grass)			
Coarse	woody debris: Tota	al length (m) of debris ≥ 10cm diameter and ≥0.5m in length per hectare:	764		
Non-na	tive plant cover		0		
	,,	pecies: Lantana montevidensis (creeping lantana), Passiflora suberosa^ (corky passion flower), felinis repens^ (red natal grass)			

Selected typical species are those that characterize the ecosystem, community or stratum at reference sites. Up to five frequently occurring species for each stratum are selected. Shrub and ground strata may contain recruiting canopy species. 'Eucalypt' refers to species belonging to the genera Eucalyptus, Corymbia, Angophora, Lophostemon and Syncarpia. Users should refer to regional ecosystem technical descriptions for more complete lists of characteristic species. Common names can differ between regions. Declared pest species in Queensland are designated (^).

Open forest with Eucalyptus acmenoides or E. helidonica on Cainozoic igneous rocks especially trachyte

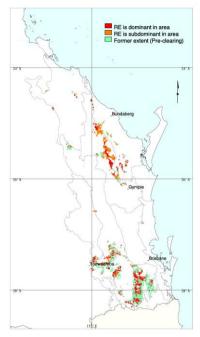




BioCo	ndition attribute		E	Benchmark
Recruit	ment of dominant	canopy species (%):		100
Native	Native plant species richness: Tree:			7
,	•	Shrub:		3
		Grass:		4
		Forbs and other:		9
Trees:	Emergent canopy	Tree emergent canopy median height (m):		na
		Tree emergent canopy cover (%):		na
	Tree canopy	Tree canopy median height (m):		23
		Tree canopy cover (%):		62
	Tree sub-canopy	Tree sub-canopy median height (m):		10
		Tree sub-canopy cover (%):		21
	Large trees	Large eucalypt tree dbh threshold (cm):		44
		Number of large eucalypt trees per hectare:		22
		Large non-eucalypt tree dbh threshold (cm):		25
		Number of large non-eucalypt trees per hectare:		1
		s: Eucalyptus acmenoides (white mahogany), Eucaly ed red ironbark), Eucalyptus propinqua (small-fruited		s, Eucalyptus
Shrubs	:	Native shrub cover (%):		8
	Typical shrub specie	es: Acacia leiocalyx, Lomatia silaifolia, Acacia maide	nii, Breynia oblongifolia	
Ground	l cover (%):	Native perennial grass cover (%):		1
		Organic litter cover (%):		1
		r species: Heteropogon contortus (black speargrass) re grass), Cheilanthes spp., Themeda triandra (kang-		nbopogon
Coarse	woody debris: Total	al length (m) of debris ≥ 10cm diameter and ≥0.5m ir	length per hectare	469
Non-na	tive plant cover			0
	=	species: Asclepias curassavica, Gomphrena celosioio	des, Lantana camara	
Benchm	nark based on: 1 refe	erence sites, a technical description, 3 checked	Benchmark reliability ranking:	moderate

Corveg sites and expert opinion.

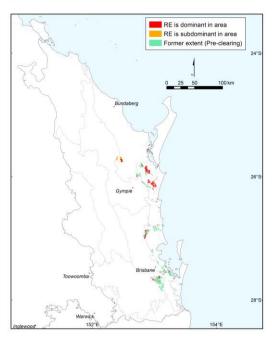
Corymbia citriodora subsp. variegata +/- Eucalyptus crebra open-forest on sedimentary rocks





BioCor	ndition attribute	Bench	nmark
Recruit	ment of dominan	t canopy species (%):	100
Native r	lant species rich	nness: Tree:	6
•	•	Shrub:	7
		Grass:	7
		Forbs and other:	13
Trees:	Emergent canopy	Tree emergent canopy median height (m):	na
		Tree emergent canopy cover (%):	na
	Tree canopy	Tree canopy median height (m):	21
		Tree canopy cover (%):	64
	Tree sub-canopy	Tree sub-canopy median height (m):	12
		Tree sub-canopy cover (%):	20
	Large trees	Large eucalypt tree dbh threshold (cm):	38
		Number of large eucalypt trees per hectare:	38
		Large non-eucalypt tree dbh threshold (cm):	na
		Number of large non-eucalypt trees per hectare:	na
		es: Corymbia citriodora subsp. variegata, Eucalyptus crebra (narrow-leaved red ironbark), Eucal um), Corymbia intermedia (pink bloodwood), Eucalyptus moluccana (gum-topped box)	yptus
Shrubs:	:	Native shrub cover (%):	6
		cies: Lophostemon confertus (brush box), Allocasuarina spp., Acacia spp., Alphitonia excelsa (suchila (orange pultenaea)	oap
Ground	cover (%):	Native perennial grass cover (%):	21
		Organic litter cover (%):	48
		er species: Cymbopogon refractus (barbed-wire grass), Themeda triandra (kangaroo grass), (blady grass), Aristida spp., Entolasia stricta (wiry panic)	
Coarse	woody debris: To	otal length (m) of debris ≥ 10cm diameter and ≥0.5m in length per hectare:	506
Non-nat	tive plant cover		0
	•	species: Lantana camara^, Lantana montevidensis (creeping lantana), Opuntia spp., Melinis grass)	
Benchm	ark based on: 4 re	eference sites, 13 Corveg sites and expert opinion Benchmark reliability ranking:	high

Eucalyptus racemosa subsp. racemosa woodland on sedimentary rocks

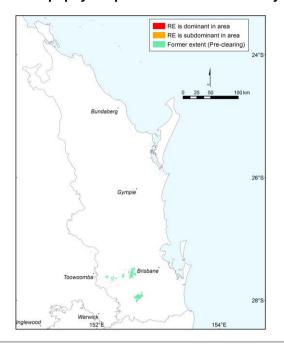


opinion



BioCo	ndition attribute		Benchmark
Recruit	ment of dominant	canopy species (%):	100
Native ₁	plant species richr	ness: Tree:	6
		Shrub:	8
		Grass:	6
		Forbs and other:	18
Trees:	Emergent canopy	Tree emergent canopy median height (m):	na
		Tree emergent canopy cover (%):	na
	Tree canopy	Tree canopy median height (m):	24
		Tree canopy cover (%):	45
	Tree sub-canopy	Tree sub-canopy median height (m):	13
		Tree sub-canopy cover (%):	15
	Large trees	Large eucalypt tree dbh threshold (cm):	51
		Number of large eucalypt trees per hectare:	30
		Large non-eucalypt tree dbh threshold (cm):	na
		Number of large non-eucalypt trees per hectare:	na
		s: Eucalyptus racemosa subsp. racemosa (scribbly gum), Angophora leiocarpa (rusty gum), siderophloia (grey ironbark), Corymbia intermedia (pink bloodwood)	Eucalyptus
Shrubs	:	Native shrub cover (%):	10
	• • • • • • • • • • • • • • • • • • • •	es: Allocasuarina littoralis (black sheoak), Acacia disparrima subsp. disparrima, Alphitonia e yx subsp. leiocalyx, Banksia integrifolia subsp. compar	excelsa (red
Ground	cover (%):	Native perennial grass cover (%):	27
		Organic litter cover (%):	40
		r species: Entolasia stricta (wiry panic), Lomandra multiflora subsp. multiflora, Alloteropsis enemeda triandra (kangaroo grass), Cyanthillium cinereum	semialata
Coarse	woody debris: Tota	al length (m) of debris ≥ 10cm diameter and ≥0.5m in length per hectare	432
Non-na	tive plant cover		0
	·-	species: Cinnamomum camphora, Ochna serrulata	
Benchm	**	orVeg sites, an equivalent RE benchmark and expert Benchmark reliability ranking:	moderate
benchin	ark based on: 20 C	benchmark reliability ranking:	moderat

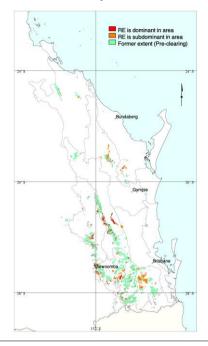
Acacia harpophylla open forest on sedimentary rocks





BioCo	ndition attribute		Benchmark	
Recruit	Recruitment of dominant canopy species (%):			
Native	plant species richr	ness: Tree:	12	
	-	Shrub:	8	
		Grass:	5	
		Forbs and other:	9	
Trees:	Emergent canopy	Tree emergent canopy median height (m):	na	
		Tree emergent canopy cover (%):	na	
	Tree canopy	Tree canopy median height (m):	26	
		Tree canopy cover (%):	54	
	Tree sub-canopy	Tree sub-canopy median height (m):	12	
		Tree sub-canopy cover (%):	27	
	Large trees	Large eucalypt tree dbh threshold (cm):	na	
		Number of large eucalypt trees per hectare:	na	
		Large non-eucalypt tree dbh threshold (cm):	31	
		Number of large non-eucalypt trees per hectare:	31	
	Typical tree species	:: Acacia harpophylla (brigalow), Casuarina cristata (belah), Flindersia collina (broad-leave	d leopard tree)	
Shrubs	:	Native shrub cover (%):	13	
	Typical shrub specie	es: Carissa ovata (currantbush), Alectryon diversifolius (scrub boonaree)		
Ground	l cover (%):	Native perennial grass cover (%):	14	
		Organic litter cover (%):	52	
	Typical ground cove	r species: Paspalidium caespitosum (brigalow grass), Ancistrachne uncinulata (hooky gras	ss)	
Coarse	woody debris: Tota	al length (m) of debris ≥ 10cm diameter and ≥0.5m in length per hectare:	467	
Non-na	tive plant cover		0	
		species: Lantana camara^ (lantana), Megathyrsus maximus var. maximus, Asparagus africolichandra unguis-cati	anus^	
Benchm	ark based on: 7 refe	erence sites and expert opinion Benchmark reliability ranking:	high	

Eucalyptus crebra +/- E. tereticornis, Corymbia tessellaris, Angophora spp., E. melanophloia woodland on sedimentary rocks





BioCo	ndition attrib	bute	Benchmark			
Recruit	Recruitment of dominant canopy species (%):					
Native p	Native plant species richness: Tree:					
•	•	Shrub:	5			
		Grass:	8			
		Forbs and other:	26			
Trees:	Emergent can	nopy Tree emergent canopy median height (m):	na			
		Tree emergent canopy cover (%):	na			
	Tree canopy	Tree canopy median height (m):	21			
		Tree canopy cover (%):	40			
	Tree sub-cano	opy Tree sub-canopy median height (m):	10			
		Tree sub-canopy cover (%):	8			
	Large trees	Large eucalypt tree dbh threshold (cm):	39			
		Number of large eucalypt trees per hectare:	18			
		Large non-eucalypt tree dbh threshold (cm):	na			
		Number of large non-eucalypt trees per hectare:	na			
		pecies: Eucalyptus crebra (narrow-leaved red ironbark), Eucalyptus tereticornis (blue gum), oreton Bay ash), Angophora leiocarpa (rusty gum), Corymbia clarksoniana (grey bloodwood)				
Shrubs	:	Native shrub cover (%):	3			
	Typical shrub	species: Acacia spp., Alphitonia excelsa (soap tree)				
Ground	cover (%):	Native perennial grass cover (%):	61			
		Organic litter cover (%):	20			
	Typical ground cover species: Themeda triandra (kangaroo grass), Cymbopogon refractus (barbed-wire grass), Heteropogon contortus (black speargrass), Chloris divaricata, Bothriochloa decipiens					
Coarse	Coarse woody debris: Total length (m) of debris ≥ 10cm diameter and ≥0.5m in length per hectare:					
Non-na	Non-native plant cover					
	Typical non-native species: Lantana camara^, Opuntia spp., Digitaria didactyla (Queensland blue couch), Dichanthium aristatum (angleton grass), Lantana montevidensis (creeping lantana)					
Benchm	ark based on:	3 reference sites, 6 Corveg sites and expert opinion Benchmark reliability ranking	ng: high			

Selected typical species are those that characterize the ecosystem, community or stratum at reference sites. Up to five frequently occurring species for each stratum are selected. Shrub and ground strata may contain recruiting canopy species. 'Eucalypt' refers to species belonging to the genera Eucalyptus, Corymbia, Angophora, Lophostemon and Syncarpia. Users should refer to regional ecosystem technical descriptions for more complete lists of characteristic species. Common names can differ between regions. Declared pest species in Queensland are designated (^).

Non-native plant cover

Melaleuca irbyana low open-forest on sedimentary rocks





BioCor	ndition attribute			Benchmark		
Recruit	Recruitment of dominant canopy species (%):					
Native p	olant species richn	ess:	Tree:	3		
			Shrub:	2		
			Grass:	12		
			Forbs and other:	26		
Trees:	Tree canopy	Tree canopy me	edian height (m):	9		
		Tree canopy cov	ver (%):	74		
	Tree sub-canopy	Tree sub-canopy	y median height (m):	4		
		Tree sub-canop	y cover (%):	7		
	Large trees	Large eucalypt t	ree dbh threshold (cm):	na		
		Number of large	eucalypt trees per hectare:	na		
		Large non-eucal	lypt tree dbh threshold (cm):	24		
		Number of large	non-eucalypt trees per hectare:	105		
			(bush house paperbark), Eucalyptus crebra (narrow-lea alyptus moluccana (gum-topped box), Corymbia citriodol			
Shrubs	:	Native shrub cov	ver (%):	2		
	Typical shrub specie paperbark), Acacia c		a (soap tree), Alstonia constricta (bitterbark), Melaleuca bah)	irbyana (bush house		

Ground cover (%): Native perennial grass cover (%): 29 Organic litter cover (%):

Typical ground cover species: Paspalidium distans (shotgrass), Themeda triandra (kangaroo grass), Enteropogon

unispiceus, Digitaria breviglumis, Bothriochloa decipiens (pitted bluegrass)

Coarse woody debris: Total length (m) of debris ≥ 10cm diameter and ≥0.5m in length per hectare: 223 0

Typical non-native species: Megathyrsus maximus (guinea grass), Bryophyllum spp., Lantana camara^, Lantana

montevidensis (creeping lantana)

Semi-evergreen vine thicket with Brachychiton rupestris on sedimentary rocks





	127-1	7	
BioCo	ndition attribute		Benchmark
Recruit	ment of dominant	canopy species (%):	100
Native p	olant species richr	ness: Tree:	30
		Shrub:	16
		Grass:	2
		Forbs and other:	23
Trees:	Tree canopy	Tree canopy median height (m):	18
		Tree canopy cover (%):	56
	Tree sub-canopy	Tree sub-canopy median height (m):	17
		Tree sub-canopy cover (%):	55
	Large trees	Large eucalypt tree dbh threshold (cm):	na
		Number of large eucalypt trees per hectare:	na
		Large non-eucalypt tree dbh threshold (cm):	26
		Number of large non-eucalypt trees per hecta	are: 120
		: Flindersia australis (crow's ash), Flindersia xant nos psilosperma (strychnine tree), Vitex lignum-vi	
Shrubs	<u>:</u>	Native shrub cover (%):	56
	Typical shrub specie	es: Jasminum simplicifolium subsp. australiense (stiff jasmine), Olea paniculata (native olive),

Passiflora aurantia (native passion flower), Ficus coronata (creek sandpaper fig), Archontophoenix cunninghamiana (piccabeen palm)

Ground cover (%):

Native perennial grass cover (%):

Organic litter cover (%):

55

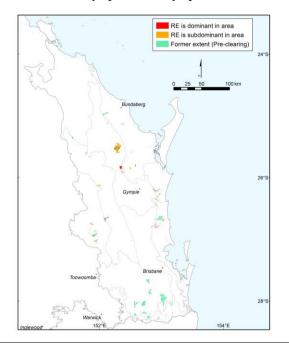
Typical ground cover species: Adiantum formosum (giant maidenhair), Adiantum aethiopicum (maidenhair fern), Asplenium attenuatum (walking fern), Oplismenus imbecillis, Adiantum hispidulum (rough maidenhair fern)

Coarse woody debris: Total length (m) of debris ≥ 10cm diameter and ≥0.5m in length per hectare: 1080

Non-native plant cover

Typical non-native species: Opuntia tomentosa^ (velvety tree pear), Anredera cordifolia^ (Madeira vine)

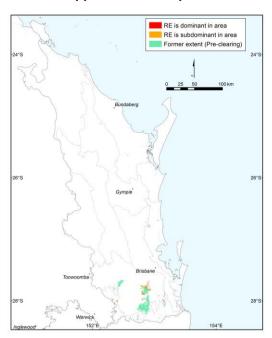
Araucarian microphyll to notophyll vine forest on Cainozoic and Mesozoic sediments





BioCo	ndition attribute				Benchmark
Recruit	ment of dominant	canopy species (%):			100
Native	plant species richr	iess:	Tree:		19
•	•		Shrub:		21
			Grass:		1
			Forbs and other:		17
Trees:	Emergent canopy	Tree emergent canopy	median height (m):		28
		Tree emergent canopy	cover (%):		5
	Tree canopy	Tree canopy median he	eight (m):		16
		Tree canopy cover (%)	:		66
	Tree sub-canopy	Tree sub-canopy media	an height (m):		8
		Tree sub-canopy cover	r (%):		50
	Large trees	Large eucalypt tree dbl	h threshold (cm):		na
		Number of large eucaly	ypt trees per hectare:		na
		Large non-eucalypt tree	e dbh threshold (cm):		30
		Number of large non-e	ucalypt trees per hectare:		75
		: Argyrodendron sp. (Kin K nyrtifolia, Cupaniopsis parv		, Araucaria cunninghamii, Agathis rob	usta (kauri
Shrubs	:	Native shrub cover (%)):		50
	,,	es: Capparis arborea (brus ghamii, Diospyros australis	• 377	ata, Acalypha capillipes (small-leaved	acalypha),
Ground	l cover (%):	Native perennial grass	cover (%):		1
		Organic litter cover (%)):		55
		r species: Ancistrachne un a hygrophiloides, Pellaea p		lismenus aemulus (creeping shade g	rass), Solanum
Coarse	woody debris: Tota	al length (m) of debris ≥ 10	cm diameter and ≥0.5m in	length per hectare	379
Non-na	tive plant cover				0
	Typical non-native s	pecies: Rivina humilis (cor	al berry), Lantana camara,	Solanum seaforthianum (Brazilian ni	ghtshade)
Benchm	ark based on: 1 refe	erence site, 8 Corveg sites	and expert opinion	Benchmark reliability ranking:	high

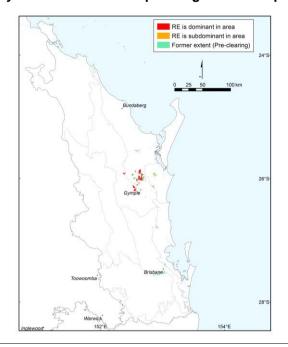
Lophostemon spp. dominated open forest on sedimentary rocks





BioCondition	attrib	ute	Ben	nchmark
Recruitment o	f domii	nant canopy species (%):		100
Native plant sp	oecies	richness: Tree:		13
		Shrub:		13
		Grass:		5
		Forbs an	d other:	31
Trees: Emerg	ent cand	ppy Tree emergent canopy median hei	ght (m):	na
		Tree emergent canopy cover (%):		na
Tree c	anopy	Tree canopy median height (m):		27
		Tree canopy cover (%):		85
Tree s	ub-cano	py Tree sub-canopy median height (m	n):	13
		Tree sub-canopy cover (%):		27
Large	trees	Large eucalypt tree dbh threshold	(cm):	43
		Number of large eucalypt trees per	hectare:	37
		Large non-eucalypt tree dbh thresl	nold (cm):	na
		Number of large non-eucalypt tree	s per hectare:	na
		ecies: Lophostemon confertus (brush box), ucalyptus major (mountain grey gum), Eucal	Lophostemon suaveolens (swamp box), Eucalyptus micro yptus propinqua (small-fruited grey gum)	ocorys
Shrubs:		Native shrub cover (%):		12
		species: Alphotonia excelsa, Acacia spp., E iceroides	uroschinus falcatus, Allocasuarina torulosa (forest sheoak	1),
Ground cover	(%):	Native perennial grass cover (%):		11
		Organic litter cover (%):		45
		cover species: Oplismenus aemulus (creep rasp fern), Lomandra spp., Adiantum spp.	ing shade grass), Themeda triandra (kangaroo grass), Do	odia
Coarse woody	debris	: Total length (m) of debris ≥ 10cm diamete	r and ≥0.5m in length per hectare	553
Non-native pla	nt cov	er		0
-		tive species: Lantana camara^, Ochna serr	ulata	
Benchmark bas	ed on:	2 reference sites and expert opinion	Benchmark reliability ranking:	high

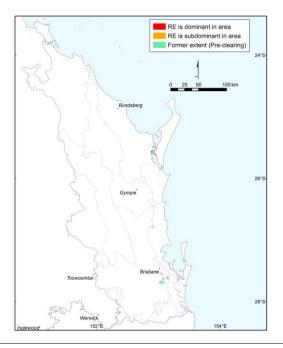
Corymbia citriodora subsp. variegata mixed open forest on Cainozoic and Mesozoic sediments





BioCo	ndition attrib	oute Benchma	ark		
Recruit	Recruitment of dominant canopy species (%):				
Native i	plant species	richness: Tree:	10		
	,	Shrub:	5		
		Grass:	6		
		Forbs and other:	17		
Trees:	Emergent cand	opy Tree emergent canopy median height (m):	na		
		Tree emergent canopy cover (%):	na		
	Tree canopy	Tree canopy median height (m):	27		
		Tree canopy cover (%):	52		
	Tree sub-cano	ppy Tree sub-canopy median height (m):	15		
		Tree sub-canopy cover (%):	31		
	Large trees	Large eucalypt tree dbh threshold (cm):	46		
		Number of large eucalypt trees per hectare:	30		
		Large non-eucalypt tree dbh threshold (cm):	na		
		Number of large non-eucalypt trees per hectare:	na		
		pecies: Corymbia citriodora subsp. variegata (spotted gum), Eucalyptus acmenoides (white mahogany), ocarpa (rusty gum), Eucalyptus siderophloia (grey ironbark), Eucalyptus carnea (Broad-leaved white mahogan	ny)		
Shrubs	:	Native shrub cover (%):	27		
	Typical shrub	species: Alphitonia excelsa (red ash), Acacia disparrima subsp. disparrima, Acacia leiocalyx			
Ground	l cover (%):	Native perennial grass cover (%):	35		
		Organic litter cover (%):	55		
		d cover species: Entolasia stricta (wiry panic), Imperata cylindrica (blady grass), Panicum effusum, Themeda aroo grass), Brunoniella australis (blue trumpet)			
Coarse	woody debris	s: Total length (m) of debris ≥ 10cm diameter and ≥0.5m in length per hectare	401		
Non-na	tive plant cove	er	0		
		ative species: Lantana camara^, Passiflora suberosa (corky passion flower), Lantana montevidesis, um crepidioides			
Benchm		2 reference sites, 5 Corveg sites, 4 other sites and expert opinion Benchmark reliability ranking: h	nigh		

Eucalyptus carnea and/or E. tindaliae and/or E. helidonica open forest on Cainozoic and Mesozoic sediments



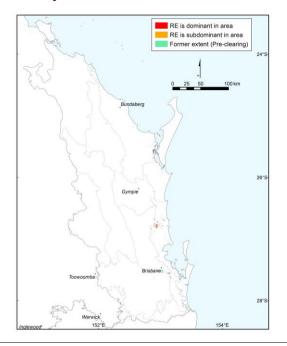


BioCo	ndition attribut	Bend	hmark
		t canopy species (%):	100
	olant species rich		8
		Shrub:	12
		Grass:	5
		Forbs and other:	20
Trees:	Emergent canop	y Tree emergent canopy median height (m):	na
	3	Tree emergent canopy cover (%):	na
	Tree canopy	Tree canopy median height (m):	24
		Tree canopy cover (%):	57
	Tree sub-canopy	Tree sub-canopy median height (m):	11
		Tree sub-canopy cover (%):	33
	Large trees	Large eucalypt tree dbh threshold (cm):	44
		Number of large eucalypt trees per hectare:	27
		Large non-eucalypt tree dbh threshold (cm):	na
		Number of large non-eucalypt trees per hectare:	na
	stringybark), Coryı	es: Eucalyptus carnea (Broad-leaved white mahogany), Eucalyptus tindaliae (Queensland white mbia citriodora subsp. variegata (spotted gum), Eucalyptus crebra (narrow-leaved red ironbark), (mountain grey gum)	
Shrub	s:	Native shrub cover (%):	13
		cies: Acacia disparrima subsp. disparrima, Lophostemon confertus (brush box), Acacia implexa suarina littoralis (black sheoak), Acacia maidenii	
Ground	d cover (%):	Native perennial grass cover (%):	23
		Organic litter cover (%):	46
		rer species: Entolasia stricta (wiry panic), Themeda triandra (kangaroo grass), Cymbopogon refractus), Pteridium esculentum (common bracken), Lomandra filiformis	i
Coarse	woody debris: To	otal length (m) of debris ≥ 10cm diameter and ≥0.5m in length per hectare	469
Non-na	tive plant cover		0
	•	species: Lantana camara^, Gomphocarpus physocarpus (balloon cottonbush), Opuntia tomentosa^	-
Benchm	ark based on: 3 r	eference sites, 3 Corveg sites and expert opinion Benchmark reliability ranking:	high

Selected typical species are those that characterize the ecosystem, community or stratum at reference sites. Up to five frequently occurring species for each stratum are selected. Shrub and ground strata may contain recruiting canopy species. 'Eucalypt' refers to species belonging to the genera Eucalyptus, Corymbia, Angophora, Lophostemon and Syncarpia. Users should refer to regional ecosystem technical descriptions for more complete lists of characteristic species. Common names can differ between regions.

Declared pest species in Queensland are designated (^).

Open forest generaly containing Eucalyptus siderophloia, E. propinqua, Corymbia intermedia on sedimentary rocks

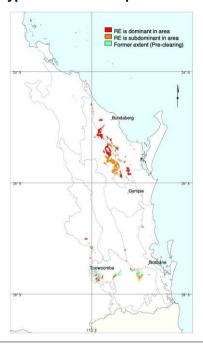




BioCo	ndition attribut	e Benci	hmark	
Recruit	ment of domina	nt canopy species (%):	100	
Native i	plant species ric	hness: Tree:	8	
•	•	Shrub:	13	
		Grass:	9	
		Forbs and other:	17	
Trees:	Emergent canopy	Tree emergent canopy median height (m):	na	
		Tree emergent canopy cover (%):	na	
	Tree canopy	Tree canopy median height (m):	26	
		Tree canopy cover (%):	65	
	Tree sub-canopy	Tree sub-canopy median height (m):	10	
		Tree sub-canopy cover (%):	13	
	Large trees	Large eucalypt tree dbh threshold (cm):	40	
		Number of large eucalypt trees per hectare:	45	
		Large non-eucalypt tree dbh threshold (cm):	na	
		Number of large non-eucalypt trees per hectare:	na	
	,,		3	
Shrubs	:	Native shrub cover (%):	5	
	Typical shrub spe	ecies: Alphitonia excelsa (red ash), Breynia oblongifolia, Acacia disparrima subsp. disparrima, Glochic	lion	
Ground	l cover (%):	Native perennial grass cover (%):	23	
		Organic litter cover (%):	46	
			drica	
Coarse	woody debris: T	otal length (m) of debris ≥ 10cm diameter and ≥0.5m in length per hectare	439	
Non-na	tive plant cover		0	
	Native plant species richness: Tree: Shrub: 13 Shrub: Grass: 9 Forbs and other: 17 Trees: Emergent canopy Tree emergent canopy median height (m): na Tree canopy Tree canopy median height (m): 26 Tree canopy Tree canopy median height (m): 26 Tree canopy Tree canopy median height (m): 26 Tree sub-canopy Tree canopy median height (m): 65 Tree sub-canopy Tree canopy median height (m): 26 Tree sub-canopy Tree canopy median height (m): 26 Tree sub-canopy median height (m): 26 Tree sub-canopy Tree canopy median height (m): 26 Tree sub-canopy Tree sub-canopy median height (m): 26 Tree sub-canopy Tree canopy median height (m): 26 Tree sub-canopy Tree sub-canopy median height (m): 26 Large trees Large ucalypt tree dbh threshold (cm): 36 Large trees Large eucalypt tree dbh threshold (cm): 36 Large indianteres peries: Lu			
Benchm	ark based on: 2 r	reference sites, 7 Corveg sites and expert opinion Benchmark reliability ranking:	high	

None listed

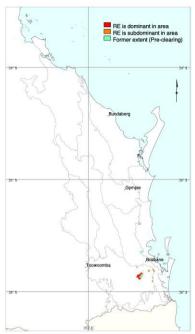
Eucalyptus fibrosa subsp. fibrosa woodland on sedimentary rocks





BioCo	BioCondition attribute Benchmark					
Recruit	Recruitment of dominant canopy species (%):					
Native	Native plant species richness: Tree:					
	· · · · ·	Shrub:	7			
		Grass:	11			
		Forbs and other:	14			
Trees:	Tree canopy	Tree canopy median height (m):	28			
		Tree canopy cover (%):	55			
	Tree sub-canopy	Tree sub-canopy median height (m):	9			
		Tree sub-canopy cover (%):	19			
	Large trees	Large eucalypt tree dbh threshold (cm):	49			
		Number of large eucalypt trees per hectare:	66			
		Large non-eucalypt tree dbh threshold (cm):	na			
		Number of large non-eucalypt trees per hectare:	na			
		: Eucalyptus fibrosa subsp. fibrosa (red ironbark), Corymbia citriodora subsp. va ortuensis or Eucalyptus acmenoides, Eucalyptus major (mountain grey gum), Lop ()				
Shrubs	:	Native shrub cover (%):	15			
		es: Acacia leiocalyx subsp. leiocalyx (early-flowering black wattle), Acacia dispar n salwood), Jacksonia scoparia (native broom), Alphitonia excelsa (soap tree), P tree)				
Ground	l cover (%):	Native perennial grass cover (%):	19			
		Organic litter cover (%):	55			
		r species: Themeda triandra (kangaroo grass), Cymbopogon refractus (barbed-v Chrysopogon fallax (golden beardgrass), Eremochloa bimaculata (poverty grass)				
Coarse	woody debris: Tota	al length (m) of debris ≥ 10cm diameter and ≥0.5m in length per hectare:	299			
Non-na	tive plant cover		0			

Corymbia henryi +/- Eucalyptus fibrosa subsp. fibrosa, Corymbia citriodora subsp. variegata open-forest on sedimentary rocks





BioCond	lition attrib	ute Ben	chmark
Recruitme	ent of domir	nant canopy species (%):	100
Native pla	ant species i	richness: Tree:	4
		Shrub:	6
		Grass:	7
		Forbs and other:	14
Trees:	Emergent cano	py Tree emergent canopy median height (m):	na
		Tree emergent canopy cover (%):	na
٦	Tree canopy	Tree canopy median height (m):	24
		Tree canopy cover (%):	59
٦	Tree sub-canop	Tree sub-canopy median height (m):	10
		Tree sub-canopy cover (%):	22
L	_arge trees	Large eucalypt tree dbh threshold (cm):	44
		Number of large eucalypt trees per hectare:	24
		Large non-eucalypt tree dbh threshold (cm):	na
		Number of large non-eucalypt trees per hectare:	na
(ecies: Corymbia henryi (large-leaved spotted gum), Eucalyptus fibrosa subsp. fibrosa (red ironbadora subsp. variegata, Eucalyptus siderophloia (red ironbark), Eucalyptus crebra (narrow-leaved	
Shrubs:		Native shrub cover (%):	11
	Typical shrub s (prickly daviesi	species: Acacia spp., Alphitonia excelsa (soap tree), Jacksonia scoparia (native broom), Daviesia a)	a villifera
Ground c	over (%):	Native perennial grass cover (%):	16
		Organic litter cover (%):	53
		cover species: Entolasia stricta (wiry panic), Eremochloa bimaculata (poverty grass), Panicum e ristida vagans (three-awn spear grass), Cymbopogon refractus (barbed-wire grass)	ffusum
Coarse w	oody debris	: Total length (m) of debris ≥ 10cm diameter and ≥0.5m in length per hectare:	285
Non-nativ	e plant cove	er	0
-	Typical non-na	tive species: Gomphocarpus physocarpus (balloon cottonbush), Lantana camara^	
Benchmar	k based on:	3 reference sites, 1 Corveg site and expert opinion Benchmark reliability ranking:	moderate

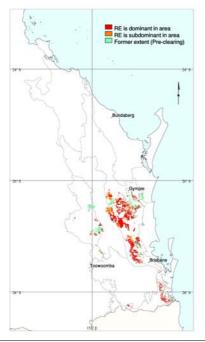
Selected typical species are those that characterize the ecosystem, community or stratum at reference sites. Up to five frequently occurring species for each stratum are selected. Shrub and ground strata may contain recruiting canopy species. 'Eucalypt' refers to species belonging to the genera Eucalyptus, Corymbia, Angophora, Lophostemon and Syncarpia. Users should refer to regional ecosystem technical descriptions for more complete lists of characteristic species. Common names can differ between regions. Declared pest species in Queensland are designated (^).

None listed

Regional ecosystem:

12.11.3

Eucalyptus siderophloia, E. propinqua +/- E. microcorys, Lophostemon confertus, Corymbia intermedia, E. acmenoides open-forest on metamorphics +/- interbedded volcanics





BioCo	ndition attribute		Benchmark
Recruit	ment of dominant	canopy species (%):	100
Native	Native plant species richness: Tree:		
		Shrub:	12
		Grass:	4
		Forbs and other:	21
Trees:	Tree canopy	Tree canopy median height (m):	25
		Tree canopy cover (%):	72
	Tree sub-canopy	Tree sub-canopy median height (m):	10
		Tree sub-canopy cover (%):	17
	Large trees	Large eucalypt tree dbh threshold (cm):	45
		Number of large eucalypt trees per hectare:	63
		Large non-eucalypt tree dbh threshold (cm):	na
		Number of large non-eucalypt trees per hectare:	na
		Eucalyptus propinqua (small-fruited grey gum), Eucalyptus siderophloia (re ood), Eucalyptus acmenoides (narrow-leaved white stringybark), Corymbia	
Shrubs	:	Native shrub cover (%):	21
Ground	l cover (%):	Native perennial grass cover (%):	16
		Organic litter cover (%):	76
Coarse	woody debris Tota	al length (m) of debris ≥ 10cm diameter and ≥0.5m in length per hectare:	370
Non-na	tive plant cover		0

Eucalyptus tindaliae, E. carnea, Corymbia intermedia +/- E. siderophloia or E. crebra, Corymbia citriodora subsp. variegata woodland on metamorphics +/- interbedded volcanics



leaved red ironbark)



BioCo	BioCondition attribute				
Recruit	ment of dominant	canopy species (%):		100	
Native _I	olant species richn	ess:	Tree:	10 8 9 17 26 72 10 43 46 33 na na	
			Shrub:	8	
			Grass:	9	
			Forbs and other:	17	
Trees:	Tree canopy	Tree canopy median h	eight (m):	26	
		Tree canopy cover (%)	:	72	
	Tree sub-canopy	Tree sub-canopy medi	an height (m):	10	
		Tree sub-canopy cove	r (%):	43	
	Large trees	Large eucalypt tree db	h threshold (cm):	46	
		Number of large eucal	ypt trees per hectare:	33	
		Large non-eucalypt tre	e dbh threshold (cm):	na	
		Number of large non-e	ucalypt trees per hectare:	na	
	Typical tree species:	Eucalyptus tindaliae (Que	eensland white stringybark), Eucalyptus carn	ea (broad-leaved white	

Shrubs: Native shrub cover (%):

Typical shrub species: Acacia concurrens (curracabah), Acacia disparrima subsp. disparrima (southern salwood), Lophostemon confertus (brush box), Alphitonia excelsa (soap tree)

mahogany), Eucalyptus siderophloia (red ironbark), Corymbia intermedia (pink bloodwood), Eucalyptus crebra (narrow-

Ground cover (%):

Native perennial grass cover (%):

Organic litter cover (%):

45

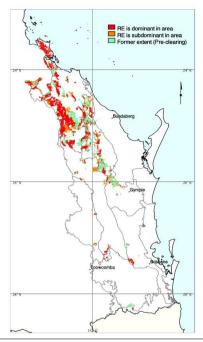
Typical ground cover species: Themeda triandra (kangaroo grass), Imperata cylindrica (blady grass), Cymbopogon refractus (barbed-wire grass), Eremochloa bimaculata (poverty grass)

Coarse woody debris: Total length (m) of debris ≥ 10cm diameter and ≥0.5m in length per hectare: 546

Non-native plant cover

Typical non-native species: Lantana camara^, Melinis minutiflora (molasses grass)

Corymbia citriodora subsp. variegata, Eucalyptus crebra woodland on metamorphics \pm interbedded volcanics

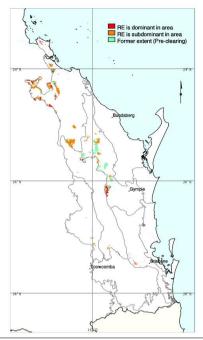




BioCo	ndition attribute	Benc	hmark
Recruit	ment of dominant	canopy species (%):	100
Native	plant species rich	ness: Tree:	4
'	•	Shrub:	6
		Grass:	11
		Forbs and other:	29
Trees:	Emergent canopy	Tree emergent canopy median height (m):	na
		Tree emergent canopy cover (%):	na
	Tree canopy	Tree canopy median height (m):	21
		Tree canopy cover (%):	32
	Tree sub-canopy	Tree sub-canopy median height (m):	11
		Tree sub-canopy cover (%):	10
	Large trees	Large eucalypt tree dbh threshold (cm):	50
		Number of large eucalypt trees per hectare:	12
		Large non-eucalypt tree dbh threshold (cm):	na
		Number of large non-eucalypt trees per hectare:	na
		s: Corymbia citriodora subsp. variegata, Eucalyptus crebra (narrow-leaved red ironbark), Eucalyptus rbia intermedia (pink bloodwood)	S
Shrubs	:	Native shrub cover (%):	12
		es: Acacia disparrima subsp. disparrima, Lophostemon confertus (brush box), Acacia leiocalyx, Aca mon suaveolens (swamp box)	acia
Ground	d cover (%):	Native perennial grass cover (%):	25
		Organic litter cover (%):	45
		er species: Cymbopogon refractus (barbed-wire grass), Themeda triandra (kangaroo grass), Arundii ss), Heteropogon contortus (black speargrass), Cyperus fulvus	nella
Coarse	woody debris: To	al length (m) of debris ≥ 10cm diameter and ≥0.5m in length per hectare:	320
Non-na	tive plant cover		0
	Typical non-native	species: Lantana camara^ (lantana)	
Benchm	nark based on: 12 re	eference sites and 41 Corveg sites and expert opinion Benchmark reliability ranking:	high

Selected typical species are those that characterize the ecosystem, community or stratum at reference sites. Up to five frequently occurring species for each stratum are selected. Shrub and ground strata may contain recruiting canopy species. 'Eucalypt' refers to species belonging to the genera Eucalyptus, Corymbia, Angophora, Lophostemon and Syncarpia. Users should refer to regional ecosystem technical descriptions for more complete lists of characteristic species. Common names can differ between regions. Declared pest species in Queensland are designated (^).

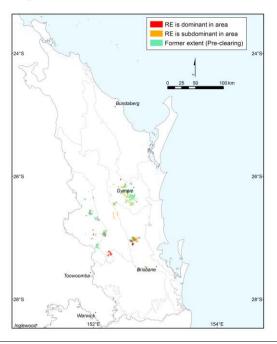
Eucalyptus crebra woodland on metamorphics ± interbedded volcanics





BioCo	ndition attribute	Bench	nmark
Recruitment of dominant canopy species (%):			
Native p	plant species richn	ess: Tree:	4
	•	Shrub:	6
		Grass:	13
		Forbs and other:	36
Trees:	Emergent canopy	Tree emergent canopy median height (m):	na
		Tree emergent canopy cover (%):	na
	Tree canopy	Tree canopy median height (m):	18
		Tree canopy cover (%):	32
	Tree sub-canopy	Tree sub-canopy median height (m):	7
		Tree sub-canopy cover (%):	8
	Large trees	Large eucalypt tree dbh threshold (cm):	39
		Number of large eucalypt trees per hectare:	18
		Large non-eucalypt tree dbh threshold (cm):	na
		Number of large non-eucalypt trees per hectare:	na
	Typical tree species: Eucalyptus crebra (narrow-leaved red ironbark), Corymbia erythrophloia, Corymbia clarksoniana Eucalyptus exserta (Queensland peppermint)		
Shrubs: Native sl		Native shrub cover (%):	5
	Typical shrub specie leiocalyx, Acacia ma	es: Acacia disparrima subsp. disparrima, Alphitonia excelsa, Lophostemon confertus (brush box), Adidenii	cacia
Ground	l cover (%):	Native perennial grass cover (%):	30
		Organic litter cover (%):	35
		species: Bothriochloa decipiens var. decipiens, Digitaria diffusa, Aristida personata, Cymbopogon e grass), Desmodium rhytidophyllum	
Coarse woody debris: Total length (m) of debris ≥ 10cm diameter and ≥0.5m in length per hectare:			350
Non-native plant cover			0
	•	pecies: Lantana camara^ (lantana), Lantana montevidensis^ (creeping lantana)	
Benchmark based on: 11 Corveg sites and expert opinion Benchmark reliability ranking: h			

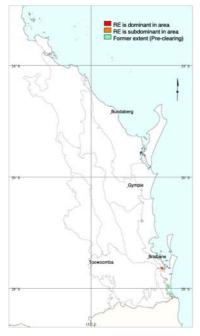
Araucarian microphyll vine forest on metamorphics +/- interbedded volcanics; usually southern half of bioregion





BioCondition attribute Ben			nchmark
Recruitment of dominant canopy species (%):			
Native	plant species richn	ess: Tree:	44
-	•	Shrub:	37
		Grass:	2
		Forbs and other:	19
Trees:	Emergent canopy	Tree emergent canopy median height (m):	20
		Tree emergent canopy cover (%):	5
	Tree canopy	Tree canopy median height (m):	17
		Tree canopy cover (%):	79
	Tree sub-canopy	Tree sub-canopy median height (m):	10
		Tree sub-canopy cover (%):	60
	Large trees	Large eucalypt tree dbh threshold (cm):	na
		Number of large eucalypt trees per hectare:	na
		Large non-eucalypt tree dbh threshold (cm):	29
		Number of large non-eucalypt trees per hectare:	80
		Araucaria cunninghamii, Cupaniopsis parvifolia, Dendrocnide photinophylla (Shiny-leaved stin anthema (deep yellow wood), Flindersia australis (crow's ash)	ging tree),
Shrubs:		Native shrub cover (%):	30
	Typical shrub specie foveolata, Spartotha	es: Mallotus philippensis, Aphananthe philippinensis, Capparis arborea (brush caper berry), Ary mnella juncea	tera
Ground	cover (%):	Native perennial grass cover (%):	0.3
		Organic litter cover (%):	72
		species: Ancistrachne uncinulata (hooky grass), Oplismenus aemulus (creeping shade grass) s, Pseuderanthemum variabile (pastel flower), Harnieria hygrophiloides	,
Coarse woody debris: Total length (m) of debris ≥ 10cm diameter and ≥0.5m in length per hectare			314
Non-native plant cover			0
	Typical non-native s	pecies: Rivina humilis (coral berry), Lantana camara, Solanum seaforthianum (Brazilian nightsh	nade)
Benchmark based on: 3 reference sites and expert opinion Benchmark reliability ranking:			

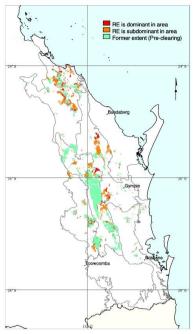
Eucalyptus pilularis open-forest on coastal metamorphics and interbedded volcanics





BioCondition attribute Recruitment of dominant canopy species (%):				
				Native plant species richness: Tree:
		Shrub:	11	
		Grass:	4	
		Forbs and other:	18	
Trees:	Tree canopy Tree canopy median height (m):		31	
		Tree canopy cover (%):	50	
	Tree sub-canopy	Tree sub-canopy median height (m):	10	
	Tree sub-canopy cover (%):		11	
	Large trees	Large eucalypt tree dbh threshold (cm):	47	
	Number of large eucalypt trees per hectare:		28	
		Large non-eucalypt tree dbh threshold (cm):	27	
		Number of large non-eucalypt trees per hectare:	2	
	Typical tree species: Eucalyptus pilularis (blackbutt), Eucalyptus tindaliae (Queensland white stringybark), Corymbia intermedia (pink bloodwood)			
Shrubs:		Native shrub cover (%):	18	
	Typical shrub specie	es: Allocasuarina littoralis (woolly oak), Lophostemon confertus (brush box)		
Ground	l cover (%):	Native perennial grass cover (%):	6	
		Organic litter cover (%):	56	
	Typical ground cover (blady grass)	r species: Themeda triandra (kangaroo grass), Entolasia stricta (wiry panic),	Imperata cylindrica	
Coarse	woody debris Tota	al length (m) of debris ≥ 10cm diameter and ≥0.5m in length per hectare:	480	
Non-native plant cover			0	
	Typical non-native species: Lantana camara [^] , Senna pendula var. glabrata [^] (Easter cassia)			

Eucalyptus tereticornis, Corymbia intermedia, E. crebra ± Lophostemon suaveolens woodland on Mesozoic to Proterozoic igneous rocks





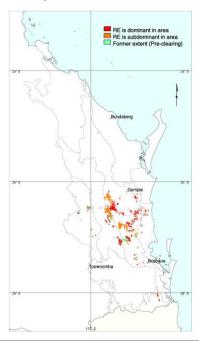
BioCor	ndition attribute		Benchmark
Recruitment of dominant canopy species (%):			
Native p	olant species richn	ness: Tree:	4
	-	Shrub:	3
		Grass:	9
		Forbs and other:	28
Trees:	Emergent canopy	Tree emergent canopy median height (m):	na
		Tree emergent canopy cover (%):	na
	Tree canopy	Tree canopy median height (m):	21
		Tree canopy cover (%):	31
	Tree sub-canopy	Tree sub-canopy median height (m):	11
		Tree sub-canopy cover (%):	12
	Large trees	Large eucalypt tree dbh threshold (cm):	45
		Number of large eucalypt trees per hectare:	60
		Large non-eucalypt tree dbh threshold (cm):	na
		Number of large non-eucalypt trees per hectare:	na
		: Eucalyptus tereticornis, Corymbia intermedia (pink bloodwood), Eucalyptus crebra (narrow non suaveolens (swamp box)	-leaved red
Shrubs:	:	Native shrub cover (%):	5
	,,	es: Acacia disparrima subsp. disparrima, Acacia leiocalyx, Lophostemon suaveolens (swamsa, Alphitonia excelsa	box),
Ground	cover (%):	Native perennial grass cover (%):	40
		Organic litter cover (%):	35
		r species: Panicum effusum, Arundinella nepalensis (reedgrass), Cymbopogon refractus (bacinereum, Glycine tabacina	rbed-wire
Coarse woody debris: Total length (m) of debris ≥ 10cm diameter and ≥0.5m in length per hectare:			500
Non-nat	tive plant cover		0
	•	pecies: Lantana camara^ (lantana), Gomphocarpus physocarpus (balloon cottonbush), Emi	ia sonchifolia
Benchmark based on: 21 Corveg sites and expert opinion Benchmark reliability ranking:			high

Selected typical species are those that characterize the ecosystem, community or stratum at reference sites. Up to five frequently occurring species for each stratum are selected. Shrub and ground strata may contain recruiting canopy species. 'Eucalypt' refers to species belonging to the genera Eucalyptus, Corymbia, Angophora, Lophostemon and Syncarpia. Users should refer to regional ecosystem technical descriptions for more complete lists of characteristic species. Common names can differ between regions. Declared pest species in Queensland are designated (^).

Non-native plant cover

None listed

Corymbia intermedia +/- Eucalyptus propinqua, E. siderophloia, E. microcorys, Lophostemon confertus open-forest on Mesozoic to Proterozoic igneous rocks





BioCondition attribute				Benchmark		
Recruitment of dominant canopy species (%):						
Native	8					
			Shrub:	6		
			Grass:	5		
			Forbs and other:	17		
Trees:	Tree canopy	Tree canopy median height (m):		24		
		Tree canopy cover (%)	:	82		
Tree sub-canopy Tree sub-canopy me		Tree sub-canopy media	an height (m):	10		
		Tree sub-canopy cover	55			
	Large trees Large eucalypt tree dbh threshold (cm):		46			
		Number of large eucalypt trees per hectare:		65		
		Large non-eucalypt tree	e dbh threshold (cm):	26		
		Number of large non-e	ucalypt trees per hectare:	15		
Typical tree species: Eucalyptus propinqua (small-fruited grey gum), Corymbia intermedia (pink bloodwood), Eucalyptus siderophloia (red ironbark), Eucalyptus microcorys (tallow wood), Eucalyptus acmenoides (narrow-leaved white stringybark)						
Shrubs	:	Native shrub cover (%)	:	5		
Typical shrub species: Alphitonia excelsa (soap tree), Alpinia caerulea (wild ginger), Clerodendrum floribundum (thurkoo)						
Ground cover (%):		Native perennial grass	cover (%):	23		
		Organic litter cover (%)	:	65		
Typical ground cover species: Themeda triandra (kangaroo grass), Imperata cylindrica (blady grass), Pteridium esculentum (common bracken), Doodia aspera (prickly rasp fern), Entolasia stricta (wiry panic)						
Coarse woody debris: Total length (m) of debris ≥ 10cm diameter and ≥0.5m in length per hectare: 613						

Selected typical species are those that characterize the ecosystem, community or stratum at reference sites. Up to five frequently occurring species for each stratum are selected. Users should refer to the regional ecosystem description database (REDD) and/or the technical description for more complete lists of characteristic species. Only the most frequently used common name is given. Other common names may be used in other regions. Declared pest species in Queensland are designated (^).

0