



## Department of Environment and Science

### Regional Ecosystem Technical Descriptions

Technical descriptions provide a detailed description of the full range in structure and floristic composition of regional ecosystems (e.g. 11.3.1) and their component vegetation communities (e.g. 11.3.1a, 11.3.1b).

The descriptions are compiled using site survey data from the Queensland Herbarium's CORVEG database. Distribution maps, representative images (if available) and the pre-clearing and remnant area (hectares) of each vegetation community derived from the regional ecosystem mapping (spatial) data are included. The technical descriptions should be used in conjunction with the fields from the regional ecosystem description database (REDD) for a full description of the regional ecosystem. Quantitative site data from relatively undisturbed sites are extracted from CORVEG and summarized to provide information specific to each vegetation community.

Technical descriptions include the attributes: tree canopy height and cover and native plant species composition of the predominant layer, which are used to assess the remnant status of vegetation under the *Vegetation Management Act 1999*. However, as technical descriptions reflect the full range in structure and floristic composition across the climatic, natural disturbance and geographic range of the regional ecosystem, local reference sites should be used where possible (Neldner *et al.* 2005 section 3.3.3).

The technical descriptions are subject to review and are updated as additional data becomes available.

When conducting a BioCondition assessment, these technical descriptions should be used in conjunction with [BioCondition benchmarks](#) for the specific regional ecosystem, or component vegetation community.

#### Field definitions

Description	Description of the species, structural formation and habitat of the vegetation community (this is not the Regulation description)
Area of pre-clearing regional ecosystem	The area of the regional ecosystem vegetation community before clearing in hectares
Area of remnant RE and percentage remaining	The area of the remnant regional ecosystem vegetation community in hectares and as a percentage of pre-clearing extent
Species recorded	Total number; number of woody species; number in the ground layer (some species can be both woody and occur in the ground layer); average number of species per site (using only sites where a completed species list was recorded); standard deviation; number of sites used to calculate the average species number.
Basal area	Site average, range and standard deviation (m <sup>2</sup> /hectare)
Structural Formation	Percentage of sites by structural formation. For example: Woodland: 39%; open-forest: 39%; open-woodland: 22%, 23 site(s)
Representative CORVEG sites	Site (id) numbers used in the description
For each stratum present: <ul style="list-style-type: none"> <li>Emergent (E)</li> <li>Canopy (T1), Sub-canopy (T2) and Low tree layers (T3)</li> <li>Shrub (S1) and Sub-shrub layers (S2)</li> <li>Ground (G)</li> </ul>	<ul style="list-style-type: none"> <li><i>Height</i> - average canopy height in metres, range in metres and number of sites values are based on.</li> <li><i>Cover</i> - Average percentage canopy cover of the layer, range and number of sites values are based on.</li> <li><i>Average stem density</i> (stems per hectare), range and number of sites values are based on.</li> </ul>
Dominant species (relative cover, frequency):	Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum.  For example: <i>Abutilon albescens</i> (78, 46%), means this species occurs in 46% of all sites and when it occurs comprises 78% of total cover (of the stratum)
Frequent species (cover, frequency):	Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency.  For example: <i>Abutilon albescens</i> (10, 46%), means this species occurs in 46% of all sites and when it occurs has a mean cover of 10%  Ground layer species are listed as either graminoid or forbs.  Naturalised species have an asterisk (*) after the scientific name.  <i>indet.</i> after listed name = indeterminate species or genus



QUEENSLAND GOVERNMENT

## Department of Environment and Science

### Conditions of use

Technical descriptions have been developed from information published by the State of Queensland (acting through the Department) and remain the property of the State of Queensland. Technical descriptions are not to be included on internet sites other than the Queensland Government website.

Users should reference information contained in the technical descriptions as: Pollock, A.B. (ed.) (year\*) Technical Descriptions of Regional Ecosystems of the Brigalow Belt North, (month, year\*) (Queensland Herbarium, Department of Environment and Science: Brisbane). \* Date shown in footnote of individual descriptions.

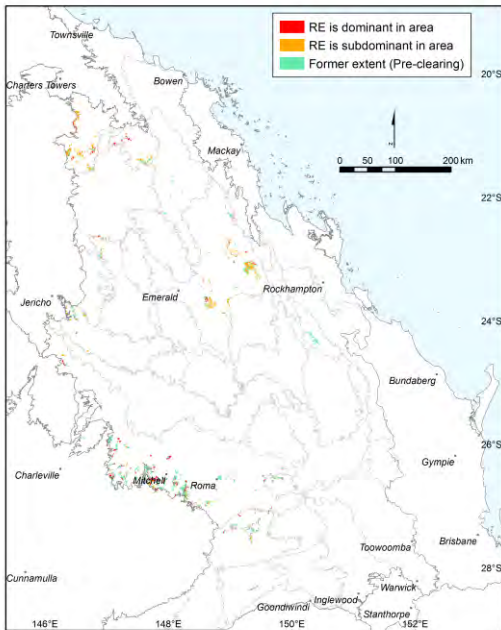
While every effort has been made to ensure the information presented is as reliable as possible, the State of Queensland accepts no liability and gives no assurance in respect of its accuracy and shall not be liable for any loss or damage arising from its use.

Technical descriptions are based on a combination of quantitative and qualitative information and should be used as a guide only. Technical descriptions are not to be used as a substitute for reference sites. Descriptions are subject to review and are updated as additional data becomes available.

### For more information, contact:

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**Acacia harpophylla and/or Casuarina cristata and Eucalyptus thozetiana or E. microcarpa woodland on lower scarp slopes on Cainozoic lateritic duricrust**



Michael Herring

**Pre-clearing area (ha), remnant area (ha) and per cent remaining:** 200,684 77,974 39%

**Species recorded:** Total: 115; woody: 44; ground: 84; Avg. spp./site: 33.3; std dev.: 5.3, 4 site(s)

**Basal area:** Avg./site: 10.8 m<sup>2</sup>/ha, range: 5.0 - 15 m<sup>2</sup>/ha, std. deviation: 4 m<sup>2</sup>/ha, 7 site(s)

**Structural formation:** Woodland: 71%; open-woodland: 29%, 7 site(s)

**Representative sites** 16831, 17025, 17153, 17576, 28867, 28876, 28939.

**Stratum: Tree 1**

**Height avg. = 18.6m, range 10-25m, 7 sites**  
**Crown cover avg. = 30.0%, range 18.0-50.0%, 7 sites**

*Dominant species (relative cover, frequency): Eucalyptus thozetiana (81, 100%), Casuarina cristata (61, 29%)*

*Frequent species (cover, frequency): Eucalyptus thozetiana (19, 100%), Casuarina cristata (13, 29%), Acacia harpophylla (2, 14%), Acacia rhodoxylon (14%), Everistia vacciniifolia (14%), Geijera parviflora (14%)*

**Stratum: Tree 2**

**Height avg. = 9.5m, range 4.5-16m, 6 sites**  
**Crown cover avg. = 18.2%, range 3.0-40.0%, 6 sites**

*Dominant species (relative cover, frequency): Eremophila mitchellii (66, 43%), Eucalyptus thozetiana (52, 29%)*

*Frequent species (cover, frequency): Eremophila mitchellii (11, 43%), Eucalyptus thozetiana (29%), Acacia harpophylla (40, 14%), Acacia rhodoxylon (3, 14%), Acacia shirleyi (1, 14%), Atalaya hemiglauca (14%), Casuarina cristata (14%), Ehretia membranifolia (14%), Geijera parviflora (1, 14%), Owenia acidula (14%)*

**Stratum: Tree 3**

**Height avg. = 3.0m, 1 site**  
**Crown cover avg. = 1.0%, 1 site**

*Frequent species (cover, frequency): Croton insularis (1, 14%)*

**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Shrub 1**

Height avg. = 2.1m, range 1.2-3m, 6 sites

Crown cover avg. = 21.4%, range 5.0-60.0%, 6 sites

*Dominant species (relative cover, frequency):* *Carissa ovata* (52, 57%), *Erythroxylum australe* (28, 29%), *Geijera parviflora* (19, 29%), *Ehretia membranifolia* (9, 29%), *Eremophila mitchellii* (8, 29%)

*Frequent species (cover, frequency):* *Carissa ovata* (12, 57%), *Capparis lasiantha* (43%), *Jasminum didymum subsp. lineare* (43%), *Abutilon oxycarpum* (29%), *Ehretia membranifolia* (3, 29%), *Eremophila mitchellii* (2, 29%), *Erythroxylum australe* (10, 29%), *Geijera parviflora* (10, 29%), *Notelaea microcarpa* (29%), *Opuntia tomentosa\** (29%), *Psydrax odorata* (1, 29%), *Abutilon calliphyllosum* (14%), *Acacia harpophylla* (1, 14%), *Acacia rhodoxylon* (1, 14%), *Acacia shirleyi* (3, 14%), *Alectryon diversifolius* (14%), *Alphitonia excelsa* (1, 14%), *Apophyllum anomalum* (14%), *Capparis mitchellii* (1, 14%), *Cassia brewsteri* (1, 14%), *Croton insularis* (3, 14%), *Cynanchum viminale subsp. brunonianum* (14%), *Dodonaea triangularis* (14%), *Dodonaea viscosa subsp. burmanniana* (1, 14%), *Elaeodendron australe* (1, 14%), *Erythroxylum sp. (Splityard Creek L.Pedley 5360)* (1, 14%), *Everistia vacciniifolia* (5, 14%), *Hovea longipes* (1, 14%), *Parsonsia lanceolata* (14%), *Petalostigma pubescens* (5, 14%), *Psydrax forsteri* (5, 14%), *Rhagodia spinescens* (2, 14%), *Salsola australis* (14%), *Sclerolaena birchii* (14%), *Sclerolaena diacantha* (14%)

**Stratum: Shrub 2**

Height avg. = 0.9m, range 0.8-1m, 2 sites

Crown cover avg. = 4.0%, range 2.9-5.0%, 2 sites

*Dominant species (relative cover, frequency):* *Carissa ovata* (46, 29%)

*Frequent species (cover, frequency):* *Carissa ovata* (3, 29%), *Alectryon diversifolius* (1, 14%), *Apophyllum anomalum* (14%), *Capparis lasiantha* (14%), *Diospyros humilis* (1, 14%), *Ehretia membranifolia* (1, 14%), *Enchylaena tomentosa* (14%), *Herissantia crispa* (14%), *Indigofera pratensis* (1, 14%)

**Stratum: Ground**

Height avg. = 0.5m, range 0.4-0.5m, 4 sites

PFC avg. = 20.8%, range 8-35%, 4 sites

*Dominant species (relative cover, frequency):* *Chloris divaricata* (41, 25%), *Scleria sphacelata* (30, 25%), *Dinebra decipiens* (27, 25%), *Austrostipa setacea* (27, 25%), *Paspalidium indet.* (20, 25%)

*Frequent species (cover, frequency):* GRAMINOIDS: *Ancistrachne uncinulata* (2, 75%), *Aristida calycina* (2, 50%), *Enneapogon lindleyanus* (5, 50%), *Paspalidium gracile* (2, 50%), *Aristida indet.* (1, 25%), *Aristida jerichoensis* (25%), *Austrostipa setacea* (10, 25%), *Cenchrus ciliaris\** (25%), *Chloris divaricata* (15, 25%), *Chloris ventricosa* (25%), *Cymbopogon ambiguus* (25%), *Cymbopogon refractus* (1, 25%), *Cyperus fulvus* (5, 25%), *Cyperus gracilis* (25%), *Dinebra decipiens* (10, 25%), *Enteropogon acicularis* (25%), *Eragrostis leptostachya* (1, 25%), *Eragrostis sororia* (1, 25%), *Fimbristylis dichotoma* (2, 25%), *Heteropogon contortus* (5, 25%), *Melinis repens\** (25%), *Monachather paradoxus* (25%), *Paspalidium disjunctum* (25%), *Paspalidium indet.* (2, 25%), *Scleria sphacelata* (3, 25%), *Sporobolus caroli* (25%)

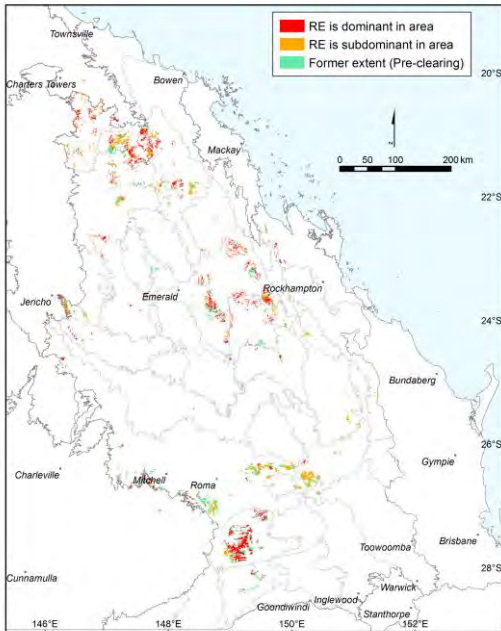
FORBS: *Enchylaena tomentosa* (75%), *Brunoniella australis* (50%), *Chenopodium desertorum subsp. microphyllum* (50%), *Nyssanthes erecta* (50%), *Opuntia stricta\** (50%), *Sida fibulifera* (50%), *Achyranthes aspera* (25%), *Alternanthera nana* (25%), *Boerhavia dominii* (25%), *Calotis cuneifolia* (25%), *Einadia hastata* (25%), *Eremophila debilis* (25%), *Euphorbia tannensis subsp. eremophila* (2, 25%), *Galactia tenuiflora* (25%), *Harrisia martinii\** (25%), *Hibiscus sturtii* (1, 25%), *Maireana microphylla* (25%), *Malvastrum americanum var. americanum\** (25%), *Marsdenia microlepis* (25%), *Marsdenia viridiflora subsp. viridiflora* (25%), *Opuntia aurantiaca\** (25%), *Opuntia tomentosa\** (25%), *Polycarpha corymbosa* (25%), *Pseuderanthemum variabile* (25%), *Rhagodia spinescens* (25%), *Sclerolaena diacantha* (25%), *Sclerolaena muricata* (25%), *Sida everistiana* (25%), *Sida rohlenae* (25%), *Solanum semiarmatum* (25%), *Spermacoce brachystema* (25%), *Vitadinia pustulata* (25%)

**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

Acacia spp. woodland on Cainozoic lateritic duricrust. Scarp retreat zone



Annie Kelly

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 564,695 367,290 65%

Species\_recorded: Total: 290; woody: 86; ground: 226; Avg. spp./site: 19.3; std dev.: 7.0, 29 site(s)

Basal area: Avg./site: 16.0 m<sup>2</sup>/ha, range: 4.0 - 29 m<sup>2</sup>/ha, std. deviation: 6 m<sup>2</sup>/ha, 40 site(s)

Structural formation: Open-forest: 38%; woodland: 26%; open-woodland: 17%; low woodland: 7%; low open-forest: 7%; low open-woodland: 2%; closed-forest: 2%, 42 site(s)

Representative\_sites 16231, 16243, 16330, 16338, 16563, 16830, 16870, 17021, 17045, 17154, 17156, 17176, 17182, 17367, 17383, 17388, 17451, 17452, 17552, 17554, 17558, 17560, 17563, 17566, 17567, 17568, 17570, 17571, 17656, 17675, 17688, 17694, 19119, 19154, 19159, 19161, 19258, 28761, 28853, 28869, 28936, 28944.

**Stratum: Emergent**

Height avg. = 18.5m, range 11-30m, 12 sites

Crown cover avg. = 5.7%, range 1.0-15.0%, 12 sites

Frequent species (cover, frequency): *Eucalyptus crebra* (5, 10%), *Corymbia citriodora* (5, 7%), *Acacia catenulata* (5, 2%), *Corymbia clarksoniana* (2%), *Corymbia dallachiana* (2, 2%), *Corymbia erythrophloia* (2, 2%), *Corymbia tessellaris* (5, 2%), *Eucalyptus cambageana* (2%), *Eucalyptus moluccana* (3, 2%), *Eucalyptus populnea* (5, 2%), *Eucalyptus suffulgens* (10, 2%), *Flindersia australis* (2%)

**Stratum: Tree 1**

Height avg. = 14.3m, range 6.5-27m, 42 sites

Crown cover avg. = 41.9%, range 8.0-82.0%, 42 sites

Dominant species (relative cover, frequency): *Acacia catenulata* (86, 26%), *Acacia shirleyi* (84, 45%), *Acacia rhodoxylon* (68, 29%), *Eucalyptus crebra* (14, 26%)

Frequent species (cover, frequency): *Acacia shirleyi* (43, 45%), *Acacia rhodoxylon* (28, 29%), *Acacia catenulata* (33, 26%), *Eucalyptus crebra* (6, 26%), *Eucalyptus exserta* (5, 12%), *Corymbia clarksoniana* (8, 7%), *Corymbia citriodora* (8, 5%), *Eucalyptus thozetiana* (9, 5%), *Alstonia constricta* (2%), *Angophora leiocarpa* (6, 2%), *Atalaya hemiglauca* (1, 2%), *Brachychiton populneus* (2%), *Corymbia intermedia* (2%), *Corymbia leichhardtii* (2, 2%), *Corymbia trachyphloia* (10, 2%), *Corymbia trachyphloia* subsp. *trachyphloia* (2, 2%), *Eucalyptus persistens* (2, 2%), *Hakea lorea* subsp. *lorea* (1, 2%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Tree 2**

Height avg. = 7.2m, range 2-16m, 26 sites

Crown cover avg. = 9.6%, range 1.6-55.0%, 26 sites

Dominant species (relative cover, frequency): *Acacia catenulata* (85, 21%), *Acacia shirleyi* (59, 24%)

Frequent species (cover, frequency): *Acacia shirleyi* (10, 24%), *Acacia catenulata* (7, 21%), *Alphitonia excelsa* (2, 12%), *Alstonia constricta* (1, 10%), *Acacia rhodoxylon* (8, 7%), *Eucalyptus exserta* (7%), *Eucalyptus crebra* (11, 5%), *Acacia aprepta* (2, 2%), *Brachychiton rupestris* (2%), *Breynia oblongifolia* (1, 2%), *Callitris glaucophylla* (2%), *Corymbia leichhardtii* (1, 2%), *Croton insularis* (10, 2%), *Denhamia cunninghamii* (2%), *Eremophila latrobei* (1, 2%), *Erythroxyllum sp.* (Splityard Creek L.Pedley 5360) (2, 2%), *Flindersia australis* (2, 2%), *Geijera parviflora* (1, 2%), *Hakea lorea subsp. lorea* (2, 2%), *Lysicarpus angustifolius* (2, 2%), *Opuntia tomentosa\** (2%), *Pandorea pandorana* (2%), *Petalostigma pubescens* (1, 2%), *Psyrax forsteri* (1, 2%), *Psyrax odorata* (3, 2%)

**Stratum: Tree 3**

Height avg. = 4.6m, range 3-7m, 10 sites

Crown cover avg. = 8.0%, range 2.0-25.0%, 10 sites

Frequent species (cover, frequency): *Acacia shirleyi* (6, 7%), *Acacia rhodoxylon* (8, 5%), *Alphitonia excelsa* (2, 5%), *Erythroxyllum australe* (7, 5%), *Erythroxyllum sp.* (Splityard Creek L.Pedley 5360) (1, 5%), *Petalostigma pubescens* (3, 5%), *Acacia bancroftiorum* (5, 2%), *Acacia catenulata* (4, 2%), *Alstonia constricta* (1, 2%), *Capparis canescens* (2%), *Eremophila latrobei subsp. glabra* (6, 2%), *Eucalyptus crebra* (2, 2%), *Lysicarpus angustifolius* (1, 2%)

**Stratum: Shrub 1**

Height avg. = 2.0m, range 0.5-5m, 33 sites

Crown cover avg. = 10.4%, range 1.0-40.0%, 33 sites

Dominant species (relative cover, frequency): *Acacia shirleyi* (60, 26%), *Acacia catenulata* (22, 21%), *Alstonia constricta* (19, 26%)

Frequent species (cover, frequency): *Acacia shirleyi* (6, 26%), *Alstonia constricta* (1, 26%), *Acacia catenulata* (1, 21%), *Erythroxyllum sp.* (Splityard Creek L.Pedley 5360) (2, 17%), *Everistia vacciniifolia* (2, 14%), *Erythroxyllum australe* (4, 12%), *Alphitonia excelsa* (3, 10%), *Croton insularis* (4, 10%), *Acacia rhodoxylon* (5, 7%), *Capparis lasiantha* (1, 5%), *Eremophila latrobei* (14, 5%), *Eremophila mitchellii* (5%), *Geijera parviflora* (2, 5%), *Opuntia tomentosa\** (5%), *Phebalium glandulosum* (2, 5%), *Terminalia oblongata subsp. oblongata* (1, 5%), *Abutilon oxycarpum var. oxycarpum* (2, 2%), *Acacia aprepta* (1, 2%), *Acacia leiocalyx subsp. leiocalyx* (2%), *Acalypha eremorum* (2%), *Allocasuarina littoralis* (2%), *Angophora leiocarpa* (4, 2%), *Atalaya hemiglaucula* (1, 2%), *Bertya oleifolia* (30, 2%), *Beyeria viscosa* (2, 2%), *Carissa ovata* (10, 2%), *Cerbera dumicola* (1, 2%), *Claoxylon australe* (2, 2%), *Clematicissus opaca* (1, 2%), *Corymbia trachyphloia subsp. trachyphloia* (2, 2%), *Dodonaea filifolia* (1, 2%), *Enchylaena tomentosa* (2%), *Eremophila latrobei subsp. glabra* (6, 2%), *Euphorbia tannensis subsp. eremophila* (5, 2%), *Everistia vacciniifolia forma vacciniifolia* (1, 2%), *Flindersia australis* (2%), *Hakea lorea* (1, 2%), *Herissantia crispa* (2%), *Hibiscus sp.* (Emerald S.L.Everist 2124) (2%), *Leptospermum indet.* (5, 2%), *Marsdenia viridiflora* (2%), *Micromyrtus capricornia* (10, 2%), *Olearia canescens* (2, 2%), *Opuntia aurantiaca\** (1, 2%), *Parsonsia eucalyptophylla* (2%), *Petalostigma pubescens* (1, 2%), *Phebalium glandulosum subsp. glandulosum* (14, 2%), *Phebalium nottii* (8, 2%), *Pittosporum spinescens* (2, 2%), *Planchonella cotinifolia* (2%), *Psyrax forsteri* (2%), *Psyrax odorata* (1, 2%), *Psyrax odorata forma buxifolia* (1, 2%), *Secamone elliptica* (2%), *Sida rohlenae* (1, 2%), *Solanum ferocissimum* (2%), *Waltheria indica* (2%),

**Stratum: Shrub 2**

Height avg. = 0.8m, range 0.5-1.5m, 4 sites

Crown cover avg. = 5.0%, range 0.0-8.0%, 4 sites

Frequent species (cover, frequency): *Acacia shirleyi* (1, 2%), *Alphitonia excelsa* (5, 2%), *Petalostigma pubescens* (1, 2%), *Seringia hookeriana* (5, 2%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Ground**

Height avg. = 0.4m, range 0.2-1.2m, 28 sites

PFC avg. = 27.0%, range 1-70%, 29 sites

*Dominant species (relative cover, frequency):* *Calypochloa gracillima* subsp. *gracillima* (36, 34%), *Thyridolepis xerophila* (36, 21%), *Aristida caput-medusae* (20, 45%), *Eragrostis lacunaria* (17, 24%), *Entolasia stricta* (14, 24%)

*Frequent species (cover, frequency):* GRAMINOIDS: *Aristida caput-medusae* (5, 45%), *Calypochloa gracillima* subsp. *gracillima* (13, 34%), *Entolasia stricta* (5, 24%), *Eragrostis lacunaria* (3, 24%), *Aristida calycina* (1, 21%), *Paspalidium criniforme* (3, 21%), *Thyridolepis xerophila* (13, 21%), *Aristida jerichoensis* var. *subspinulifera* (3, 17%), *Paspalidium distans* (14%), *Aristida queenslandica* var. *dissimilis* (1, 14%), *Cenchrus ciliaris*\* (1, 14%), *Melinis repens*\* (14%), *Panicum effusum* (14%), *Scleria sphacelata* (3, 14%), *Ancistrachne uncinulata* (1, 10%), *Cleistochloa subjuncea* (12, 10%), *Digitaria breviglumis* (5, 10%), *Digitaria ramularis* (4, 10%), *Dinebra decipiens* (10%), *Enneapogon lindleyanus* (2, 10%), *Gahnia aspera* (10%), *Paspalidium gracile* (4, 10%), *Setaria dielsii* (1, 10%), *Aristida* *indet.* (7%), *Aristida lignosa* (1, 7%), *Aristida queenslandica* var. *queenslandica* (3, 7%), *Chrysopogon fallax* (7%), *Cleistochloa* sp. (*Duaranga* K.B.Addison 42) (13, 7%), *Cyperus bowmannii* (1, 7%), *Eragrostis sororia* (7%), *Eriachne mucronata* (1, 7%), *Eriochloa pseudoacrotricha* (7%), *Panicum decompositum* (3, 7%), *Paspalidium constrictum* (2, 7%), *Schoenus kennyi* (1, 7%), *Sporobolus caroli* (7%), *Thyridolepis mitchelliana* (2, 7%)

FORBS: *Cheilanthes sieberi* (1, 48%), *Alphitonia excelsa* (24%), *Calotis cuneifolia* (1, 24%), *Evolvulus alsinoides* (24%), *Sida* sp. (*Musselbrook* M.B.Thomas+ MRS437) (1, 24%), *Solanum ellipticum* (21%), *Clematicissus opaca* (1, 17%), *Oxalis radicata* (1, 17%), *Solanum parvifolium* (17%), *Brunoniella australis* (14%), *Cheilanthes sieberi* subsp. *sieberi* (14%), *Lomandra longifolia* (14%), *Parsonsia straminea* (1, 14%), *Sida hackettiana* (14%), *Sida trichopoda* (7, 14%), *Everistia vacciniifolia* (10%), *Goodenia rotundifolia* (1, 10%), *Lomandra confertifolia* subsp. *pallida* (10%), *Malvastrum americanum* var. *americanum*\* (1, 10%), *Melhantha oblongifolia* (2, 10%), *Opuntia stricta*\* (10%), *Sida* *indet.* (3, 10%), *Solanum* *indet.* (10%), *Abutilon oxycarpum* (1, 7%), *Achyranthes aspera* (7%), *Alstonia constricta* (7%), *Dysphania valida* (1, 7%), *Euphorbia dallachyana* (7%), *Euphorbia drummondii* (7%), *Euphorbia hyssopifolia*\* (7%), *Euphorbia tannensis* subsp. *eremophila* (7%), *Harrisia martinii*\* (7%), *Hibiscus* sp. (*Emerald* S.L.Everist 2124) (1, 7%), *Hibiscus sturtii* (1, 7%), *Jasminum didymum* subsp. *didymum* (7%), *Laxmannia gracilis* (7%), *Lomandra multiflora* subsp. *multiflora* (1, 7%), *Marsdenia viridiflora* (7%), *Olearia gordonii* (7%), *Opuntia tomentosa*\* (7%), *Oxalis* *indet.* (7%), *Phyllanthus carpentariae* (1, 7%), *Phyllanthus virgatus* (1, 7%), *Portulaca filifolia* (7%), *Pseudanthemum variabile* (7%), *Psydrax johnsonii* (1, 7%), *Sida aprica* var. *aprica* (7%)

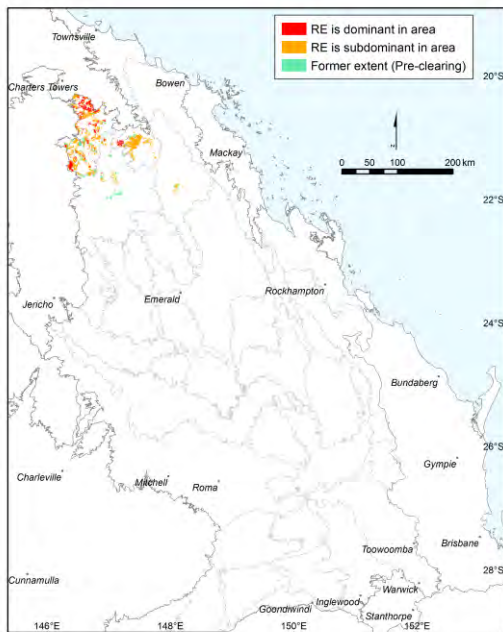
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**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Eucalyptus persistens, Triodia mitchellii open woodland on stripped margins of Cainozoic lateritic duricrust**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 105,041 91,357 87%

Species\_recorded: Total: 74; woody: 31; ground: 45; Avg. spp./site: 16.0; std dev.: 9.6, 3 site(s)

Basal area: Avg./site: 3.9 m<sup>2</sup>/ha, range: 1.0 - 9 m<sup>2</sup>/ha, std. deviation: 3 m<sup>2</sup>/ha, 4 site(s)

Structural formation: Open-woodland: 40%; low open-woodland: 40%; woodland: 20%, 5 site(s)

Representative\_sites 1901, 2461, 3225, 17018, 19160.

**Stratum: Tree 1**

Height avg. = 13.0m, range 5-22m, 5 sites

Crown cover avg. = 12.6%, range 3.0-20.0%, 5 sites

Dominant species (relative cover, frequency): *Eucalyptus persistens* (90, 100%)

Frequent species (cover, frequency): *Eucalyptus persistens* (12, 100%), *Corymbia clarksoniana* (2, 20%), *Eucalyptus crebra* (8, 20%)

**Stratum: Tree 2**

Height avg. = 6.3m, range 3-10m, 3 sites

Crown cover avg. = 9.3%, range 1.0-22.0%, 3 sites

Frequent species (cover, frequency): *Acacia bancroftiorum* (20%), *Acacia excelsa* (5, 20%), *Acacia julifera* (2, 20%), *Acacia leiocalyx subsp. leiocalyx* (5, 20%), *Acacia torulosa* (20%), *Alectryon oleifolius subsp. elongatus* (20%), *Alphitonia excelsa* (20%), *Atalaya hemiglauca* (5, 20%), *Diospyros humilis* (20%), *Ehretia membranifolia* (20%), *Elaeodendron australe* (10, 20%), *Eucalyptus persistens* (1, 20%), *Geijera salicifolia* (20%), *Melaleuca nervosa* (20%), *Pittosporum spinescens* (20%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus



**Stratum: Tree 3**

Height avg. = 6.0m, 1 site

**Stratum: Shrub 1**

Height avg. = 1.3m, range 0.5-1.5m, 5 sites

Crown cover avg. = 1.6%, range 0.0-4.0%, 5 sites

*Dominant species (relative cover, frequency): Myoporum acuminatum (24, 40%), Eucalyptus persistens (16, 40%)*

*Frequent species (cover, frequency): Eucalyptus persistens (40%), Myoporum acuminatum (40%), Acacia cowleana (20%), Alphitonia excelsa (2, 20%), Capparis lasiantha (20%), Croton phebalioides (1, 20%), Enchylaena tomentosa (20%), Eremophila mitchellii (1, 20%), Erythroxylum australe (20%), Flueggea leucopyrus (2, 20%), Grewia retusifolia (20%), Petalostigma pubescens (20%), Psydrax attenuata (1, 20%), Senna coronilloides (1, 20%), Waltheria indica (20%)*

**Stratum: Shrub 2**

Height avg. = 1.0m, 1 site

Crown cover avg. = 1.0%, 1 site

*Frequent species (cover, frequency): Carissa lanceolata (20%)*

**Stratum: Ground**

Height avg. = 0.4m, range 0.2-0.6m, 3 sites

PFC avg. = 40.0%, range 20-50%, 3 sites

*Dominant species (relative cover, frequency): Triodia pungens (97, 33%), Triodia longiceps (46, 33%), Chrysopogon fallax (22, 33%), Eriachne mucronata (15, 33%), Paspalidium caespitosum (15, 33%)*

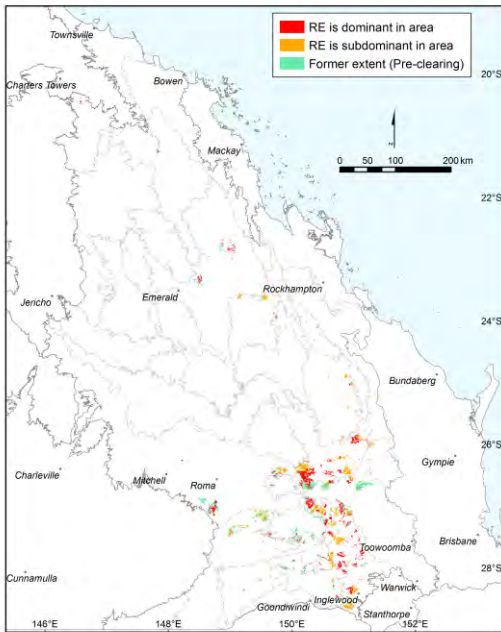
*Frequent species (cover, frequency): GRAMINOIDS: Cenchrus ciliaris\* (3, 67%), Cymbopogon bombycinus (1, 67%), Aristida calycina (1, 33%), Cenchrus pennisetiformis\* (5, 33%), Chrysopogon fallax (10, 33%), Cleistochloa subjuncea (2, 33%), Cyperus indet. (33%), Cyperus leiocaulon (33%), Eragrostis sororia (5, 33%), Eriachne mucronata (1, 33%), Fimbristylis dichotoma (33%), Melinis repens\* (33%), Panicum effusum (5, 33%), Paspalidium caespitosum (1, 33%), Perotis rara (1, 33%), Setaria surgens (5, 33%), Sporobolus scabridus (33%), Triodia longiceps (3, 33%), Triodia pungens (20, 33%)  
FORBS: Buchnera linearis (33%), Calotis cuneifolia (33%), Enchylaena tomentosa (33%), Evolvulus alsinoides (33%), Hibiscus meraukensis (33%), Hypericum gramineum (33%), Mitrasacme indet. (33%), Phyllanthus carpentariae (33%), Phyllanthus virgatus (33%), Rostellularia adscendens (33%), Sida rohlenae (5, 33%), Solanum ellipticum (33%), Spermacoe brachystema (33%), Sphaeromorphaea indet. (2, 33%), Stylosanthes hamata\* (33%)*

**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Eucalyptus decorticans and/or Eucalyptus spp., Corymbia spp., Acacia spp., Lysicarpus angustifolius woodland on Cainozoic lateritic duricrust**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 315,862 196,274 62%

Species\_recorded: Total: 283; woody: 119; ground: 202; Avg. spp./site: 27.4; std dev.: 11.2, 19 site(s)

Basal area: Avg./site: 13.3 m<sup>2</sup>/ha, range: 4.5 - 23 m<sup>2</sup>/ha, std. deviation: 5 m<sup>2</sup>/ha, 25 site(s)

Structural formation: Woodland: 48%; open-forest: 28%; open-woodland: 12%; low open-woodland: 4%; closed-forest: 4%; unrecorded: 4%, 25 site(s)

Representative\_sites 14200, 16557, 16662, 16705, 16706, 16709, 16753, 16757, 16806, 16810, 16814, 16818, 16827, 16833, 16914, 16955, 24582, 24667, 24722, 28746, 28747, 28904, 59174, 60758, 60779.

**Stratum: Emergent**

Height avg. = 15.3m, range 10-18m, 3 sites

Crown cover avg. = 4.3%, range 1.0-10.0%, 3 sites

Frequent species (cover, frequency): *Eucalyptus fibrosa* subsp. *nubilis* (6, 8%), *Eucalyptus beaniana* (2, 4%)

**Stratum: Tree 1**

Height avg. = 15.7m, range 7-26m, 25 sites

Crown cover avg. = 37.6%, range 10.0-70.0%, 25 sites

Dominant species (relative cover, frequency): *Eucalyptus crebra* (29, 40%), *Corymbia trachyphloia* (25, 28%), *Eucalyptus exserta* (25, 24%)

Frequent species (cover, frequency): *Eucalyptus crebra* (12, 40%), *Corymbia trachyphloia* (6, 28%), *Eucalyptus exserta* (11, 24%), *Eucalyptus tenuipes* (11, 20%), *Acacia burrowii* (26, 16%), *Angophora leiocarpa* (9, 16%), *Corymbia trachyphloia* subsp. *trachyphloia* (6, 16%), *Acacia sparsiflora* (6, 12%), *Eucalyptus apothalassica* (3, 12%), *Eucalyptus decorticans* (31, 12%), *Eucalyptus fibrosa* subsp. *nubilis* (9, 12%), *Lysicarpus angustifolius* (5, 12%), *Allocasuarina inophloia* (5, 8%), *Amyema quandang* var. *quandang* (8%), *Callitris endlicheri* (5, 8%), *Corymbia clarksoniana* (5, 8%), *Eucalyptus fibrosa* (50, 8%), *Eucalyptus viridis* (35, 8%), *Acacia crassa* subsp. *crassa* (4, 4%), *Acacia indet.* (5, 4%), *Acacia shirleyi* (45, 4%), *Acacia striatifolia* (5, 4%), *Alphitonia excelsa* (4%), *Brachychiton populneus* (1, 4%), *Callitris glaucophylla* (4%), *Corymbia citriodora* (10, 4%), *Corymbia citriodora* subsp. *variegata* (6, 4%), *Corymbia dallachiana* (4%), *Corymbia watsoniana* (4, 4%), *Eucalyptus baileyana* (1, 4%), *Eucalyptus beaniana* (2, 4%), *Eucalyptus curtisii* (5, 4%), *Eucalyptus melanoleuca* (11, 4%), *Eucalyptus moluccana* (4%), *Eucalyptus panda* (14, 4%), *Eucalyptus taurina* (19, 4%), *Solanum nemophilum* (4%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Tree 2**

Height avg. = 9.4m, range 3-16m, 14 sites

Crown cover avg. = 19.9%, range 5.0-85.0%, 14 sites

*Frequent species (cover, frequency): Allocasuarina inophloia (5, 20%), Eucalyptus crebra (3, 20%), Corymbia trachyphloia (2, 16%), Corymbia trachyphloia subsp. trachyphloia (10, 16%), Eucalyptus exserta (1, 12%), Eucalyptus tenuipes (14, 12%), Callitris endlicheri (15, 8%), Eucalyptus apothalassica (2, 8%), Eucalyptus decorticans (11, 8%), Eucalyptus fibrosa (3, 8%), Eucalyptus fibrosa subsp. nubilis (6, 8%), Lysicarpus angustifolius (2, 8%), Acacia burrowii (1, 4%), Acacia crassa (4%), Acacia indet. (25, 4%), Acacia julifera (6, 4%), Acacia sparsiflora (6, 4%), Alphitonia excelsa (4%), Angophora leiocarpa (12, 4%), Callitris glaucophylla (4, 4%), Corymbia citriodora (10, 4%), Corymbia watsoniana (1, 4%)*

**Stratum: Tree 3**

Height avg. = 5.2m, range 4-7m, 3 sites

Crown cover avg. = 12.7%, range 9.0-15.0%, 3 sites

*Frequent species (cover, frequency): Allocasuarina inophloia (5, 8%), Eucalyptus apothalassica (1, 8%), Eucalyptus decorticans (7, 8%), Acacia crassa (2, 4%), Acacia julifera (1, 4%), Callitris glaucophylla (7, 4%), Corymbia trachyphloia (6, 4%)*

**Stratum: Shrub 1**

Height avg. = 2.6m, range 0.8-5m, 22 sites

Crown cover avg. = 13.1%, range 0.0-58.0%, 23 sites

*Dominant species (relative cover, frequency): Allocasuarina inophloia (31, 28%), Alphitonia excelsa (26, 36%)*

*Frequent species (cover, frequency): Aristida calycina (4%), Arundinella nepalensis (1, 4%), Cleistochloa subjuncea (4%), Digitaria ramularis (4%), Enteropogon unispiceus (4%), Entolasia stricta (4%), Gahnia aspera (4%), Panicum effusum (4%), Scleria sphacelata (4, 4%), Alphitonia excelsa (3, 36%), Allocasuarina inophloia (6, 28%), Acacia conferta (5, 16%), Acacia crassa (3, 16%), Eucalyptus crebra (3, 16%), Petalostigma pubescens (1, 16%), Acacia julifera (4, 12%), Angophora leiocarpa (12%), Eucalyptus tenuipes (3, 12%), Acacia buxifolia subsp. pubiflora (8%), Acacia complanata (1, 8%), Acacia leiocalyx subsp. leiocalyx (6, 8%), Acacia semilunata (8%), Acacia sparsiflora (5, 8%), Callitris endlicheri (2, 8%), Eucalyptus exserta (1, 8%), Lysicarpus angustifolius (1, 8%), Acacia aulacocarpa (4%), Acacia bancroftiorum (1, 4%), Acacia burrowii (1, 4%), Acacia crassa subsp. crassa (26, 4%), Acacia crassa subsp. longicoma (4%), Acacia indet. (1, 4%), Acacia juncifolia (5, 4%), Acacia loroloba (3, 4%), Acacia podalyriifolia (4%), Acacia pustula (4%), Acacia shirleyi (2, 4%), Acacia striatifolia (5, 4%), Alectryon diversifolius (4%), Allocasuarina luehmannii (1, 4%), Alstonia constricta (4%), Asteraceae indet. (4, 4%), Boronia indet. (1, 4%), Breynia oblongifolia (4%), Callitris glaucophylla (3, 4%), Calytrix gurlumundensis (5, 4%), Calytrix tetragona (1, 4%), Capparis indet. (4%), Carissa ovata (4%), Corymbia citriodora (2, 4%), Corymbia citriodora subsp. variegata (4%), Corymbia trachyphloia (2, 4%), Corymbia trachyphloia subsp. trachyphloia (4%), Croton phebalioides (1, 4%), Cyathillium cinereum (4%), Denhamia bilocularis (4%), Denhamia cunninghamii (1, 4%), Dianella longifolia (4%), Dodonaea triangularis (4%), Erythroxylum australe (8, 4%), Eucalyptus decorticans (10, 4%), Eucalyptus fibrosa (2, 4%), Eucalyptus panda (4%), Euphorbia dallachyana (4%), Eustrephus latifolius (4%), Evolvulus alsinoides (4%), Gonocarpus elatus (4%), Hibiscus sturtii (4%), Jacksonia rhadinoclona (5, 4%), Jacksonia scoparia (4%), Jasminum didymum (1, 4%), Kunzea opposita var. opposita (8, 4%), Leucopogon blakei (1, 4%), Lobelia purpurascens (4%), Lomandra multiflora subsp. multiflora (4%), Marsdenia indet. (4%), Micromyrtus capricornia (4%), Opercularia diphylla (4%), Opuntia stricta\* (1, 4%), Philotheca difformis (1, 4%), Phyllanthus fuernrohrii (4%), Pseuderanthemum variabile (4%), Psydrax odorata forma subnitida (51, 4%), Senna aciphylla (4%), Sida corrugata (4%), Solanum jucundum (4%), Solanum nemophilum (4%), Xanthorrhoea johnsonii (1, 4%)*

**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Shrub 2**

Height avg. = 1.3m, range 0.5-2.2m, 10 sites

Crown cover avg. = 13.8%, range 1.0-40.0%, 9 sites

*Frequent species (cover, frequency):* *Alphitonia excelsa* (1, 20%), *Acacia conferta* (8, 16%), *Acacia sparsiflora* (1, 8%), *Allocasuarina inophloia* (3, 8%), *Boronia bipinnata* (1, 8%), *Dodonaea triangularis* (9, 8%), *Hibbertia cistoidea* (8%), *Acacia buxifolia* subsp. *pubiflora* (4%), *Acacia crassa* subsp. *longicoma* (4%), *Acacia julifera* (1, 4%), *Acacia juncifolia* (1, 4%), *Acacia nerifolia* (2, 4%), *Acacia podalyriifolia* (4%), *Allocasuarina luehmannii* (1, 4%), *Boronia glabra* (6, 4%), *Boronia rosmarinifolia* (20, 4%), *Brachyloma daphnoides* (4%), *Callitris endlicheri* (1, 4%), *Cassinia laevis* (2, 4%), *Corymbia citriodora* (1, 4%), *Corymbia trachyphloia* (1, 4%), *Cryptandra longistaminea* (5, 4%), *Denhamia cunninghamii* (1, 4%), *Dodonaea peduncularis* (1, 4%), *Eucalyptus exserta* (1, 4%), *Leucopogon biflorus* (1, 4%), *Marsdenia* indet. (4%), *Melichrus* sp. (*Isla Gorge P.Sharpe+ 601*) (1, 4%), *Notelaea* sp. (*Barakula A.R.Bean 7553*) (5, 4%), *Olearia microphylla* (1, 4%), *Persoonia terminalis* subsp. *recurva* (1, 4%), *Pittosporum spinescens* (1, 4%), *Seringia corollata* (10, 4%), *Xanthorrhoea johnsonii* (1, 4%), *Zieria cytisoides* (1, 4%)

**Stratum: Ground**

Height avg. = 0.4m, range 0.1-1m, 18 sites

PFC avg. = 31.8%, range 1-70%, 19 sites

*Dominant species (relative cover, frequency):* *Dodonaea triangularis* (24, 21%), *Panicum simile* (22, 26%), *Aristida caput-medusae* (20, 68%), *Cleistochloa subjuncea* (17, 32%), *Entolasia stricta* (16, 42%)

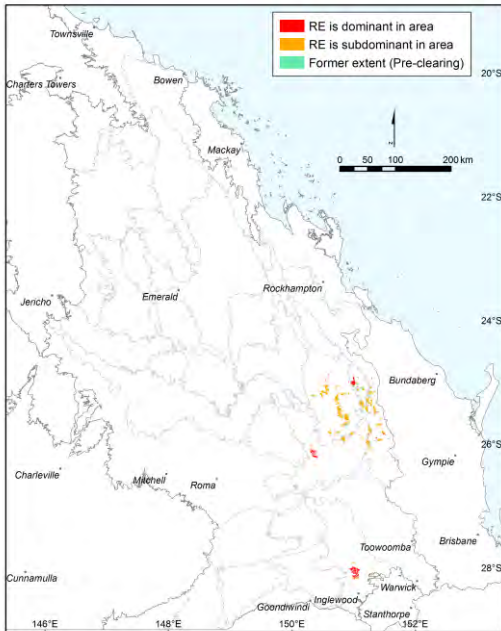
*Frequent species (cover, frequency):* GRAMINOIDS: *Aristida caput-medusae* (6, 68%), *Entolasia stricta* (6, 42%), *Gahnia aspera* (42%), *Scleria sphacelata* (3, 42%), *Aristida calycina* (4, 37%), *Cleistochloa subjuncea* (4, 32%), *Cymbopogon refractus* (1, 26%), *Panicum simile* (8, 26%), *Ancistrachne uncinulata* (1, 21%), *Eriachne pallescens* (1, 21%), *Lepidosperma laterale* (1, 21%), *Paspalidium gracile* (21%), *Aristida jerichoensis* var. *jerichoensis* (1, 16%), *Aristida queenslandica* var. *dissimilis* (2, 16%), *Calyptrichloa gracillima* subsp. *gracillima* (16%), *Digitaria ramularis* (2, 16%), *Dimorphochloa rigida* (7, 16%), *Eragrostis lacunaria* (16%), *Panicum effusum* (5, 16%), *Aristida* indet. (11%), *Aristida leichhardtiana* (11%), *Aristida queenslandica* var. *queenslandica* (1, 11%), *Aristida vagans* (3, 11%), *Enneapogon lindleyanus* (1, 11%), *Enteropogon* indet. (11%), *Eragrostis* indet. (11%), *Eragrostis leptostachya* (3, 11%), *Eragrostis sororia* (2, 11%), *Eragrostis spartinoides* (11%), *Eriachne mucronata* (1, 11%), *Eulalia aurea* (10, 11%), *Oplismenus aemulus* (11%), *Panicum decompositum* (11%), *Paspalidium distans* (11%), *Schoenus* indet. (3, 11%), *Schoenus kennyi* (2, 11%), *Thyridolepis mitchelliana* (1, 11%)  
FORBS: *Dianella revoluta* (37%), *Cheilanthes sieberi* subsp. *sieberi* (1, 32%), *Brunoniella australis* (26%), *Cheilanthes sieberi* (26%), *Lomandra filiformis* (26%), *Lomandra multiflora* subsp. *multiflora* (26%), *Pomax umbellata* (1, 26%), *Boronia bipinnata* (21%), *Cyanthillium cinereum* (21%), *Dodonaea triangularis* (2, 21%), *Pseuderanthemum variabile* (1, 21%), *Chrysocephalum apiculatum* (16%), *Cryptandra longistaminea* (8, 16%), *Goodenia delicata* (16%), *Goodenia glabra* (16%), *Hibiscus sturtii* (16%), *Laxmannia gracilis* (16%), *Opuntia tomentosa*\* (16%), *Oxalis perennans* (16%), *Phyllanthus virgatus* (16%), *Sida* sp. (*Musselbrook M.B.Thomas+ MRS437*) (16%), *Solanum nemophilum* (16%), *Brunfelsia australis*\* (11%), *Dianella brevipedunculata* (11%), *Dianella longifolia* (1, 11%), *Glycine clandestina* (11%), *Gonocarpus* indet. (11%), *Hibbertia cistoidea* (1, 11%), *Lomandra filiformis* subsp. *filiformis* (1, 11%), *Lomandra longifolia* (1, 11%), *Melichrus urceolatus* (1, 11%), *Oxalis corniculata*\* (11%), *Rostellularia adscendens* (11%), *Sida trichopoda* (11%)

**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

Mixed Eucalyptus spp. woodland on Cainozoic lateritic duricrusts



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 33,810 30,804 91%

Species\_recorded: Total: 81; woody: 17; ground: 71; Avg. spp./site: 29.0; std dev.: 0.8, 3 site(s)

Basal area: Avg./site: 13.0 m<sup>2</sup>/ha, range: 11.0 - 16 m<sup>2</sup>/ha, std. deviation: 2 m<sup>2</sup>/ha, 4 site(s)

Structural formation: Woodland: 75%; low woodland: 25%, 4 site(s)

Representative\_sites 16629, 16630, 16949, 16953.

**Stratum: Emergent**

Height avg. = 17.0m, 1 site

Crown cover avg. = 4.0%, 1 site

Dominant species (relative cover, frequency): *Eucalyptus fibrosa subsp. nubilis* (100, 25%)

Frequent species (cover, frequency): *Eucalyptus fibrosa subsp. nubilis* (4, 25%)

**Stratum: Tree 1**

Height avg. = 20.8m, range 7-26m, 4 sites

Crown cover avg. = 33.5%, range 30.0-38.0%, 4 sites

Dominant species (relative cover, frequency): *Eucalyptus bakeri* (91, 25%), *Eucalyptus decorticans* (89, 75%), *Eucalyptus fibrosa subsp. nubilis* (17, 50%), *Eucalyptus cloeziana* (6, 25%)

Frequent species (cover, frequency): *Eucalyptus decorticans* (29, 75%), *Eucalyptus fibrosa subsp. nubilis* (6, 50%), *Acacia crassa* (25%), *Callitris glaucophylla* (25%), *Eucalyptus bakeri* (33, 25%), *Eucalyptus cloeziana* (2, 25%), *Eucalyptus decolor* (25%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Tree 2**

Height avg. = 12.3m, range 3-17m, 4 sites

Crown cover avg. = 12.5%, range 3.0-24.0%, 4 sites

Dominant species (relative cover, frequency): *Eucalyptus bakeri* (100, 25%), *Eucalyptus decorticans* (73, 75%), *Corymbia watsoniana* (24, 25%), *Eucalyptus fibrosa subsp. nubilis* (21, 25%), *Eucalyptus acmenoides* (19, 25%)

Frequent species (cover, frequency): *Eucalyptus decorticans* (11, 75%), *Callitris glaucophylla* (2, 25%), *Corymbia watsoniana* (3, 25%), *Eucalyptus acmenoides* (2, 25%), *Eucalyptus bakeri* (3, 25%), *Eucalyptus cloeziana* (1, 25%), *Eucalyptus decolor* (25%), *Eucalyptus fibrosa subsp. nubilis* (5, 25%)

**Stratum: Shrub 1**

Height avg. = 1.8m, range 1.2-2.2m, 4 sites

Crown cover avg. = 9.8%, range 1.0-20.0%, 4 sites

Dominant species (relative cover, frequency): *Prostanthera sp. (Dunmore D.M.Gordon 8A)* (83, 25%), *Acacia bancroftiorum* (71, 50%), *Acacia semilunata* (42, 25%), *Acacia conferta* (32, 50%), *Dodonaea triangularis* (17, 50%)

Frequent species (cover, frequency): *Acacia bancroftiorum* (1, 50%), *Acacia conferta* (4, 50%), *Dodonaea triangularis* (3, 50%), *Acacia leiocalyx subsp. leiocalyx* (25%), *Acacia semilunata* (1, 25%), *Callitris glaucophylla* (1, 25%), *Marsdenia viridiflora* (25%), *Persoonia terminalis subsp. recurva* (1, 25%), *Prostanthera sp. (Dunmore D.M.Gordon 8A)* (15, 25%)

**Stratum: Ground**

Height avg. = 0.6m, range 0.25-1m, 3 sites

PFC avg. = 32.7%, range 21-50%, 3 sites

Dominant species (relative cover, frequency): *Enneapogon indet.* (25, 33%), *Lomandra confertifolia subsp. pallida* (23, 100%), *Acacia conferta* (20, 33%), *Scleria mackaviensis* (17, 33%), *Aristida queenslandica var. queenslandica* (16, 67%)

Frequent species (cover, frequency): GRAMINOIDS: *Aristida caput-medusae* (67%), *Aristida queenslandica var. queenslandica* (5, 67%), *Entolasia stricta* (4, 67%), *Panicum effusum* (2, 67%), *Ancistrachne uncinulata* (2, 33%), *Aristida calycina* (33%), *Aristida indet.* (33%), *Arundinella nepalensis* (1, 33%), *Cymbopogon refractus* (3, 33%), *Digitaria indet.* (33%), *Enneapogon indet.* (6, 33%), *Gahnia aspera* (33%), *Paspalidium criniforme* (1, 33%), *Paspalidium gracile* (1, 33%), *Scleria mackaviensis* (5, 33%)

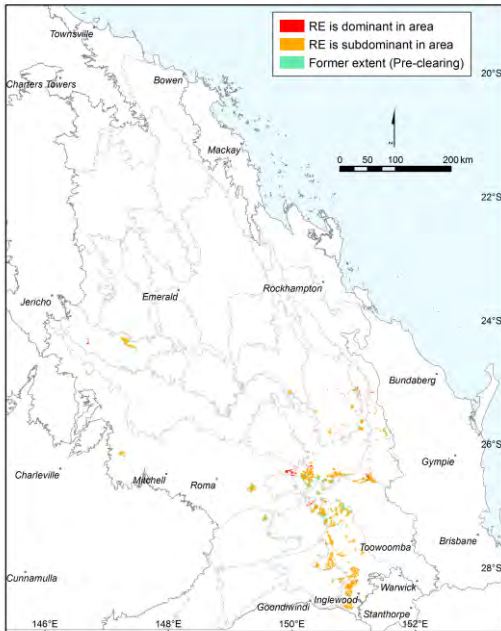
FORBS: *Lomandra confertifolia subsp. pallida* (5, 100%), *Alphitonia excelsa* (67%), *Denhamia cunninghamii* (1, 67%), *Dianella brevipedunculata* (67%), *Dodonaea triangularis* (1, 67%), *Evolvulus alsinoides* (67%), *Lomandra multiflora subsp. multiflora* (67%), *Marsdenia micradenia* (67%), *Phyllanthus virgatus* (67%), *Seringia corollata* (67%), *Acacia bancroftiorum* (3, 33%), *Acacia conferta* (4, 33%), *Acacia crassa subsp. crassa* (33%), *Acacia leiocalyx subsp. leiocalyx* (33%), *Acacia neriifolia* (33%), *Acacia podalyriifolia* (33%), *Brachyscome multifida* (2, 33%), *Brunoniella australis* (33%), *Calotis cuneata* (33%), *Calotis dentex* (33%), *Cheilanthes distans* (33%), *Cheilanthes sieberi* (33%), *Cyanthillium cinereum* (33%), *Daviesia ulicifolia* (33%), *Desmodium gangeticum* (33%), *Dianella longifolia* (33%), *Einadia nutans* (33%), *Eustrephus latifolius* (33%), *Exocarpos cupressiformis* (33%), *Goodenia gracilis* (33%), *Goodenia rotundifolia* (33%), *Grewia latifolia* (33%), *Hibbertia indet.* (33%), *Hibiscus sturtii* (33%), *Hovea angustissima* (33%), *Hydrocotyle acutiloba* (33%), *Macrozamia machinii* (33%), *Olearia canescens* (33%), *Peripleura hispidula* (33%), *Platysace ericoides* (33%), *Pultenaea spinosa* (33%), *Senna aciphylla* (1, 33%), *Sida indet.* (2, 33%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

Shrubland on natural scalds on deeply weathered coarse-grained sedimentary rocks



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 73,770 63,026 85%

Species\_recorded: Total: 84; woody: 39; ground: 52; Avg. spp./site: 18.2; std dev.: 6.9, 5 site(s)

Basal area: Avg./site: 3.6 m<sup>2</sup>/ha, range: 1.0 - 9 m<sup>2</sup>/ha, std. deviation: 3 m<sup>2</sup>/ha, 4 site(s)

Structural formation: Shrubland: 50%; open-woodland: 17%; open-heath: 17%; dwarf shrubland: 17%, 6 site(s)

Representative\_sites 13964, 16670, 16673, 16722, 16836, 51976.

**Stratum: Emergent**

Height avg. = 5.5m, range 3-9m, 4 sites  
 Crown cover avg. = 5.0%, range 2.0-10.0%, 4 sites

Dominant species (relative cover, frequency): *Eucalyptus panda* (54, 33%), *Eucalyptus virens* (50, 33%)  
 Frequent species (cover, frequency): *Eucalyptus panda* (4, 33%), *Eucalyptus virens* (1, 33%), *Acacia crassa* (3, 17%),  
*Eucalyptus bakeri* (4, 17%), *Eucalyptus exserta* (2, 17%), *Eucalyptus sideroxylon subsp. improcera* (2, 17%), *Eucalyptus sideroxylon subsp. sideroxylon* (17%)

**Stratum: Tree 1**

Height avg. = 12.1m, range 3.2-21m, 2 sites  
 Crown cover avg. = 23.0%, range 19.0-27.0%, 2 sites

Frequent species (cover, frequency): *Acacia barakulensis* (1, 17%), *Acacia julifera subsp. julifera* (1, 17%), *Amyema miquelii* (17%),  
*Corymbia trachyphloia subsp. trachyphloia* (2, 17%), *Eucalyptus crebra* (19, 17%), *Eucalyptus tenuipes* (23, 17%)

**Stratum: Tree 2**

Height avg. = 6.0m, 1 site  
 Crown cover avg. = 3.0%, 1 site

Frequent species (cover, frequency): *Amyema miquelii* (17%), *Corymbia watsoniana subsp. watsoniana* (2, 17%), *Eucalyptus crebra* (2, 17%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Shrub 1**

Height avg. = 1.7m, range 0.9-2.2m, 6 sites

Crown cover avg. = 36.5%, range 3.0-60.0%, 6 sites

Dominant species (relative cover, frequency): *Melaleuca uncinata* (75, 50%), *Acacia caroleae* (23, 33%)

Frequent species (cover, frequency): *Melaleuca uncinata* (25, 50%), *Acacia caroleae* (3, 33%), *Acacia buxifolia* subsp. *pubiflora* (17%), *Acacia johnsonii* (5, 17%), *Acacia lauta* (17%), *Acacia leichhardtii* (17%), *Amyema gaudichaudii* (17%), *Boronia glabra* (17%), *Brachyloma daphnoides* (17%), *Calytrix gurulmundensis* (18, 17%), *Calytrix tetragona* (8, 17%), *Corymbia trachyphloia* subsp. *trachyphloia* (1, 17%), *Corymbia watsoniana* subsp. *watsoniana* (17%), *Eucalyptus tenuipes* (9, 17%), *Grevillea floribunda* subsp. *tenella* (5, 17%), *Hakea lorea* subsp. *lorea* (2, 17%), *Hibiscus heterophyllus* (1, 17%), *Jacksonia rhadinoclona* (3, 17%), *Lysicarpus angustifolius* (17%), *Melaleuca decora* (2, 17%), *Melaleuca diosmatifolia* (5, 17%), *Melaleuca nodosa* (5, 17%), *Triplarina paludosa* (17%), *Xanthorrhoea johnsonii* (17%)

**Stratum: Shrub 2**

Height avg. = 0.6m, range 0.4-0.8m, 2 sites

Crown cover avg. = 30.0%, range 25.0-35.0%, 2 sites

Dominant species (relative cover, frequency): *Calytrix tetragona* (79, 33%), *Hakea purpurea* (10, 33%)

Frequent species (cover, frequency): *Calytrix tetragona* (23, 33%), *Hakea purpurea* (3, 33%), *Acacia caroleae* (2, 17%), *Harmogia densifolia* (1, 17%), *Kunzea opposita* var. *opposita* (4, 17%), *Micromyrtus sessilis* (17%)

**Stratum: Ground**

Height avg. = 0.5m, range 0.3-0.5m, 4 sites

PFC avg. = 18.0%, range 6-32%, 4 sites

Dominant species (relative cover, frequency): *Triodia mitchellii* (71, 40%), *Triodia scariosa* (46, 40%), *Aristida benthamii* (13, 40%), *Boronia bipinnata* (1, 40%), *Laxmannia gracilis* (1, 60%)

Frequent species (cover, frequency): GRAMINOIDS: *Aristida benthamii* (1, 40%), *Triodia mitchellii* (10, 40%), *Triodia scariosa* (16, 40%), *Amphipogon caricinus* var. *caricinus* (20%), *Amphipogon strictus* (3, 20%), *Aristida jerichoensis* var. *jerichoensis* (4, 20%), *Aristida jerichoensis* var. *subspinulifera* (20%), *Cymbopogon oblectus* (20%), *Cymbopogon refractus* (20%), *Dimorphochloa rigida* (20%), *Entolasia stricta* (20%), *Eremochloa bimaculata* (20%), *Fimbristylis dichotoma* (20%), *Gahnia aspera* (20%), *Lepidosperma laterale* (20%), *Panicum simile* (20%), *Paspalidium indet.* (20%), *Scleria sphacelata* (20%), *Tripogon loliiformis* (20%)

FORBS: *Laxmannia gracilis* (60%), *Boronia bipinnata* (40%), *Goodenia delicata* (40%), *Pimelea linifolia* subsp. *linifolia* (40%), *Acacia caroleae* (20%), *Acacia johnsonii* (2, 20%), *Amyema gaudichaudii* (20%), *Brunonia australis* (1, 20%), *Calytrix tetragona* (1, 20%), *Cheilanthes sieberi* (20%), *Dampiera adpressa* (20%), *Daviesia acicularis* (20%), *Dianella brevipedunculata* (20%), *Dianella longifolia* var. *longifolia* (20%), *Drosera burmanni* (20%), *Hakea purpurea* (20%), *Hibbertia acicularis* (1, 20%), *Homoranthus decumbens* (20%), *Homoranthus melanostictus* (8, 20%), *Lomandra filiformis* (20%), *Lomandra leucocephala* subsp. *leucocephala* (20%), *Mirbelia aotoides* (1, 20%), *Mirbelia pungens* (1, 20%), *Olax stricta* (20%), *Platysace ericoides* (20%)

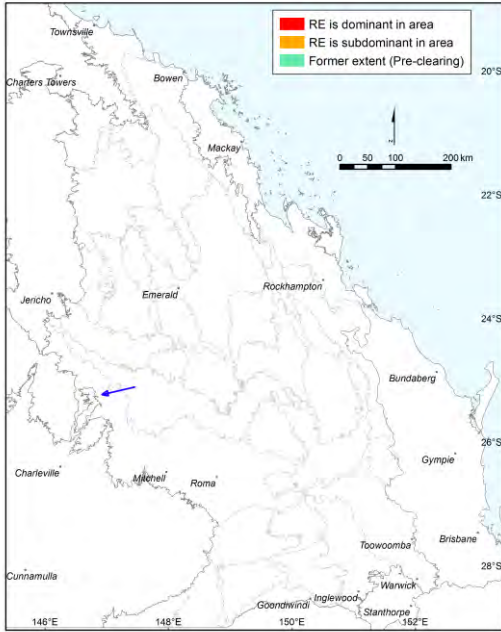
Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus



Shrubland on natural scalds on coarse-grained sedimentary rocks



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 278 260 94%

Species\_recorded: Total: 19; woody: 15; ground: 4; Avg. spp./site: 19.0; std dev.: 0.0, 1 site(s)

Basal area: Avg./site: 7.0 m<sup>2</sup>/ha, range: 7.0 - 7 m<sup>2</sup>/ha, std. deviation: 0 m<sup>2</sup>/ha, 1 site(s)

Structural formation: Open-woodland: 100%, 1 site(s)

Representative\_sites 30826.

**Stratum: Emergent**

Height avg. = 10.0m, 1 site

Crown cover avg. = 1.6%, 1 site

Dominant species (relative cover, frequency): *Callitris endlicheri* (100, 100%)

Frequent species (cover, frequency): *Callitris endlicheri* (2, 100%)

**Stratum: Tree 1**

Height avg. = 6.0m, 1 site

Crown cover avg. = 6.1%, 1 site

Dominant species (relative cover, frequency): *Allocasuarina inophloia* (57, 100%), *Eucalyptus panda* (32, 100%), *Eucalyptus exserta* (12, 100%)

Frequent species (cover, frequency): *Allocasuarina inophloia* (3, 100%), *Eucalyptus exserta* (1, 100%), *Eucalyptus panda* (2, 100%)

**Stratum: Shrub 1**

Height avg. = 1.5m, 1 site

Crown cover avg. = 97.4%, 1 site

Dominant species (relative cover, frequency): *Melaleuca nodosa* (37, 100%), *Leptospermum parvifolium* (37, 100%), *Grevillea floribunda* (22, 100%), *Brachyloma daphnoides subsp. daphnoides* (4, 100%)

Frequent species (cover, frequency): *Brachyloma daphnoides subsp. daphnoides* (6, 100%), *Grevillea floribunda* (34, 100%), *Hovea indet.* (1, 100%), *Leptospermum parvifolium* (58, 100%), *Melaleuca nodosa* (58, 100%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

## Technical Description

Regional ecosystem: 11.7.5a

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### Stratum: Shrub 2

Height avg. = 1.5m, 1 site

Crown cover avg. = 58.0%, 1 site

*Dominant species (relative cover, frequency):* *Leucopogon attenuatus* (73, 100%), *Xanthorrhoea johnsonii* (22, 100%), *Persoonia sericea* (2, 100%), *Harmogia densifolia* (2, 100%)

*Frequent species (cover, frequency):* *Harmogia densifolia* (1, 100%), *Hibbertia stricta* (100%), *Isopogon petiolaris* (100%), *Leucopogon attenuatus* (20, 100%), *Persoonia sericea* (1, 100%), *Xanthorrhoea johnsonii* (6, 100%)

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### Stratum: Ground

Height avg. = 0.3m, 1 site

PFC avg. = 5.0%, 1 site

*Dominant species (relative cover, frequency):* *Triodia mitchellii* (71, 100%), *Lomandra laxa* (24, 100%), *Lepidosperma indet.* (2, 100%), *Dianella brevipedunculata* (2, 100%)

*Frequent species (cover, frequency):* GRAMINOIDS: *Lepidosperma indet.* (100%), *Triodia mitchellii* (3, 100%)

FORBS: *Dianella brevipedunculata* (100%), *Lomandra laxa* (1, 100%)

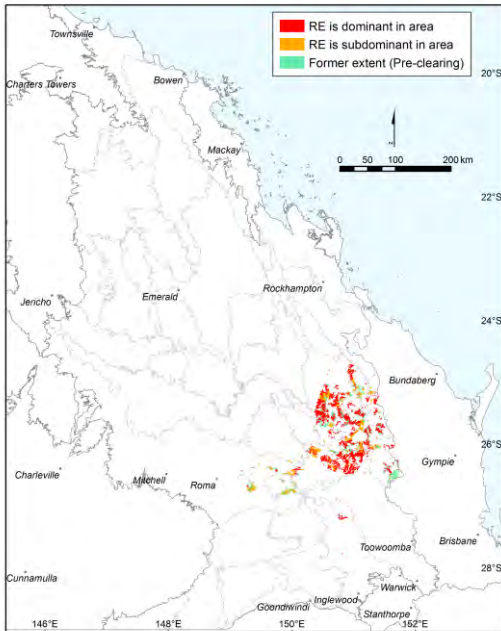
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Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Corymbia citriodora or Eucalyptus crebra woodland on Cainozoic lateritic duricrust**



**Pre-clearing area (ha), remnant area (ha) and per cent remaining: 413,837 336,293 81%**

**Species\_recorded: Total: 268; woody: 55; ground: 237; Avg. spp./site: 37.5; std dev.: 13.2, 15 site(s)**

**Basal area: Avg./site: 12.9 m<sup>2</sup>/ha, range: 5.0 - 26 m<sup>2</sup>/ha, std. deviation: 5 m<sup>2</sup>/ha, 15 site(s)**

**Structural formation: Woodland: 67%; open-forest: 27%; open-woodland: 7%, 15 site(s)**

**Representative\_sites 13970, 14878, 16595, 16597, 16616, 16656, 16702, 24601, 24677, 24679, 28903, 28905, 28940, 40980, 40983.**

**Stratum: Tree 1**

**Height avg. = 24.4m, range 19-32m, 15 sites**

**Crown cover avg. = 40.2%, range 20.0-70.0%, 15 sites**

*Dominant species (relative cover, frequency): Corymbia citriodora (63, 47%), Corymbia citriodora subsp. variegata (46, 47%), Eucalyptus crebra (36, 87%), Eucalyptus moluccana (32, 27%)*

*Frequent species (cover, frequency): Eucalyptus crebra (12, 87%), Corymbia citriodora (27, 47%), Corymbia citriodora subsp. variegata (12, 47%), Eucalyptus moluccana (15, 27%), Acacia excelsa (7%), Acacia pustula (1, 7%), Angophora leiocarpa (11, 7%), Brachychiton rupestris (7%), Corymbia trachyphloia subsp. trachyphloia (22, 7%), Eucalyptus acmenoides (17, 7%), Eucalyptus decorticans (7%), Eucalyptus major (18, 7%), Eucalyptus populnea (7%), Eucalyptus tereticornis (1, 7%)*

**Stratum: Tree 2**

**Height avg. = 12.2m, range 7-18m, 11 sites**

**Crown cover avg. = 6.1%, range 0.6-12.0%, 11 sites**

*Dominant species (relative cover, frequency): Eucalyptus crebra (59, 53%), Corymbia citriodora (48, 40%), Corymbia citriodora subsp. variegata (9, 27%)*

*Frequent species (cover, frequency): Eucalyptus crebra (4, 53%), Corymbia citriodora (4, 40%), Corymbia citriodora subsp. variegata (27%), Allocasuarina luehmannii (5, 13%), Acacia leiocalyx subsp. leiocalyx (7%), Acacia pustula (1, 7%), Angophora costata subsp. costata (1, 7%), Callitris glaucophylla (6, 7%), Corymbia clarksoniana (2, 7%), Corymbia intermedia (1, 7%), Corymbia trachyphloia subsp. trachyphloia (6, 7%), Eucalyptus moluccana (3, 7%), Eucalyptus tereticornis (7%), Lophostemon suaveolens (7%)*

**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Tree 3**

Height avg. = 7.5m, range 6-9.5m, 3 sites

Crown cover avg. = 3.7%, range 1.0-9.0%, 3 sites

*Frequent species (cover, frequency): Callitris glaucophylla (9, 7%), Corymbia citriodora (7%), Eucalyptus crebra (7%), Eucalyptus moluccana (1, 7%), Eucalyptus tereticornis (7%)*

**Stratum: Shrub 1**

Height avg. = 2.6m, range 0.8-4.5m, 14 sites

Crown cover avg. = 10.8%, range 0.0-50.0%, 15 sites

*Dominant species (relative cover, frequency): Alphitonia excelsa (30, 47%), Acacia leiocalyx subsp. leiocalyx (28, 47%), Jacksonia scoparia (24, 27%), Acacia conferta (18, 27%), Eucalyptus crebra (16, 53%)*

*Frequent species (cover, frequency): Eucalyptus crebra (1, 53%), Acacia leiocalyx subsp. leiocalyx (2, 47%), Alphitonia excelsa (8, 47%), Acacia conferta (27%), Corymbia citriodora subsp. variegata (27%), Jacksonia scoparia (4, 27%), Acacia glaucocarpa (20%), Corymbia citriodora (2, 20%), Acacia bancroftiorum (3, 13%), Acacia crassa subsp. crassa (3, 13%), Acacia crassa subsp. longicoma (3, 13%), Capparis canescens (13%), Acacia aulacocarpa (7%), Acacia excelsa (7%), Acacia leptocarpa (7%), Acacia penninervis var. penninervis (10, 7%), Acacia polybotrya (7%), Allocasuarina luehmannii (24, 7%), Brachychiton rupestris (7%), Corymbia trachyphloia subsp. trachyphloia (1, 7%), Cyclophyllum coprosmoides (1, 7%), Erythroxylum sp. (Splityard Creek L. Pedley 5360) (7%), Eucalyptus fibrosa subsp. fibrosa (7%), Eucalyptus moluccana (2, 7%), Exocarpos cupressiformis (7%), Grewia latifolia (1, 7%), Hakea lorea (1, 7%), Hardenbergia violacea (7%), Hibiscus splendens (1, 7%), Lophostemon suaveolens (7%), Opuntia tomentosa\* (7%), Petalostigma pubescens (7%), Psydrax odorata (1, 7%), Senna artemisioides subsp. zygophylla (8, 7%), Solanum jucundum (1, 7%), Solanum nemophilum (1, 7%), Ventilago viminalis (7%)*

**Stratum: Shrub 2**

Height avg. = 0.6m, 1 site

Crown cover avg. = 5.0%, 1 site

*Frequent species (cover, frequency): Acacia leiocalyx subsp. leiocalyx (1, 7%), Allocasuarina luehmannii (7%), Denhamia cunninghamii (7%), Dodonaea triangularis (2, 7%), Eremophila deserti (7%), Geijera parviflora (1, 7%), Peripleura hispidula var. setosa (7%), Pimelea linifolia (2, 7%), Seringia corollata (1, 7%)*

**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Ground**

Height avg. = 0.3m, range 0.1-0.7m, 14 sites

PFC avg. = 17.2%, range 2-46%, 15 sites

Dominant species (relative cover, frequency): *Scleria sphacelata* (28, 27%), *Paspalidium distans* (16, 27%), *Arundinella nepalensis* (16, 47%), *Gahnia aspera* (12, 33%), *Cymbopogon refractus* (10, 73%)

Frequent species (cover, frequency): GRAMINOIDS: *Cymbopogon refractus* (2, 73%), *Panicum effusum* (1, 60%), *Aristida caput-medusae* (1, 47%), *Arundinella nepalensis* (3, 47%), *Aristida gracilipes* (33%), *Aristida vagans* (33%), *Digitaria parviflora* (1, 33%), *Entolasia stricta* (33%), *Fimbristylis dichotoma* (1, 33%), *Gahnia aspera* (2, 33%), *Panicum simile* (1, 33%), *Themeda triandra* (1, 33%), *Cyperus fulvus* (27%), *Cyperus gracilis* (1, 27%), *Eremochloa bimaculata* (2, 27%), *Paspalidium distans* (5, 27%), *Scleria sphacelata* (6, 27%), *Aristida personata* (20%), *Cleistochloa subjuncea* (1, 20%), *Eragrostis spartanoides* (20%), *Aristida calycina* (1, 13%), *Aristida jerichoensis* var. *jerichoensis* (2, 13%), *Aristida leichhardtiana* (13%), *Aristida queenslandica* (2, 13%), *Aristida ramosa* (1, 13%), *Bothriochloa decipiens* (2, 13%), *Bothriochloa decipiens* var. *decipiens* (13%), *Chloris divaricata* (13%), *Chrysopogon fallax* (4, 13%), *Chrysopogon sylvaticus* (5, 13%), *Digitaria breviglumis* (1, 13%), *Digitaria diffusa* (13%), *Eragrostis* indet. (13%), *Eragrostis leptostachya* (13%), *Eragrostis sororia* (11, 13%), *Eulalia aurea* (1, 13%), *Heteropogon contortus* (13%), *Megathyrsus maximus*\* (1, 13%), *Melinis repens*\* (13%), *Sporobolus elongatus* (13%), *Abildgaardia* indet. (7%), *Amphipogon strictus* (7%), *Ancistrachne uncinulata* (7%), *Aristida calycina* var. *calycina* (1, 7%), *Aristida* indet. (1, 7%), *Aristida jerichoensis* (1, 7%), *Aristida jerichoensis* var. *subspinulifera* (7%), *Aristida queenslandica* var. *dissimilis* (7%), *Aristida queenslandica* var. *queenslandica* (7%), *Calyptochloa gracillima* subsp. *gracillima* (1, 7%), *Capillipedium spicigerum* (7%), *Chloris gayana*\* (7%), *Chloris truncata* (2, 7%), *Chloris ventricosa* (7%), *Cymbopogon bombycinus* (7%), *Cymbopogon queenslandicus* (1, 7%), *Cyperus cyperoides* (7%), *Dichanthium tenue* (7%), *Digitaria diminuta* (7%), *Digitaria minima* (7%), *Digitaria ramularis* (7%), *Dinebra decipiens* var. *decipiens* (7%), *Enneapogon* indet. (7%), *Enneapogon intermedius* (3, 7%), *Enneapogon lindleyanus* (1, 7%), *Enneapogon pallidus* (2, 7%), *Enteropogon unispiceus* (7%), *Eragrostis elongata* (7%), *Eragrostis megalosperma* (7%), *Eragrostis pilosa*\* (7%), *Eragrostis setifolia* (7%), *Eriachne* indet. (7%), *Eriochloa pseudoacrotricha* (7%), *Imperata cylindrica* (7%), *Leptochloa* indet. (7%), *Paspalidium caespitosum* (7%), *Paspalidium constrictum* (7%), *Paspalidium criniforme* (7%), *Paspalidium gracile* (7%), *Paspalidium* indet. (1, 7%), *Rytidosperma tenuius* (7%), *Schoenus kennyi* (7%), *Scleria brownii* (7%), *Scleria mackaviensis* (7%), *Setaria surgens* (7%), *Sporobolus creber* (7%), *Sporobolus* indet. (7%), *Sporobolus mitchellii* (7%), *Themeda avenacea* (7%), *Urochloa foliosa* (7%), *Urochloa piligera* (7%)

FORBS: *Brunoniella australis* (60%), *Cyanthillium cinereum* (60%), *Lomandra multiflora* subsp. *multiflora* (53%), *Dianella longifolia* (47%), *Laxmannia gracilis* (40%), *Lomandra longifolia* (40%), *Phyllanthus virgatus* (40%), *Solanum nemophilum* (40%), *Dianella revoluta* (1, 33%), *Evolvulus alsinoides* (33%), *Rostellularia adscendens* (33%), *Chrysocephalum apiculatum* (1, 27%), *Desmodium rhytidophyllum* (27%), *Goodenia delicata* (27%), *Hardenbergia violacea* (27%), *Lomandra confertifolia* subsp. *pallida* (1, 27%), *Alphitonia excelsa* (20%), *Alternanthera nana* (20%), *Calotis dentex* (2, 20%), *Cheilanthes sieberi* (20%), *Desmodium varians* (20%), *Dianella brevipedunculata* (20%), *Dianella caerulea* (20%), *Eustrephus latifolius* (20%), *Goodenia rotundifolia* (20%), *Lomandra filiformis* (20%), *Marsdenia viridiflora* (20%), *Zornia muriculata* (20%), *Chamaecrista nomame* var. *nomame* (13%), *Cheilanthes sieberi* subsp. *sieberi* (13%), *Daviesia ulicifolia* (13%), *Denhamia cunninghamii* (13%), *Desmodium brachypodum* (13%), *Desmodium gunnii* (13%), *Eremophila debilis* (1, 13%), *Glossocardia bidens* (13%), *Glycine tabacina* (13%), *Gomphocarpus physocarpus*\* (13%), *Goodenia* indet. (13%), *Hibbertia linearis* var. *obtusifolia* (13%), *Hibiscus sturtii* (13%), *Hibiscus sturtii* var. *sturtii* (1, 13%), *Opuntia stricta*\* (13%), *Opuntia tomentosa*\* (13%), *Pseuderanthemum variabile* (13%), *Psydrax oleifolia* (1, 13%), *Sida hackettiana* (1, 13%), *Stackhousia viminea* (13%), *Tricoryne anceps* (13%), *Tricoryne elatior* (13%), *Acacia amblygona* (3, 7%), *Acacia aulacocarpa* (7%), *Acacia glaucocarpa* (7%), *Acacia leiocalyx* subsp. *leiocalyx* (7%), *Achyranthes aspera* (7%), *Ajuga australis* (7%), *Alectryon diversifolius* (7%), *Allocasuarina luehmanna* (2, 7%), *Anisomeles* indet. (7%), *Aristolochia pubera* (7%), *Atalaya hemiglaucula* (7%), *Brachychiton populneus* (7%), *Breynia oblongifolia* (7%), *Bridelia leichhardtii* (7%), *Brunonia australis* (7%), *Callitris glaucophylla* (7%), *Calotis cuneifolia* (7%), *Calotis lappulacea* (7%), *Cassinia laevis* (7%), *Cheilanthes distans* (7%), *Clematicissus opaca* (1, 7%), *Corchorus trilocularis* (7%), *Corymbia citriodora* (7%), *Corymbia intermedia* (7%), *Crotalaria calycina* (7%), *Crotalaria montana* (7%), *Daviesia genitifolia* (7%), *Denhamia bilocularis* (7%), *Desmodium filiforme* (7%), *Desmodium gangeticum* (1, 7%), *Einadia nutans* (7%), *Elaeodendron australe* var. *integrifolium* (7%), *Emilia sonchifolia*\* (7%), *Erigeron sumatrensis*\* (7%), *Erythrina vespertilio* (7%), *Eucalyptus crebra* (7%), *Euchiton sphaericus* (7%), *Euphorbia dallachyana* (7%), *Euphorbia hyssopifolia*\* (7%), *Euphorbia tannensis* (7%), *Exocarpos cupressiformis* (7%), *Ficus opposita* (7%), *Flemingia parviflora* (7%), *Galactia tenuiflora* (7%), *Geijera parviflora* (7%), *Glycine clandestina* var. *sericea* (7%), *Glycine tomentella* (7%), *Goodenia gracilis* (7%), *Grewia latifolia* (2, 7%), *Hakea lorea* (7%), *Hybanthus monopetalus* (7%), *Indigofera hirsuta* (7%), *Iphigenia indica* (7%), *Jacksonia scoparia* (7%), *Jasminum didymum* subsp. *racemosum* (7%), *Leucopogon trichostylus* (7%), *Lobelia concolor* (1, 7%), *Lophostemon suaveolens* (7%), *Maireana microphylla* (7%), *Malvastrum americanum* (7%), *Marsdenia microlepis* (7%), *Melhania oblongifolia* (7%), *Melia azedarach* (7%), *Melichrus erubescens* (7%), *Melichrus* sp. (*Isle Gorge P. Sharpe*+ 601) (7%), *Nyssanthes erecta* (7%), *Opuntia* indet. (7%), *Oxalis corniculata*\* (7%), *Parsonia lanceolata* (7%), *Passiflora suberosa*\* (7%), *Peripleura hispidula* (7%), *Petalostigma pubescens* (7%), *Phyllanthus gunnii* (7%), *Pittosporum angustifolium* (7%), *Polygala triflora* (7%), *Rhynchosia minima* (7%), *Senna barclayana* (7%), *Seringia corollata* (7%), *Seringia hookeriana* (7%), *Sesbania* indet. (7%), *Sida corrugata* (7%), *Sida* indet. (7%), *Sida spinosa*\* (7%), *Sida trichopoda* (7%), *Solanum ellipticum* (7%), *Solanum erianthum*\* (7%), *Solanum* indet. (7%), *Solanum nigrum* subsp. *nigrum*\* (7%), *Spermacoce brachystema* (7%),

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

## Technical Description

## Regional ecosystem: 11.7.6

*Spermacoce indet.* (7%), *Sphaeromorphaea indet.* (7%), *Tephrosia juncea* (7%), *Tephrosia macrostachya* (7%), *Xerochrysum bracteatum* (7%), *Zornia dyctiocarpa* (7%)

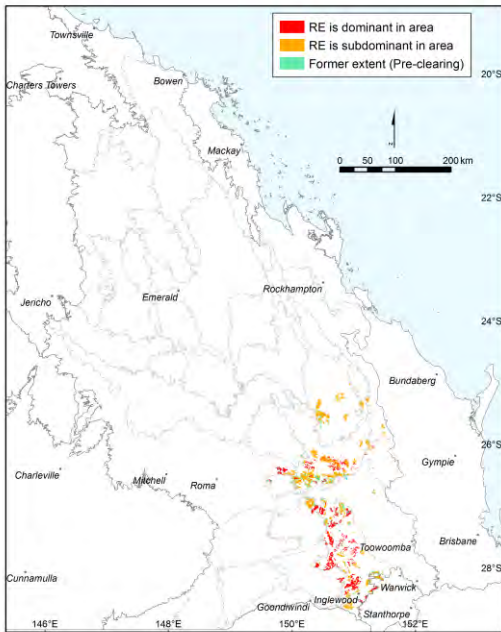
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Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

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Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Eucalyptus fibrosa subsp. nubilis +/- Corymbia spp. +/- Eucalyptus spp. woodland on Cainozoic lateritic duricrust**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 199,249 171,344 86%

Species\_recorded: Total: 104; woody: 49; ground: 63; Avg. spp./site: 27.8; std dev.: 4.0, 5 site(s)

Basal area: Avg./site: 14.9 m<sup>2</sup>/ha, range: 6.5 - 27 m<sup>2</sup>/ha, std. deviation: 7 m<sup>2</sup>/ha, 6 site(s)

Structural formation: Woodland: 50%; open-woodland: 17%; low woodland: 17%; unrecorded: 17%, 6 site(s)

Representative\_sites 24573, 24583, 24588, 28756, 30827, 30829.

**Stratum: Tree 1**

Height avg. = 15.2m, range 8-22.5m, 6 sites

Crown cover avg. = 36.8%, range 15.0-50.0%, 6 sites

Dominant species (relative cover, frequency): *Callitris endlicheri* (62, 33%), *Eucalyptus crebra* (50, 50%), *Eucalyptus fibrosa subsp. nubilis* (39, 83%)

Frequent species (cover, frequency): *Eucalyptus fibrosa subsp. nubilis* (14, 83%), *Eucalyptus crebra* (15, 50%), *Callitris endlicheri* (33, 33%), *Callitris glaucophylla* (2, 17%), *Corymbia trachyphloia* (10, 17%), *Corymbia trachyphloia subsp. trachyphloia* (14, 17%), *Eucalyptus apothalassica* (5, 17%), *Eucalyptus fibrosa subsp. fibrosa* (17%), *Eucalyptus panda* (7, 17%), *Eucalyptus woollsiana* (1, 17%)

**Stratum: Tree 2**

Height avg. = 7.3m, range 3.5-10m, 6 sites

Crown cover avg. = 25.0%, range 10.0-55.0%, 6 sites

Dominant species (relative cover, frequency): *Acacia crassa subsp. crassa* (84, 50%), *Allocasuarina inophloia* (67, 33%), *Callitris endlicheri* (54, 33%), *Amyema quandang* (6, 33%)

Frequent species (cover, frequency): *Acacia crassa subsp. crassa* (24, 50%), *Allocasuarina inophloia* (10, 33%), *Amyema quandang* (33%), *Callitris endlicheri* (9, 33%), *Eucalyptus fibrosa subsp. nubilis* (33%), *Acacia burrowii* (17%), *Acacia buxifolia subsp. pubiflora* (1, 17%), *Acacia sparsiflora* (17%), *Allocasuarina luehmannii* (17%), *Alphitonia excelsa* (17%), *Callitris glaucophylla* (17%), *Corymbia trachyphloia* (17%), *Corymbia trachyphloia subsp. trachyphloia* (8, 17%), *Eucalyptus crebra* (5, 17%), *Eucalyptus panda* (5, 17%), *Melaleuca nodosa* (17%), *Xylomelum cunninghamianum* (1, 17%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Shrub 1**

Height avg. = 2.3m, range 0.8-3m, 6 sites

Crown cover avg. = 10.2%, range 1.0-17.0%, 6 sites

*Dominant species (relative cover, frequency):* *Acacia crassa* subsp. *crassa* (55, 50%), *Cassinia laevis* (9, 33%), *Melichrus urceolatus* (6, 33%), *Acacia conferta* (6, 50%), *Dodonaea triangularis* (4, 67%)

*Frequent species (cover, frequency):* *Dimorphochloa rigida* (17%), *Lepidosperma indet.* (2, 17%), *Dodonaea triangularis* (67%), *Acacia conferta* (1, 50%), *Acacia crassa* subsp. *crassa* (9, 50%), *Acacia wardellii* (50%), *Cassinia laevis* (33%), *Eucalyptus crebra* (1, 33%), *Melichrus urceolatus* (33%), *Acacia buxifolia* subsp. *pubiflora* (3, 17%), *Acacia crassa* (17%), *Acacia hakeoides* (3, 17%), *Acacia jucunda* (2, 17%), *Acacia leiocalyx* subsp. *leiocalyx* (8, 17%), *Acacia penninervis* var. *penninervis* (17%), *Acacia semilunata* (1, 17%), *Alphitonia excelsa* (17%), *Amyema quandang* (17%), *Callitris endlicheri* (3, 17%), *Callitris glaucophylla* (17%), *Calytrix longiflora* (3, 17%), *Daviesia villifera* (17%), *Eucalyptus fibrosa* subsp. *nubilis* (1, 17%), *Goodenia hederacea* subsp. *hederacea* (17%), *Goodenia rotundifolia* (17%), *Grevillea floribunda* (17%), *Hibbertia cistoidea* (17%), *Hovea indet.* (1, 17%), *Hovea longipes* (17%), *Leucopogon attenuatus* (2, 17%), *Leucopogon muticus* (1, 17%), *Lissanthe strigosa* subsp. *subulata* (17%), *Melaleuca decora* (1, 17%), *Melaleuca uncinata* (17%), *Ozothamnus diosmifolius* (17%), *Persoonia sericea* (1, 17%), *Petalostigma pubescens* (17%)

**Stratum: Ground**

Height avg. = 0.3m, range 0.2-0.4m, 5 sites

PFC avg. = 14.8%, range 4-30%, 5 sites

*Dominant species (relative cover, frequency):* *Gahnia aspera* (39, 80%), *Entolasia stricta* (32, 80%), *Scleria sphacelata* (10, 60%), *Boronia glabra* (5, 40%), *Dodonaea triangularis* (4, 60%)

*Frequent species (cover, frequency):* GRAMINOIDS: *Aristida caput-medusae* (80%), *Entolasia stricta* (5, 80%), *Gahnia aspera* (7, 80%), *Eragrostis brownii* (60%), *Scleria sphacelata* (2, 60%), *Schoenus indet.* (40%), *Aristida indet.* (20%), *Aristida leichhardtiana* (20%), *Aristida queenslandica* var. *dissimilis* (20%), *Aristida queenslandica* var. *queenslandica* (20%), *Aristida ramosa* (20%), *Digitaria indet.* (20%), *Dimorphochloa rigida* (5, 20%), *Enteropogon acicularis* (20%), *Enteropogon indet.* (20%), *Panicum effusum* (20%), *Paspalidium criniforme* (20%), *Paspalidium distans* (20%), *Schoenus subaphyllus* (20%), *Triodia mitchellii* (20%)

FORBS: *Lomandra leucocephala* (80%), *Boronia bipinnata* (60%), *Dodonaea triangularis* (1, 60%), *Lomandra filiformis* (60%), *Lomandra multiflora* subsp. *multiflora* (60%), *Solanum nemophilum* (60%), *Boronia glabra* (40%), *Brunoniella australis* (40%), *Goodenia glabra* (40%), *Hibiscus sturtii* (40%), *Parsonia eucalyptophylla* (40%), *Acacia conferta* (20%), *Acacia wardellii* (20%), *Amyema quandang* (20%), *Amyema quandang* var. *bancroftii* (20%), *Cheilanthes sieberi* (20%), *Cheilanthes sieberi* subsp. *sieberi* (20%), *Chrysocephalum apiculatum* (20%), *Cryptandra longistaminea* (20%), *Cyanicula caerulea* (20%), *Dianella brevipedunculata* (20%), *Goodenia rotundifolia* (20%), *Lissanthe strigosa* subsp. *subulata* (20%), *Lomandra longifolia* (20%), *Marsdenia microlepis* (20%), *Opuntia stricta*\* (20%), *Orchidaceae indet.* (20%), *Pomax umbellata* (20%), *Sida indet.* (20%), *Solanum ferocissimum* (20%)

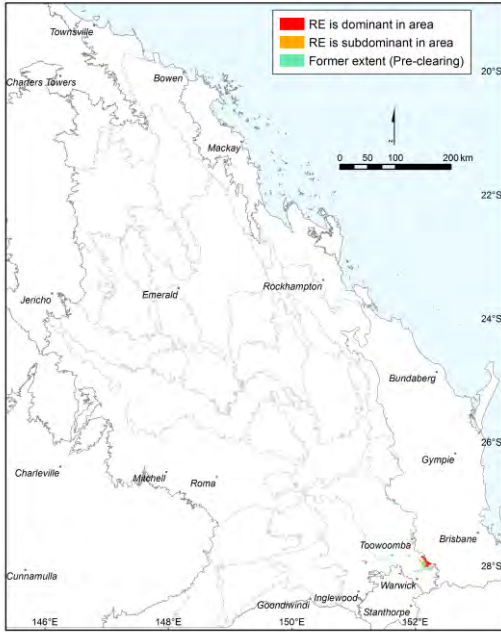
**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus



**Eucalyptus tereticornis and E. melliodora woodland occurring on low hills**



Annie Kelly

**Pre-clearing area (ha), remnant area (ha) and per cent remaining:** 27,425 10,777 39%

**Species\_recorded:** Total: 27; woody: 18; ground: 12; Avg. spp./site: 16.0; std dev.: 4.0, 2 site(s)

**Basal area:** Avg./site: 9.8 m<sup>2</sup>/ha, range: 7.5 - 12 m<sup>2</sup>/ha, std. deviation: 2 m<sup>2</sup>/ha, 2 site(s)

**Structural formation:** Open-forest: 100%, 2 site(s)

**Representative\_sites** 16704, 16727.

**Stratum: Tree 1**

**Height avg. = 20.5m, range 18-23m, 2 sites**  
**Crown cover avg. = 56.0%, range 52.0-60.0%, 2 sites**

*Dominant species (relative cover, frequency): Eucalyptus tereticornis subsp. basaltica (57, 100%), Eucalyptus crebra (42, 100%), Angophora floribunda (2, 50%)*

*Frequent species (cover, frequency): Eucalyptus crebra (22, 100%), Eucalyptus tereticornis subsp. basaltica (33, 100%), Angophora floribunda (1, 50%)*

**Stratum: Tree 2**

**Height avg. = 9.0m, range 9-9m, 2 sites**  
**Crown cover avg. = 5.5%, range 5.0-6.0%, 2 sites**

*Dominant species (relative cover, frequency): Angophora floribunda (100, 50%), Corymbia trachyphloia (48, 50%), Eucalyptus crebra (32, 50%), Eucalyptus tereticornis subsp. basaltica (16, 50%), Callitris glaucophylla (2, 50%)*

*Frequent species (cover, frequency): Angophora floribunda (2, 50%), Brachychiton indet. (50%), Callitris glaucophylla (50%), Corymbia trachyphloia (3, 50%), Eucalyptus crebra (2, 50%), Eucalyptus tereticornis subsp. basaltica (1, 50%)*

**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Shrub 1**

Height avg. = 1.8m, range 1.5-2m, 2 sites

Crown cover avg. = 9.5%, range 3.0-16.0%, 2 sites

*Dominant species (relative cover, frequency):* *Dodonaea viscosa* (86, 50%), *Dodonaea viscosa* subsp. *angustifolia* (30, 50%), *Denhamia bilocularis* (30, 50%), *Elaeodendron australe* var. *integrifolium* (15, 50%), *Psydrax oleifolia* (7, 50%)

*Frequent species (cover, frequency):* *Bursaria spinosa* subsp. *spinosa* (2, 100%), *Olearia elliptica* (1, 100%), *Allocasuarina luehmannii* (50%), *Alphitonia excelsa* (50%), *Brachychiton australis* (50%), *Carissa ovata* (50%), *Denhamia bilocularis* (4, 50%), *Dodonaea viscosa* (25, 50%), *Dodonaea viscosa* subsp. *angustifolia* (4, 50%), *Elaeodendron australe* var. *integrifolium* (2, 50%), *Pittosporum angustifolium* (1, 50%), *Psydrax oleifolia* (1, 50%)

**Stratum: Ground**

Height avg. = 0.3m, range 0.3-0.3m, 2 sites

PFC avg. = 25.0%, range 15-35%, 2 sites

*Dominant species (relative cover, frequency):* *Aristida gracilipes* (76, 50%), *Aristida benthamii* var. *benthamii* (56, 50%), *Cymbopogon refractus* (16, 100%), *Eragrostis brownii* (14, 50%), *Dinebra decipiens* (14, 50%)

*Frequent species (cover, frequency):* GRAMINOIDS: *Cymbopogon refractus* (4, 100%), *Aristida benthamii* var. *benthamii* (8, 50%), *Aristida gracilipes* (20, 50%), *Dinebra decipiens* (2, 50%), *Eragrostis brownii* (2, 50%), *Eragrostis indet.* (50%)

FORBS: *Opuntia tomentosa*\* (100%), *Alectryon diversifolius* (50%), *Einadia hastata* (50%), *Jasminum didymum* (50%), *Lomandra multiflora* subsp. *multiflora* (1, 50%), *Pittosporum spinescens* (50%)

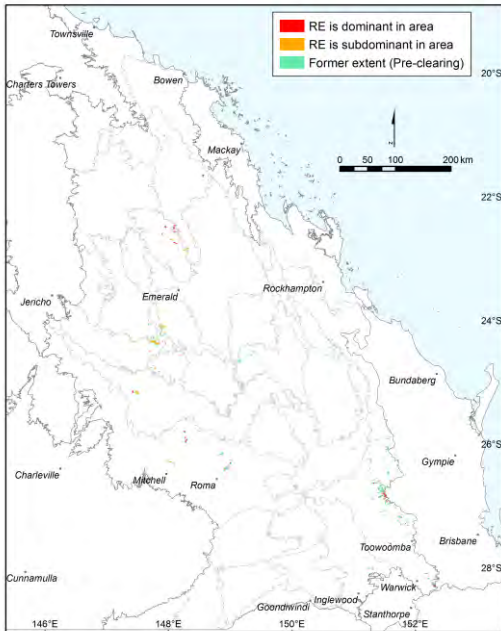
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Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

Semi-evergreen vine thicket on Cainozoic igneous rocks



Bill McDonald

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 80,598 25,381 31%

Species\_recorded: Total: 198; woody: 134; ground: 116; Avg. spp./site: 49.5; std dev.: 20.6, 6 site(s)

Basal area: Avg./site: 16.3 m<sup>2</sup>/ha, range: 3.5 - 34 m<sup>2</sup>/ha, std. deviation: 9 m<sup>2</sup>/ha, 12 site(s)

Structural formation: Low closed-forest: 58%; closed-forest: 25%; low woodland: 8%; closed-scrub: 8%, 12 site(s)

Representative\_sites 16899, 16974, 17140, 17236, 17242, 17250, 17251, 32086, 40988, 47594, 47655, 54155.

**Stratum: Emergent**

Height avg. = 15.5m, range 11-22m, 6 sites

Crown cover avg. = 13.2%, range 1.0-48.5%, 7 sites

Dominant species (relative cover, frequency): *Brachychiton rupestris* (80, 25%), *Brachychiton australis* (41, 25%)

Frequent species (cover, frequency): *Brachychiton australis* (2, 25%), *Brachychiton rupestris* (17, 25%), *Ficus rubiginosa* (2, 17%), *Cissus oblonga* (6, 8%), *Dendrocnide photinophylla* (9, 8%), *Ficus obliqua* (15, 8%), *Flindersia australis* (8%), *Flindersia collina* (1, 8%), *Homalium alnifolium* (1, 8%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Tree 1**

Height avg. = 8.8m, range 5-15m, 12 sites

Crown cover avg. = 34.2%, range 10.0-90.8%, 12 sites

*Dominant species (relative cover, frequency): Archidendropsis thozetiana (51, 33%), Dinosperma erythrococtum (32, 25%), Backhousia angustifolia (26, 33%), Brachychiton rupestris (23, 33%), Geijera parviflora (22, 33%)*

*Frequent species (cover, frequency): Notelaea microcarpa (3, 58%), Planchonella cotinifolia (2, 42%), Archidendropsis thozetiana (7, 33%), Atalaya salicifolia (33%), Backhousia angustifolia (21, 33%), Brachychiton rupestris (4, 33%), Geijera parviflora (6, 33%), Acacia fasciculifera (3, 25%), Dinosperma erythrococtum (7, 25%), Glossocarya hemiderma (25%), Pandorea pandorana (25%), Secamone elliptica (1, 25%), Alstonia constricta (4, 17%), Cayratia acris (2, 17%), Cissus oblonga (2, 17%), Croton insularis (2, 17%), Ehretia membranifolia (1, 17%), Flindersia collina (2, 17%), Geijera salicifolia (2, 17%), Grevillea helmsiae (1, 17%), Lysiphyllum carronii (10, 17%), Parsonsia lanceolata (17%), Parsonsia leichhardtii (1, 17%), Alectryon connatus (1, 8%), Alectryon subdentatus (2, 8%), Archidendropsis basaltica (9, 8%), Arytera bifoliolata (1, 8%), Atalaya hemiglaucula (1, 8%), Austrosteenisia blackii var. blackii (8%), Brachychiton australis (1, 8%), Bridelia leichhardtii (8%), Celtis paniculata (20, 8%), Cissus reniformis (8%), Clematicissus opaca (8%), Clerodendrum floribundum (3, 8%), Corymbia dallachiana (8%), Cupaniopsis anacardioides (3, 8%), Cynanchum viminalis subsp. brunonianum (1, 8%), Dendrocnide photinophylla (1, 8%), Diospyros humilis (5, 8%), Elattostachys xylocarpa (1, 8%), Eucalyptus melanophloia (8%), Euroschinus falcatus var. falcatus (2, 8%), Ficus obliqua (45, 8%), Gossia bidwillii (1, 8%), Gyrocarpus americanus subsp. americanus (1, 8%), Lysiphyllum hookeri (30, 8%), Melia azedarach (2, 8%), Melodorum leichhardtii (8%), Myoporum acuminatum (8%), Owenia venosa (2, 8%), Parsonsia plaesiophylla (2, 8%), Parsonsia velutina (8%), Pleiogynium timorense (2, 8%), Psydrax odorata forma buxifolia (8%), Psydrax oleifolia (8%), Solanum seaforthianum\* (8%), Tetrastigma nitens (1, 8%), Turraea pubescens (5, 8%), Zanthoxylum brachyacanthum (1, 8%)*

**Stratum: Tree 2**

Height avg. = 5.4m, range 3-8m, 8 sites

Crown cover avg. = 34.4%, range 15.0-55.0%, 8 sites

*Dominant species (relative cover, frequency): Planchonella cotinifolia (49, 33%), Croton insularis (13, 33%), Gossia bidwillii (9, 25%), Ehretia membranifolia (4, 25%), Glossocarya hemiderma (4, 25%)*

*Frequent species (cover, frequency): Croton insularis (6, 33%), Planchonella cotinifolia (23, 33%), Ehretia membranifolia (2, 25%), Glossocarya hemiderma (1, 25%), Gossia bidwillii (2, 25%), Acacia fasciculifera (1, 17%), Alstonia constricta (2, 17%), Apophyllum anomalum (2, 17%), Atalaya hemiglaucula (4, 17%), Backhousia angustifolia (17%), Cayratia acris (1, 17%), Coatesia paniculata (10, 17%), Croton acronychioides (17%), Diospyros humilis (4, 17%), Drypetes deplanchei (1, 17%), Parsonsia lanceolata (17%), Turraea pubescens (3, 17%), Alectryon connatus (8%), Alectryon diversifolius (5, 8%), Amyema quandang (8%), Bursaria spinosa subsp. spinosa (10, 8%), Capparis arborea (8%), Clematicissus opaca (8%), Croton phebaloides (10, 8%), Cynanchum viminalis subsp. brunonianum (1, 8%), Dinosperma erythrococtum (8%), Diospyros geminata (2, 8%), Elattostachys xylocarpa (1, 8%), Erythroxylum sp. (Splityard Creek L.Pedley 5360) (8%), Flueggea leucopyrus (10, 8%), Geijera salicifolia (3, 8%), Gyrocarpus americanus subsp. americanus (8%), Homalium alnifolium (1, 8%), Jasminum simplicifolium subsp. australiense (8%), Lysiphyllum carronii (1, 8%), Owenia acidula (1, 8%), Pandorea pandorana (8%), Parsonsia leichhardtii (8%), Parsonsia plaesiophylla (1, 8%), Planchonella cotinifolia var. pubescens (40, 8%), Pleiogynium timorense (8%), Psydrax odorata (5, 8%), Psydrax odorata subsp. australiana (8%), Smilax australis (8%), Solanum seaforthianum\* (1, 8%), Strychnos psilosperma (10, 8%), Tinospora smilacina (1, 8%), Triflorensia ixoroides (8%), Vincetoxicum ovatum (8%)*

**Stratum: Tree 3**

Height avg. = 3.7m, range 3-4m, 3 sites

Crown cover avg. = 20.0%, range 10.0-25.0%, 3 sites

*Frequent species (cover, frequency): Atalaya salicifolia (5, 8%), Elaeodendron australe var. integrifolium (5, 8%), Euroschinus falcatus (5, 8%), Jasminum simplicifolium subsp. australiense (10, 8%), Myoporum acuminatum (5, 8%), Planchonella cotinifolia (15, 8%), Psydrax odorata (1, 8%), Terminalia oblongata subsp. oblongata (10, 8%), Turraea pubescens (2, 8%)*

**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Shrub 1**

Height avg. = 1.8m, range 0.8-3.5m, 12 sites

Crown cover avg. = 37.9%, range 5.0-70.0%, 12 sites

*Dominant species (relative cover, frequency):* *Acalypha eremorum* (33, 42%), *Alectryon oleifolius* subsp. *elongatus* (21, 25%), *Alyxia ruscifolia* (18, 25%), *Carissa ovata* (16, 75%), *Croton phebalioides* (14, 33%)

*Frequent species (cover, frequency):* *Carissa ovata* (5, 75%), *Glossocarya hemiderma* (4, 50%), *Acalypha eremorum* (20, 42%), *Alectryon diversifolius* (42%), *Pittosporum spinescens* (4, 42%), *Strychnos psilosperma* (6, 42%), *Croton phebalioides* (5, 33%), *Flueggea leucopyrus* (3, 33%), *Planchonella cotinifolia* (33%), *Alectryon oleifolius* subsp. *elongatus* (7, 25%), *Alyxia ruscifolia* (4, 25%), *Cayratia acris* (25%), *Erythroxylum australe* (1, 25%), *Glycine* sp. (Marburg K.A. Williams 83006) (1, 25%), *Jasminum simplicifolium* subsp. *australiense* (1, 25%), *Olearia canescens* (3, 25%), *Psydrax odorata* (1, 25%), *Secamone elliptica* (1, 25%), *Solanum furfuraceum* (1, 25%), *Solanum seaforthianum*\* (1, 25%), *Turraea pubescens* (7, 25%), *Abutilon micropetalum* (20, 17%), *Backhousia angustifolia* (17%), *Breynia oblongifolia* (1, 17%), *Clematicissus opaca* (17%), *Croton insularis* (17%), *Dinosperma erythroccum* (17%), *Jasminum didymum* subsp. *racemosum* (1, 17%), *Marsdenia lloydii* (17%), *Marsdenia viridiflora* (1, 17%), *Melodorum leichhardtii* (17%), *Parsonsia leichhardtii* (17%), *Passiflora aurantia* var. *aurantia* (17%), *Tinospora smilacina* (17%), *Vincetoxicum ovatum* (17%), *Abrus precatorius* subsp. *precatorius* (8%), *Abutilon calliphylum* (10, 8%), *Abutilon oxycarpum* var. *oxycarpum* (1, 8%), *Acacia fasciculifera* (8%), *Alectryon connatus* (8%), *Alphitonia excelsa* (8%), *Alyxia sharpei* (8%), *Antidesma parvifolium* (8%), *Archidendropsis thozetiana* (10, 8%), *Brachychiton rupestris* (8%), *Bridelia leichhardtii* (8%), *Bursaria incana* (8%), *Capparis arborea* (2, 8%), *Capparis lasiantha* (8%), *Capparis ornans* (8%), *Capparis sarmentosa* (8%), *Cissus oblonga* (8%), *Cissus reniformis* (1, 8%), *Clerodendrum floribundum* (8%), *Coatesia paniculata* (8%), *Croton acronychioides* (1, 8%), *Cynanchum viminale* subsp. *australe* (8%), *Cynanchum viminale* subsp. *brunonianum* (8%), *Deeringia amaranthoides* (1, 8%), *Dioscorea transversa* (8%), *Diospyros geminata* (8%), *Diospyros humilis* (8%), *Diplocyclos palmatus* subsp. *palmatus* (8%), *Dodonaea stenophylla* (8%), *Drypetes deplanchei* (1, 8%), *Erythroxylum* sp. (Splityard Creek L. Pedley 5360) (1, 8%), *Everistia vacciniifolia* var. *vacciniifolia* (8%), *Exocarpos latifolius* (8%), *Geijera parviflora* (6, 8%), *Gossia bidwillii* (8%), *Gyrocarpus americanus* subsp. *americanus* (8%), *Hibiscus heterophyllus* (8%), *Hoya australis* (1, 8%), *Marsdenia micradenia* (1, 8%), *Marsdenia pleiadenia* (8%), *Murraya ovatifoliolata* (8%), *Notelaea microcarpa* (8%), *Owenia acidula* (8%), *Pandorea pandorana* (8%), *Phyllanthus gunnii* (1, 8%), *Pleogyne australis* (8%), *Polyscias elegans* (8%), *Psydrax odorata* subsp. *australiana* (8%), *Santalum lanceolatum* (8%), *Senna gaudichaudii* (8%), *Smilax australis* (8%), *Solanum stelligerum* (8%), *Sterculia quadrifida* (8%), *Triflorensia ixoroides* (8%)

**Stratum: Shrub 2**

Height avg. = 0.8m, range 0.6-1m, 3 sites

Crown cover avg. = 5.0%, range 5.0-5.0%, 3 sites

*Frequent species (cover, frequency):* *Abutilon oxycarpum* var. *oxycarpum* (1, 17%), *Acalypha eremorum* (1, 17%), *Hypoestes floribunda* (2, 17%), *Alyxia sharpei* (4, 8%), *Carissa ovata* (8%), *Cayratia acris* (1, 8%), *Cissus oblonga* (1, 8%), *Deeringia amaranthoides* (1, 8%), *Everistia vacciniifolia* var. *vacciniifolia* (8%), *Triflorensia ixoroides* (8%), *Turraea pubescens* (8%)

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**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Ground**

Height avg. = 0.5m, range 0.1-1.2m, 6 sites

PFC avg. = 15.8%, range 5-50%, 6 sites

*Dominant species (relative cover, frequency):* *Carissa ovata* (30, 50%), *Strychnos psilosperma* (22, 33%), *Solanum stelligerum* (21, 33%), *Ancistrachne uncinulata* (20, 67%), *Rhagodia parabolica* (17, 33%)

*Frequent species (cover, frequency):* GRAMINOIDS: *Ancistrachne uncinulata* (4, 67%), *Dinebra decipiens* (50%), *Megathyrsus maximus var. pubiglumis\** (2, 50%), *Oplismenus aemulus* (8, 50%), *Ottochloa gracillima* (3, 50%), *Aristida gracilipes* (33%), *Cyperus gracilis* (1, 33%), *Scleria mackaviensis* (1, 33%), *Aristida personata* (17%), *Bothriochloa pertusa\** (17%), *Cenchrus ciliaris\** (17%), *Cymbopogon refractus* (17%), *Enneapogon lindleyanus* (17%), *Eragrostis megalosperma* (17%), *Scleria brownii* (1, 17%)

FORBS: *Achyranthes aspera* (67%), *Carissa ovata* (3, 50%), *Dinosperma erythrococtum* (50%), *Dioscorea transversa* (50%), *Glossocarya hemiderma* (50%), *Nyssanthes diffusa* (50%), *Pellaea nana* (50%), *Solanum seafortianum\** (1, 50%), *Aneilema acuminatum* (1, 33%), *Breynia oblongifolia* (33%), *Cayratia acris* (33%), *Cynanchum viminalis subsp. brunonianum* (1, 33%), *Gynura drymophila var. glabrifolia* (1, 33%), *Planchonella cotinifolia* (33%), *Pseuderanthemum variabile* (33%), *Rhagodia parabolica* (33%), *Secamone elliptica* (33%), *Solanum stelligerum* (3, 33%), *Strychnos psilosperma* (5, 33%), *Abutilon fraseri* (17%), *Abutilon micropetalum* (1, 17%), *Abutilon oxycarpum var. oxycarpum* (2, 17%), *Acalypha eremorum* (17%), *Adiantum hispidulum* (17%), *Alyxia ruscifolia* (1, 17%), *Alyxia sharpei* (17%), *Aristolochia pubera* (17%), *Backhousia angustifolia* (17%), *Bidens bipinnata\** (17%), *Bidens pilosa\** (17%), *Boerhavia dominii* (17%), *Cheilanthes distans* (17%), *Cissus reniformis* (2, 17%), *Clematicissus opaca* (1, 17%), *Coatesia paniculata* (17%), *Commelina ensifolia* (17%), *Croton acronychioides* (17%), *Croton insularis* (17%), *Deeringia amaranthoides* (1, 17%), *Dendrocnide photinophylla* (17%), *Dianella caerulea var. vannata* (17%), *Dysphania carinata* (17%), *Einadia nutans subsp. linifolia* (17%), *Erigeron sumatrensis\** (17%), *Euphorbia tannensis subsp. eremophila* (17%), *Evolvulus alsinoides* (17%), *Flueggea leucopyrus* (17%), *Glycine sp. (Marburg K.A. Williams 83006)* (17%), *Grewia latifolia* (17%), *Hibiscus sturtii* (17%), *Hoya australis subsp. australis* (17%), *Jasminum didymum subsp. racemosum* (2, 17%), *Melia azedarach* (17%), *Melodorum leichhardtii* (17%), *Nicotiana forsteri* (17%), *Olearia canescens* (17%), *Pandorea pandorana* (17%), *Parsonia lanceolata* (17%), *Parsonia plaesiophylla* (17%), *Passiflora suberosa\** (17%), *Peperomia blanda var. floribunda* (17%), *Polyscias elegans* (17%), *Psydrax oleifolia* (17%), *Rhynchosia minima var. minima* (17%), *Rivina humilis\** (17%), *Rostellularia adscendens var. latifolia* (1, 17%), *Senecio brigalowensis* (17%), *Smilax australis* (17%), *Solanum ellipticum* (17%), *Solanum furfuraceum* (17%), *Solanum nodiflorum\** (17%), *Tetrastigma nitens* (17%), *Tinospora smilacina* (17%), *Tragia novae-hollandiae* (17%), *Tridax procumbens\** (17%), *Turraea pubescens* (5, 17%)

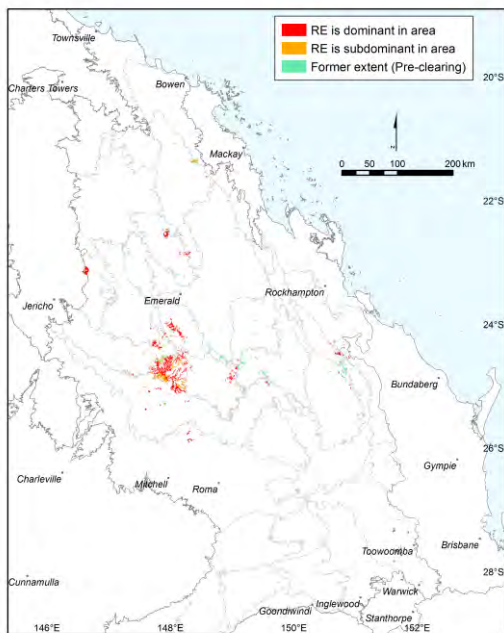
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**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Eucalyptus melanophloia open woodland on Cainozoic igneous rocks.**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 217,356 151,409 70%

Species\_recorded: Total: 168; woody: 29; ground: 143; Avg. spp./site: 36.3; std dev.: 14.4, 6 site(s)

Basal area: Avg./site: 12.6 m<sup>2</sup>/ha, range: 6.0 - 28 m<sup>2</sup>/ha, std. deviation: 7 m<sup>2</sup>/ha, 7 site(s)

Structural formation: Open-woodland: 29%; open-forest: 29%; woodland: 14%; low open-woodland: 14%; low open-forest: 14%, 7 site(s)

Representative\_sites 16969, 16971, 16975, 17219, 17547, 19254, 24616.

**Stratum: Tree 1**

Height avg. = 14.4m, range 8-22m, 7 sites

Crown cover avg. = 37.3%, range 12.0-66.0%, 7 sites

Dominant species (relative cover, frequency): *Eucalyptus melanophloia* (81, 57%), *Corymbia citriodora* (63, 43%), *Eucalyptus crebra* (31, 57%), *Corymbia erythrophloia* (11, 57%)

Frequent species (cover, frequency): *Corymbia erythrophloia* (4, 57%), *Eucalyptus crebra* (15, 57%), *Eucalyptus melanophloia* (15, 57%), *Corymbia citriodora* (40, 43%), *Atalaya hemiglauca* (1, 14%), *Brachychiton populneus* (1, 14%), *Brachychiton populneus subsp. populneus* (2, 14%), *Eucalyptus cambageana* (14%)

**Stratum: Tree 2**

Height avg. = 7.5m, range 4-11m, 2 sites

Crown cover avg. = 7.5%, range 5.0-10.0%, 2 sites

Dominant species (relative cover, frequency): *Eucalyptus crebra* (13, 29%)

Frequent species (cover, frequency): *Eucalyptus crebra* (29%), *Alphitonia excelsa* (14%), *Atalaya hemiglauca* (14%), *Corymbia citriodora* (14%), *Eremophila mitchellii* (3, 14%), *Eucalyptus melanophloia* (2, 14%), *Melia azedarach* (14%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Shrub 1**

Height avg. = 2.6m, range 1.2-4m, 6 sites

Crown cover avg. = 14.8%, range 1.0-50.0%, 6 sites

Dominant species (relative cover, frequency): *Macrozamia moorei* (54, 29%), *Acacia leiocalyx* subsp. *leiocalyx* (30, 29%), *Alphitonia excelsa* (20, 29%), *Corymbia citriodora* (20, 29%)

Frequent species (cover, frequency): *Acacia leiocalyx* subsp. *leiocalyx* (15, 29%), *Alphitonia excelsa* (9, 29%), *Corymbia citriodora* (6, 29%), *Macrozamia moorei* (3, 29%), *Acacia bancroftiorum* (14%), *Acacia catenulata* (14%), *Acacia disparrima* subsp. *disparrima* (14%), *Acacia excelsa* (1, 14%), *Acacia implexa* (1, 14%), *Alectryon diversifolius* (14%), *Atalaya hemiglauca* (1, 14%), *Callitris glaucophylla* (1, 14%), *Capparis canescens* (14%), *Corymbia tessellaris* (14%), *Eremophila mitchellii* (14%), *Eucalyptus crebra* (10, 14%), *Eucalyptus melanophloia* (2, 14%), *Ficus opposita* (14%), *Leptospermum lamellatum* (14%), *Owenia acidula* (14%), *Trema tomentosa* (14%), *Turraea pubescens* (12, 14%), *Vachellia bidwillii* (14%)

**Stratum: Shrub 2**

Height avg. = 1.5m, 1 site

Crown cover avg. = 20.0%, 1 site

Frequent species (cover, frequency): *Acacia leiocalyx* subsp. *leiocalyx* (14%), *Alphitonia excelsa* (6, 14%), *Corymbia citriodora* (14%), *Dodonaea lanceolata* var. *subsessilifolia* (14, 14%)

**Stratum: Ground**

Height avg. = 0.6m, range 0.1-1m, 6 sites

PFC avg. = 50.0%, range 15-80%, 6 sites

Dominant species (relative cover, frequency): *Cymbopogon refractus* (63, 33%), *Cymbopogon obtectus* (13, 33%), *Aristida personata* (11, 50%), *Eremochloa bimaculata* (8, 50%), *Themeda triandra* (6, 33%)

Frequent species (cover, frequency): GRAMINOIDS: *Scleria mackaviensis* (1, 67%), *Aristida personata* (3, 50%), *Eremochloa bimaculata* (4, 50%), *Heteropogon contortus* (2, 50%), *Aristida queenslandica* var. *queenslandica* (1, 33%), *Chrysopogon fallax* (1, 33%), *Cymbopogon obtectus* (16, 33%), *Cymbopogon refractus* (37, 33%), *Cyperus gracilis* (33%), *Cyperus trinervis* (33%), *Dichanthium sericeum* (1, 33%), *Digitaria parviflora* (33%), *Enneapogon lindleyanus* (33%), *Fimbristylis bisumbellata* (33%), *Melinis repens*\* (1, 33%), *Paspalidium constrictum* (33%), *Themeda triandra* (4, 33%), *Aristida calycina* var. *calycina* (48, 17%), *Aristida caput-medusae* (17%), *Aristida gracilipes* (31, 17%), *Aristida* indet. (3, 17%), *Aristida vagans* (17%), *Arundinella nepalensis* (2, 17%), *Bothriochloa decipiens* (1, 17%), *Bothriochloa decipiens* var. *decipiens* (17%), *Bothriochloa ewartiana* (50, 17%), *Bulbostylis barbata* (17%), *Chloris ventricosa* (4, 17%), *Cleistochloa subjuncea* (17%), *Cymbopogon* indet. (3, 17%), *Cyperus* indet. (17%), *Dichelachne micrantha* (17%), *Digitaria brownii* (17%), *Enneapogon gracilis* (17%), *Eragrostis brownii* (17%), *Eragrostis lacunaria* (17%), *Eragrostis megalosperma* (7, 17%), *Mnesithea rottboellioides* (17%), *Panicum decompositum* (17%), *Panicum effusum* (5, 17%), *Panicum larcomianum* (17%), *Paspalidium caespitosum* (17%), *Paspalidium gracile* (17%), *Scleria sphacelata* (17%), *Sporobolus natalensis*\* (8, 17%), *Tripogon loliiformis* (17%)

FORBS: *Opuntia stricta*\* (50%), *Peripleura hispidula* var. *hispidula* (50%), *Phyllanthus virgatus* (50%), *Rostellularia adscendens* (2, 50%), *Brennia oblongifolia* (33%), *Brunoniella australis* (33%), *Cheilanthes distans* (33%), *Cheilanthes sieberi* subsp. *sieberi* (1, 33%), *Euphorbia dallachyana* (33%), *Evolvulus alsinoides* (33%), *Grewia latifolia* (33%), *Hibiscus sturtii* (33%), *Macrozamia moorei* (33%), *Oxalis chnoodes* (33%), *Phyllanthus gunnii* (33%), *Pseuderanthemum variabile* (33%), *Sida hackettiana* (33%), *Spermacoce brachystema* (33%), *Verbena* indet. (33%), *Vittadinia sulcata* (33%), *Abelmoschus* indet. (17%), *Acacia angusta* (17%), *Acacia bancroftiorum* (17%), *Acacia concurrens* (17%), *Acacia leiocalyx* subsp. *leiocalyx* (17%), *Adiantum formosum* (17%), *Anisomeles* indet. (17%), *Boerhavia dominii* (17%), *Boerhavia* indet. (17%), *Bridelia leichhardtii* (17%), *Brunoniella acaulis* (17%), *Calotis cuneata* (17%), *Calotis lappulacea* (17%), *Camptacra barbata* (17%), *Cayratia clematidea* (17%), *Cleistanthus cunninghamii* (17%), *Coronidium rupicola* (17%), *Cyanthillium cinereum* (17%), *Desmodium varians* (1, 17%), *Dianella caerulea* (17%), *Dianella* indet. (17%), *Dianella revoluta* (3, 17%), *Diospyros humilis* (17%), *Dodonaea viscosa* (17%), *Dysphania carinata* (17%), *Einadia nutans* (17%), *Eremophila debilis* (17%), *Euphorbia drummondii* (17%), *Eustrephus latifolius* (17%), *Fabaceae* indet. (5, 17%), *Galactia tenuiflora* (17%), *Geitonoplesium cymosum* (17%), *Glycine* indet. (17%), *Glycine tabacina* (17%), *Gomphrena celosioides*\* (17%), *Goodenia calcarata* (17%), *Grewia retusifolia* (5, 17%), *Hibbertia* indet. (17%), *Hibiscus meraukensis* (17%), *Leptospermum lamellatum* (17%), *Lomandra multiflora* subsp. *multiflora* (17%), *Maireana microphylla* (17%), *Malvastrum americanum* var. *americanum*\* (17%), *Myrsine variabilis* (17%), *Neptunia gracilis* (17%), *Opuntia tomentosa*\* (17%), *Parthenium hysterophorus*\* (17%), *Peripleura bicolor* (17%), *Phyllanthus* indet. (17%), *Polygala triflora* (17%), *Pterocaulon redolens* (17%), *Rhynchosia minima* (1, 17%), *Rhynchosia minima* var. *minima* (17%), *Ruellia tuberosa*\* (1, 17%), *Sida corrugata* (17%), *Sida fibulifera* (17%), *Sida* sp. (Musselbrook M.B.Thomas+MRS437) (17%), *Sida spinosa*\* (1, 17%), *Sigesbeckia orientalis* (17%), *Solanum ellipticum* (17%), *Solanum stelligerum* (17%), *Stylosanthes* indet. (17%), *Tinospora smilacina* (17%), *Wahlenbergia tumidiflora* (17%), *Zornia muriculata* (17%)

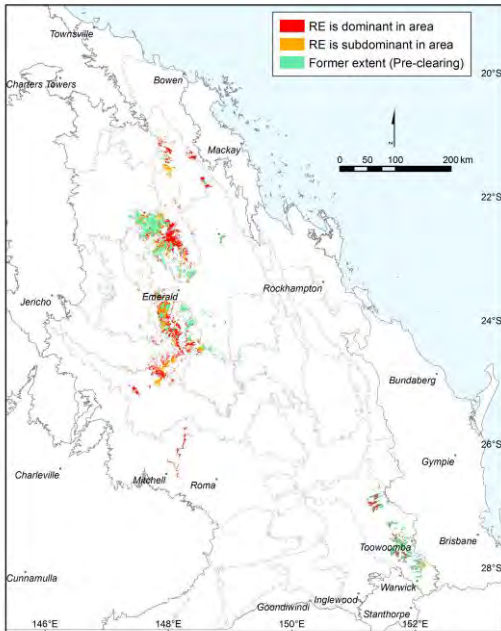
Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus



**Eucalyptus orgadophila open woodland on Cainozoic igneous rocks**



Bill McDonald

**Pre-clearing area (ha), remnant area (ha) and per cent remaining:** 603,177 342,801 57%

**Species recorded:** Total: 145; woody: 35; ground: 118; Avg. spp./site: 25.8; std dev.: 3.8, 6 site(s)

**Basal area:** Avg./site: 8.2 m<sup>2</sup>/ha, range: 1.0 - 20 m<sup>2</sup>/ha, std. deviation: 5 m<sup>2</sup>/ha, 10 site(s)

**Structural formation:** Open-woodland: 80%; woodland: 20%, 10 site(s)

**Representative sites** 15791, 17050, 17191, 17297, 17306, 17548, 19029, 28772, 28773, 28799.

**Stratum: Tree 1**

**Height avg. = 15.7m, range 10-22m, 10 sites**

**Crown cover avg. = 12.6%, range 6.0-25.0%, 10 sites**

*Dominant species (relative cover, frequency): Eucalyptus orgadophila (75, 90%), Corymbia erythrophloia (45, 30%), Eucalyptus melanophloia (32, 50%)*

*Frequent species (cover, frequency): Eucalyptus orgadophila (10, 90%), Eucalyptus melanophloia (4, 50%), Corymbia erythrophloia (4, 30%), Brachychiton populneus subsp. populneus (3, 10%), Brachychiton rupestris (10%), Eucalyptus albens (1, 10%), Eucalyptus crebra (3, 10%)*

**Stratum: Tree 2**

**Height avg. = 6.1m, range 3.5-8m, 7 sites**

**Crown cover avg. = 2.4%, range 0.0-5.0%, 7 sites**

*Dominant species (relative cover, frequency): Bursaria incana (63, 30%), Eucalyptus orgadophila (56, 30%)*

*Frequent species (cover, frequency): Bursaria incana (1, 30%), Eucalyptus orgadophila (2, 30%), Corymbia erythrophloia (20%), Eucalyptus melanophloia (2, 20%), Acacia excelsa (1, 10%), Acacia salicina (10%), Alphitonia excelsa (10%), Atalaya hemiglauca (10%), Cassia brewsteri (2, 10%), Hakea lorea (10%), Scrophulariaceae indet. (10%), Ventilago viminalis (1, 10%)*

**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Shrub 1**

Height avg. = 1.8m, range 1-2.5m, 8 sites

Crown cover avg. = 3.3%, range 0.0-7.0%, 8 sites

Dominant species (relative cover, frequency): *Eucalyptus orgadophila* (25, 30%)

Frequent species (cover, frequency): *Eucalyptus orgadophila* (2, 30%), *Acacia decora* (1, 20%), *Bursaria incana* (2, 20%), *Carissa ovata* (1, 20%), *Pandorea pandorana* (2, 20%), *Alectryon oleifolius* subsp. *elongatus* (1, 10%), *Breynia oblongifolia* (1, 10%), *Bursaria spinosa* subsp. *spinosa* (1, 10%), *Cassinia quinquefaria* (10%), *Eremophila mitchellii* (1, 10%), *Erythroxylum australe* (1, 10%), *Erythroxylum* sp. (*Splityard Creek L.Pedley 5360*) (2, 10%), *Eucalyptus melanophloia* (10%), *Grewia latifolia* (1, 10%), *Macrozamia moorei* (7, 10%), *Myoporum acuminatum* (1, 10%), *Tephrosia rufula* (1, 10%), *Vachellia farnesiana*\* (10%)

**Stratum: Shrub 2**

Height avg. = 0.5m, 1 site

Crown cover avg. = 1.0%, 1 site

Frequent species (cover, frequency): *Grewia latifolia* (1, 10%), *Maireana microphylla* (1, 10%), *Owenia acidula* (1, 10%), *Pittosporum spinescens* (1, 10%)

**Stratum: Ground**

Height avg. = 0.7m, range 0.1-1.2m, 6 sites

PFC avg. = 63.3%, range 30-90%, 6 sites

Dominant species (relative cover, frequency): *Themeda triandra* (33, 67%), *Heteropogon contortus* (24, 83%), *Dichanthium sericeum* (19, 100%), *Aristida personata* (15, 33%), *Eremochloa bimaculata* (15, 33%)

Frequent species (cover, frequency): GRAMINOIDS: *Dichanthium sericeum* (11, 100%), *Heteropogon contortus* (9, 83%), *Panicum effusum* (3, 67%), *Themeda triandra* (27, 67%), *Cymbopogon refractus* (5, 50%), *Melinis repens*\* (1, 50%), *Aristida leptopoda* (1, 33%), *Aristida personata* (9, 33%), *Cenchrus ciliaris*\* (33%), *Eremochloa bimaculata* (9, 33%), *Panicum decompositum* (2, 33%), *Scleria mackaviensis* (33%), *Aristida calycina* (5, 17%), *Aristida* indet. (17%), *Aristida latifolia* (17%), *Aristida queenslandica* var. *dissimilis* (1, 17%), *Bothriochloa bladhii* (5, 17%), *Bothriochloa decipiens* var. *decipiens* (17%), *Bothriochloa ewartiana* (50, 17%), *Chloris truncata* (17%), *Chrysopogon fallax* (1, 17%), *Cymbopogon bombycinus* (2, 17%), *Cyperus gracilis* (17%), *Cyperus* indet. (17%), *Dichanthium queenslandicum* (17%), *Dinebra decipiens* (1, 17%), *Enneapogon* indet. (17%), *Enneapogon lindleyanus* (1, 17%), *Enneapogon polyphyllus* (17%), *Eriochloa pseudoacrotricha* (17%), *Panicum queenslandicum* (2, 17%), *Paspalidium* indet. (2, 17%), *Setaria surgens* (1, 17%), *Sporobolus caroli* (17%), *Tragus australianus* (17%)

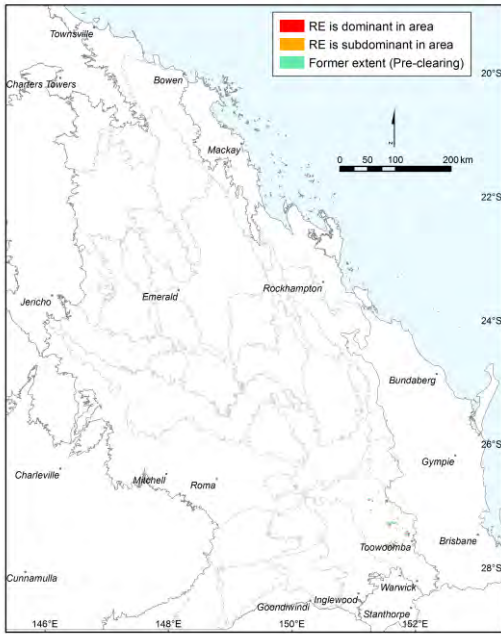
FORBS: *Grewia latifolia* (50%), *Brunoniella australis* (33%), *Desmodium varians* (33%), *Eremophila debilis* (33%), *Glycine tabacina* (1, 33%), *Indigofera linifolia* (33%), *Opuntia tomentosa*\* (33%), *Parthenium hysterophorus*\* (33%), *Peripleura hispidula* (33%), *Alternanthera* indet. (17%), *Apowollastonia spilanthoides* (1, 17%), *Asperula conferta* (17%), *Breynia oblongifolia* (1, 17%), *Calotis cuneata* (2, 17%), *Calotis* indet. (17%), *Cheilanthes sieberi* (1, 17%), *Cheilanthes sieberi* subsp. *sieberi* (1, 17%), *Crotalaria medicaginea* (1, 17%), *Crotalaria montana* (17%), *Desmodium* indet. (1, 17%), *Dianella longifolia* (1, 17%), *Euphorbia dallachyana* (1, 17%), *Eustrephus latifolius* (1, 17%), *Galactia tenuiflora* (2, 17%), *Geitonoplesium cymosum* (17%), *Glycine cyrtoloba* (1, 17%), *Heliotropium brachygyne* (17%), *Indigofera linnaei* (17%), *Indigofera pratensis* (17%), *Jasminum dianthifolium* (17%), *Jasminum didymum* subsp. *lineare* (17%), *Lespedeza juncea* subsp. *sericea* (17%), *Lomandra longifolia* (1, 17%), *Maireana* indet. (17%), *Malvastrum americanum* (17%), *Melhania oblongifolia* (17%), *Mentha satuireioides* (17%), *Neptunia gracilis* (17%), *Opuntia stricta*\* (1, 17%), *Oxalis* indet. (1, 17%), *Pandorea pandorana* (1, 17%), *Peripleura hispidula* var. *setosa* (17%), *Plantago debilis* (17%), *Pterocaulon serrulatum* (17%), *Rhynchosia minima* var. *australis* (4, 17%), *Rhynchosia minima* var. *minima* (17%), *Sida rohlenae* (17%), *Tephrosia rufula* (1, 17%), *Verbena* indet. (17%), *Vittadinia pustulata* (17%), *Wahlenbergia communis* (17%), *Waltheria indica* (1, 17%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Eucalyptus orgadophila woodland with a dense understorey of low trees**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 27,097 6,758 25%

Species\_recorded: Total: 58; woody: 12; ground: 46; Avg. spp./site: 58.0; std dev.: 0.0, 1 site(s)

Basal area: Avg./site: 9.0 m<sup>2</sup>/ha, range: 9.0 - 9 m<sup>2</sup>/ha, std. deviation: 0 m<sup>2</sup>/ha, 1 site(s)

Structural formation: Woodland: 100%, 1 site(s)

Representative\_sites 16978.

**Stratum: Tree 1**

Height avg. = 12.0m, 1 site

Crown cover avg. = 35.0%, 1 site

Dominant species (relative cover, frequency): *Eucalyptus orgadophila* (97, 100%), *Eucalyptus melanophloia* (3, 100%)

Frequent species (cover, frequency): *Eucalyptus crebra* (100%), *Eucalyptus melanophloia* (1, 100%), *Eucalyptus orgadophila* (34, 100%), *Eucalyptus tereticornis* (100%)

**Stratum: Tree 2**

Height avg. = 7.0m, 1 site

Crown cover avg. = 20.0%, 1 site

Dominant species (relative cover, frequency): *Corymbia erythrophloia* (77, 100%), *Acacia salicina* (22, 100%), *Psyrdrax odorata* (1, 100%), *Eucalyptus orgadophila* (1, 100%)

Frequent species (cover, frequency): *Acacia salicina* (4, 100%), *Corymbia erythrophloia* (14, 100%), *Eucalyptus orgadophila* (100%), *Psyrdrax odorata* (100%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Shrub 1**

Height avg. = 3.0m, 1 site

Crown cover avg. = 10.0%, 1 site

*Dominant species (relative cover, frequency):* *Pittosporum spinescens* (29, 100%), *Geijera salicifolia* (29, 100%), *Psydrax odorata* (19, 100%), *Macrozamia moorei* (19, 100%), *Turraea pubescens* (1, 100%)

*Frequent species (cover, frequency):* *Acacia salicina* (100%), *Cleistanthus indet.* (100%), *Corymbia erythrophloia* (100%), *Geijera salicifolia* (3, 100%), *Macrozamia moorei* (2, 100%), *Pittosporum spinescens* (3, 100%), *Psydrax odorata* (2, 100%), *Turraea pubescens* (100%)

**Stratum: Ground**

Height avg. = 1.0m, 1 site

PFC avg. = 78.0%, 1 site

*Dominant species (relative cover, frequency):* *Themeda triandra* (56, 100%), *Bothriochloa decipiens* var. *cloncurrrensensis* (14, 100%), *Aristida gracilipes* (13, 100%), *Heteropogon contortus* (5, 100%), *Dichanthium tenue* (3, 100%)

*Frequent species (cover, frequency):* GRAMINOIDS: *Aristida gracilipes* (10, 100%), *Aristida longicollis* (100%), *Astrebla indet.* (100%), *Bothriochloa decipiens* var. *cloncurrrensensis* (11, 100%), *Chloris divaricata* (100%), *Dichanthium sericeum* (2, 100%), *Dichanthium setosum* (100%), *Dichanthium tenue* (2, 100%), *Enneapogon lindleyanus* (100%), *Enneapogon purpurascens* (100%), *Heteropogon contortus* (4, 100%), *Melinis repens*\* (100%), *Panicum decompositum* (100%), *Paspalidium constrictum* (1, 100%), *Paspalidium spartellum* (100%), *Themeda triandra* (45, 100%), *Urochloa foliosa* (100%)

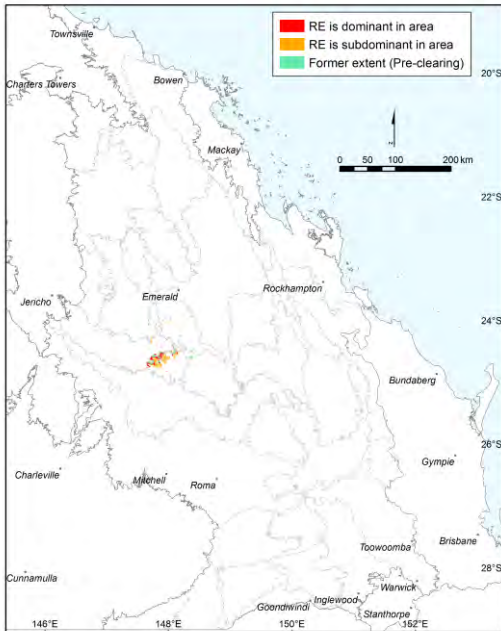
FORBS: *Atalaya hemiglauca* (100%), *Brachychiton australis* (100%), *Breynia oblongifolia* (100%), *Bridelia leichhardtii* (100%), *Cheilanthes distans* (100%), *Clerodendrum floribundum* (100%), *Commelina diffusa* (100%), *Crotalaria juncea*\* (100%), *Evolvulus alsinoides* (100%), *Ficus opposita* (100%), *Galactia tenuiflora* (100%), *Geijera parviflora* (100%), *Geitonoplesium cymosum* (100%), *Grewia retusifolia* (100%), *Indigofera linifolia* (1, 100%), *Lomandra longifolia* (100%), *Lotus australis* (100%), *Malvastrum americanum* var. *americanum*\* (100%), *Melhania oblongifolia* (100%), *Opuntia stricta*\* (100%), *Pandorea pandorana* (100%), *Peripleura hispidula* var. *hispidula* (100%), *Phyllanthus gunnii* (100%), *Pseuderanthemum variabile* (100%), *Rhynchosia minima* (100%), *Salvia reflexa*\* (100%), *Sida hackettiana* (100%), *Spermacoce brachystema* (100%), *Trichodesma zeylanicum* (100%)

**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Macropteranthes leichhardtii thicket on Cainozoic igneous rocks**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 29,054 15,584 54%

Species\_recorded: Total: 21; woody: 13; ground: 8; Average species per site and standard deviation not available

Basal area: Avg./site: 24.0 m<sup>2</sup>/ha, range: 24.0 - 24 m<sup>2</sup>/ha, std. deviation: 0 m<sup>2</sup>/ha, 1 site(s)

Structural formation: Unrecorded: 100%, 1 site(s)

Representative\_sites 28796.

**Stratum: Tree 1**

Height avg. = 14.0m, 1 site

Crown cover avg. = 45.0%, 1 site

Dominant species (relative cover, frequency): *Macropteranthes leichhardtii* (55, 100%), *Brachychiton australis* (22, 100%), *Lysiphyllum hookeri* (11, 100%), *Atalaya hemiglauca* (11, 100%)

Frequent species (cover, frequency): *Atalaya hemiglauca* (5, 100%), *Brachychiton australis* (10, 100%), *Brachychiton rupestris* (100%), *Lysiphyllum hookeri* (5, 100%), *Macropteranthes leichhardtii* (25, 100%)

**Stratum: Tree 2**

Height avg. = 5.0m, 1 site

Crown cover avg. = 5.0%, 1 site

Dominant species (relative cover, frequency): *Macropteranthes leichhardtii* (58, 100%), *Pittosporum spinescens* (19, 100%), *Bridelia leichhardtii* (19, 100%), *Psydax odorata* (2, 100%), *Atalaya hemiglauca* (2, 100%)

Frequent species (cover, frequency): *Atalaya hemiglauca* (100%), *Bridelia leichhardtii* (1, 100%), *Macropteranthes leichhardtii* (3, 100%), *Pittosporum spinescens* (1, 100%), *Psydax odorata* (100%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Shrub 1****Height avg. = 1.5m, 1 site****Crown cover avg. = 12.0%, 1 site**

*Dominant species (relative cover, frequency):* *Acalypha eremorum* (56, 100%), *Carissa ovata* (16, 100%), *Pittosporum spinescens* (8, 100%), *Jasminum simplicifolium subsp. australiense* (8, 100%), *Jasminum didymum subsp. racemosum* (8, 100%)

*Frequent species (cover, frequency):* *Acalypha eremorum* (7, 100%), *Carissa ovata* (2, 100%), *Diospyros humilis* (1, 100%), *Jasminum didymum subsp. racemosum* (1, 100%), *Jasminum simplicifolium subsp. australiense* (1, 100%), *Pittosporum spinescens* (1, 100%)

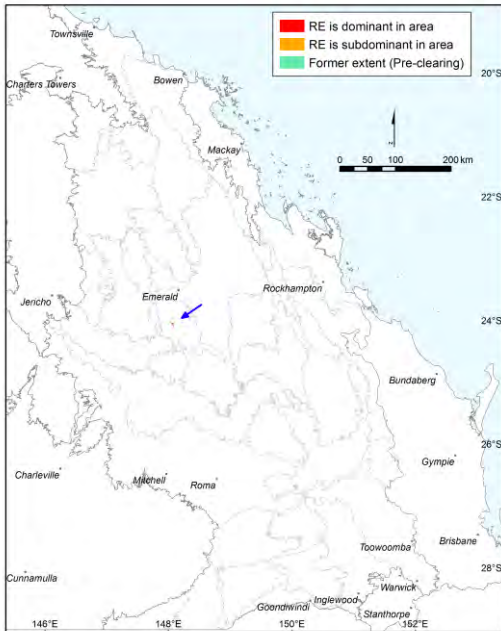
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**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Shrubland (heath) on Cainozoic igneous rocks**



**Pre-clearing area (ha), remnant area (ha) and per cent remaining:** 2,351      2,226      95%

**Species\_recorded:** Total: 53; woody: 8; ground: 46; Avg. spp./site: 19.3; std dev.: 1.2, 3 site(s)

**Basal area:** Avg./site: 4.0 m<sup>2</sup>/ha, range: 2.0 - 6 m<sup>2</sup>/ha, std. deviation: 2 m<sup>2</sup>/ha, 2 site(s)

**Structural formation:** Low woodland: 33%; low open-forest: 33%; closed-scrub: 33%, 3 site(s)

**Representative\_sites** 16698, 16970, 19031.

**Stratum: Tree 1**

**Height avg. = 5.3m, range 5-5.5m, 2 sites**

**Crown cover avg. = 30.0%, range 20.0-40.0%, 2 sites**

*Dominant species (relative cover, frequency): Acacia aprepta (100, 33%), Eucalyptus sicilifolia (88, 33%), Corymbia trachyphloia (13, 33%)*

*Frequent species (cover, frequency): Acacia aprepta (20, 33%), Corymbia trachyphloia (5, 33%), Eucalyptus sicilifolia (35, 33%)*

**Stratum: Shrub 1**

**Height avg. = 2.3m, range 2-3m, 3 sites**

**Crown cover avg. = 36.3%, range 10.0-74.0%, 3 sites**

*Dominant species (relative cover, frequency): Acacia aprepta (94, 33%), Acacia julifera subsp. curvinervia (92, 67%), Dodonaea heteromorpha (17, 33%), Cynanchum viminale subsp. brunonianum (5, 33%), Psydrax saligna forma saligna (1, 33%)*

*Frequent species (cover, frequency): Acacia julifera subsp. curvinervia (45, 67%), Acacia aprepta (10, 33%), Acacia leiocalyx subsp. leiocalyx (33%), Cynanchum viminale subsp. brunonianum (1, 33%), Dodonaea heteromorpha (3, 33%), Psydrax saligna forma saligna (33%)*

**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Ground**

Height avg. = 0.2m, range 0.2-0.3m, 3 sites

PFC avg. = 16.7%, range 5-30%, 3 sites

*Dominant species (relative cover, frequency):* *Aristida queenslandica* var. *queenslandica* (38, 33%), *Digitaria ramularis* (38, 33%), *Jacksonia scoparia* (29, 33%), *Triodia mitchellii* (26, 67%), *Setaria surgens* (23, 33%)

*Frequent species (cover, frequency):* GRAMINOIDS: *Melinis repens*\* (67%), *Triodia mitchellii* (6, 67%), *Aristida gracilipes* (33%), *Aristida holathera* var. *holathera* (33%), *Aristida latifolia* (33%), *Aristida queenslandica* var. *queenslandica* (10, 33%), *Digitaria breviglumis* (33%), *Digitaria ramularis* (10, 33%), *Entolasia stricta* (3, 33%), *Eragrostis elongata* (33%), *Eragrostis lacunaria* (33%), *Eragrostis sororia* (33%), *Eriochloa pseudoacrotricha* (33%), *Fimbristylis dichotoma* (33%), *Panicum effusum* (33%), *Scleria mackaviensis* (33%), *Setaria surgens* (1, 33%), *Tripogon loliiformis* (5, 33%)

FORBS: *Gonocarpus elatus* (67%), *Prostanthera cryptandroides* subsp. *euphrasioides* (67%), *Acacia leiocalyx* subsp. *leiocalyx* (1, 33%), *Alstonia constricta* (33%), *Beyeria viscosa* (33%), *Cheilanthes distans* (33%), *Cheilanthes sieberi* (33%), *Cheilanthes sieberi* subsp. *sieberi* (33%), *Commersonia johnsonii* (33%), *Cryptandra speciosa* subsp. *strigosa* (33%), *Cyanthillium cinereum* (33%), *Dampiera adpressa* (33%), *Dodonaea filifolia* (33%), *Dodonaea viscosa* subsp. *burmanniana* (33%), *Evolvulus alsinoides* var. *decumbens* (33%), *Hemigenia indet.* (33%), *Hibiscus heterophyllus* (33%), *Hibiscus sturtii* (33%), *Jacksonia scoparia* (7, 33%), *Leptospermum neglectum* (1, 33%), *Lomandra filiformis* subsp. *coriacea* (33%), *Oldenlandia mitrasacmoides* (33%), *Opuntia tomentosa*\* (33%), *Paraceterach muelleri* (33%), *Peripleura hispidula* var. *hispidula* (1, 33%), *Phyllanthus gunnii* (33%), *Ricinocarpus ledifolius* (33%), *Solanum ellipticum* (33%)

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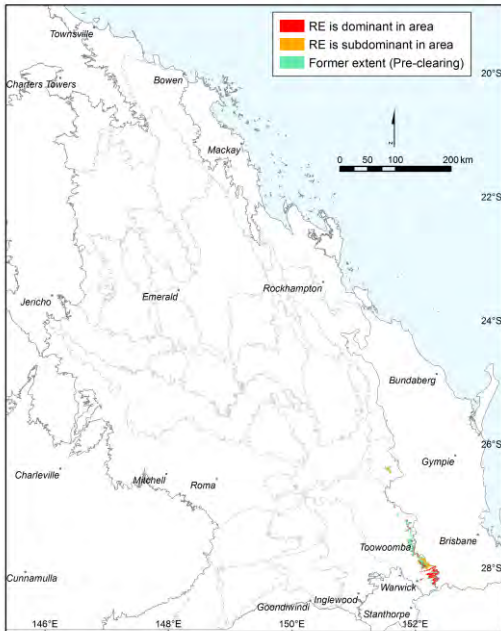
**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus



**Eucalyptus albens, E. crebra woodland on Cainozoic igneous rocks**



Annie Kelly

**Pre-clearing area (ha), remnant area (ha) and per cent remaining:** 81,201 36,914 45%

**Species recorded:** Total: 66; woody: 13; ground: 56; Avg. spp./site: 40.0; std dev.: 0.0, 1 site(s)

**Basal area:** Avg./site: 12.3 m<sup>2</sup>/ha, range: 7.5 - 17 m<sup>2</sup>/ha, std. deviation: 3 m<sup>2</sup>/ha, 4 site(s)

**Structural formation:** Woodland: 50%; open-woodland: 50%, 4 site(s)

**Representative sites** 15788, 15789, 17414, 17415.

**Stratum: Tree 1**

**Height avg. = 18.8m, range 17-20m, 4 sites**  
**Crown cover avg. = 32.5%, range 20.0-43.0%, 4 sites**

*Dominant species (relative cover, frequency): Eucalyptus albens (79, 50%), Eucalyptus crebra (39, 75%), Eucalyptus melliodora (35, 50%), Eucalyptus tereticornis (11, 100%), Eucalyptus biturbinata (5, 25%)*

*Frequent species (cover, frequency): Eucalyptus tereticornis (3, 100%), Eucalyptus crebra (12, 75%), Eucalyptus albens (29, 50%), Eucalyptus melliodora (12, 50%), Corymbia clarksoniana (1, 25%), Eucalyptus biturbinata (1, 25%), Eucalyptus microcarpa (1, 25%)*

**Stratum: Tree 2**

**Height avg. = 7.0m, range 7-7m, 2 sites**  
**Crown cover avg. = 13.5%, range 7.0-20.0%, 2 sites**

*Dominant species (relative cover, frequency): Eucalyptus albens (53, 50%), Eucalyptus crebra (50, 25%), Eucalyptus orgadophila (29, 25%), Eucalyptus tereticornis (15, 25%)*

*Frequent species (cover, frequency): Eucalyptus albens (6, 50%), Eucalyptus crebra (10, 25%), Eucalyptus orgadophila (2, 25%), Eucalyptus tereticornis (3, 25%)*

**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

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**Stratum: Tree 3**

Height avg. = 3.5m, range 3-4m, 2 sites

Crown cover avg. = 4.0%, range 3.0-5.0%, 2 sites

Dominant species (relative cover, frequency): *Eucalyptus albens* (80, 50%), *Eucalyptus crebra* (40, 25%)

Frequent species (cover, frequency): *Eucalyptus albens* (3, 50%), *Eucalyptus crebra* (2, 25%)

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**Stratum: Shrub 1**

Height avg. = 2.1m, range 1.8-2.5m, 3 sites

Crown cover avg. = 10.0%, range 2.0-20.0%, 3 sites

Dominant species (relative cover, frequency): *Eucalyptus albens* (100, 25%), *Exocarpos cupressiformis* (82, 25%), *Acacia indet.* (67, 25%), *Lantana camara\** (33, 25%), *Cassinia laevis* (12, 25%)

Frequent species (cover, frequency): *Acacia indet.* (20, 25%), *Cassinia laevis* (1, 25%), *Choretrum candollei* (1, 25%), *Eucalyptus albens* (2, 25%), *Exocarpos cupressiformis* (7, 25%), *Lantana camara\** (10, 25%)

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**Stratum: Ground**

Height avg. = 0.4m, 1 site

PFC avg. = 75.0%, 1 site

Dominant species (relative cover, frequency): *Chrysopogon fallax* (24, 100%), *Dichanthium sericeum* (18, 100%), *Aristida personata* (12, 100%), *Themeda triandra* (12, 100%), *Mentha satuireioides* (6, 100%)

Frequent species (cover, frequency): GRAMINOIDS: *Aristida leichhardtiana* (1, 100%), *Aristida personata* (10, 100%), *Bothriochloa decipiens* (1, 100%), *Chloris truncata* (1, 100%), *Chrysopogon fallax* (20, 100%), *Cymbopogon refractus* (2, 100%), *Cyperus gracilis* (1, 100%), *Dichanthium sericeum* (15, 100%), *Panicum decompositum* (2, 100%), *Themeda triandra* (10, 100%)

FORBS: *Asperula conferta* (1, 100%), *Brunoniella australis* (1, 100%), *Chrysocephalum apiculatum* (1, 100%), *Desmodium brachypodum* (1, 100%), *Desmodium varians* (2, 100%), *Dianella brevipedunculata* (2, 100%), *Dichondra repens* (1, 100%), *Eremophila debilis* (1, 100%), *Erigeron canadensis\** (100%), *Glycine tabacina* (2, 100%), *Gomphocarpus physocarpus\** (100%), *Hydrocotyle laxiflora* (1, 100%), *Jasminum dianthifolium* (1, 100%), *Lespedeza juncea subsp. sericea* (4, 100%), *Lobelia purpurascens* (1, 100%), *Mentha satuireioides* (5, 100%), *Opuntia tomentosa\** (100%), *Plantago debilis* (1, 100%), *Rhynchosia minima* (1, 100%), *Rostellularia adscendens* (1, 100%), *Sigesbeckia orientalis* (100%), *Spermacoce brachystema* (1, 100%), *Verbena indet.* (100%), *Zinnia peruviana\** (1, 100%)

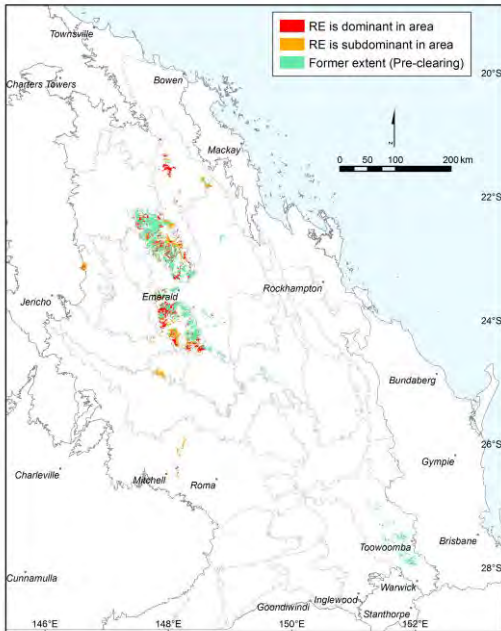
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Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

Dichanthium sericeum grassland on Cainozoic igneous rocks



Don Butler

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 603,568 174,055 29%

Species\_recorded: Total: 89; woody: 8; ground: 84; Avg. spp./site: 18.0; std dev.: 7.4, 6 site(s)

Basal area: Avg./site: 1.5 m<sup>2</sup>/ha, range: 1.0 - 2 m<sup>2</sup>/ha, std. deviation: 1 m<sup>2</sup>/ha, 2 site(s)

Structural formation: Tussock grassland: 67%; closed-tussock grassland: 22%; open-tussock grassland: 11%, 9 site(s)

Representative\_sites 16916, 17220, 17370, 17371, 28764, 28774, 28775, 32144, 32293.

**Stratum: Emergent**

Height avg. = 12.0m, 1 site

Crown cover avg. = 2.0%, 1 site

Frequent species (cover, frequency): *Eucalyptus orgadophila* (2, 11%)

**Stratum: Tree 1**

Height avg. = 10.5m, range 7-14m, 2 sites

Crown cover avg. = 1.5%, range 1.0-2.0%, 2 sites

Frequent species (cover, frequency): *Acacia salicina* (2, 11%), *Eucalyptus orgadophila* (11%)

**Stratum: Shrub 1**

Height avg. = 1.2m, range 1-1.5m, 3 sites

Crown cover avg. = 1.3%, range 0.0-2.0%, 3 sites

Dominant species (relative cover, frequency): *Vachellia farnesiana*\* (54, 22%)

Frequent species (cover, frequency): *Vachellia farnesiana*\* (1, 22%), *Acacia pendula* (11%), *Acacia salicina* (2, 11%), *Cassia brewsteri* (11%), *Corymbia erythrophloia* (11%), *Corymbia tessellaris* (11%), *Eucalyptus orgadophila* (11%), *Sesbania cannabina* (1, 11%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Ground**

Height avg. = 0.7m, range 0.4-1m, 6 sites

PFC avg. = 69.8%, range 45-90%, 6 sites

*Dominant species (relative cover, frequency):* *Dichanthium sericeum* (35, 83%), *Dichanthium queenslandicum* (31, 33%), *Panicum queenslandicum* (20, 67%), *Bothriochloa bladhii* (17, 50%), *Dichanthium aristatum\** (10, 33%)

*Frequent species (cover, frequency):* GRAMINOIDS: *Dichanthium sericeum* (27, 83%), *Heteropogon contortus* (1, 83%), *Aristida leptopoda* (2, 67%), *Melinis repens\** (1, 67%), *Panicum queenslandicum* (13, 67%), *Aristida latifolia* (3, 50%), *Bothriochloa bladhii* (14, 50%), *Bothriochloa erianthoides* (4, 33%), *Dichanthium aristatum\** (4, 33%), *Dichanthium queenslandicum* (18, 33%), *Eriochloa crebra* (6, 33%), *Panicum decompositum* (2, 33%), *Paspalidium globoideum* (1, 33%), *Sorghum x drummondii\** (33%), *Aristida indet.* (3, 17%), *Aristida queenslandica* (4, 17%), *Bothriochloa ewartiana* (10, 17%), *Bothriochloa pertusa\** (3, 17%), *Cenchrus ciliaris\** (17%), *Cymbopogon bombycinus* (2, 17%), *Cyperus bifax* (17%), *Digitaria brownii* (2, 17%), *Enneapogon polyphyllus* (17%), *Enneapogon robustissimus* (1, 17%), *Enneapogon truncatus* (2, 17%), *Eragrostis cilianensis\** (17%), *Eriochloa pseudoacrotricha* (2, 17%), *Iseilema vaginiflorum* (7, 17%), *Panicum indet.* (14, 17%), *Poaceae indet.* (23, 17%), *Sorghum halepense\** (17%), *Sorghum x alnum\** (17%), *Sporobolus disjunctus* (17%), *Themeda triandra* (1, 17%), *Tragus australianus* (1, 17%)

FORBS: *Desmodium rhytidophyllum* (2, 33%), *Leiocarpa brevicompta* (6, 33%), *Parthenium hysterophorus\** (1, 33%), *Pimelea haematostachya* (1, 33%), *Verbena indet.* (1, 33%), *Acmella grandiflora var. brachyglossa* (1, 17%), *Alysicarpus schomburgkii* (17%), *Amaranthus mitchellii* (17%), *Apowollastonia spilanthoides* (1, 17%), *Asperula conferta* (17%), *Calotis cuneata* (17%), *Crotalaria dissitiflora subsp. dissitiflora* (17%), *Cyanthillium cinereum* (1, 17%), *Einadia hastata* (17%), *Erigeron canadensis\** (17%), *Euchiton sphaericus* (1, 17%), *Eustrephus latifolius* (17%), *Glycine cyrtoloba* (1, 17%), *Glycine latifolia* (17%), *Glycine tomentella* (2, 17%), *Haloragis aspera* (17%), *Haloragis stricta* (10, 17%), *Hibiscus verdcourtii* (17%), *Ipomoea polymorpha* (1, 17%), *Marsdenia viridiflora* (17%), *Melaleuca trichostachya* (17%), *Mimosa pudica\** (1, 17%), *Phyllanthus virgatus* (1, 17%), *Rhynchosia minima* (17%), *Senecio indet.* (17%), *Vachellia farnesiana\** (1, 17%), *Verbena macrostachya* (17%), *Wahlenbergia tumidifruca* (17%)

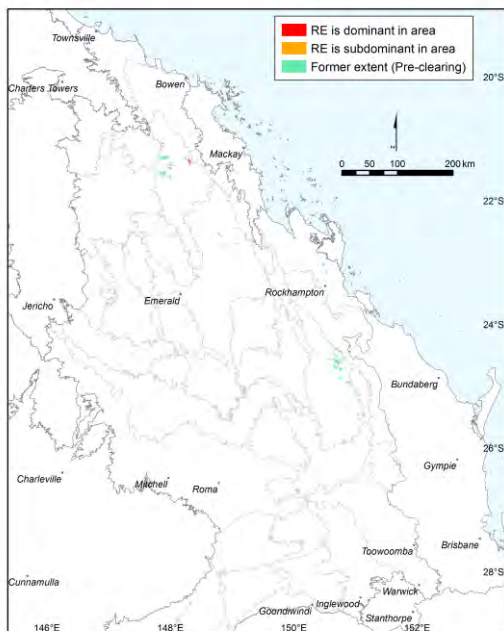
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**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

Semi-evergreen vine thicket and microphyll vine forest on Cainozoic igneous rocks



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 50,374 5,499 11%

Species\_recorded: Total: 160; woody: 98; ground: 92; Avg. spp./site: 47.7; std dev.: 15.5, 7 site(s)

Basal area: Avg./site: 14.4 m<sup>2</sup>/ha, range: 11.0 - 20 m<sup>2</sup>/ha, std. deviation: 3 m<sup>2</sup>/ha, 7 site(s)

Structural formation: Low woodland: 38%; open-forest: 13%; low open-woodland: 13%; unrecorded: 38%, 8 site(s)

Representative\_sites 14170, 16897, 47413, 47435, 47474, 47494, 47715, 47716.

**Stratum: Emergent**

Height avg. = 12.9m, range 10-16m, 4 sites

Crown cover avg. = 7.0%, range 5.0-10.0%, 4 sites

Dominant species (relative cover, frequency): *Brachychiton australis* (68, 25%), *Brachychiton rupestris* (54, 50%)

Frequent species (cover, frequency): *Brachychiton rupestris* (3, 50%), *Brachychiton australis* (5, 25%), *Acacia harpophylla* (4, 13%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Tree 1**

Height avg. = 7.9m, range 4.5-12m, 8 sites

Crown cover avg. = 37.5%, range 15.0-70.0%, 8 sites

*Dominant species (relative cover, frequency):* *Lysiphyllum hookeri* (60, 38%), *Geijera salicifolia* (27, 50%), *Coatesia paniculata* (16, 38%), *Pleiogynium timorense* (15, 25%), *Brachychiton australis* (15, 50%)

*Frequent species (cover, frequency):* *Ehretia membranifolia* (1, 75%), *Brachychiton australis* (3, 50%), *Geijera salicifolia* (7, 50%), *Tinospora smilacina* (50%), *Acacia fasciculifera* (2, 38%), *Backhousia angustifolia* (3, 38%), *Bridelia leichhardtii* (1, 38%), *Coatesia paniculata* (4, 38%), *Cynanchum viminale subsp. brunonianum* (38%), *Erythroxyllum sp. (Splityard Creek L.Pedley 5360)* (1, 38%), *Jasminum simplicifolium subsp. australiense* (1, 38%), *Lysiphyllum hookeri* (33, 38%), *Parsonsia lanceolata* (38%), *Secamone elliptica* (38%), *Acacia salicina* (1, 25%), *Alectryon diversifolius* (25%), *Alstonia constricta* (1, 25%), *Amyema congener* (25%), *Brachychiton rupestris* (2, 25%), *Bursaria incana* (1, 25%), *Cassia tomentella* (25%), *Croton insularis* (25%), *Denhamia oleaster* (1, 25%), *Drypetes deplanchei* (1, 25%), *Gossia bidwillii* (1, 25%), *Grevillea helmsiae* (25%), *Marsdenia pleiadenia* (25%), *Notelaea microcarpa* (1, 25%), *Pandorea pandorana* (25%), *Planchonella cotinifolia* (25%), *Pleiogynium timorense* (5, 25%), *Strychnos psilosperma* (25%), *Acacia harpophylla* (20, 13%), *Alectryon connatus* (13%), *Alectryon pubescens* (13%), *Atalaya salicifolia* (13%), *Casuarina cristata* (50, 13%), *Claoxylon tenerifolium subsp. tenerifolium* (13%), *Clematicissus opaca* (13%), *Corymbia erythrophloia* (13%), *Cupaniopsis anacardioides* (13%), *Denhamia disperma* (13%), *Denhamia pittosporoides subsp. pittosporoides* (3, 13%), *Dinosperma erythroccum* (5, 13%), *Diospyros humilis* (13%), *Elattostachys xylocarpa* (1, 13%), *Euroschinus falcatus var. falcatus* (13%), *Flinderia collina* (1, 13%), *Geijera parviflora* (13%), *Glossocarya hemiderma* (13%), *Lysiana subfalcata* (13%), *Melia azedarach* (13%), *Opuntia tomentosa\** (1, 13%), *Owenia venosa* (13%), *Parsonsia plaesiophylla* (13%), *Siphonodon australis* (13%)

**Stratum: Tree 2**

Height avg. = 5.5m, range 4.5-6.5m, 2 sites

Crown cover avg. = 22.5%, range 15.0-30.0%, 2 sites

*Dominant species (relative cover, frequency):* *Coatesia paniculata* (57, 25%), *Planchonella cotinifolia* (11, 25%), *Secamone elliptica* (5, 25%), *Jasminum simplicifolium subsp. australiense* (1, 25%)

*Frequent species (cover, frequency):* *Coatesia paniculata* (14, 25%), *Jasminum simplicifolium subsp. australiense* (25%), *Parsonsia lanceolata* (25%), *Planchonella cotinifolia* (3, 25%), *Secamone elliptica* (1, 25%), *Alectryon diversifolius* (13%), *Alectryon pubescens* (13%), *Atalaya salicifolia* (1, 13%), *Bursaria incana* (13%), *Clematicissus opaca* (13%), *Croton insularis* (13%), *Cynanchum viminale subsp. brunonianum* (13%), *Diospyros humilis* (13%), *Elaeodendron australe var. integrifolium* (13%), *Elattostachys bidwillii* (13%), *Erythroxyllum sp. (Splityard Creek L.Pedley 5360)* (13%), *Exocarpos latifolius* (2, 13%), *Geijera salicifolia* (13%), *Glossocarya hemiderma* (1, 13%), *Gossia bidwillii* (1, 13%), *Marsdenia pleiadenia* (13%), *Melodorum leichhardtii* (13%), *Notelaea microcarpa* (13%), *Pandorea pandorana* (3, 13%), *Pleiogynium timorense* (13%), *Solanum seaforthianum\** (3, 13%), *Tinospora smilacina* (13%)

**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Shrub 1**

Height avg. = 2.2m, range 1.5-4m, 7 sites

Crown cover avg. = 25.3%, range 5.0-65.0%, 8 sites

Dominant species (relative cover, frequency): *Strychnos psilosperma* (41, 50%), *Coatesia paniculata* (32, 38%), *Acalypha eremorum* (32, 75%), *Carissa ovata* (16, 38%), *Glossocarya hemiderma* (7, 75%)

Frequent species (cover, frequency): *Acalypha eremorum* (11, 75%), *Glossocarya hemiderma* (1, 75%), *Jasminum simplicifolium* subsp. *australiense* (1, 63%), *Solanum seaforthianum*\* (1, 63%), *Alectryon diversifolius* (1, 50%), *Alyxia ruscifolia* (1, 50%), *Croton insularis* (50%), *Jasminum didymum* subsp. *racemosum* (50%), *Secamone elliptica* (50%), *Strychnos psilosperma* (9, 50%), *Atalaya salicifolia* (38%), *Carissa ovata* (8, 38%), *Clerodendrum floribundum* (38%), *Coatesia paniculata* (3, 38%), *Croton phebaloides* (1, 38%), *Flueggea leucopyrus* (38%), *Pandorea pandorana* (1, 38%), *Pittosporum spinescens* (1, 38%), *Planchonella cotinifolia* (38%), *Capparis arborea* (25%), *Capparis lasiantha* (25%), *Clematicissus opaca* (25%), *Cynanchum viminalis* subsp. *brunonianum* (25%), *Diosperma erythrococtum* (25%), *Diospyros humilis* (25%), *Elaeodendron australe* var. *integrifolium* (25%), *Erythroxylum* sp. (*Splityard Creek L.Pedley 5360*) (1, 25%), *Exocarpos latifolius* (1, 25%), *Hibiscus heterophyllus* (25%), *Hovea longipes* (1, 25%), *Opuntia tomentosa*\* (1, 25%), *Parsonsia lanceolata* (25%), *Psydrax odorata* (25%), *Psydrax odorata* forma *australiana* (25%), *Solanum furfuraceum* (25%), *Turraea pubescens* (3, 25%), *Acacia harpophylla* (13%), *Acalypha capillipes* (13%), *Alchornea ilicifolia* (13%), *Apophyllum anomalum* (13%), *Aryterea foveolata* (13%), *Backhousia angustifolia* (1, 13%), *Breynia oblongifolia* (13%), *Bursaria incana* (2, 13%), *Capparis loranthifolia* (13%), *Cassia tomentella* (13%), *Cissus oblonga* (1, 13%), *Croton acronychioides* (13%), *Drypetes deplanchei* (13%), *Elattostachys xylocarpa* (13%), *Eremophila mitchellii* (5, 13%), *Everistia vacciniifolia* forma *vacciniifolia* (13%), *Flindersia collina* (13%), *Geijera salicifolia* (13%), *Geitonoplesium cymosum* (13%), *Hoya australis* subsp. *australis* (1, 13%), *Lysiphyllum hookeri* (13%), *Marsdenia pleiadenia* (13%), *Melodorum leichhardtii* (13%), *Murraya ovatifoliolata* (13%), *Notelaea microcarpa* (1, 13%), *Parsonsia plaesiophylla* (13%), *Pittosporum viscidum* (13%), *Pleiogyne timorensis* (13%), *Psydrax forsteri* (13%), *Senna coronilloides* (13%), *Senna sophora* var. (*40Mile Scrub J.R.Clarkson+ 6908*) (13%), *Solanum erianthum*\* (13%), *Spartium junceum*\* (13%), *Triflorensia ixoroides* (13%), *Vincetoxicum ovatum* (13%)

**Stratum: Ground**

Height avg. = 0.7m, range 0.15-1.1m, 7 sites

PFC avg. = 32.1%, range 5-70%, 7 sites

Dominant species (relative cover, frequency): *Megathyrsus maximus* var. *pubiglumis*\* (69, 57%), *Carissa ovata* (19, 43%), *Cenchrus ciliaris*\* (13, 43%), *Paspalidium caespitosum* (13, 29%), *Ancistrachne uncinulata* (12, 29%)

Frequent species (cover, frequency): GRAMINOIDS: *Aristida gracilipes* (1, 57%), *Megathyrsus maximus* var. *pubiglumis*\* (26, 57%), *Scleria mackaviensis* (57%), *Cenchrus ciliaris*\* (4, 43%), *Cymbopogon refractus* (43%), *Cyperus gracilis* (1, 43%), *Dinebra decipiens* (1, 43%), *Ancistrachne uncinulata* (2, 29%), *Paspalidium caespitosum* (8, 29%), *Aristida latifolia* (2, 14%), *Aristida lignosa* (3, 14%), *Aristida personata* (2, 14%), *Dichanthium sericeum* (3, 14%), *Digitaria brownii* (14%), *Enneapogon gracilis* (14%), *Enneapogon lindleyanus* (14%), *Enteropogon acicularis* (3, 14%), *Eragrostis* indet. (14%), *Eragrostis megalosperma* (2, 14%), *Eriochloa procera* (14%), *Megathyrsus maximus*\* (14%), *Panicum decompositum* (14%), *Paspalidium criniforme* (14%), *Paspalidium gracile* (5, 14%), *Setaria paspalidioides* (3, 14%), *Sorghum x alnum*\* (1, 14%), *Sporobolus contiguus* (14%), *Urochloa foliosa* (1, 14%)

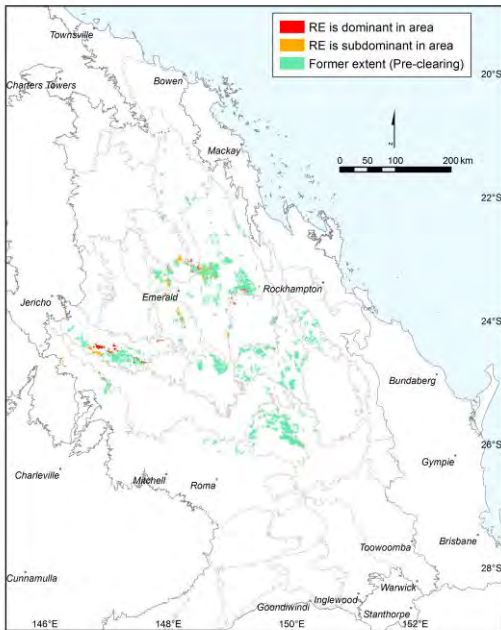
FORBS: *Clematicissus opaca* (71%), *Glossocarya hemiderma* (1, 71%), *Achyranthes aspera* (1, 57%), *Pandorea pandorana* (1, 57%), *Abutilon oxycarpum* var. *oxycarpum* (1, 43%), *Carissa ovata* (12, 43%), *Coatesia paniculata* (43%), *Dianella caerulea* var. *vannata* (43%), *Jasminum didymum* subsp. *racemosum* (1, 43%), *Jasminum simplicifolium* subsp. *australiense* (43%), *Malvastrum americanum* (1, 43%), *Pseuderanthemum variabile* (1, 43%), *Abutilon oxycarpum* (1, 29%), *Geijera salicifolia* (29%), *Pellaea nana* (29%), *Phyllanthus gunnii* (29%), *Solanum seaforthianum*\* (1, 29%), *Tinospora smilacina* (29%), *Acalypha eremorum* (14%), *Alectryon diversifolius* (14%), *Alyxia ruscifolia* (14%), *Atalaya salicifolia* (14%), *Bidens bipinnata*\* (14%), *Breynia oblongifolia* (14%), *Capparis lasiantha* (14%), *Cissus reniformis* (14%), *Cynanchum viminalis* subsp. *brunonianum* (14%), *Dioscorea transversa* (14%), *Diospyros humilis* (14%), *Diplocyclos palmatus* subsp. *palmatus* (14%), *Ehretia membranifolia* (14%), *Einadia nutans* (14%), *Euphorbia tannensis* subsp. *eremophila* (14%), *Evolvulus alsinoides* (14%), *Flindersia dissosperma* (14%), *Gynura drymophila* var. *glabrifolia* (1, 14%), *Hibiscus vitifolius* (14%), *Hovea longipes* (14%), *Indigofera brevifolia* (14%), *Jasminum didymum* subsp. *lineare* (14%), *Lysiphyllum carronii* (14%), *Maireana microphylla* (14%), *Marsdenia pleiadenia* (14%), *Marsdenia viridiflora* subsp. *viridiflora* (14%), *Melia azedarach* (14%), *Nyssanthus erecta* (14%), *Olearia canescens* (1, 14%), *Opuntia tomentosa*\* (14%), *Parsonsia lanceolata* (14%), *Passiflora aurantia* var. *aurantia* (14%), *Peripleura bicolor* (14%), *Plectranthus parviflorus* (14%), *Rhagodia parabolica* (14%), *Secamone elliptica* (1, 14%), *Sida hackettiana* (1, 14%), *Sigesbeckia orientalis* (14%), *Solanum mitchellianum* (14%), *Solanum stelligerum* (14%), *Spartium junceum*\* (14%), *Strychnos psilosperma* (14%), *Turraea pubescens* (14%), *Vincetoxicum ovatum* (14%), *Zinnia peruviana*\* (14%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Acacia harpophylla-Eucalyptus cambageana woodland to open forest on fine-grained sedimentary rocks**



**Pre-clearing area (ha), remnant area (ha) and per cent remaining:** 565,070 54,293 10%

**Species\_recorded:** Total: 131; woody: 50; ground: 95; Avg. spp./site: 30.0; std dev.: 10.2, 4 site(s)

**Basal area:** Avg./site: 21.5 m<sup>2</sup>/ha, range: 10.5 - 47 m<sup>2</sup>/ha, std. deviation: 12 m<sup>2</sup>/ha, 9 site(s)

**Structural formation:** Woodland: 44%; open-forest: 33%; low woodland: 11%; low open-forest: 11%, 9 site(s)

**Representative\_sites** 16620, 16834, 16847, 16976, 17027, 17487, 17543, 17544, 17573.

**Stratum: Emergent**

**Height avg. = 17.3m, range 14-20m, 3 sites**

**Crown cover avg. = 5.0%, range 2.0-10.0%, 3 sites**

*Dominant species (relative cover, frequency): Eucalyptus cambageana (83, 33%)*

*Frequent species (cover, frequency): Eucalyptus cambageana (4, 33%), Acacia harpophylla (1, 11%)*

**Stratum: Tree 1**

**Height avg. = 16.0m, range 8-25m, 9 sites**

**Crown cover avg. = 41.2%, range 15.0-60.0%, 9 sites**

*Dominant species (relative cover, frequency): Eucalyptus cambageana (61, 78%), Acacia harpophylla (49, 56%)*

*Frequent species (cover, frequency): Eucalyptus cambageana (25, 78%), Acacia harpophylla (22, 56%), Brachychiton rupestris (11%), Cadellia pentastylis (44, 11%), Casuarina cristata (15, 11%), Eremophila mitchellii (3, 11%), Eucalyptus thozetiana (15, 11%), Notelaea microcarpa (1, 11%)*

**Stratum: Tree 2**

**Height avg. = 11.0m, range 8-18m, 4 sites**

**Crown cover avg. = 26.0%, range 10.0-50.0%, 5 sites**

*Dominant species (relative cover, frequency): Acacia harpophylla (82, 56%), Eucalyptus cambageana (15, 22%)*

*Frequent species (cover, frequency): Acacia harpophylla (23, 56%), Eucalyptus cambageana (4, 22%), Acacia shirleyi (2, 11%), Casuarina cristata (1, 11%), Clematicissus opaca (2, 11%), Eremophila mitchellii (1, 11%), Geijera parviflora (3, 11%), Opuntia stricta\* (11%)*

**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus



**Stratum: Tree 3**

Height avg. = 3.7m, range 3-4m, 3 sites

Crown cover avg. = 6.3%, range 3.0-8.0%, 3 sites

Dominant species (relative cover, frequency): *Eremophila mitchellii* (67, 22%), *Erythroxylum* sp. (Splityard Creek L.Pedley 5360) (40, 22%), *Acacia harpophylla* (23, 22%)

Frequent species (cover, frequency): *Acacia harpophylla* (1, 22%), *Eremophila mitchellii* (5, 22%), *Erythroxylum* sp. (Splityard Creek L.Pedley 5360) (2, 22%), *Alectryon diversifolius* (1, 11%), *Psydrax oleifolia* (2, 11%)

**Stratum: Shrub 1**

Height avg. = 2.7m, range 1.2-4m, 6 sites

Crown cover avg. = 12.3%, range 2.0-20.0%, 7 sites

Dominant species (relative cover, frequency): *Eremophila mitchellii* (48, 33%), *Geijera parviflora* (32, 56%), *Pittosporum spinescens* (30, 22%), *Alectryon diversifolius* (12, 22%), *Acacia harpophylla* (3, 22%)

Frequent species (cover, frequency): *Ancistrachne uncinulata* (11%), *Cenchrus ciliaris*\* (2, 11%), *Dinebra decipiens* (11%), *Enneapogon gracilis* (11%), *Enneapogon intermedius* (11%), *Enneapogon polyphyllus* (11%), *Enteropogon acicularis* (40, 11%), *Enteropogon unispiceus* (1, 11%), *Eragrostis* indet. (11%), *Eragrostis megalosperma* (11%), *Paspalidium gracile* (15, 11%), *Geijera parviflora* (5, 56%), *Eremophila mitchellii* (7, 33%), *Acacia harpophylla* (3, 22%), *Alectryon diversifolius* (1, 22%), *Pittosporum spinescens* (5, 22%), *Abutilon oxycarpum* (11%), *Alphitonia excelsa* (1, 11%), *Atalaya hemiglauca* (1, 11%), *Boerhavia dominii* (11%), *Capparis mitchellii* (2, 11%), *Carissa ovata* (4, 11%), *Clematicissus opaca* (2, 11%), *Cynanchum viminale* subsp. *brunonianum* (1, 11%), *Dianella* indet. (11%), *Diospyros humilis* (10, 11%), *Erythroxylum australe* (8, 11%), *Euphorbia tannensis* subsp. *eremophila* (11%), *Maireana microcarpa* (11%), *Parsonsia lanceolata* (11%), *Phyllanthus similis* (11%), *Pittosporum* indet. (4, 11%), *Psydrax oleifolia* (11%), *Sida* indet. (11%)

**Stratum: Shrub 2**

Height avg. = 1.1m, range 0.5-1.5m, 4 sites

Crown cover avg. = 17.6%, range 2.0-50.0%, 5 sites

Dominant species (relative cover, frequency): *Carissa ovata* (64, 33%)

Frequent species (cover, frequency): *Carissa ovata* (18, 33%), *Acacia shirleyi* (1, 11%), *Acalypha eremorum* (45, 11%), *Alectryon diversifolius* (11%), *Capparis lasiantha* (11%), *Croton insularis* (1, 11%), *Eucalyptus thozetiana* (1, 11%), *Hibiscus sturtii* var. *sturtii* (11%), *Petalostigma pubescens* (1, 11%), *Sclerolaena birchii* (11%)

**Stratum: Ground**

Height avg. = 0.3m, range 0.25-0.5m, 4 sites

PFC avg. = 29.0%, range 8-55%, 4 sites

Dominant species (relative cover, frequency): *Sporobolus scabridus* (100, 25%), *Echinochloa colona*\* (37, 25%), *Paspalidium caespitosum* (24, 75%), *Carissa ovata* (20, 25%), *Cenchrus* indet. (13, 25%)

Frequent species (cover, frequency): GRAMINOIDS: *Ancistrachne uncinulata* (1, 75%), *Cenchrus ciliaris*\* (2, 75%), *Paspalidium caespitosum* (3, 75%), *Cymbopogon refractus* (1, 50%), *Cyperus gracilis* (1, 50%), *Aristida gracilipes* (25%), *Aristida jerichoensis* var. *subspinulifera* (25%), *Aristida personata* (2, 25%), *Astrebula* indet. (25%), *Bothriochloa decipiens* var. *decipiens* (25%), *Cenchrus* indet. (2, 25%), *Chloris gayana*\* (25%), *Chloris virgata*\* (6, 25%), *Dactyloctenium radulans* (25%), *Digitaria* indet. (25%), *Echinochloa colona*\* (20, 25%), *Enneapogon polyphyllus* (1, 25%), *Enteropogon ramosus* (6, 25%), *Eragrostis brownii* (1, 25%), *Eragrostis lacunaria* (1, 25%), *Heteropogon contortus* (25%), *Melinis repens*\* (25%), *Paspalidium jubiflorum* (2, 25%), *Setaria palmifolia*\* (25%), *Sporobolus caroli* (4, 25%), *Sporobolus* indet. (1, 25%), *Sporobolus scabridus* (25%), *Tragus australianus* (25%), *Urochloa mosambicensis*\* (25%)

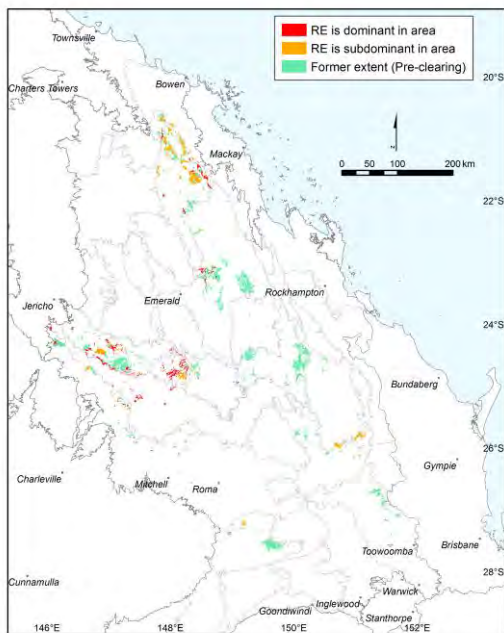
FORBS: *Enchylaena tomentosa* (75%), *Capparis lasiantha* (1, 50%), *Marsdenia viridiflora* (1, 50%), *Opuntia stricta*\* (50%), *Solanum ellipticum* (1, 50%), *Abutilon* indet. (25%), *Abutilon oxycarpum* (25%), *Achyranthes aspera* (25%), *Alternanthera* indet. (25%), *Apocynaceae* indet. (25%), *Atalaya hemiglauca* (1, 25%), *Brunonia australis* (25%), *Capparis* indet. (25%), *Carissa ovata* (3, 25%), *Einadia hastata* (25%), *Euphorbia* indet. (25%), *Ficus rubiginosa* (25%), *Herissantia crispa* (25%), *Hibiscus sturtii* (25%), *Lamiaceae* indet. (25%), *Maireana microphylla* (2, 25%), *Malvastrum americanum* var. *americanum*\* (25%), *Ocimum* indet. (25%), *Oxalis* indet. (1, 25%), *Parsonsia* indet. (25%), *Parthenium hysterophorus*\* (25%), *Pseuderanthemum variabile* (1, 25%), *Sclerolaena muricata* (25%), *Sida fibulifera* (25%), *Sida* sp. (Musselbrook M.B.Thomas+ MRS437) (1, 25%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Eucalyptus melanophloia +/- E. orgadophila woodland on fine-grained sedimentary rocks**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 373,585 142,997 38%

Species\_recorded: Total: 247; woody: 79; ground: 180; Avg. spp./site: 38.6; std dev.: 9.3, 9 site(s)

Basal area: Avg./site: 11.5 m<sup>2</sup>/ha, range: 2.0 - 28 m<sup>2</sup>/ha, std. deviation: 9 m<sup>2</sup>/ha, 11 site(s)

Structural formation: Woodland: 55%; open-woodland: 27%; shrubland: 9%; closed-tussock grassland: 9%, 11 site(s)

Representative\_sites 14137, 14259, 16782, 17028, 17256, 17258, 17579, 19130, 19195, 30423, 41015.

**Stratum: Emergent**

Height avg. = 14.0m, range 10-18m, 2 sites

Crown cover avg. = 2.5%, range 1.0-4.0%, 2 sites

Frequent species (cover, frequency): *Eucalyptus melanophloia* (4, 9%), *Eucalyptus orgadophila* (1, 9%)

**Stratum: Tree 1**

Height avg. = 15.2m, range 10-19m, 10 sites

Crown cover avg. = 20.3%, range 5.0-32.0%, 10 sites

Dominant species (relative cover, frequency): *Eucalyptus orgadophila* (87, 36%), *Eucalyptus melanophloia* (77, 64%)

Frequent species (cover, frequency): *Eucalyptus melanophloia* (18, 64%), *Eucalyptus orgadophila* (10, 36%), *Acacia excelsa* (5, 9%), *Angophora subvelutina* (1, 9%), *Brachychiton populneus* (9%), *Brachychiton populneus subsp. populneus* (1, 9%), *Corymbia citriodora* (9%), *Corymbia erythrophloia* (5, 9%), *Corymbia trachyphloia* (1, 9%), *Eremophila mitchellii* (10, 9%), *Eucalyptus populnea* (3, 9%), *Lysiphyllum carronii* (9%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Tree 2**

Height avg. = 3.0m, 1 site

Crown cover avg. = 5.0%, 1 site

*Frequent species (cover, frequency):* *Alphitonia excelsa* (2, 9%), *Eucalyptus melanophloia* (2, 9%), *Eucalyptus populnea* (1, 9%), *Hakea lorea subsp. lorea* (1, 9%)

**Stratum: Shrub 1**

Height avg. = 2.5m, range 0.75-5m, 9 sites

Crown cover avg. = 18.3%, range 1.0-55.0%, 9 sites

*Dominant species (relative cover, frequency):* *Carissa ovata* (19, 27%), *Archidendropsis basaltica* (13, 27%), *Alectryon diversifolius* (9, 36%), *Ehretia membranifolia* (3, 27%)

*Frequent species (cover, frequency):* *Alectryon diversifolius* (1, 36%), *Archidendropsis basaltica* (1, 27%), *Carissa ovata* (9, 27%), *Ehretia membranifolia* (1, 27%), *Atalaya hemiglaucula* (1, 18%), *Breynia oblongifolia* (2, 18%), *Denhamia cunninghamii* (18%), *Dodonaea filifolia* (18%), *Eremophila mitchellii* (2, 18%), *Erythroxylum australe* (5, 18%), *Eucalyptus melanophloia* (1, 18%), *Geijera parviflora* (1, 18%), *Hovea longipes* (4, 18%), *Petalostigma pubescens* (3, 18%), *Senna indet.* (1, 18%), *Xanthorrhoea glauca subsp. glauca* (13, 18%), *Acacia decora* (1, 9%), *Acacia harpophylla* (9%), *Acacia indet.* (13, 9%), *Acacia melanoxylon* (9%), *Acalypha eremorum* (15, 9%), *Alectryon oleifolius* (1, 9%), *Alectryon oleifolius subsp. elongatus* (1, 9%), *Alphitonia excelsa* (3, 9%), *Alstonia constricta* (9%), *Alyxia ruscifolia* (9%), *Capparis lasiantha* (9%), *Cassia brewsteri* (1, 9%), *Croton phebaloides* (9%), *Denhamia bilocularis* (9%), *Denhamia oleaster* (9%), *Diospyros humilis* (1, 9%), *Eremophila deserti* (9%), *Eremophila maculata* (9%), *Eucalyptus orgadophila* (9%), *Eucalyptus populnea* (9%), *Everistia vacciniifolia* (1, 9%), *Exocarpos latifolius* (9%), *Ficus opposita* (9%), *Geijera salicifolia* (2, 9%), *Gossypium sturtianum* (2, 9%), *Grewia indet.* (9%), *Grewia latifolia* (1, 9%), *Hakea lorea subsp. lorea* (1, 9%), *Harrisia martinii\** (9%), *Hovea indet.* (2, 9%), *Indigofera indet.* (1, 9%), *Jasminum didymum* (1, 9%), *Jasminum simplicifolium subsp. australiense* (2, 9%), *Marsdenia viridiflora* (2, 9%), *Notelaea indet.* (9%), *Notelaea microcarpa* (2, 9%), *Opuntia tomentosa\** (9%), *Owenia acidula* (1, 9%), *Parsonsia straminea* (5, 9%), *Pittosporum spinescens* (3, 9%), *Psydrax forsteri* (9%), *Psydrax indet.* (9%), *Psydrax johnsonii* (1, 9%), *Psydrax odorata* (1, 9%), *Psydrax oleifolia* (9%), *Scaevola spinescens* (1, 9%), *Secamone elliptica* (2, 9%), *Sida fibulifera* (9%), *Sida rhombifolia\** (1, 9%), *Solanum parvifolium* (9%), *Turraea pubescens* (9%)

**Stratum: Shrub 2**

Height avg. = 1.2m, range 0.75-2m, 3 sites

Crown cover avg. = 21.7%, range 10.0-40.0%, 3 sites

*Frequent species (cover, frequency):* *Carissa ovata* (10, 18%), *Archidendropsis basaltica* (1, 9%), *Brachychiton rupestris* (1, 9%), *Cassia brewsteri* (1, 9%), *Dodonaea viscosa subsp. spatulata* (10, 9%), *Eremophila mitchellii* (3, 9%), *Erythroxylum australe* (9%), *Eucalyptus melanophloia* (9%), *Hovea indet.* (9%), *Notelaea microcarpa* (9%), *Terminalia oblongata subsp. oblongata* (1, 9%)

**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Ground**

Height avg. = 0.5m, range 0.2-0.8m, 8 sites

PFC avg. = 47.1%, range 20-95%, 9 sites

Dominant species (relative cover, frequency): *Cenchrus ciliaris*\* (23, 78%), *Aristida calycina* var. *calycina* (17, 22%), *Enneapogon lindleyanus* (14, 56%), *Bothriochloa bladhii* (13, 22%), *Aristida* indet. (10, 22%)

Frequent species (cover, frequency): GRAMINOIDS: *Cenchrus ciliaris*\* (13, 78%), *Enneapogon lindleyanus* (5, 56%), *Heteropogon contortus* (5, 56%), *Cymbopogon refractus* (2, 44%), *Themeda triandra* (1, 44%), *Ancistrachne uncinulata* (1, 22%), *Aristida calycina* var. *calycina* (7, 22%), *Aristida* indet. (2, 22%), *Bothriochloa bladhii* (13, 22%), *Bothriochloa decipiens* var. *decipiens* (22%), *Chloris ventricosa* (22%), *Cyperus* indet. (1, 22%), *Enneapogon virens* (22%), *Eragrostis lacunaria* (22%), *Eulalia aurea* (1, 22%), *Melinis repens*\* (2, 22%), *Panicum effusum* (22%), *Paspalidium* indet. (2, 22%), *Abildgaardia ovata* (11%), *Aristida acuta* (2, 11%), *Aristida caput-medusae* (2, 11%), *Aristida holathera* var. *holathera* (4, 11%), *Aristida latifolia* (1, 11%), *Aristida leptopoda* (11%), *Aristida personata* (11%), *Bothriochloa bladhii* subsp. *bladhii* (2, 11%), *Bothriochloa ewartiana* (35, 11%), *Bulbostylis barbata* (11%), *Chloris divaricata* (1, 11%), *Cyperus bifax* (1, 11%), *Cyperus gilesii* (1, 11%), *Cyperus gracilis* (11%), *Dactyloctenium radulans* (11%), *Dichanthium sericeum* subsp. *sericeum* (4, 11%), *Digitaria* indet. (2, 11%), *Echinochloa colona*\* (11%), *Enneapogon* indet. (2, 11%), *Enneapogon polyphyllus* (5, 11%), *Enteropogon acicularis* (1, 11%), *Eragrostis* indet. (11%), *Eragrostis sororia* (2, 11%), *Eriochloa crebra* (2, 11%), *Eriochloa pseudoacrotricha* (30, 11%), *Heteropogon* indet. (5, 11%), *Imperata cylindrica* (11%), *Microlaena stipoides* (11%), *Panicum decompositum* (8, 11%), *Paspalidium criniforme* (1, 11%), *Paspalidium distans* (11%), *Paspalidium globoideum* (3, 11%), *Paspalidium gracile* (11%), *Sarga leiocladum* (35, 11%), *Scleria brownii* (11%), *Sporobolus caroli* (11%), *Sporobolus creber* (11%), *Themeda avenacea* (11%), *Tragus australianus* (11%), *Urochloa foliosa* (11%), *Urochloa* indet. (11%)

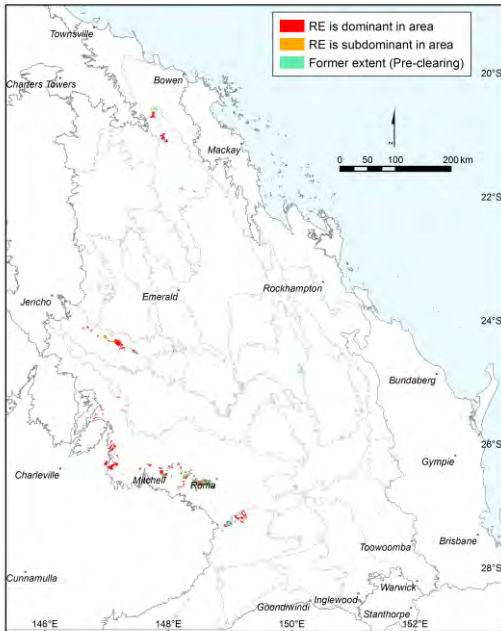
FORBS: *Evolvulus alsinoides* (67%), *Rhynchosia minima* (1, 56%), *Grewia latifolia* (7, 44%), *Melhantha oblongifolia* (1, 44%), *Cyanthillium cinereum* (33%), *Galactia tenuiflora* (2, 33%), *Hibiscus sturtii* (33%), *Jasminum didymum* subsp. *racemosum* (33%), *Jasminum simplicifolium* subsp. *australiense* (1, 33%), *Opuntia tomentosa*\* (33%), *Anisomeles* indet. (22%), *Boerhavia* sp. (St George A.Hill AQ399299) (1, 22%), *Brachychiton bidwillii* (22%), *Brunoniella australis* (22%), *Clematicissus opaca* (22%), *Glycine tabacina* (22%), *Indigofera linifolia* (22%), *Indigofera linnaei* (2, 22%), *Lomandra longifolia* (22%), *Neptunia gracilis* (22%), *Oldenlandia coerulescens* (22%), *Opuntia stricta*\* (22%), *Parsonia lanceolata* (22%), *Parthenium hysterophorus*\* (2, 22%), *Portulaca oleracea*\* (22%), *Salsola australis* (22%), *Sida atherophora* (22%), *Trichodesma zeylanicum* var. *zeylanicum* (22%), *Abutilon fraseri* (11%), *Abutilon oxycarpum* (11%), *Achyranthes aspera* (11%), *Ajuga australis* (11%), *Alstonia constricta* (11%), *Alternanthera denticulata* (11%), *Asteraceae* indet. (11%), *Atalaya salicifolia* (11%), *Boerhavia* indet. (11%), *Breynia oblongifolia* (11%), *Bridelia leichhardtii* (11%), *Calotis cuneata* (6, 11%), *Calotis cuneifolia* (11%), *Calotis lappulacea* (11%), *Camptacra barbata* (11%), *Camptacra gracilis* (11%), *Capparis* indet. (11%), *Carissa ovata* (11%), *Centella asiatica* (11%), *Cheilanthes distans* (11%), *Cheilanthes sieberi* (11%), *Commelina lanceolata* (1, 11%), *Desmodium* indet. (11%), *Desmodium varians* (11%), *Dianella longifolia* (11%), *Dichondra repens* (11%), *Einadia nutans* subsp. *nutans* (11%), *Enchylaena tomentosa* (1, 11%), *Eremophila debilis* (1, 11%), *Ficus fraseri* (11%), *Ficus opposita* (11%), *Geitonoplesium cymosum* (11%), *Glossocardia bidens* (11%), *Glycine tomentella* (11%), *Gomphocarpus physocarpus*\* (11%), *Gomphrena celosioides*\* (11%), *Gomphrena* indet. (11%), *Haloragis aspera* (1, 11%), *Heliotropium tenuifolium* (1, 11%), *Ipomoea* indet. (11%), *Jacquemontia paniculata* (11%), *Jasminum didymum* (11%), *Jasminum didymum* subsp. *lineare* (11%), *Lantana montevidensis*\* (11%), *Lobelia* indet. (11%), *Lomandra multiflora* subsp. *multiflora* (11%), *Lysimachia arvensis*\* (11%), *Maireana microphylla* (11%), *Malvastrum americanum* var. *americanum*\* (1, 11%), *Melia azedarach* (11%), *Neptunia gracilis* forma *gracilis* (2, 11%), *Nyssanthes erecta* (11%), *Ocimum caryophyllum* (10, 11%), *Oxalis corniculata*\* (11%), *Oxalis radicata* (11%), *Pandorea pandorana* (11%), *Peripleura hispidula* (11%), *Phyllanthus* indet. (11%), *Pittosporum spinescens* (11%), *Polymeria marginata* (1, 11%), *Pseuderanthemum variabile* (11%), *Salvia coccinea*\* (11%), *Sclerolaena tetracuspis* (11%), *Senna barclayana* (11%), *Sida corrugata* (11%), *Sida fibulifera* (11%), *Sida hackettiana* (11%), *Sida* indet. (25, 11%), *Sida rhombifolia*\* (1, 11%), *Sida* sp. (Musselbrook M.B.Thomas+ MRS437) (11%), *Sida spinosa*\* (1, 11%), *Solanum* indet. (11%), *Spermacoce* indet. (11%), *Teucrium micranthum* (11%), *Trema tomentosa* (1, 11%), *Vachellia farnesiana*\* (1, 11%), *Wahlenbergia communis* (11%), *Wahlenbergia gracilis* (11%), *Waltheria indica* (11%), *Xanthorrhoea glauca* subsp. *glauca* (2, 11%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

Dichanthium spp., Astrebla spp. grassland on fine-grained sedimentary rocks



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 173,465 100,108 58%

Species\_recorded: Total: 61; woody: 3; ground: 60; Avg. spp./site: 21.5; std dev.: 2.5, 2 site(s)

Basal area: 0

Structural formation: Tussock grassland: 60%; open-herbland: 20%; closed-tussock grassland: 20%, 5 site(s)

Representative\_sites 16793, 17493, 17504, 17506, 19077.

**Stratum: Shrub 1**

Height avg. = 5.0m, 1 site

Crown cover avg. = 1.0%, 1 site

Frequent species (cover, frequency): *Opuntia stricta*\* (20%), *Vachellia farnesiana*\* (20%), *Vachellia nilotica*\* (20%)

**Stratum: Ground**

Height avg. = 1.0m, 1 site

PFC avg. = 75.0%, range 60-90%, 2 sites

Dominant species (relative cover, frequency): *Dichanthium sericeum* (59, 50%), *Polymeria longifolia* (49, 50%), *Aristida leptopoda* (10, 50%), *Neptunia gracilis* (10, 100%), *Astrebla lappacea* (9, 100%)

Frequent species (cover, frequency): GRAMINOIDS: *Astrebla lappacea* (7, 100%), *Cenchrus ciliaris*\* (1, 100%), *Iseilema vaginiflorum* (2, 100%), *Panicum decompositum* (6, 100%), *Aristida latifolia* (1, 50%), *Aristida leptopoda* (9, 50%), *Bothriochloa erianthoides* (3, 50%), *Cyperus bifax* (50%), *Dichanthium annulatum*\* (1, 50%), *Dichanthium sericeum* (53, 50%), *Enneapogon truncatus* (50%), *Eriochloa procera* (50%), *Paspalidium globoideum* (50%)

FORBS: *Camptacra barbata* (1, 100%), *Neptunia gracilis* (5, 100%), *Vachellia farnesiana*\* (1, 100%), *Atriplex muelleri* (50%), *Boerhavia* indet. (2, 50%), *Brachyscome* indet. (50%), *Bulbine bulbosa* (50%), *Commelina ensifolia* (50%), *Crotalaria dissitiflora* subsp. *dissitiflora* (1, 50%), *Euphorbia drummondii* (50%), *Glycine falcata* (50%), *Glycine latifolia* (50%), *Leiocarpa brevicompta* (1, 50%), *Malvaceae* indet. (50%), *Malvastrum americanum* var. *americanum*\* (50%), *Opuntia stricta*\* (50%), *Parthenium hysterophorus*\* (50%), *Phyllanthus maderaspatensis* (50%), *Polymeria longifolia* (25, 50%), *Sclerolaena muricata* (50%), *Sida pleiantha* (50%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Semi-evergreen vine thicket or *Acacia harpophylla* with a semi-evergreen vine thicket understorey on fine-grained sedimentary rocks**



**Pre-clearing area (ha), remnant area (ha) and per cent remaining:** 110            75            68%

**Species recorded:** Total: 94; woody: 70; ground: 35; Avg. spp./site: 39.7; std dev.: 6.6, 3 site(s)

**Basal area:** Avg./site: 22.2 m<sup>2</sup>/ha, range: 19.0 - 27 m<sup>2</sup>/ha, std. deviation: 3 m<sup>2</sup>/ha, 3 site(s)

**Structural formation:** Open-woodland: 25%; open-forest: 25%; closed-forest: 25%; unrecorded: 25%, 4 site(s)

**Representative sites** 14139, 16603, 17152, 24725.

**Stratum: Emergent**

**Height avg. = 16.8m, range 15-18.5m, 3 sites**

**Crown cover avg. = 7.0%, range 5.0-10.0%, 3 sites**

*Dominant species (relative cover, frequency):* *Brachychiton rupestris* (74, 75%), *Acacia harpophylla* (55, 25%), *Brachychiton australis* (22, 25%), *Acacia rhodoxylon* (1, 25%)

*Frequent species (cover, frequency):* *Brachychiton rupestris* (4, 75%), *Acacia harpophylla* (5, 25%), *Acacia rhodoxylon* (25%), *Brachychiton australis* (2, 25%)

**Stratum: Tree 1**

**Height avg. = 12.5m, range 7-25m, 4 sites**

**Crown cover avg. = 47.5%, range 15.0-80.0%, 4 sites**

*Dominant species (relative cover, frequency):* *Acacia harpophylla* (100, 25%), *Backhousia angustifolia* (94, 25%), *Excoecaria dallachyana* (36, 25%), *Geijera parviflora* (25, 50%), *Croton insularis* (16, 50%)

*Frequent species (cover, frequency):* *Croton insularis* (6, 50%), *Geijera parviflora* (9, 50%), *Glossocarya hemiderma* (1, 50%), *Notelaea microcarpa* (1, 50%), *Planchonella cotinifolia* (6, 50%), *Acacia fasciculifera* (1, 25%), *Acacia harpophylla* (15, 25%), *Alectryon diversifolius* (5, 25%), *Backhousia angustifolia* (65, 25%), *Brachychiton australis* (25%), *Capparis arborea* (1, 25%), *Capparis mitchellii* (2, 25%), *Cassia tomentella* (1, 25%), *Dinosperma erythrococtum* (5, 25%), *Diospyros humilis* (1, 25%), *Drypetes deplanchei* (25%), *Elaeodendron australe var. integrifolium* (1, 25%), *Elatostachys xylocarpa* (1, 25%), *Erythroxylum sp. (Splityard Creek L.Pedley 5360)* (5, 25%), *Excoecaria dallachyana* (20, 25%), *Ficus virens var. virens* (2, 25%), *Owenia venosa* (3, 25%), *Secamone elliptica* (25%), *Siphonodon australis* (25%), *Turraea pubescens* (1, 25%)

**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Tree 2**

Height avg. = 12.0m, range 4-20m, 2 sites

Crown cover avg. = 16.0%, range 7.0-25.0%, 2 sites

Dominant species (relative cover, frequency): *Flindersia collina* (56, 25%), *Backhousia angustifolia* (56, 25%), *Acacia harpophylla* (28, 25%), *Excoecaria dallachyana* (26, 25%), *Brachychiton rupestris* (14, 25%)

Frequent species (cover, frequency): *Acacia harpophylla* (2, 25%), *Alectryon connatus* (25%), *Backhousia angustifolia* (15, 25%), *Brachychiton rupestris* (1, 25%), *Bridelia leichhardtii* (25%), *Cissus oblonga* (2, 25%), *Coatesia paniculata* (25%), *Denhamia disperma* (25%), *Diospyros geminata* (25%), *Excoecaria dallachyana* (7, 25%), *Ficus rubiginosa* (25%), *Flindersia collina* (4, 25%), *Geijera salicifolia* (25%), *Glossocarya hemiderma* (2, 25%), *Planchonella cotinifolia* (25%), *Psydrax odorata* (25%), *Tetrastigma nitens* (25%)

**Stratum: Tree 3**

Height avg. = 6.0m, 1 site

Crown cover avg. = 62.0%, 1 site

Dominant species (relative cover, frequency): *Coatesia paniculata* (32, 25%), *Planchonella cotinifolia* var. *pubescens* (18, 25%), *Elaeodendron australe* var. *integrifolium* (8, 25%), *Ehretia membranifolia* (6, 25%), *Flindersia collina* (6, 25%)

Frequent species (cover, frequency): *Acacia fasciculifera* (2, 25%), *Acacia harpophylla* (25%), *Alectryon diversifolius* (3, 25%), *Amyema congener* (25%), *Apophyllum anomalum* (25%), *Atalaya salicifolia* (2, 25%), *Backhousia angustifolia* (2, 25%), *Clematicissus opaca* (25%), *Coatesia paniculata* (20, 25%), *Cymbidium canaliculatum* (25%), *Diospyros humilis* (25%), *Ehretia membranifolia* (4, 25%), *Elaeodendron australe* var. *integrifolium* (5, 25%), *Elatostachys xylocarpa* (25%), *Excoecaria dallachyana* (2, 25%), *Flindersia collina* (4, 25%), *Geijera parviflora* (2, 25%), *Geijera salicifolia* (4, 25%), *Glossocarya hemiderma* (25%), *Owenia venosa* (1, 25%), *Parsonsia eucalyptophylla* (25%), *Parsonsia lanceolata* (25%), *Planchonella cotinifolia* var. *pubescens* (11, 25%), *Psydrax odorata* forma *buxifolia* (25%)

**Stratum: Shrub 1**

Height avg. = 2.0m, range 1.5-2.2m, 4 sites

Crown cover avg. = 24.3%, range 10.0-50.0%, 4 sites

Dominant species (relative cover, frequency): *Gossia bidwillii* (50, 25%), *Glossocarya hemiderma* (35, 25%), *Acalypha eremorum* (34, 75%), *Croton insularis* (29, 25%), *Pittosporum spinescens* (24, 50%)

Frequent species (cover, frequency): *Acalypha eremorum* (12, 75%), *Psydrax odorata* (75%), *Atalaya salicifolia* (50%), *Capparis arborea* (50%), *Carissa ovata* (5, 50%), *Pittosporum spinescens* (3, 50%), *Alectryon diversifolius* (3, 25%), *Alectryon subdentatus* (5, 25%), *Alstonia constricta* (25%), *Brachychiton bidwillii* (25%), *Cissus oblonga* (7, 25%), *Clematicissus opaca* (1, 25%), *Coatesia paniculata* (25%), *Croton insularis* (15, 25%), *Cynanchum viminale* subsp. *brunonianum* (25%), *Ehretia membranifolia* (25%), *Everistia vacciniifolia* (5, 25%), *Excoecaria dallachyana* (25%), *Exocarpos latifolius* (25%), *Geijera parviflora* (25%), *Geitonoplesium cymosum* (2, 25%), *Glossocarya hemiderma* (15, 25%), *Gossia bidwillii* (5, 25%), *Jasminum simplicifolium* subsp. *australiense* (25%), *Murraya paniculata* 'Exotica'\* (25%), *Notelaea microcarpa* (25%), *Opuntia stricta*\* (25%), *Parsonsia eucalyptophylla* (25%), *Psydrax odorata* forma *buxifolia* (1, 25%), *Ricinocarpos ledifolius* (2, 25%), *Secamone elliptica* (25%), *Senna acclinis* (25%), *Solanum seaforthianum*\* (25%), *Tetrastigma nitens* (25%), *Tinospora smilacina* (25%), *Triflorensia ixoroides* (1, 25%), *Trophis scandens* subsp. *scandens* (25%), *Turraea pubescens* (25%)

**Stratum: Shrub 2**

Height avg. = 0.8m, 1 site

Crown cover avg. = 5.0%, 1 site

Dominant species (relative cover, frequency): *Abutilon oxycarpum* (73, 25%), *Carissa ovata* (18, 25%), *Elaeodendron australe* var. *integrifolium* (5, 25%), *Solanum stelligerum* (2, 25%), *Everistia vacciniifolia* (2, 25%)

Frequent species (cover, frequency): *Abutilon oxycarpum* (4, 25%), *Carissa ovata* (1, 25%), *Elaeodendron australe* var. *integrifolium* (25%), *Everistia vacciniifolia* (25%), *Solanum stelligerum* (25%)

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Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Ground**

Height avg. = 0.5m, range 0.2-1m, 3 sites

PFC avg. = 4.3%, range 0-10%, 3 sites

*Dominant species (relative cover, frequency):* *Einadia nutans* (53, 33%), *Carissa ovata* (39, 67%), *Megathyrsus maximus\** (36, 67%), *Geitonoplesium cymosum* (20, 33%), *Cyperus gracilis* (15, 33%)

*Frequent species (cover, frequency):* GRAMINOIDS: *Ancistrachne uncinulata* (67%), *Megathyrsus maximus\** (4, 67%), *Aristida personata* (33%), *Cyperus gracilis* (1, 33%), *Paspalidium criniforme* (1, 33%)

FORBS: *Carissa ovata* (3, 67%), *Pseuderanthemum variabile* (67%), *Abutilon oxycarpum* (33%), *Achyranthes aspera* (33%), *Alstonia constricta* (33%), *Capparis arborea* (33%), *Clematicissus opaca* (33%), *Commelina diffusa* (33%), *Deeringia amaranthoides* (33%), *Dianella longifolia* (33%), *Einadia nutans* (2, 33%), *Enchylaena tomentosa* (33%), *Geitonoplesium cymosum* (2, 33%), *Hypoestes floribunda* (33%), *Jasminum simplicifolium subsp. australiense* (33%), *Mesosphaerum suaveolens\** (33%), *Murraya paniculata 'Exotica'\** (33%), *Pandorea pandorana* (33%), *Plectranthus graveolens* (33%), *Psydrax odorata forma buxifolia* (33%), *Secamone elliptica* (33%), *Solanum semiarmatum* (33%), *Solanum stelligerum* (33%)

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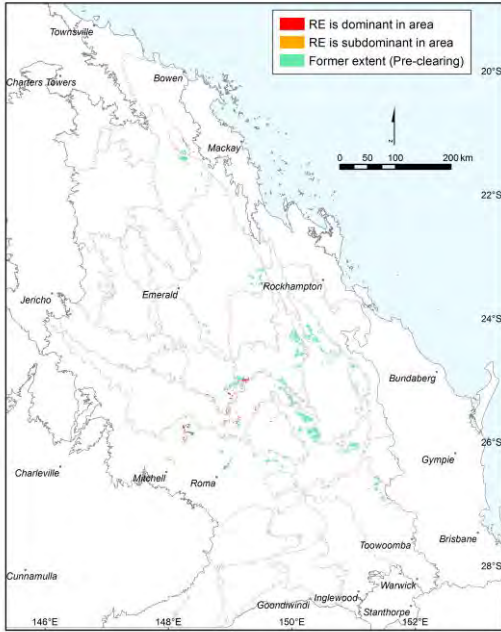
**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus



Semi-evergreen vine thicket that occur on crests and slopes of low hills and mountains



Bill McDonald

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 182,619 33,158 18%

Species\_recorded: Total: 91; woody: 67; ground: 30; Avg. spp./site: 48.0; std dev.: 0.0, 1 site(s)

Basal area: Avg./site: 18.8 m<sup>2</sup>/ha, range: 8.5 - 29 m<sup>2</sup>/ha, std. deviation: 10 m<sup>2</sup>/ha, 2 site(s)

Structural formation: Low open-woodland: 20%; low open-forest: 20%; unrecorded: 60%, 5 site(s)

Representative\_sites 16548, 16605, 17214, 17494, 17495.

**Stratum: Emergent**

Height avg. = 16.5m, range 10-24m, 4 sites  
 Crown cover avg. = 5.3%, range 2.0-10.0%, 4 sites

Dominant species (relative cover, frequency): *Brachychiton rupestris* (75, 40%)

Frequent species (cover, frequency): *Brachychiton rupestris* (4, 40%), *Acacia harpophylla* (6, 20%), *Backhousia angustifolia* (20%), *Brachychiton australis* (5, 20%), *Ehretia membranifolia* (20%), *Flindersia collina* (20%)

**Stratum: Tree 1**

Height avg. = 8.7m, range 7-10m, 3 sites  
 Crown cover avg. = 47.3%, range 20.0-67.0%, 3 sites

Dominant species (relative cover, frequency): *Geijera parviflora* (48, 60%), *Acacia fasciculifera* (13, 60%), *Ehretia membranifolia* (5, 40%), *Alectryon diversifolius* (4, 40%), *Notelaea microcarpa* (3, 60%)

Frequent species (cover, frequency): *Acacia fasciculifera* (6, 60%), *Geijera parviflora* (22, 60%), *Notelaea microcarpa* (2, 60%), *Alectryon diversifolius* (3, 40%), *Ehretia membranifolia* (3, 40%), *Amyema quandang* (20%), *Atalaya salicifolia* (25, 20%), *Capparis arborea* (20%), *Casuarina cristata* (2, 20%), *Clematicissus opaca* (1, 20%), *Coatesia paniculata* (1, 20%), *Cupaniopsis parvifolia* (20%), *Denhamia disperma* (1, 20%), *Dinosperma erythroccum* (1, 20%), *Elaeodendron australe* var. *integrifolium* (20%), *Elattostachys xylocarpa* (3, 20%), *Flindersia collina* (20%), *Glossocarya hemiderma* (1, 20%), *Gossia bidwillii* (20%), *Lysiphylum hookeri* (5, 20%), *Opuntia tomentosa*\* (1, 20%), *Planchonella cotinifolia* var. *pubescens* (20%), *Turraea pubescens* (2, 20%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Tree 2**

Height avg. = 5.0m, range 4-6m, 2 sites

Crown cover avg. = 15.0%, range 5.0-25.0%, 2 sites

Dominant species (relative cover, frequency): *Planchonella cotinifolia* var. *pubescens* (26, 40%)

Frequent species (cover, frequency): *Planchonella cotinifolia* var. *pubescens* (5, 40%), *Acacia fasciculifera* (20%), *Alectryon diversifolius* (20%), *Archidendropsis thozetiana* (5, 20%), *Backhousia angustifolia* (20%), *Clematicissus opaca* (20%), *Croton phebalioides* (5, 20%), *Elaeodendron australe* var. *integrifolium* (20%), *Elattostachys xylocarpa* (20%), *Erythroxylum* sp. (*Splityard Creek L.Pedley 5360*) (20%), *Everistia vacciniifolia* (20%), *Geijera parviflora* (3, 20%), *Notelaea microcarpa* (20%), *Opuntia tomentosa*\* (20%), *Pleioluma queenslandica* (5, 20%), *Psyrax odorata* (2, 20%), *Secamone elliptica* (20%), *Turraea pubescens* (20%)

**Stratum: Tree 3**

Height avg. = 4.0m, 1 site

Crown cover avg. = 20.0%, 1 site

**Stratum: Shrub 1**

Height avg. = 2.9m, range 1.5-6m, 5 sites

Crown cover avg. = 34.4%, range 4.0-70.0%, 5 sites

Dominant species (relative cover, frequency): *Acalypha eremorum* (45, 40%), *Petalostigma pubescens* (11, 40%), *Diospyros humilis* (11, 60%), *Solanum seaforthianum*\* (11, 40%), *Acacia fasciculifera* (9, 40%)

Frequent species (cover, frequency): *Atalaya salicifolia* (2, 80%), *Clematicissus opaca* (2, 80%), *Erythroxylum* sp. (*Splityard Creek L.Pedley 5360*) (1, 80%), *Notelaea microcarpa* (2, 80%), *Turraea pubescens* (2, 80%), *Diospyros humilis* (4, 60%), *Pittosporum spinescens* (4, 60%), *Acacia fasciculifera* (1, 40%), *Acalypha eremorum* (11, 40%), *Alectryon diversifolius* (1, 40%), *Alstonia constricta* (1, 40%), *Capparis sarmentosa* (40%), *Ehretia membranifolia* (40%), *Everistia vacciniifolia* (40%), *Exocarpos latifolius* (3, 40%), *Passiflora aurantia* var. *aurantia* (5, 40%), *Petalostigma pubescens* (6, 40%), *Planchonella cotinifolia* var. *pubescens* (1, 40%), *Secamone elliptica* (1, 40%), *Solanum seaforthianum*\* (7, 40%), *Abutilon micropetalum* (5, 20%), *Apophyllum anomalum* (20%), *Bursaria spinosa* subsp. *spinosa* (20%), *Capparis arborea* (5, 20%), *Carissa ovata* (5, 20%), *Cassia tomentella* (20%), *Coatesia paniculata* (20%), *Croton verreauxii* (20%), *Diospyros* indet. (2, 20%), *Elaeodendron australe* var. *integrifolium* (20%), *Eremophila mitchellii* (20%), *Flueggea leucopyrus* (5, 20%), *Geijera parviflora* (1, 20%), *Glossocarya hemiderma* (20%), *Gossia bidwillii* (1, 20%), *Hovea longipes* (5, 20%), *Jasminum didymum* (1, 20%), *Melia azedarach* (2, 20%), *Opuntia* indet. (20%), *Opuntia tomentosa*\* (20%), *Owenia venosa* (20%), *Parsonsia eucalyptophylla* (20%), *Parsonsia leichhardtii* (20%), *Psyrax odorata* (10, 20%), *Santalum lanceolatum* (3, 20%), *Solanum* indet. (20%), *Strychnos pilosperma* (5, 20%), *Tarenna* indet. (20%), *Tinospora smilacina* (2, 20%)

**Stratum: Shrub 2**

Height avg. = 0.8m, 1 site

Crown cover avg. = 4.0%, 1 site

Frequent species (cover, frequency): *Abutilon oxycarpum* (20%), *Acalypha eremorum* (20%), *Carissa ovata* (4, 20%)

**Stratum: Ground**

Height avg. = 0.3m, 1 site

PFC avg. = 5.0%, 1 site

Dominant species (relative cover, frequency): *Ancistrachne uncinulata* (78, 100%), *Paspalidium caespitosum* (3, 100%), *Aristida personata* (3, 100%), *Solanum tetrahectum* (2, 100%), *Rivina humilis*\* (2, 100%)

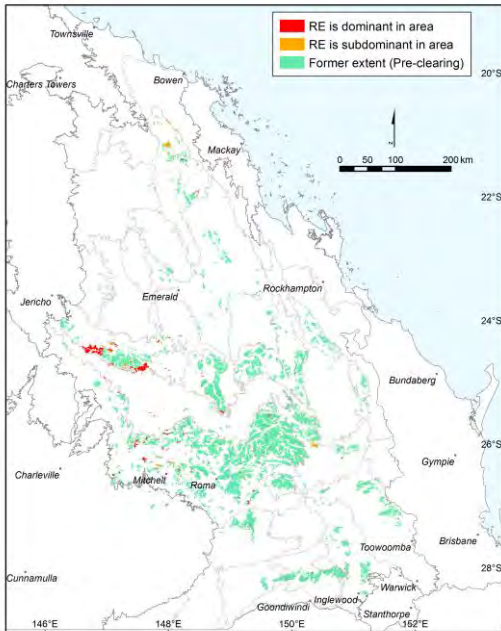
Frequent species (cover, frequency): GRAMINOIDS: *Ancistrachne uncinulata* (5, 100%), *Aristida gracilipes* (100%), *Aristida personata* (100%), *Enteropogon unispiceus* (100%), *Eragrostis megalosperma* (100%), *Paspalidium caespitosum* (100%)  
FORBS: *Brunoniella australis* (100%), *Bursaria spinosa* subsp. *spinosa* (100%), *Marsdenia* indet. (100%), *Olearia canescens* (100%), *Rivina humilis*\* (100%), *Solanum tetrahectum* (100%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

Acacia harpophylla and/or Casuarina cristata open forest on fine-grained sedimentary rocks



Don Butler

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 1,922,397 140,205 7%

Species\_recorded: Total: 240; woody: 75; ground: 197; Avg. spp./site: 31.1; std dev.: 12.0, 14 site(s)

Basal area: Avg./site: 19.7 m<sup>2</sup>/ha, range: 7.5 - 39 m<sup>2</sup>/ha, std. deviation: 8 m<sup>2</sup>/ha, 20 site(s)

Structural formation: Open-forest: 48%; woodland: 43%; open-woodland: 5%; low open-forest: 5%, 21 site(s)

Representative\_sites 16232, 16235, 16560, 16619, 16664, 16671, 16741, 16927, 17138, 17139, 17148, 17185, 17277, 17298, 17471, 17478, 24567, 24673, 24726, 28742, 32124.

**Stratum: Emergent**

Height avg. = 16.0m, range 13-18m, 4 sites

Crown cover avg. = 8.3%, range 3.0-20.0%, 4 sites

Frequent species (cover, frequency): *Casuarina cristata* (13, 10%), *Acacia harpophylla* (3, 5%), *Eucalyptus cambageana* (5%), *Eucalyptus decorticans* (5, 5%)

**Stratum: Tree 1**

Height avg. = 17.2m, range 8-27.5m, 21 sites

Crown cover avg. = 45.4%, range 15.0-72.0%, 21 sites

Dominant species (relative cover, frequency): *Acacia harpophylla* (73, 95%), *Casuarina cristata* (54, 52%)

Frequent species (cover, frequency): *Acacia harpophylla* (33, 95%), *Casuarina cristata* (26, 52%), *Lysiphyllum carronii* (5, 14%), *Brachychiton rupestris* (1, 10%), *Alectryon diversifolius* (5%), *Eucalyptus woollsiana* (1, 5%), *Flindersia australis* (5%), *Lysiana subfalcata* (5%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Tree 2**

Height avg. = 9.2m, range 3-18m, 19 sites

Crown cover avg. = 13.6%, range 1.0-45.0%, 19 sites

Dominant species (relative cover, frequency): *Geijera parviflora* (65, 29%), *Casuarina cristata* (61, 33%), *Eremophila mitchellii* (54, 33%), *Acacia harpophylla* (48, 48%)

Frequent species (cover, frequency): *Acacia harpophylla* (6, 48%), *Casuarina cristata* (6, 33%), *Eremophila mitchellii* (3, 33%), *Geijera parviflora* (14, 29%), *Elaeodendron australe* var. *integrifolium* (2, 10%), *Notelaea microcarpa* (10%), *Alectryon diversifolius* (2, 5%), *Alectryon oleifolius* subsp. *elongatus* (1, 5%), *Alstonia constricta* (5, 5%), *Atalaya hemiglauca* (5%), *Brachychiton rupestris* (5%), *Croton insularis* (20, 5%), *Cymbidium canaliculatum* (5%), *Lysiphyllum hookeri* (5, 5%), *Opuntia tomentosa*\* (5, 5%), *Owenia acidula* (5, 5%), *Psydrax odorata* forma *buxifolia* (5%)

**Stratum: Tree 3**

Height avg. = 5.8m, range 4-9m, 8 sites

Crown cover avg. = 15.6%, range 0.0-30.0%, 8 sites

Frequent species (cover, frequency): *Acacia harpophylla* (8, 14%), *Eremophila mitchellii* (9, 14%), *Geijera parviflora* (17, 14%), *Atalaya hemiglauca* (10%), *Casuarina cristata* (2, 10%), *Clematicissus opaca* (2, 5%), *Erythroxylum* sp. (*Splityard* Creek *L.Pedley* 5360) (5%), *Owenia venosa* (3, 5%), *Parsonsia eucalyptophylla* (5%), *Psydrax johnsonii* (1, 5%), *Terminalia oblongata* subsp. *oblongata* (13, 5%)

**Stratum: Shrub 1**

Height avg. = 2.8m, range 1.2-6m, 18 sites

Crown cover avg. = 13.4%, range 3.0-38.0%, 18 sites

Dominant species (relative cover, frequency): *Geijera parviflora* (46, 67%), *Eremophila mitchellii* (22, 33%), *Eremophila deserti* (18, 24%), *Acacia harpophylla* (17, 38%), *Alectryon diversifolius* (12, 33%)

Frequent species (cover, frequency): *Geijera parviflora* (6, 67%), *Acacia harpophylla* (1, 38%), *Alectryon diversifolius* (2, 33%), *Eremophila mitchellii* (2, 33%), *Casuarina cristata* (1, 24%), *Eremophila deserti* (3, 24%), *Ehretia membranifolia* (19%), *Apophyllum anomalum* (14%), *Croton insularis* (10, 14%), *Brachychiton rupestris* (1, 10%), *Capparis lasiantha* (1, 10%), *Clematicissus opaca* (1, 10%), *Diospyros humilis* (10%), *Elaeodendron australe* var. *integrifolium* (2, 10%), *Eustrephus latifolius* (10%), *Opuntia tomentosa*\* (1, 10%), *Parsonsia eucalyptophylla* (10%), *Psydrax odorata* (10%), *Terminalia oblongata* subsp. *oblongata* (9, 10%), *Alectryon oleifolius* subsp. *elongatus* (1, 5%), *Alstonia constricta* (5%), *Amyema congener* subsp. *congener* (5%), *Archidendropsis basaltica* (5%), *Atalaya hemiglauca* (5%), *Atalaya salicifolia* (1, 5%), *Capparis indet.* (2, 5%), *Capparis mitchellii* (1, 5%), *Carissa ovata* (5, 5%), *Citrus glauca* (5%), *Denhamia oleaster* (5%), *Denhamia silvestris* (5%), *Elaeodendron australe* var. *australe* (5%), *Elatostachys xylocarpa* (1, 5%), *Eremophila indet.* (5%), *Exocarpos latifolius* (2, 5%), *Glycine clandestina* var. *sericea* (5%), *Hovea linearis* (20, 5%), *Jasminum didymum* subsp. *racemosum* (2, 5%), *Jasminum simplicifolium* subsp. *australiense* (2, 5%), *Myoporum acuminatum* (5%), *Notelaea microcarpa* (3, 5%), *Opuntia stricta*\* (5%), *Pimelea neoanglica* (5%), *Pittosporum angustifolium* (13, 5%), *Pittosporum spinescens* (2, 5%), *Planchonella cotinifolia* (5%), *Psydrax johnsonii* (1, 5%), *Ricinocarpos ledifolius* (5%), *Santalum lanceolatum* (5%), *Senna artemisioides* subsp. *zygophylla* (5%), *Triflorensia ixoroides* (5%)

**Stratum: Shrub 2**

Height avg. = 0.8m, range 0.5-1.2m, 6 sites

Crown cover avg. = 8.5%, range 0.0-18.0%, 6 sites

Frequent species (cover, frequency): *Ancistrachne uncinulata* (1, 5%), *Austrostipa ramosissima* (1, 5%), *Carissa ovata* (9, 14%), *Geijera parviflora* (2, 14%), *Acacia harpophylla* (3, 10%), *Eremophila deserti* (3, 10%), *Abutilon fraseri* (5%), *Alectryon oleifolius* (5%), *Atalaya salicifolia* (5%), *Capparis lasiantha* (5%), *Capparis loranthifolia* (5%), *Citrus glauca* (5%), *Excoecaria dallachyana* (1, 5%), *Hovea tholiformis* (5%), *Maireana microphylla* (5%), *Opuntia tomentosa*\* (5%), *Phyllanthus gunnii* (5%), *Psydrax odorata* (5%), *Rhagodia spinescens* (9, 5%), *Solanum parvifolium* (1, 5%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Ground**

Height avg. = 0.3m, range 0.01-0.7m, 13 sites

PFC avg. = 22.3%, range 1-70%, 14 sites

*Dominant species (relative cover, frequency):* *Enteropogon acicularis* (25, 36%), *Calyptochloa gracillima* subsp. *gracillima* (25, 21%), *Enteropogon unispiceus* (19, 21%), *Einadia nutans* (19, 50%), *Paspalidium caespitosum* (13, 50%)

*Frequent species (cover, frequency): GRAMINOIDS:* *Ancistrachne uncinulata* (1, 64%), *Paspalidium caespitosum* (4, 50%), *Cyperus gracilis* (43%), *Enteropogon acicularis* (10, 36%), *Paspalidium gracile* (1, 36%), *Chloris divaricata* (8, 29%), *Aristida personata* (1, 21%), *Calyptochloa gracillima* subsp. *gracillima* (5, 21%), *Enteropogon unispiceus* (4, 21%), *Eragrostis lacunaria* (1, 21%), *Paspalidium distans* (1, 21%), *Sporobolus caroli* (7, 21%), *Austrostipa verticillata* (14%), *Cenchrus ciliaris*\* (1, 14%), *Cymbopogon refractus* (14%), *Dinebra decipiens* (14%), *Dinebra decipiens* var. *decipiens* (14%), *Enneapogon gracilis* (1, 14%), *Aristida caput-medusae* (7%), *Aristida gracilipes* (7%), *Aristida vagans* (7%), *Chloris indet.* (7%), *Chloris truncata* (10, 7%), *Cyperus indet.* (7%), *Dichanthium sericeum* (7%), *Digitaria minima* (7%), *Dinebra decipiens* var. *asthenes* (7%), *Echinochloa colona*\* (7%), *Enneapogon pallidus* (7%), *Enteropogon paucispiceus* (7%), *Eragrostis leptocarpa* (7%), *Eragrostis megalosperma* (7%), *Gahnia aspera* (7%), *Hyparrhenia rufa*\* (7%), *Juncus indet.* (7%), *Megathyrsus maximus*\* (1, 7%), *Panicum buncei* (1, 7%), *Paspalidium constrictum* (7%), *Paspalidium criniforme* (7%), *Paspalidium indet.* (7%), *Rytidosperma tenuius* (7%), *Setaria dielsii* (7%), *Sporobolus contiguus* (7%), *Sporobolus elongatus* (7%), *Tragus australianus* (7%), *Urochloa foliosa* (7%), *Urochloa indet.* (7%)

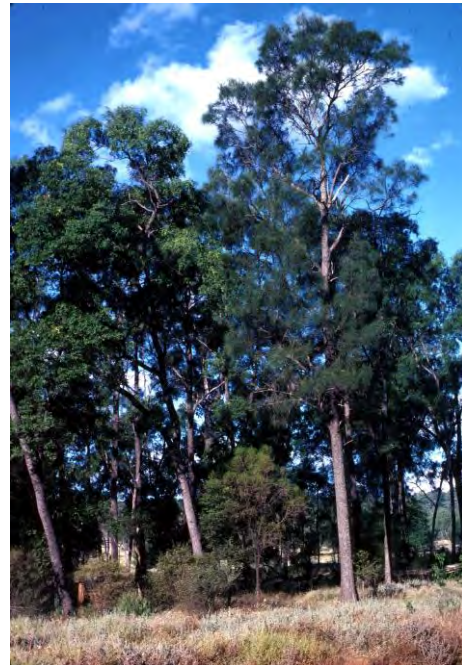
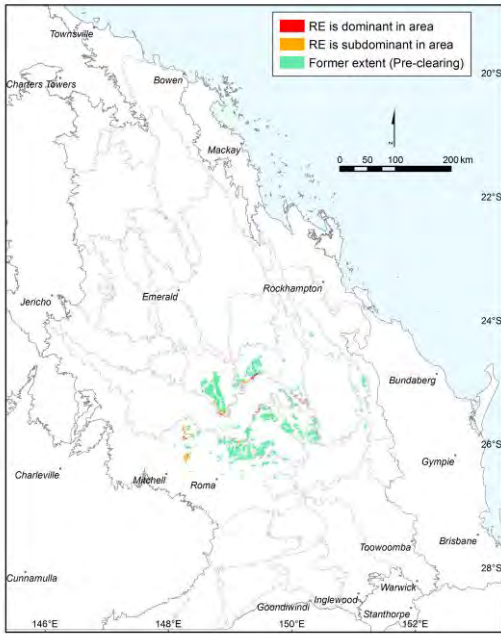
*FORBS:* *Abutilon oxycarpum* (64%), *Carissa ovata* (1, 50%), *Einadia nutans* (4, 50%), *Enchylaena tomentosa* (50%), *Brunoniella australis* (43%), *Clematicissus opaca* (1, 36%), *Commelina diffusa* (36%), *Nyssanthes erecta* (36%), *Opuntia stricta*\* (36%), *Opuntia tomentosa*\* (36%), *Solanum parvifolium* (1, 36%), *Alectryon diversifolius* (1, 29%), *Maireana microphylla* (29%), *Malvastrum americanum* var. *americanum*\* (29%), *Solanum semiarmatum* (29%), *Capparis lasiantha* (1, 21%), *Dianella brevipedunculata* (21%), *Oxalis perennans* (21%), *Parsonsia eucalyptophylla* (21%), *Solanum stelligerum* (21%), *Vittadinia sulcata* (21%), *Abutilon oxycarpum* var. *oxycarpum* (14%), *Achyranthes aspera* (14%), *Apophyllum anomalum* (14%), *Boerhavia indet.* (14%), *Cheilanthes distans* (14%), *Cyanthillium cinereum* (14%), *Desmodium brachypodum* (14%), *Dipteracanthus australasicus* subsp. *corynothecus* (14%), *Einadia nutans* subsp. *linifolia* (14%), *Einadia nutans* subsp. *nutans* (3, 14%), *Eremophila debilis* (14%), *Hypoestes floribunda* (8, 14%), *Maireana microcarpa* (14%), *Marsdenia australis* (14%), *Opuntia aurantiaca*\* (14%), *Sclerolaena birchii* (14%), *Sclerolaena tetracuspis* (1, 14%), *Sida fibulifera* (14%), *Solanum ellipticum* (14%), *Solanum indet.* (14%), *Tetragonia tetragonoides* (14%), *Acacia harpophylla* (7%), *Alphitonia excelsa* (7%), *Amyema congener* subsp. *rotundifolia* (7%), *Brachychiton rupestris* (7%), *Brachyscome dalbyensis* (7%), *Brassica indet.* (7%), *Brunfelsia australis*\* (7%), *Brunonia australis* (2, 7%), *Bursaria spinosa* subsp. *spinosa* (7%), *Calotis cuneata* (7%), *Calotis lappulacea* (7%), *Capparis loranthifolia* (7%), *Casuarina cristata* (6, 7%), *Cheilanthes sieberi* subsp. *sieberi* (7%), *Cheilanthes tenuifolia* (1, 7%), *Cirsium vulgare*\* (7%), *Cissus hypoglauca* (7%), *Citrus glauca* (1, 7%), *Commelina lanceolata* (7%), *Cyclosporum leptophyllum*\* (7%), *Deeringia amaranthoides* (7%), *Denhamia cunninghamii* (7%), *Denhamia oleaster* (7%), *Denhamia silvestris* (7%), *Dysphania carinata* (7%), *Einadia hastata* (7%), *Elatostachys xylocarpa* (7%), *Eremophila deserti* (7%), *Eremophila glabra* subsp. *glabra* (7%), *Erigeron bonariensis*\* (7%), *Eucalyptus moluccana* (7%), *Euphorbia dallachyana* (7%), *Euphorbia drummondii* (7%), *Geijera parviflora* (1, 7%), *Glandularia aristigera*\* (7%), *Hibiscus sturtii* (7%), *Jasminum didymum* (7%), *Jasminum didymum* subsp. *racemosum* (1, 7%), *Jasminum simplicifolium* subsp. *australiense* (7%), *Lomandra confertifolia* subsp. *pallida* (7%), *Maireana decalvans* (7%), *Malvastrum americanum* (7%), *Marsdenia viridiflora* (7%), *Melhania oblongifolia* (7%), *Nicotiana megalosiphon* (7%), *Parsonsia leichhardtii* (7%), *Peripleura indet.* (7%), *Pimelea neoanglica* (7%), *Pittosporum angustifolium* (7%), *Pittosporum spinescens* (7%), *Plectranthus graveolens* (7%), *Plectranthus parviflorus* (7%), *Pseuderanthemum variabile* (7%), *Psydrax odorata* (7%), *Rhagodia spinescens* (3, 7%), *Rivina humilis*\* (7%), *Salsola australis* (7%), *Secamone elliptica* (7%), *Senecio hispidulus* (7%), *Senna coronilloides* (7%), *Sida hackettiana* (7%), *Sida indet.* (7%), *Sida platycalyx* (7%), *Sida pleiantha* (7%), *Sigesbeckia orientalis* (7%), *Solanum nemophilum* (7%), *Solanum opacum* (7%), *Sonchus oleraceus*\* (7%), *Verbena litoralis*\* (7%), *Xerochrysum bracteatum* (7%), *Zygophyllum apiculatum* (7%)

**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Acacia harpophylla +/- semi-evergreen vine thicket that occur on undulating plains and rises**



**Pre-clearing area (ha), remnant area (ha) and per cent remaining:** 349,319 23,486 7%

**Species\_recorded:** Total: 95; woody: 61; ground: 38; Avg. spp./site: 35.5; std dev.: 3.5, 2 site(s)

**Basal area:** Avg./site: 20.0 m<sup>2</sup>/ha, range: 6.0 - 32 m<sup>2</sup>/ha, std. deviation: 10 m<sup>2</sup>/ha, 4 site(s)

**Structural formation:** Woodland: 50%; open-woodland: 50%, 4 site(s)

**Representative\_sites** 17026, 17136, 17137, 17344.

**Stratum: Emergent**

**Height avg. = 17.7m, range 15-20m, 3 sites**

**Crown cover avg. = 1.7%, range 0.0-5.0%, 3 sites**

*Dominant species (relative cover, frequency): Eucalyptus crebra (100, 25%), Brachychiton rupestris (100, 25%), Brachychiton australis (100, 25%)*

*Frequent species (cover, frequency): Brachychiton australis (1, 25%), Brachychiton rupestris (5, 25%), Eucalyptus crebra (25%)*

**Stratum: Tree 1**

**Height avg. = 14.0m, range 12-15m, 4 sites**

**Crown cover avg. = 17.5%, range 10.0-25.0%, 4 sites**

*Dominant species (relative cover, frequency): Acacia harpophylla (74, 100%), Acacia salicina (31, 25%), Casuarina cristata (22, 50%), Ventilago viminalis (13, 25%), Brachychiton rupestris (10, 25%)*

*Frequent species (cover, frequency): Acacia harpophylla (13, 100%), Casuarina cristata (6, 50%), Acacia excelsa (1, 25%), Acacia salicina (5, 25%), Brachychiton rupestris (2, 25%), Ventilago viminalis (2, 25%)*

**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Tree 2**

Height avg. = 8.3m, range 6-11m, 4 sites

Crown cover avg. = 18.8%, range 10.0-35.0%, 4 sites

*Dominant species (relative cover, frequency):* *Brachychiton rupestris* (50, 25%), *Brachychiton australis* (49, 25%), *Eremophila mitchellii* (42, 50%), *Geijera parviflora* (29, 100%), *Lysiphyllum hookeri* (17, 25%)

*Frequent species (cover, frequency):* *Geijera parviflora* (8, 100%), *Eremophila mitchellii* (13, 50%), *Notelaea microcarpa* (3, 50%), *Psyrax johnsonii* (50%), *Psyrax odorata* (50%), *Alectryon diversifolius* (25%), *Apophyllum anomalum* (2, 25%), *Brachychiton australis* (20, 25%), *Brachychiton rupestris* (5, 25%), *Bursaria incana* (25%), *Capparis loranthifolia* (25%), *Capparis shanesiana* (2, 25%), *Cassia brewsteri* (1, 25%), *Citrus glauca* (2, 25%), *Denhamia oleaster* (5, 25%), *Diospyros humilis* (25%), *Ehretia membranifolia* (25%), *Geijera salicifolia* (2, 25%), *Lysiphyllum carronii* (1, 25%), *Lysiphyllum hookeri* (2, 25%), *Owenia acidula* (5, 25%)

**Stratum: Tree 3**

Height avg. = 5.5m, range 5-6m, 2 sites

Crown cover avg. = 30.0%, range 25.0-35.0%, 2 sites

*Dominant species (relative cover, frequency):* *Bursaria incana* (39, 25%), *Erythroxylum sp. (Splityard Creek L.Pedley 5360)* (39, 25%), *Eremophila mitchellii* (28, 25%), *Planchonella cotinifolia* (28, 25%), *Pittosporum spinescens* (20, 25%)

*Frequent species (cover, frequency):* *Alectryon diversifolius* (3, 50%), *Alectryon connatus* (25%), *Alstonia constricta* (25%), *Apophyllum anomalum* (5, 25%), *Bursaria incana* (10, 25%), *Capparis lasiantha* (25%), *Clematicissus opaca* (25%), *Croton insularis* (1, 25%), *Diospyros humilis* (2, 25%), *Ehretia membranifolia* (25%), *Eremophila mitchellii* (10, 25%), *Erythroxylum sp. (Splityard Creek L.Pedley 5360)* (10, 25%), *Hovea longipes* (25%), *Jasminum simplicifolium subsp. australiense* (25%), *Notelaea microcarpa* (25%), *Parsonia lanceolata* (25%), *Pittosporum spinescens* (5, 25%), *Planchonella cotinifolia* (10, 25%), *Psyrax odorata* (2, 25%)

**Stratum: Shrub 1**

Height avg. = 2.3m, range 2-3m, 4 sites

Crown cover avg. = 18.8%, range 10.0-30.0%, 4 sites

*Dominant species (relative cover, frequency):* *Bursaria spinosa subsp. spinosa* (45, 25%), *Pittosporum spinescens* (26, 75%), *Acalypha eremorum* (22, 25%), *Erythroxylum australe* (21, 25%), *Geijera salicifolia* (21, 25%)

*Frequent species (cover, frequency):* *Pittosporum spinescens* (5, 75%), *Alectryon diversifolius* (1, 50%), *Alectryon oleifolius subsp. elongatus* (2, 50%), *Croton insularis* (3, 50%), *Croton phebaloides* (50%), *Flueggea leucopyrus* (4, 50%), *Acalypha eremorum* (5, 25%), *Apophyllum anomalum* (25%), *Breynia oblongifolia* (1, 25%), *Bursaria incana* (2, 25%), *Bursaria spinosa subsp. spinosa* (10, 25%), *Capparis indet.* (25%), *Capparis lanceolaris* (2, 25%), *Carissa ovata* (25%), *Clematicissus opaca* (1, 25%), *Denhamia cunninghamii* (25%), *Diospyros humilis* (1, 25%), *Eremophila mitchellii* (2, 25%), *Erythroxylum australe* (3, 25%), *Erythroxylum sp. (Splityard Creek L.Pedley 5360)* (2, 25%), *Geijera salicifolia* (3, 25%), *Indigofera pratensis* (25%), *Jasminum simplicifolium subsp. australiense* (25%), *Marsdenia viridiflora* (25%), *Myoporum acuminatum* (1, 25%), *Olearia canescens* (25%), *Opuntia tomentosa\** (1, 25%), *Parsonia lanceolata* (25%), *Santalum lanceolatum* (5, 25%), *Solanum semiarmatum* (25%), *Turraea pubescens* (5, 25%)

**Stratum: Shrub 2**

Height avg. = 1.0m, 1 site

Crown cover avg. = 10.0%, 1 site

*Dominant species (relative cover, frequency):* *Carissa ovata* (43, 25%), *Enchylaena tomentosa* (29, 25%), *Grewia latifolia* (14, 25%), *Maireana microphylla* (7, 25%), *Gossypium sturtianum* (7, 25%)

*Frequent species (cover, frequency):* *Carissa ovata* (3, 25%), *Enchylaena tomentosa* (2, 25%), *Gossypium sturtianum* (1, 25%), *Grewia latifolia* (1, 25%), *Maireana microphylla* (1, 25%)

**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Ground****Height avg. = 0.6m, range 0.5-0.75m, 2 sites****PFC avg. = 52.5%, range 35-70%, 2 sites**

*Dominant species (relative cover, frequency):* *Cenchrus ciliaris*\* (68, 50%), *Aristida caput-medusae* (45, 50%), *Carissa ovata* (30, 50%), *Ancistrachne uncinulata* (15, 50%), *Dichanthium sericeum* (7, 50%)

*Frequent species (cover, frequency):* GRAMINOIDS: *Ancistrachne uncinulata* (5, 50%), *Aristida caput-medusae* (15, 50%), *Aristida personata* (2, 50%), *Cenchrus ciliaris*\* (50, 50%), *Cymbopogon refractus* (3, 50%), *Dichanthium sericeum* (5, 50%), *Eragrostis lacunaria* (2, 50%), *Eragrostis leptocarpa* (50%), *Heteropogon contortus* (5, 50%), *Melinis repens*\* (5, 50%)

FORBS: *Abutilon otocarpum* (50%), *Abutilon oxycarpum* var. *oxycarpum* (50%), *Carissa ovata* (10, 50%), *Cheilanthes tenuifolia* (1, 50%), *Clematicissus opaca* (50%), *Lomandra multiflora* subsp. *multiflora* (50%), *Parthenium hysterophorus*\* (1, 50%), *Pleigynium timorense* (50%), *Secamone elliptica* (2, 50%), *Solanum parvifolium* (50%), *Spermacoce brachystema* (50%)

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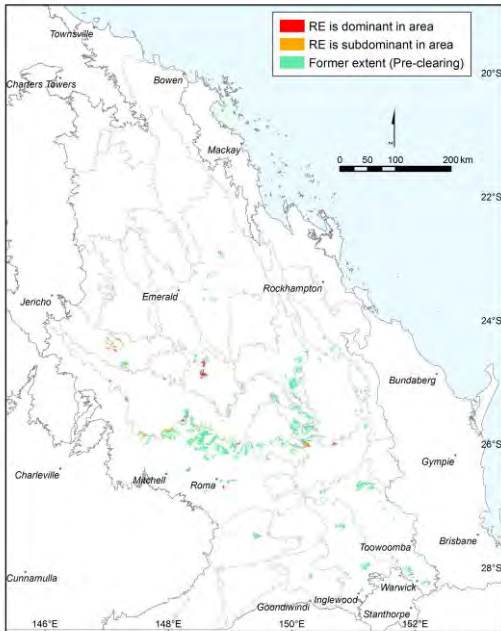
Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus



**Eucalyptus populnea, Eremophila mitchellii shrubby woodland on fine-grained sedimentary rocks**



Annie Kelly

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 362,764 37,280 10%

Species\_recorded: Total: 124; woody: 16; ground: 110; Avg. spp./site: 46.3; std dev.: 2.6, 3 site(s)

Basal area: Avg./site: 13.0 m<sup>2</sup>/ha, range: 6.0 - 20 m<sup>2</sup>/ha, std. deviation: 4 m<sup>2</sup>/ha, 5 site(s)

Structural formation: Woodland: 40%; open-woodland: 40%; open-forest: 20%, 5 site(s)

Representative\_sites 16237, 16618, 17290, 58174, 58334.

**Stratum: Tree 1**

Height avg. = 16.2m, range 15-18m, 5 sites

Crown cover avg. = 25.2%, range 10.0-44.0%, 5 sites

Dominant species (relative cover, frequency): *Eucalyptus populnea* (91, 100%), *Eucalyptus melanophloia* (14, 40%)

Frequent species (cover, frequency): *Eucalyptus populnea* (22, 100%), *Eucalyptus melanophloia* (4, 40%), *Alectryon oleifolius* subsp. *elongatus* (3, 20%), *Atalaya hemiglaucua* (4, 20%), *Grevillea striata* (2, 20%)

**Stratum: Tree 2**

Height avg. = 7.4m, range 4-12m, 4 sites

Crown cover avg. = 11.3%, range 5.0-20.0%, 4 sites

Dominant species (relative cover, frequency): *Eucalyptus populnea* (67, 60%)

Frequent species (cover, frequency): *Eucalyptus populnea* (6, 60%), *Acacia harpophylla* (2, 20%), *Corymbia clarksoniana* (10, 20%), *Eremophila mitchellii* (15, 20%), *Geijera parviflora* (20%), *Psyrax oleifolia* (20%)

**Stratum: Tree 3**

Height avg. = 4.5m, 1 site

Crown cover avg. = 6.0%, 1 site

Frequent species (cover, frequency): *Cupaniopsis anacardioides* (2, 20%), *Eucalyptus populnea* (2, 20%), *Grevillea striata* (2, 20%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Shrub 1**

Height avg. = 2.0m, range 0.9-4m, 4 sites

Crown cover avg. = 4.0%, range 2.0-8.0%, 4 sites

Dominant species (relative cover, frequency): *Eremophila mitchellii* (45, 40%), *Eucalyptus populnea* (35, 60%), *Geijera parviflora* (20, 40%)

Frequent species (cover, frequency): *Eucalyptus populnea* (1, 60%), *Eremophila mitchellii* (3, 40%), *Geijera parviflora* (1, 40%), *Acacia excelsa* subsp. *excelsa* (4, 20%), *Alectryon oleifolius* subsp. *elongatus* (2, 20%), *Capparis mitchellii* (20%), *Denhamia cunninghamii* (20%), *Grevillea striata* (20%)

**Stratum: Shrub 2**

Height avg. = 1.2m, range 0.3-2m, 2 sites

Crown cover avg. = 2.5%, range 0.0-5.0%, 2 sites

Frequent species (cover, frequency): *Citrus glauca* (5, 20%), *Dodonaea viscosa* (20%), *Psyrax oleifolia* (20%)

**Stratum: Ground**

Height avg. = 0.4m, range 0.25-0.5m, 3 sites

PFC avg. = 28.3%, range 20-40%, 3 sites

Dominant species (relative cover, frequency): *Cenchrus ciliaris*\* (23, 67%), *Paspalidium criniforme* (20, 33%), *Eragrostis spartinoides* (13, 33%), *Aristida leptopoda* (13, 33%), *Chloris divaricata* (13, 33%)

Frequent species (cover, frequency): GRAMINOIDS: *Sporobolus caroli* (100%), *Brachyachne ciliaris* (67%), *Cenchrus ciliaris*\* (6, 67%), *Chloris divaricata* var. *divaricata* (1, 67%), *Chloris ventricosa* (67%), *Cymbopogon refractus* (1, 67%), *Dichanthium sericeum* (3, 67%), *Enteropogon acicularis* (1, 67%), *Eragrostis tenellula* (67%), *Panicum effusum* (67%), *Paspalidium caespitosum* (4, 67%), *Thellungia advena* (67%), *Themeda triandra* (67%), *Tragus australianus* (67%), *Aristida jerichoensis* (2, 33%), *Aristida latifolia* (33%), *Aristida leptopoda* (5, 33%), *Aristida personata* (2, 33%), *Aristida vagans* (33%), *Bothriochloa decipiens* var. *decipiens* (2, 33%), *Chloris divaricata* (5, 33%), *Chrysopogon fallax* (33%), *Cyperus gracilis* (2, 33%), *Cyperus laevis* (33%), *Dichanthium sericeum* subsp. *sericeum* (33%), *Digitaria brownii* (2, 33%), *Dinebra decipiens* var. *decipiens* (1, 33%), *Enneapogon intermedius* (1, 33%), *Enneapogon polyphyllus* (2, 33%), *Enneapogon truncatus* (33%), *Enteropogon ramosus* (33%), *Eragrostis lacunaria* (33%), *Eragrostis spartinoides* (5, 33%), *Fimbristylis dichotoma* (33%), *Panicum buncei* (33%), *Panicum larcomianum* (33%), *Panicum simile* (33%), *Paspalidium criniforme* (8, 33%), *Paspalidium distans* (2, 33%), *Sehima nervosum* (33%), *Tripogon loliiformis* (33%)

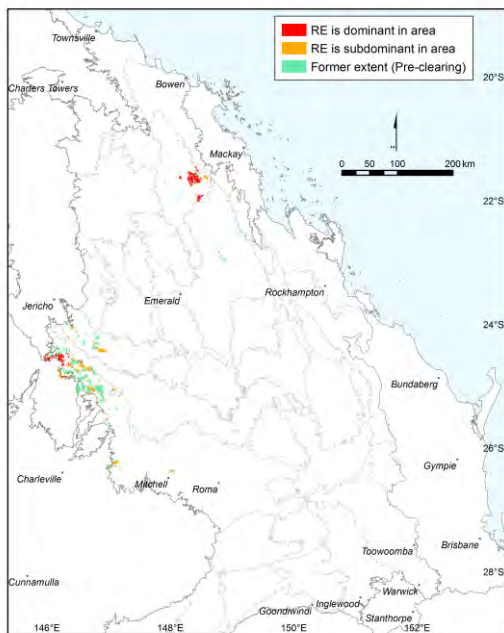
FORBS: *Boerhavia dominii* (100%), *Evolvulus alsinoides* (100%), *Rostellularia adscendens* (100%), *Brunoniella australis* (67%), *Einadia nutans* (67%), *Euphorbia drummondii* (67%), *Portulaca oleracea*\* (67%), *Tribulus terrestris* (67%), *Abutilon oxycarpum* (2, 33%), *Abutilon oxycarpum* var. *oxycarpum* (33%), *Achyranthes aspera* (4, 33%), *Alectryon diversifolius* (33%), *Alternanthera nana* (33%), *Atalaya hemiglaucula* (1, 33%), *Calotis cuneata* (1, 33%), *Calotis lappulacea* (33%), *Calotis scabiosifolia* var. *scabiosifolia* (33%), *Capparis lasiantha* (33%), *Cheilanthes distans* (33%), *Cheilanthes sieberi* (33%), *Cheilanthes sieberi* subsp. *sieberi* (1, 33%), *Chenopodium album*\* (33%), *Citrus glauca* (33%), *Cyanthillium cinereum* (33%), *Einadia nutans* subsp. *nutans* (3, 33%), *Enchylaena tomentosa* (33%), *Enchylaena tomentosa* var. *tomentosa* (2, 33%), *Eremophila debilis* (33%), *Euchiton* indet. (33%), *Glandularia aristigera*\* (33%), *Goodenia* indet. (33%), *Lagenophora gracilis* (33%), *Maireana microphylla* (33%), *Malvastrum americanum* var. *americanum*\* (2, 33%), *Malvastrum coromandelianum* subsp. *coromandelianum*\* (33%), *Neptunia gracilis* (33%), *Nyssanthus diffusa* (33%), *Opuntia stricta*\* (33%), *Opuntia tomentosa*\* (33%), *Oxalis perennans* (33%), *Parsonsia eucalyptophylla* (33%), *Phyllanthus virgatus* (2, 33%), *Pseuderanthemum variabile* (33%), *Sclerolaena anisacanthoides* (3, 33%), *Sclerolaena birchii* (33%), *Sida corrugata* (33%), *Sida cunninghamii* (33%), *Sida pleiantha* (33%), *Sida trichopoda* (33%), *Solanum cleistogamum* (33%), *Stackhousia muricata* (33%), *Verbena* indet. (33%), *Vittadinia pustulata* (1, 33%), *Vittadinia sulcata* (33%), *Zygophyllum apiculatum* (33%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Eucalyptus populnea woodland with a distinct shrubby layer**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 148,986 67,303 45%

Species\_recorded: Total: 26; woody: 11; ground: 16; Avg. spp./site: 26.0; std dev.: 0.0, 1 site(s)

Basal area: Avg./site: 20.0 m<sup>2</sup>/ha, range: 20.0 - 20 m<sup>2</sup>/ha, std. deviation: 0 m<sup>2</sup>/ha, 1 site(s)

Structural formation: Woodland: 100%, 1 site(s)

Representative\_sites 30403.

**Stratum: Tree 1**

Height avg. = 17.0m, 1 site

Crown cover avg. = 20.0%, 1 site

Dominant species (relative cover, frequency): *Eucalyptus populnea* (79, 100%), *Alectryon oleifolius* (11, 100%), *Brachychiton populneus* subsp. *trilobus* (5, 100%), *Brachychiton australis* (5, 100%)

Frequent species (cover, frequency): *Alectryon oleifolius* (2, 100%), *Brachychiton australis* (1, 100%), *Brachychiton populneus* subsp. *trilobus* (1, 100%), *Eucalyptus populnea* (15, 100%)

**Stratum: Tree 2**

Height avg. = 10.0m, 1 site

Crown cover avg. = 35.0%, 1 site

Dominant species (relative cover, frequency): *Geijera parviflora* (82, 100%), *Capparis loranthifolia* (5, 100%), *Callitris glaucophylla* (5, 100%), *Archidendropsis basaltica* (5, 100%), *Eremophila mitchellii* (1, 100%)

Frequent species (cover, frequency): *Acanthaceae* indet. (100%), *Alectryon oleifolius* (100%), *Archidendropsis basaltica* (1, 100%), *Callitris glaucophylla* (1, 100%), *Capparis loranthifolia* (1, 100%), *Eremophila mitchellii* (100%), *Geijera parviflora* (15, 100%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Shrub 1**

Height avg. = 1.8m, 1 site

Crown cover avg. = 8.0%, 1 site

*Dominant species (relative cover, frequency): Eremophila mitchellii (69, 100%), Senna artemisioides (14, 100%), Callitris glaucophylla (14, 100%), Capparis loranthifolia (1, 100%), Archidendropsis basaltica (1, 100%)*

*Frequent species (cover, frequency): Archidendropsis basaltica (100%), Callitris glaucophylla (1, 100%), Capparis loranthifolia (100%), Eremophila mitchellii (5, 100%), Senna artemisioides (1, 100%)*

**Stratum: Ground**

Height avg. = 0.8m, 1 site

PFC avg. = 35.0%, 1 site

*Dominant species (relative cover, frequency): Ancistrachne uncinulata (24, 100%), Cenchrus ciliaris\* (24, 100%), Paspalidium indet. (15, 100%), Eragrostis indet. (6, 100%), Asteraceae indet. (6, 100%)*

*Frequent species (cover, frequency): GRAMINOIDS: Ancistrachne uncinulata (8, 100%), Aristida indet. (1, 100%), Cenchrus ciliaris\* (8, 100%), Enneapogon lindleyanus (2, 100%), Eragrostis indet. (2, 100%), Paspalidium indet. (5, 100%)*

*FORBS: Acanthaceae indet. (100%), Asteraceae indet. (2, 100%), Einadia nutans (2, 100%), Enchylaena tomentosa (100%), Lysiphyllum carronii (100%), Marsdenia indet. (100%), Nyssanthes erecta (1, 100%), Opuntia tomentosa\* (100%), Oxalis indet. (100%), Sida indet. (1, 100%)*

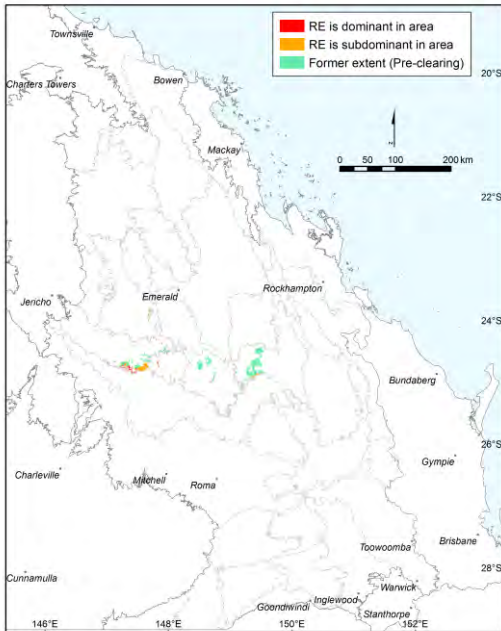
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Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Macropteranthes leichhardtii thicket on fine grained sedimentary rocks**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 35,619 11,842 33%

Species\_recorded: Total: 103; woody: 65; ground: 50; Avg. spp./site: 33.0; std dev.: 2.0, 2 site(s)

Basal area: Avg./site: 19.0 m<sup>2</sup>/ha, range: 12.5 - 31 m<sup>2</sup>/ha, std. deviation: 5 m<sup>2</sup>/ha, 8 site(s)

Structural formation: Unrecorded: 100%, 8 site(s)

Representative\_sites 17303, 17342, 17365, 17366, 27928, 28791, 28794, 28898.

**Stratum: Emergent**

Height avg. = 16.8m, range 12-26m, 5 sites  
 Crown cover avg. = 4.6%, range 0.6-15.0%, 6 sites

Dominant species (relative cover, frequency): *Brachychiton rupestris* (83, 50%)

Frequent species (cover, frequency): *Brachychiton rupestris* (3, 50%), *Acacia harpophylla* (5, 13%), *Brachychiton australis* (5, 13%), *Eucalyptus cambageana* (5, 13%), *Macropteranthes leichhardtii* (1, 13%)

**Stratum: Tree 1**

Height avg. = 9.9m, range 7-15m, 8 sites  
 Crown cover avg. = 56.8%, range 30.0-73.3%, 8 sites

Dominant species (relative cover, frequency): *Macropteranthes leichhardtii* (74, 100%), *Notelaea microcarpa* (16, 38%), *Backhousia angustifolia* (16, 25%), *Geijera parviflora* (9, 38%), *Brachychiton rupestris* (8, 25%)

Frequent species (cover, frequency): *Macropteranthes leichhardtii* (45, 100%), *Acacia fasciculifera* (3, 38%), *Brachychiton australis* (1, 38%), *Flindersia australis* (1, 38%), *Geijera parviflora* (5, 38%), *Notelaea microcarpa* (7, 38%), *Alstonia constricta* (3, 25%), *Backhousia angustifolia* (6, 25%), *Brachychiton rupestris* (5, 25%), *Acacia catenulata* (13%), *Alectryon connatus* (1, 13%), *Callitris glaucophylla* (13%), *Capparis loranthifolia* (13%), *Capparis loranthifolia var. bancroftii* (13%), *Clematicissus opaca* (13%), *Croton insularis* (5, 13%), *Cymbidium canaliculatum* (13%), *Diospyros humilis* (1, 13%), *Ehretia membranifolia* (4, 13%), *Lysiphylum hookeri* (2, 13%), *Owenia venosa* (2, 13%), *Planchonella cotinifolia* (1, 13%), *Psydrax johnsonii* (5, 13%), *Psydrax odorata* (2, 13%), *Triflorensia ixoroides* (13%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Tree 2**

Height avg. = 4.9m, range 3-6m, 7 sites

Crown cover avg. = 17.7%, range 3.0-30.0%, 7 sites

*Dominant species (relative cover, frequency):* *Alstonia constricta* (52, 38%), *Croton insularis* (45, 50%), *Macropteranthes leichhardtii* (37, 38%), *Diospyros humilis* (33, 25%), *Psydrax odorata* (25, 25%)

*Frequent species (cover, frequency):* *Croton insularis* (12, 50%), *Alstonia constricta* (3, 38%), *Macropteranthes leichhardtii* (2, 38%), *Diospyros humilis* (10, 25%), *Ehretia membranifolia* (1, 25%), *Planchonella cotinifolia* (2, 25%), *Psydrax odorata* (3, 25%), *Acacia harpophylla* (1, 13%), *Apophyllum anomalum* (13%), *Atalaya salicifolia* (2, 13%), *Brachychiton rupestris* (1, 13%), *Capparis loranthifolia* (13%), *Denhamia disperma* (1, 13%), *Geijera parviflora* (5, 13%), *Murraya ovatifoliolata* (5, 13%), *Notelaea microcarpa* (13%), *Psydrax johnsonii* (5, 13%), *Tinospora smilacina* (13%)

**Stratum: Shrub 1**

Height avg. = 2.1m, range 1.2-3m, 8 sites

Crown cover avg. = 25.2%, range 1.0-70.0%, 8 sites

*Dominant species (relative cover, frequency):* *Macropteranthes leichhardtii* (57, 25%), *Acalypha eremorum* (49, 38%), *Croton phebalioides* (38, 25%), *Pittosporum spinescens* (25, 75%), *Everistia vacciniifolia* (19, 38%)

*Frequent species (cover, frequency):* *Ancistrachne uncinulata* (1, 13%), *Pittosporum spinescens* (5, 75%), *Alectryon diversifolius* (4, 63%), *Acalypha eremorum* (24, 38%), *Everistia vacciniifolia* (5, 38%), *Carissa ovata* (25%), *Clematicissus opaca* (25%), *Croton phebalioides* (10, 25%), *Macropteranthes leichhardtii* (1, 25%), *Marsdenia viridiflora* (25%), *Opuntia tomentosa\** (25%), *Parsonsia lanceolata* (25%), *Psydrax johnsonii* (1, 25%), *Turraea pubescens* (3, 25%), *Acacia catenulata* (1, 13%), *Alphitonia excelsa* (5, 13%), *Alstonia constricta* (1, 13%), *Capparis lasiantha* (2, 13%), *Capparis loranthifolia* (1, 13%), *Cayratia clematidea* (13%), *Croton insularis* (13%), *Cynanchum viminalis* (1, 13%), *Diospyros humilis* (13%), *Drypetes deplanchei* (13%), *Ehretia membranifolia* (1, 13%), *Elattostachys xylocarpa* (13%), *Erythroxylum australe* (13%), *Erythroxylum sp.* (Splityard Creek L. Pedley 5360) (2, 13%), *Flueggea leucopyrus* (8, 13%), *Glossocarya hemiderma* (1, 13%), *Hovea longipes* (5, 13%), *Jasminum didymum* (1, 13%), *Notelaea microcarpa* (13%), *Parsonsia eucalyptophylla* (13%), *Passiflora aurantia* (1, 13%), *Pavetta australiensis* (13%), *Secamone elliptica* (1, 13%), *Solanum seaforthianum\** (1, 13%), *Solanum semiarmatum* (1, 13%), *Trophis scandens subsp. scandens* (13%), *Zanthoxylum brachyacanthum* (13%), *Zygophyllum apiculatum* (13%)

**Stratum: Ground**

Height avg. = 0.7m, range 0.6-0.8m, 2 sites

PFC avg. = 9.0%, range 3-15%, 2 sites

*Dominant species (relative cover, frequency):* *Ancistrachne uncinulata* (63, 50%), *Glossocarya hemiderma* (48, 50%), *Abutilon oxycarpum var. oxycarpum* (24, 100%), *Acalypha eremorum* (16, 50%), *Cayratia acris* (3, 50%)

*Frequent species (cover, frequency):* GRAMINOIDS: *Ancistrachne uncinulata* (10, 50%)

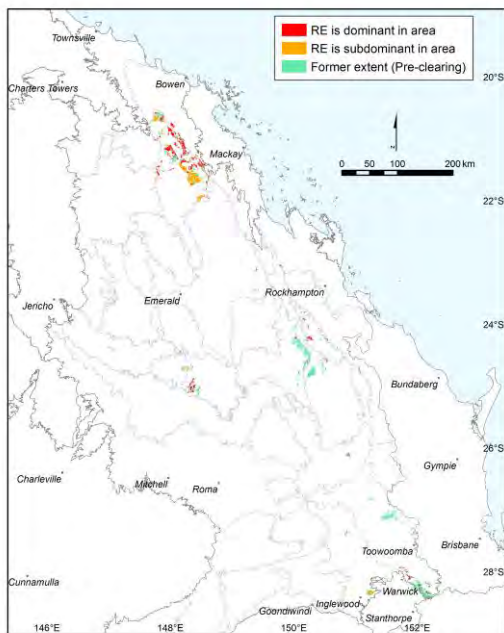
FORBS: *Abutilon oxycarpum var. oxycarpum* (3, 100%), *Solanum parvifolium* (100%), *Acalypha eremorum* (1, 50%), *Capparis loranthifolia* (50%), *Cayratia acris* (50%), *Clematicissus opaca* (50%), *Deeringia amaranthoides* (50%), *Glossocarya hemiderma* (2, 50%), *Hoya australis* (50%), *Jasminum didymum subsp. lineare* (50%), *Maireana microphylla* (50%), *Plectranthus parviflorus* (50%), *Rostellularia adscendens* (50%), *Siphonodon australis* (50%), *Solanum furfuraceum* (50%), *Vincetoxicum ovatum* (50%)

**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Eucalyptus crebra woodland on fine-grained sedimentary rocks**



Annie Kelly

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 219,132 106,929 49%

Species\_recorded: Total: 100; woody: 40; ground: 64; Avg. spp./site: 23.0; std dev.: 4.0, 2 site(s)

Basal area: Avg./site: 9.3 m<sup>2</sup>/ha, range: 3.0 - 14 m<sup>2</sup>/ha, std. deviation: 5 m<sup>2</sup>/ha, 5 site(s)

Structural formation: Woodland: 60%; open-woodland: 40%, 5 site(s)

Representative\_sites 16840, 16859, 17411, 19073, 30781.

**Stratum: Tree 1**

Height avg. = 16.5m, range 11-18.5m, 5 sites

Crown cover avg. = 23.2%, range 10.0-44.0%, 5 sites

Dominant species (relative cover, frequency): *Eucalyptus crebra* (73, 100%)

Frequent species (cover, frequency): *Eucalyptus crebra* (16, 100%), *Allocasuarina luehmannii* (20%), *Amyema miquelii* (20%), *Corymbia clarksoniana* (10, 20%), *Corymbia erythrophloia* (14, 20%), *Corymbia tessellaris* (5, 20%), *Eucalyptus melanophloia* (20%), *Eucalyptus tereticornis* (2, 20%)

**Stratum: Tree 2**

Height avg. = 7.7m, range 6-9m, 3 sites

Crown cover avg. = 2.7%, range 1.0-5.0%, 3 sites

Frequent species (cover, frequency): *Callitris glaucophylla* (5, 20%), *Casuarina cristata* (1, 20%), *Geijera parviflora* (1, 20%), *Geijera salicifolia* (1, 20%), *Vachellia nilotica*\* (20%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Shrub 1**

Height avg. = 2.8m, range 1-7m, 5 sites

Crown cover avg. = 6.6%, range 1.0-20.0%, 5 sites

Dominant species (relative cover, frequency): *Eremophila mitchellii* (22, 40%), *Eucalyptus crebra* (12, 40%)

Frequent species (cover, frequency): *Eremophila mitchellii* (1, 40%), *Eucalyptus crebra* (1, 40%), *Acacia deanei* (5, 20%), *Acacia everistii* (20%), *Acacia shirleyi* (1, 20%), *Alphitonia excelsa* (2, 20%), *Brachychiton populneus* (20%), *Bursaria spinosa subsp. spinosa* (20%), *Capparis sarmentosa* (1, 20%), *Carissa ovata* (20%), *Cassia indet.* (20%), *Cassinia laevis* (20%), *Corymbia clarksoniana* (20%), *Corymbia tessellaris* (20%), *Denhamia oleaster* (20%), *Diospyros humilis* (1, 20%), *Erythroxylum australe* (20%), *Geijera parviflora* (1, 20%), *Opuntia tomentosa\** (20%), *Petalostigma pubescens* (20%), *Terminalia indet.* (20%)

**Stratum: Shrub 2**

Height avg. = 1.3m, range 1-1.5m, 3 sites

Crown cover avg. = 8.3%, range 5.0-15.0%, 3 sites

Dominant species (relative cover, frequency): *Pittosporum spinescens* (12, 40%)

Frequent species (cover, frequency): *Ancistrachne uncinulata* (20%), *Pittosporum spinescens* (1, 40%), *Alphitonia excelsa* (4, 20%), *Bursaria incana* (20%), *Cryptandra armata* (20%), *Cyanthillium cinereum* (20%), *Dodonaea triangularis* (15, 20%), *Erythroxylum sp.* (*Splityard Creek L. Pedley 5360*) (2, 20%), *Melichrus urceolatus* (20%), *Solanum indet.* (20%)

**Stratum: Ground**

Height avg. = 0.4m, range 0.25-0.5m, 2 sites

PFC avg. = 57.5%, range 40-75%, 2 sites

Dominant species (relative cover, frequency): *Gahnia aspera* (77, 50%), *Sarga plumosum* (20, 50%), *Carissa ovata* (20, 50%), *Cenchrus ciliaris\** (20, 50%), *Euphorbia indet.* (20, 50%)

Frequent species (cover, frequency): GRAMINOIDS: *Ancistrachne uncinulata* (50%), *Aristida calycina* (50%), *Aristida caput-medusae* (5, 50%), *Aristida vagans* (1, 50%), *Cenchrus ciliaris\** (15, 50%), *Chloris ventricosa* (50%), *Cymbopogon refractus* (50%), *Digitaria indet.* (50%), *Enteropogon acicularis* (50%), *Eragrostis sororia* (50%), *Gahnia aspera* (23, 50%), *Panicum effusum* (50%), *Sarga plumosum* (15, 50%), *Tragus australianus* (15, 50%)

FORBS: *Apowollastonia indet.* (50%), *Boerhavia indet.* (50%), *Carissa ovata* (15, 50%), *Cassia indet.* (50%), *Cheilanthes sieberi* (50%), *Clerodendrum indet.* (50%), *Dianella revoluta* (50%), *Erythrina vespertilio* (50%), *Euphorbia indet.* (15, 50%), *Grewia retusifolia* (50%), *Jacquemontia indet.* (50%), *Lomandra multiflora subsp. multiflora* (50%), *Terminalia indet.* (50%)

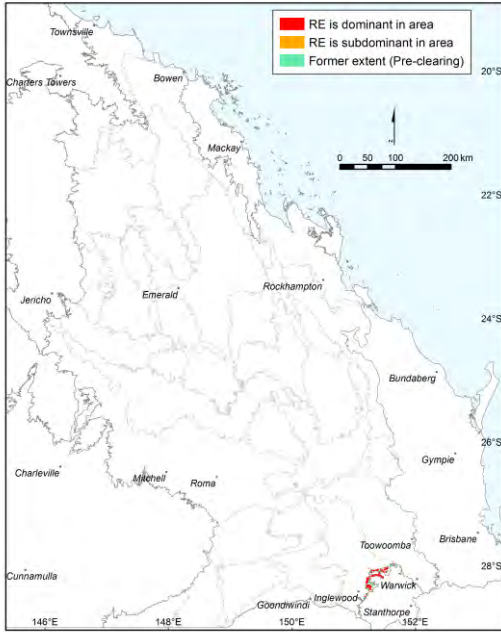
Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus



**Eucalyptus albens +/- E. crebra +/- E. tereticornis +/- Callitris baileyi woodland**



Annie Kelly

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 36,185 20,300 56%

Species\_recorded: Total: 18; woody: 5; ground: 13; Average species per site and standard deviation not available

Basal area: Avg./site: 21.0 m<sup>2</sup>/ha, range: 21.0 - 21 m<sup>2</sup>/ha, std. deviation: 0 m<sup>2</sup>/ha, 1 site(s)

Structural formation: Woodland: 100%, 1 site(s)

Representative\_sites 17409.

**Stratum: Tree 1**

Height avg. = 20.0m, 1 site

Crown cover avg. = 40.0%, 1 site

Dominant species (relative cover, frequency): *Callitris glaucophylla* (73, 100%), *Eucalyptus tereticornis* (12, 100%), *Corymbia intermedia* (12, 100%), *Angophora leiocarpa* (2, 100%)

Frequent species (cover, frequency): *Angophora leiocarpa* (1, 100%), *Callitris glaucophylla* (30, 100%), *Corymbia intermedia* (5, 100%), *Eucalyptus tereticornis* (5, 100%)

**Stratum: Tree 2**

Height avg. = 18.0m, 1 site

Crown cover avg. = 30.0%, 1 site

**Stratum: Shrub 1**

Height avg. = 1.5m, 1 site

Crown cover avg. = 5.0%, 1 site

Dominant species (relative cover, frequency): *Cassinia laevis* (100, 100%)

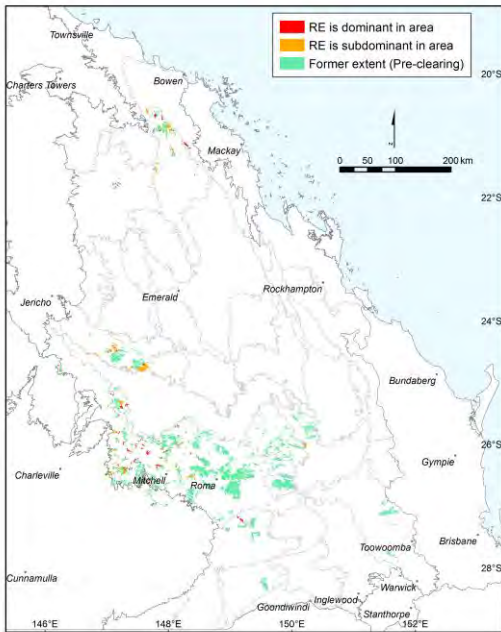
Frequent species (cover, frequency): *Cassinia laevis* (5, 100%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Eucalyptus populnea open forest with a secondary tree layer of Acacia harpophylla and sometimes Casuarina cristata on fine-grained sedimentary rocks**



Annie Kelly

**Pre-clearing area (ha), remnant area (ha) and per cent remaining: 485,927 78,234 16%**

**Species\_recorded: Total: 53; woody: 13; ground: 41; Avg. spp./site: 37.0; std dev.: 0.0, 1 site(s)**

**Basal area: Avg./site: 13.3 m<sup>2</sup>/ha, range: 10.0 - 17 m<sup>2</sup>/ha, std. deviation: 3 m<sup>2</sup>/ha, 2 site(s)**

**Structural formation: Tall open-forest: 50%; open-woodland: 50%, 2 site(s)**

**Representative\_sites 16777, 17408.**

**Stratum: Tree 1**

**Height avg. = 14.5m, range 14-15m, 2 sites**

**Crown cover avg. = 30.0%, range 10.0-50.0%, 2 sites**

*Dominant species (relative cover, frequency): Eucalyptus populnea (72, 100%), Acacia harpophylla (49, 50%), Corymbia tessellaris (5, 50%), Notelaea microcarpa (1, 50%), Brachychiton rupestris (1, 50%)*

*Frequent species (cover, frequency): Eucalyptus populnea (18, 100%), Acacia harpophylla (25, 50%), Brachychiton rupestris (1, 50%), Corymbia tessellaris (1, 50%), Notelaea microcarpa (1, 50%)*

**Stratum: Tree 2**

**Height avg. = 8.0m, 1 site**

**Crown cover avg. = 30.0%, 1 site**

*Dominant species (relative cover, frequency): Acacia harpophylla (99, 50%), Lysiphyllum carronii (1, 50%), Alectryon oleifolius (1, 50%)*

*Frequent species (cover, frequency): Acacia harpophylla (18, 50%), Alectryon oleifolius (50%), Lysiphyllum carronii (50%)*

**Stratum: Shrub 1**

**Height avg. = 4.0m, 1 site**

**Crown cover avg. = 20.0%, 1 site**

*Dominant species (relative cover, frequency): Eremophila mitchellii (39, 50%), Geijera parviflora (30, 50%), Acacia harpophylla (30, 50%)*

*Frequent species (cover, frequency): Acacia harpophylla (6, 50%), Alectryon oleifolius (50%), Capparis canescens (50%), Eremophila mitchellii (8, 50%), Eucalyptus populnea (50%), Geijera parviflora (6, 50%)*

**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Shrub 2**

Height avg. = 1.0m, 1 site

Crown cover avg. = 10.0%, 1 site

*Dominant species (relative cover, frequency): Geijera parviflora (42, 50%), Eremophila deserti (42, 50%), Carissa ovata (8, 50%), Capparis lasiantha (8, 50%)*

*Frequent species (cover, frequency): Capparis lasiantha (50%), Carissa ovata (50%), Eremophila deserti (1, 50%), Geijera parviflora (1, 50%)*

**Stratum: Ground**

Height avg. = 0.2m, 1 site

PFC avg. = 53.0%, 1 site

*Dominant species (relative cover, frequency): Ancistrachne uncinulata (51, 100%), Enneapogon lindleyanus (18, 100%), Cenchrus ciliaris\* (11, 100%), Eragrostis megalosperma (11, 100%), Malvastrum americanum var. americanum\* (4, 100%)*

*Frequent species (cover, frequency): GRAMINOIDS: Ancistrachne uncinulata (28, 100%), Aristida ramosa (100%), Cenchrus ciliaris\* (6, 100%), Cyperus gracilis (100%), Enneapogon lindleyanus (10, 100%), Enteropogon paucispiceus (100%), Eragrostis lacunaria (100%), Eragrostis megalosperma (6, 100%)*

*FORBS: Abutilon oxycarpum (100%), Amaranthus interruptus (100%), Carissa ovata (100%), Cheilanthes nudiusscula (100%), Cyathillium cinereum (100%), Diplocyclos indet. (100%), Einadia nutans subsp. nutans (100%), Hibiscus sturtii (100%), Jasminum didymum subsp. racemosum (100%), Maireana microphylla (100%), Malvastrum americanum var. americanum\* (2, 100%), Notoleptopus decaisnei (100%), Opuntia stricta\* (100%), Salsola australis (100%), Solanum ellipticum (100%), Solanum parvifolium (1, 100%), Teucrium micranthum (100%)*

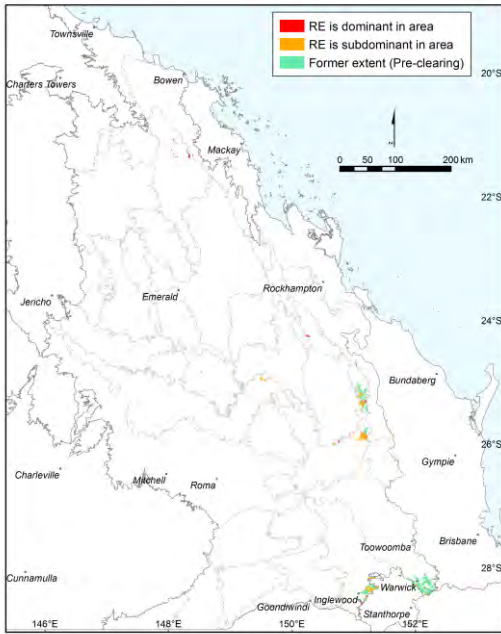
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**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Eucalyptus moluccana or E. microcarpa open forest on fine grained sedimentary rocks**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 65,455 20,398 31%

Species\_recorded: Total: 56; woody: 11; ground: 45; Avg. spp./site: 40.0; std dev.: 0.0, 1 site(s)

Basal area: Avg./site: 15.3 m<sup>2</sup>/ha, range: 9.5 - 21 m<sup>2</sup>/ha, std. deviation: 6 m<sup>2</sup>/ha, 2 site(s)

Structural formation: Woodland: 100%, 2 site(s)

Representative\_sites 16947, 17276.

**Stratum: Tree 1**

Height avg. = 21.5m, range 18-25m, 2 sites

Crown cover avg. = 27.5%, range 20.0-35.0%, 2 sites

Dominant species (relative cover, frequency): *Eucalyptus moluccana* (100, 50%), *Eucalyptus woollsiana* (77, 50%), *Acacia harpophylla* (23, 50%)

Frequent species (cover, frequency): *Acacia harpophylla* (8, 50%), *Alectryon oleifolius subsp. elongatus* (50%), *Eucalyptus moluccana* (20, 50%), *Eucalyptus woollsiana* (27, 50%)

**Stratum: Tree 2**

Height avg. = 13.0m, 1 site

Crown cover avg. = 15.0%, 1 site

Dominant species (relative cover, frequency): *Acacia harpophylla* (47, 50%), *Eucalyptus woollsiana* (33, 50%), *Callitris glaucophylla* (20, 50%)

Frequent species (cover, frequency): *Acacia harpophylla* (7, 50%), *Callitris glaucophylla* (3, 50%), *Eucalyptus woollsiana* (5, 50%)

**Stratum: Tree 3**

Height avg. = 8.0m, 1 site

Crown cover avg. = 25.0%, 1 site

Dominant species (relative cover, frequency): *Acacia harpophylla* (53, 50%), *Eremophila mitchellii* (13, 50%), *Callitris glaucophylla* (13, 50%), *Allocasuarina luehmannii* (13, 50%), *Alectryon oleifolius subsp. elongatus* (7, 50%)

Frequent species (cover, frequency): *Acacia harpophylla* (8, 50%), *Alectryon oleifolius subsp. elongatus* (1, 50%), *Allocasuarina luehmannii* (2, 50%), *Callitris glaucophylla* (2, 50%), *Eremophila mitchellii* (2, 50%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Shrub 1**

Height avg. = 2.8m, range 1.5-4m, 2 sites

Crown cover avg. = 30.0%, range 25.0-35.0%, 2 sites

Dominant species (relative cover, frequency): *Geijera parviflora* (49, 100%), *Dodonaea viscosa* (29, 50%), *Acacia harpophylla* (22, 50%), *Carissa ovata* (14, 50%), *Eremophila mitchellii* (11, 100%)

Frequent species (cover, frequency): *Eremophila mitchellii* (4, 100%), *Geijera parviflora* (15, 100%), *Acacia harpophylla* (6, 50%), *Callitris glaucophylla* (2, 50%), *Carissa ovata* (5, 50%), *Dodonaea viscosa* (10, 50%), *Exocarpos aphyllus* (2, 50%)

**Stratum: Shrub 2**

Height avg. = 1.5m, 1 site

Crown cover avg. = 2.0%, 1 site

Dominant species (relative cover, frequency): *Geijera parviflora* (77, 50%), *Exocarpos aphyllus* (8, 50%), *Allocasuarina luehmannii* (8, 50%), *Acacia harpophylla* (8, 50%)

Frequent species (cover, frequency): *Acacia harpophylla* (50%), *Allocasuarina luehmannii* (50%), *Exocarpos aphyllus* (50%), *Geijera parviflora* (1, 50%)

**Stratum: Ground**

Height avg. = 0.5m, 1 site

PFC avg. = 50.0%, 1 site

Dominant species (relative cover, frequency): *Ancistrachne uncinulata* (15, 100%), *Cymbopogon refractus* (15, 100%), *Chloris divaricata* (15, 100%), *Aristida caput-medusae* (11, 100%), *Cyperus gracilis* (9, 100%)

Frequent species (cover, frequency): GRAMINOIDS: *Ancistrachne uncinulata* (8, 100%), *Aristida caput-medusae* (6, 100%), *Aristida queenslandica* var. *dissimilis* (1, 100%), *Chloris divaricata* (8, 100%), *Cymbopogon refractus* (8, 100%), *Cyperus fulvus* (100%), *Cyperus gracilis* (5, 100%), *Eragrostis elongata* (1, 100%), *Eragrostis parviflora* (1, 100%), *Gahnia aspera* (1, 100%), *Paspalidium indet.* (4, 100%)

FORBS: *Acacia deanei* (1, 100%), *Alternanthera denticulata* (1, 100%), *Brunoniella australis* (1, 100%), *Calotis cuneifolia* (1, 100%), *Cheilanthes sieberi* (1, 100%), *Cyanthillium cinereum* (1, 100%), *Denhamia cunninghamii* (1, 100%), *Einadia hastata* (1, 100%), *Enchylaena tomentosa* var. *tomentosa* (1, 100%), *Eremophila deserti* (1, 100%), *Lomandra confertifolia* subsp. *pallida* (1, 100%), *Nyssanthes erecta* (1, 100%), *Opuntia tomentosa*\* (100%), *Oxalis corniculata*\* (1, 100%), *Plectranthus parviflorus* (1, 100%), *Portulaca bicolor* (1, 100%), *Portulaca indet.* (1, 100%), *Rhagodia spinescens* (1, 100%), *Santalum lanceolatum* (100%), *Sida indet.* (1, 100%), *Solanum parvifolium* (1, 100%)

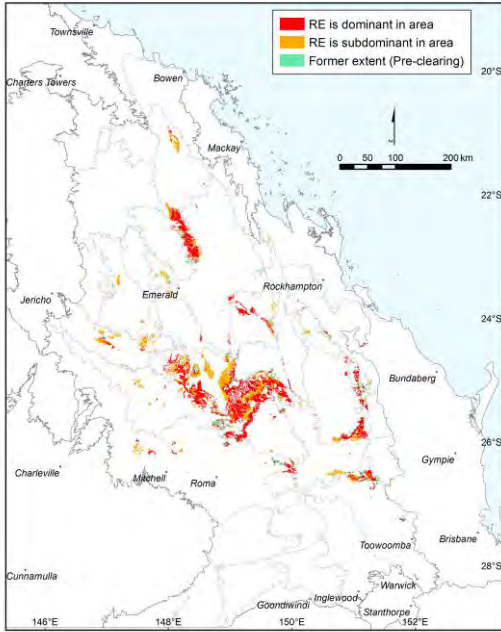
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Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Corymbia citriodora woodland on coarse-grained sedimentary rocks**



Teresa Eyre

**Pre-clearing area (ha), remnant area (ha) and per cent remaining:** 988,129 858,970 87%

**Species\_recorded:** Total: 446; woody: 146; ground: 360; Avg. spp./site: 33.4; std dev.: 10.1, 46 site(s)

**Basal area:** Avg./site: 11.7 m<sup>2</sup>/ha, range: 4.0 - 31 m<sup>2</sup>/ha, std. deviation: 5 m<sup>2</sup>/ha, 52 site(s)

**Structural formation:** Woodland: 64%; open-forest: 19%; open-woodland: 9%; tall open-forest: 4%; tall woodland: 2%; tall open-woodland: 2%, 53 site(s)

**Representative\_sites** 13968, 16347, 16348, 16781, 17016, 17210, 17259, 17396, 17405, 17440, 17441, 17671, 19010, 19023, 24562, 24563, 24589, 24590, 24607, 24659, 24661, 24662, 24665, 24668, 24671, 24684, 24685, 24688, 24690, 24691, 24698, 24706, 24707, 24708, 24709, 24710, 24711, 24712, 24713, 24729, 24730, 28907, 28911, 28913, 28914, 28918, 28920, 28924, 28925, 28927, 28947, 28949, 30390.

**Stratum: Tree 1**

**Height avg. = 23.0m, range 11-35m, 53 sites**

**Crown cover avg. = 33.2%, range 10.0-84.0%, 53 sites**

*Dominant species (relative cover, frequency): Corymbia citriodora subsp. citriodora (76, 28%), Corymbia citriodora subsp. variegata (73, 49%), Eucalyptus crebra (26, 43%)*

*Frequent species (cover, frequency): Corymbia citriodora subsp. variegata (23, 49%), Eucalyptus crebra (9, 43%), Corymbia citriodora subsp. citriodora (27, 28%), Corymbia citriodora (10, 15%), Angophora leiocarpa (6, 13%), Eucalyptus fibrosa subsp. nubilis (17, 13%), Eucalyptus longirostrata (7, 13%), Eucalyptus melanophloia (3, 13%), Eucalyptus cloeziana (16, 9%), Corymbia clarksoniana (5, 8%), Callitris glaucophylla (6%), Corymbia watsoniana subsp. watsoniana (1, 6%), Acacia crassa subsp. crassa (3, 4%), Alphitonia excelsa (4%), Angophora floribunda (1, 4%), Eucalyptus chloroclada (4%), Eucalyptus decorticans (1, 4%), Eucalyptus exserta (4%), Eucalyptus fibrosa subsp. fibrosa (10, 4%), Lophostemon suaveolens (1, 4%), Alstonia constricta (1, 2%), Corymbia aureola (2, 2%), Corymbia erythrophloia (2, 2%), Corymbia hendersonii (2, 2%), Corymbia leichhardtii (35, 2%), Corymbia trachyphloia subsp. trachyphloia (5, 2%), Corymbia watsoniana subsp. capillata (3, 2%), Eucalyptus apothalassica (2%), Eucalyptus mediocris (5, 2%), Eucalyptus melanoleuca (35, 2%), Eucalyptus moluccana (2, 2%), Eucalyptus propinqua (1, 2%), Eucalyptus tereticornis (2%), Eucalyptus tholiformis (16, 2%), Grewia latifolia (2%), Lysicarpus angustifolius (1, 2%), Melia azedarach (2%), Petalostigma pubescens (2%), Senna barclayana (2%), Xylomelum cunninghamianum (2%)*

**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Tree 2**

Height avg. = 12.5m, range 4-19m, 39 sites

Crown cover avg. = 15.0%, range 1.0-60.0%, 42 sites

*Dominant species (relative cover, frequency): Corymbia citriodora subsp. variegata (46, 32%), Eucalyptus crebra (37, 25%)*

*Frequent species (cover, frequency): Corymbia citriodora subsp. variegata (4, 32%), Eucalyptus crebra (6, 25%), Corymbia citriodora subsp. citriodora (9, 17%), Angophora leiocarpa (3, 11%), Eucalyptus melanophloia (4, 11%), Corymbia clarksoniana (3, 9%), Lysicarpus angustifolius (5, 9%), Eucalyptus fibrosa subsp. nubilis (3, 8%), Acacia leiocalyx subsp. leiocalyx (2, 6%), Acacia shirleyi (21, 6%), Allocasuarina torulosa (2, 6%), Callitris glaucophylla (3, 6%), Corymbia citriodora (2, 6%), Eucalyptus cloeziana (2, 6%), Acacia bancroftiorum (2, 4%), Acacia falciformis (2, 4%), Corymbia erythrophloia (1, 4%), Corymbia hendersonii (6, 4%), Eucalyptus exserta (1, 4%), Eucalyptus tenuipes (4%), Leptospermum lamellatum (1, 4%), Lophostemon suaveolens (3, 4%), Acacia crassa subsp. longicoma (5, 2%), Acacia cretata (2%), Acacia longifolia (1, 2%), Acacia tenuinervis (5, 2%), Allocasuarina inophloia (1, 2%), Allocasuarina littoralis (1, 2%), Allocasuarina luehmannii (2, 2%), Alphitonia excelsa (2, 2%), Amyema quandang (2%), Casuarina cristata (4, 2%), Corymbia aureola (2%), Corymbia leichhardtii (5, 2%), Corymbia trachyphloia subsp. trachyphloia (1, 2%), Corymbia watsoniana subsp. capillata (22, 2%), Eucalyptus longirostrata (1, 2%), Eucalyptus melanoleuca (1, 2%), Eucalyptus tholiformis (6, 2%), Petalostigma pubescens (2%), Phyllanthus virgatus (2%)*

**Stratum: Tree 3**

Height avg. = 6.2m, range 3-9m, 5 sites

Crown cover avg. = 5.4%, range 3.0-10.0%, 5 sites

*Frequent species (cover, frequency): Alphitonia excelsa (2, 8%), Acacia flavescens (3, 4%), Petalostigma pubescens (3, 4%), Acacia bancroftiorum (1, 2%), Acacia crassa (5, 2%), Acacia shirleyi (2%), Allocasuarina inophloia (5, 2%), Denhamia disperma (2%), Larsenaikia ochreatea (1, 2%)*

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Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Shrub 1**

Height avg. = 3.4m, range 1-15m, 48 sites

Crown cover avg. = 11.0%, range 0.0-65.0%, 51 sites

Dominant species (relative cover, frequency): *Acacia leiocalyx* subsp. *leiocalyx* (45, 43%), *Alphitonia excelsa* (12, 28%)

Frequent species (cover, frequency): *Acacia leiocalyx* subsp. *leiocalyx* (8, 43%), *Alphitonia excelsa* (1, 28%), *Corymbia citriodora* subsp. *variegata* (1, 17%), *Eucalyptus crebra* (1, 15%), *Petalostigma pubescens* (1, 15%), *Acacia longispicata* (9, 11%), *Acacia crassa* subsp. *crassa* (2, 9%), *Breynia oblongifolia* (9%), *Capparis canescens* (9%), *Opuntia tomentosa*\* (9%), *Acacia falciformis* (1, 8%), *Grewia latifolia* (8%), *Jacksonia scoparia* (1, 8%), *Acacia bancroftiorum* (12, 6%), *Acacia caroleae* (16, 6%), *Allocasuarina luehmannii* (7, 6%), *Cassinia laevis* (1, 6%), *Erythroxylum australe* (3, 6%), *Eucalyptus fibrosa* subsp. *nubilis* (6%), *Macrozamia moorei* (6%), *Persoonia falcata* (6%), *Acacia crassa* subsp. *longicoma* (4%), *Acacia decora* (1, 4%), *Acacia excelsa* subsp. *angusta* (1, 4%), *Acacia flavescens* (4, 4%), *Acacia grandifolia* (3, 4%), *Acacia loroloba* (5, 4%), *Alectryon diversifolius* (1, 4%), *Callitris glaucophylla* (1, 4%), *Carissa ovata* (1, 4%), *Corymbia clarksoniana* (1, 4%), *Denhamia cunninghamii* (4%), *Denhamia oleaster* (4%), *Dodonaea triangularis* (3, 4%), *Dodonaea vestita* (4%), *Eucalyptus cloeziana* (1, 4%), *Eucalyptus melanophloia* (4%), *Exocarpos cupressiformis* (4%), *Leptospermum lamellatum* (4%), *Lophostemon suaveolens* (5, 4%), *Marsdenia* *indet.* (4%), *Psydrax oleifolia* (4%), *Xylomelum cunninghamianum* (1, 4%), *Abutilon calliphylum* (2%), *Acacia aulacocarpa* (1, 2%), *Acacia complanata* (12, 2%), *Acacia conferta* (1, 2%), *Acacia crassa* (3, 2%), *Acacia cretata* (2, 2%), *Acacia excelsa* subsp. *excelsa* (1, 2%), *Acacia glaucocarpa* (2%), *Acacia jucunda* (2%), *Acacia julifera* subsp. *curvinervia* (2%), *Acacia longifolia* (1, 2%), *Acacia montana* (5, 2%), *Acacia penninervis* var. *penninervis* (2%), *Acacia rhodoxylon* (2%), *Acacia sertiformis* (5, 2%), *Acacia shirleyi* (2%), *Acacia ulicifolia* (2, 2%), *Allocasuarina torulosa* (2, 2%), *Alstonia constricta* (2%), *Alyxia ruscifolia* (1, 2%), *Angophora leiocarpa* (2%), *Archidendropsis basaltica* (2%), *Atalaya hemiglauca* (1, 2%), *Boronia duiganiae* (2%), *Boronia forsteri* (2%), *Brachychiton populneus* (2%), *Brachychiton populneus* subsp. *trilobus* (2%), *Bursaria spinosa* subsp. *spinosa* (2, 2%), *Callitris endlicheri* (2%), *Capparis lasiantha* (2%), *Capparis mitchellii* (2%), *Cassia brewsteri* (2, 2%), *Corymbia citriodora* subsp. *citriodora* (6, 2%), *Corymbia erythrophloia* (2%), *Corymbia hendersonii* (2, 2%), *Corymbia watsoniana* subsp. *capillata* (14, 2%), *Corymbia watsoniana* subsp. *watsoniana* (2%), *Daviesia filipes* (2%), *Denhamia disperma* (2%), *Dodonaea viscosa* (1, 2%), *Erythroxylum ellipticum* (1, 2%), *Eucalyptus decorticans* (2%), *Eucalyptus tereticornis* (3, 2%), *Ficus opposita* (2%), *Geijera parviflora* (3, 2%), *Grevillea floribunda* subsp. *floribunda* (2%), *Grevillea longistyla* (2%), *Hakea lorea* subsp. *lorea* (1, 2%), *Hibiscus divaricatus* (2%), *Hovea lorata* (2, 2%), *Indigofera pratensis* (2%), *Jasminum didymum* subsp. *racemosum* (2%), *Lysicarpus angustifolius* (2%), *Macrozamia fearnsidei* (2%), *Melaleuca decora* (2%), *Melaleuca salicina* (2%), *Melichrus* sp. (*Isle Gorge P. Sharpe*+ 601) (2%), *Melichrus urceolatus* (1, 2%), *Myrtaceae* *indet.* (2, 2%), *Notelaea microcarpa* (2%), *Pandorea pandorana* (2%), *Persoonia sericea* (2%), *Persoonia subtilis* (2%), *Phyllanthus virgatus* (2%), *Psydrax odorata* (2%), *Pultenaea microphylla* (1, 2%), *Pultenaea spinosa* (2%), *Rubus parvifolius* (2%), *Santalum lanceolatum* (1, 2%), *Seringia corollata* (2%), *Stephania japonica* (2%), *Xanthorrhoea johnsonii* (5, 2%), *Zieria aspalathoides* subsp. *aspalathoides* (2%)

**Stratum: Shrub 2**

Height avg. = 1.8m, range 0.5-3m, 12 sites

Crown cover avg. = 7.2%, range 0.0-37.0%, 18 sites

Frequent species (cover, frequency): *Acacia leiocalyx* subsp. *leiocalyx* (3, 13%), *Alphitonia excelsa* (1, 9%), *Corymbia citriodora* subsp. *variegata* (1, 9%), *Jacksonia scoparia* (8, 9%), *Eucalyptus crebra* (2, 8%), *Petalostigma pubescens* (2, 6%), *Acacia crassa* subsp. *crassa* (1, 4%), *Acacia crassa* subsp. *longicoma* (1, 4%), *Callitris glaucophylla* (4%), *Eucalyptus fibrosa* subsp. *nubilis* (4%), *Acacia complanata* (5, 2%), *Acacia cretata* (12, 2%), *Acacia leichhardtii* (2%), *Acacia penninervis* var. *penninervis* (2%), *Allocasuarina luehmannii* (5, 2%), *Angophora leiocarpa* (2%), *Breynia oblongifolia* (2%), *Capparis canescens* (1, 2%), *Commersonia leichhardtii* (2, 2%), *Corymbia clarksoniana* (3, 2%), *Corymbia watsoniana* subsp. *capillata* (2%), *Denhamia cunninghamii* (1, 2%), *Eucalyptus cloeziana* (3, 2%), *Exocarpos cupressiformis* (1, 2%), *Hibbertia linearis* var. *obtusifolia* (2%), *Hibiscus meraukensis* (1, 2%), *Hovea lorata* (2%), *Leptospermum lamellatum* (1, 2%), *Persoonia falcata* (2%), *Pterocaulon redolens* (1, 2%), *Sphaeromorphaea* *indet.* (1, 2%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus



**Stratum: Ground**

Height avg. = 0.4m, range 0.1-1m, 39 sites

PFC avg. = 24.3%, range 1-80%, 46 sites

*Dominant species (relative cover, frequency):* *Cleistochloa subjuncea* (23, 22%), *Aristida indet.* (16, 24%), *Eremochloa bimaculata* (15, 41%), *Arundinella nepalensis* (12, 43%), *Themeda triandra* (11, 33%)

*Frequent species (cover, frequency):* GRAMINOIDS: *Panicum effusum* (1, 59%), *Cymbopogon refractus* (2, 57%), *Arundinella nepalensis* (4, 43%), *Eremochloa bimaculata* (3, 41%), *Themeda triandra* (3, 33%), *Entolasia stricta* (1, 28%), *Fimbristylis dichotoma* (28%), *Aristida caput-medusae* (1, 26%), *Scleria sphacelata* (1, 26%), *Aristida indet.* (2, 24%), *Eragrostis elongata* (2, 24%), *Aristida ramosa* (1, 22%), *Cleistochloa subjuncea* (4, 22%), *Aristida queenslandica* (1, 20%), *Cyperus gracilis* (2, 20%), *Heteropogon contortus* (4, 20%), *Digitaria diffusa* (1, 17%), *Digitaria indet.* (17%), *Scleria mackaviensis* (1, 17%), *Chrysopogon fallax* (2, 15%), *Paspalidium criniforme* (4, 15%), *Digitaria breviglumis* (2, 13%), *Eulalia aurea* (3, 13%), *Setaria surgens* (1, 13%), *Sporobolus elongatus* (1, 13%), *Aristida calycina* var. *calycina* (2, 11%), *Aristida queenslandica* var. *queenslandica* (3, 11%), *Bothriochloa decipiens* var. *decipiens* (2, 11%), *Melinis repens*\* (19, 11%), *Aristida jerichoensis* var. *jerichoensis* (9%), *Aristida leichhardtiana* (9%), *Aristida personata* (1, 9%), *Bothriochloa decipiens* (2, 9%), *Chloris ventricosa* (9%), *Eragrostis brownii* (1, 9%), *Eragrostis leptostachya* (9%), *Gahnia aspera* (1, 9%), *Lepidosperma laterale* (9%), *Paspalidium gracile* (9%), *Sporobolus creber* (1, 9%), *Abildgaardia ovata* (7%), *Aristida jerichoensis* (7%), *Aristida queenslandica* var. *dissimilis* (2, 7%), *Aristida vagans* (1, 7%), *Cenchrus ciliaris*\* (3, 7%), *Cymbopogon ambiguus* (9, 7%), *Cyperus fulvus* (7%), *Enneapogon lindleyanus* (1, 7%), *Eragrostis lacunaria* (7%), *Eragrostis sororia* (7%), *Imperata cylindrica* (13, 7%), *Perotis rara* (1, 7%)

FORBS: *Cyanthillium cinereum* (59%), *Brunoniella australis* (57%), *Lomandra multiflora* subsp. *multiflora* (43%), *Phyllanthus virgatus* (35%), *Dianella longifolia* (33%), *Acacia leiocalyx* subsp. *leiocalyx* (2, 30%), *Goodenia delicata* (30%), *Chrysocephalum apiculatum* (28%), *Dianella revoluta* (28%), *Rostellularia adscendens* (28%), *Desmodium rhytidophyllum* (26%), *Laxmannia gracilis* (26%), *Evolvulus alsinoides* (24%), *Lomandra filiformis* (1, 24%), *Alphitonia excelsa* (1, 22%), *Cheilanthes sieberi* subsp. *sieberi* (22%), *Desmodium brachypodum* (22%), *Lomandra confertifolia* subsp. *pallida* (22%), *Lomandra longifolia* (1, 20%), *Desmodium varians* (17%), *Glossocardia bidens* (17%), *Goodenia rotundifolia* (17%), *Sida atherophora* (17%), *Calotis dentex* (15%), *Cheilanthes distans* (15%), *Corymbia citriodora* subsp. *variegata* (15%), *Eremophila debilis* (15%), *Hibiscus sturtii* (15%), *Sida hackettiana* (15%), *Spermacoce brachystema* (15%), *Denhamia cunninghamii* (13%), *Eustrephus latifolius* (13%), *Hardenbergia violacea* (13%), *Spermacoce indet.* (13%), *Cassinia laevis* (11%), *Cheilanthes sieberi* (11%), *Glycine tabacina* (11%), *Indigofera australis* (11%), *Polygala triflora* (11%), *Solanum nemophilum* (1, 11%), *Zornia muriculata* (11%), *Brennia oblongifolia* (9%), *Capparis canescens* (9%), *Coelospermum reticulatum* (9%), *Commelina diffusa* (9%), *Euphorbia dallachyana* (9%), *Glycine clandestina* (1, 9%), *Goodenia glabra* (9%), *Marsdenia microlepis* (9%), *Marsdenia viridiflora* (9%), *Oxalis indet.* (9%), *Petalostigma pubescens* (9%), *Pomax umbellata* (9%), *Pseuderanthemum variabile* (9%), *Sauropus hirtellus* (9%), *Solanum ellipticum* (9%), *Tricoryne elatior* (9%), *Xanthorrhoea johnsonii* (2, 9%), *Allocasuarina inophloia* (7%), *Allocasuarina luehmannii* (1, 7%), *Alternanthera nana* (7%), *Asteraceae indet.* (7%), *Dianella brevipedunculata* (7%), *Dianella caerulea* (7%), *Dodonaea triangularis* (7%), *Galactia tenuiflora* (7%), *Goodenia* sp. (Mt Castletower M.D.Crisp 2753) (7%), *Grewia latifolia* (7%), *Hibbertia stricta* (7%), *Indigofera pratensis* (7%), *Lysicarpus angustifolius* (2, 7%), *Murdannia graminea* (7%), *Opuntia stricta*\* (7%), *Phyllanthus indet.* (7%), *Seringia corollata* (7%), *Vittadinia sulcata* (7%)

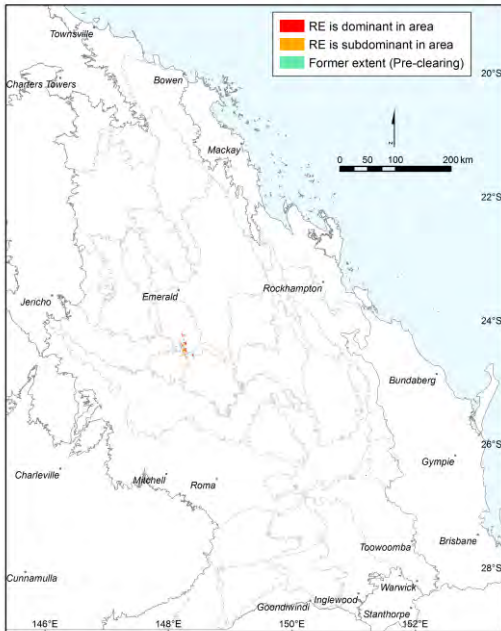
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**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Corymbia watsoniana +/- C. citriodora, +/- C. trachyphloia +/- C. hendersonii woodland**



**Pre-clearing area (ha), remnant area (ha) and per cent remaining:** 9,522      7,350      77%

**Species recorded:** Total: 137; woody: 53; ground: 95; Avg. spp./site: 32.8; std dev.: 7.1, 6 site(s)

**Basal area:** Avg./site: 11.6 m<sup>2</sup>/ha, range: 6.5 - 25 m<sup>2</sup>/ha, std. deviation: 7 m<sup>2</sup>/ha, 6 site(s)

**Structural formation:** Woodland: 83%; open-forest: 17%, 6 site(s)

**Representative sites** 24566, 24687, 24705, 24727, 28926, 59154.

**Stratum: Tree 1**

**Height avg. = 19.9m, range 14-26m, 6 sites**  
**Crown cover avg. = 39.0%, range 25.0-73.3%, 6 sites**

*Dominant species (relative cover, frequency): Corymbia citriodora (44, 33%), Corymbia watsoniana subsp. watsoniana (43, 50%), Corymbia trachyphloia (30, 33%), Corymbia hendersonii (27, 33%), Eucalyptus tenuipes (25, 33%)*

*Frequent species (cover, frequency): Corymbia watsoniana subsp. watsoniana (12, 50%), Lysicarpus angustifolius (14, 50%), Corymbia citriodora (20, 33%), Corymbia hendersonii (6, 33%), Corymbia trachyphloia (21, 33%), Eucalyptus tenuipes (9, 33%), Corymbia citriodora subsp. variegata (15, 17%), Corymbia erythrophloia (1, 17%), Corymbia watsoniana (4, 17%), Eucalyptus baileyana (6, 17%), Eucalyptus crebra (17%), Eucalyptus melanophloia (5, 17%), Eucalyptus tholiformis (4, 17%)*

**Stratum: Tree 2**

**Height avg. = 12.4m, range 7-18m, 5 sites**  
**Crown cover avg. = 13.2%, range 2.0-28.0%, 5 sites**

*Dominant species (relative cover, frequency): Lysicarpus angustifolius (43, 33%), Corymbia trachyphloia (26, 33%)*

*Frequent species (cover, frequency): Corymbia trachyphloia (4, 33%), Lysicarpus angustifolius (5, 33%), Allocasuarina inophloia (4, 17%), Corymbia erythrophloia (17%), Corymbia hendersonii (2, 17%), Corymbia watsoniana subsp. capillata (8, 17%), Corymbia watsoniana subsp. watsoniana (17%), Eucalyptus tenuipes (4, 17%)*

**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Shrub 1**

Height avg. = 3.4m, range 2-5m, 6 sites

Crown cover avg. = 6.9%, range 2.0-15.0%, 6 sites

Dominant species (relative cover, frequency): *Acacia crassa* subsp. *longicoma* (63, 33%), *Acacia longispicata* (38, 50%), *Lysicarpus angustifolius* (22, 50%), *Xylomelum cunninghamianum* (17, 33%), *Corymbia hendersonii* (17, 33%)

Frequent species (cover, frequency): *Acacia longispicata* (2, 50%), *Lysicarpus angustifolius* (50%), *Acacia crassa* subsp. *longicoma* (6, 33%), *Alphitonia excelsa* (1, 33%), *Breynia oblongifolia* (33%), *Corymbia hendersonii* (1, 33%), *Eucalyptus tenuipes* (1, 33%), *Jacksonia scoparia* (1, 33%), *Xylomelum cunninghamianum* (1, 33%), *Abutilon oxycarpum* (17%), *Acacia angusta* (17%), *Acacia bancroftiorum* (17%), *Acacia burrowii* (17%), *Acacia leiocalyx* subsp. *leiocalyx* (17%), *Capparis canescens* (17%), *Corymbia citriodora* subsp. *variegata* (17%), *Corymbia erythrophloia* (17%), *Corymbia trachyphloia* (17%), *Corymbia watsoniana* subsp. *capillata* (17%), *Corymbia watsoniana* subsp. *watsoniana* (1, 17%), *Denhamia cunninghamii* (17%), *Eucalyptus baileyana* (1, 17%), *Eucalyptus tholiformis* (16, 17%), *Grevillea striata* (1, 17%), *Hakea lorea* subsp. *lorea* (17%), *Hibiscus sturtii* (17%), *Jasminum didymum* subsp. *lineare* (17%), *Leptospermum lamellatum* (17%), *Opuntia tomentosa*\* (17%), *Parsonia eucalyptophylla* (17%), *Petalostigma pachyphyllum* (1, 17%), *Petalostigma pubescens* (17%), *Pomaderris lanigera* (17%), *Pultenaea spinosa* (17%)

**Stratum: Shrub 2**

Height avg. = 1.6m, range 1.1-2m, 2 sites

Crown cover avg. = 17.5%, range 10.0-25.0%, 2 sites

Frequent species (cover, frequency): *Acacia blakei* subsp. *blakei* (17%), *Acacia complanata* (6, 17%), *Acacia crassa* subsp. *longicoma* (17%), *Alphitonia excelsa* (17%), *Brachyloma daphnoides* (17%), *Dodonaea peduncularis* (1, 17%), *Eucalyptus tenuipes* (17%), *Grevillea floribunda* (17%), *Grevillea longistyla* (17%), *Grevillea singuliflora* (17%), *Grevillea whiteana* (17%), *Hakea benthamii* (2, 17%), *Logania albiflora* (17%), *Lysicarpus angustifolius* (17%), *Notelaea* sp. (Barakula A.R.Bean 7553) (10, 17%), *Persoonia sericea* (1, 17%), *Xanthorrhoea johnsonii* (2, 17%), *Xylomelum cunninghamianum* (1, 17%)

**Stratum: Ground**

Height avg. = 4.2m, range 0.2-20m, 5 sites

PFC avg. = 19.5%, range 10-35%, 6 sites

Dominant species (relative cover, frequency): *Themeda triandra* (26, 50%), *Cymbopogon refractus* (26, 50%), *Eremochloa bimaculata* (23, 50%), *Xanthorrhoea johnsonii* (18, 33%), *Entolasia stricta* (18, 33%)

Frequent species (cover, frequency): GRAMINOIDS: *Panicum effusum* (67%), *Cymbopogon refractus* (6, 50%), *Eremochloa bimaculata* (5, 50%), *Themeda triandra* (7, 50%), *Alloteropsis semialata* (1, 33%), *Aristida queenslandica* (33%), *Entolasia stricta* (2, 33%), *Aristida calycina* (17%), *Aristida* indet. (1, 17%), *Aristida jerichoensis* var. *jerichoensis* (1, 17%), *Aristida queenslandica* var. *queenslandica* (17%), *Aristida vagans* (1, 17%), *Arundinella nepalensis* (17%), *Bothriochloa decipiens* (2, 17%), *Calyptochloa gracillima* subsp. *gracillima* (17%), *Caustis pentandra* (4, 17%), *Chrysopogon fallax* (2, 17%), *Cleistochloa subjuncea* (1, 17%), *Cymbopogon oblectus* (17%), *Cyperus fulvus* (17%), *Digitaria diffusa* (17%), *Digitaria diminuta* (1, 17%), *Digitaria* indet. (17%), *Digitaria parviflora* (17%), *Eragrostis brownii* (17%), *Eragrostis elongata* (17%), *Eragrostis* indet. (17%), *Eulalia aurea* (1, 17%), *Fimbristylis dichotoma* (17%), *Heteropogon contortus* (4, 17%), *Panicum simile* (1, 17%), *Schoenus sparteus* (17%), *Sporobolus elongatus* (1, 17%)

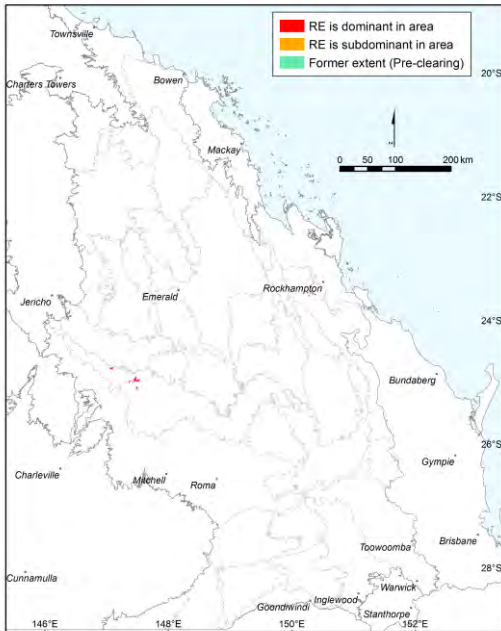
FORBS: *Cyanthillium cinereum* (67%), *Brunoniella australis* (50%), *Desmodium rhytidophyllum* (50%), *Evolvulus alsinoides* (50%), *Goodenia rotundifolia* (50%), *Lomandra filiformis* (1, 50%), *Lomandra multiflora* subsp. *multiflora* (50%), *Phyllanthus virgatus* (50%), *Calotis dentex* (33%), *Cheilanthes sieberi* subsp. *sieberi* (33%), *Dianella longifolia* (33%), *Dianella revoluta* (33%), *Glycine clandestina* (33%), *Goodenia delicata* (33%), *Indigofera australis* (33%), *Lomandra confertifolia* subsp. *pallida* (33%), *Lomandra leucocephala* (33%), *Persoonia subtilis* (33%), *Pomax umbellata* (33%), *Xanthorrhoea johnsonii* (5, 33%), *Acacia blakei* subsp. *blakei* (17%), *Acacia salicina* (1, 17%), *Alphitonia excelsa* (17%), *Boronia forsteri* (17%), *Brunoniella acaulis* (17%), *Caladenia carnea* (17%), *Callitris glaucophylla* (17%), *Chamaecrista absus* var. *absus* (1, 17%), *Chrysocephalum apiculatum* (17%), *Corymbia watsoniana* subsp. *capillata* (17%), *Corymbia watsoniana* subsp. *watsoniana* (2, 17%), *Desmodium varians* (17%), *Dianella brevipedunculata* (17%), *Dianella* indet. (17%), *Dianella nervosa* (17%), *Dianella rara* (17%), *Dodonaea peduncularis* (17%), *Eucalyptus tenuipes* (3, 17%), *Galactia tenuiflora* (17%), *Goodenia bellidifolia* subsp. *argentea* (17%), *Grewia latifolia* (17%), *Hibbertia stricta* (17%), *Hovea tholiformis* (17%), *Indigofera linnaei* (17%), *Laxmannia gracilis* (17%), *Leptospermum lamellatum* (17%), *Lomandra* indet. (17%), *Lysicarpus angustifolius* (17%), *Macrozamia fearnsidei* (17%), *Melhantha oblongifolia* (17%), *Melichrus* sp. (Isla Gorge P.Sharpe+ 601) (17%), *Oxalis perennans* (17%), *Patersonia sericea* var. *sericea* (17%), *Persoonia falcata* (1, 17%), *Phyllanthus* indet. (17%), *Spermacoce multicaulis* (17%), *Stylidium eriorhizum* (17%), *Tephrosia brachyodon* (17%), *Tricoryne elatior* (17%), *Xylomelum cunninghamianum* (17%), *Zornia muriculata* (17%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Eucalyptus crebra woodland**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 9,057 8,610 95%

Species\_recorded: Total: 86; woody: 29; ground: 62; Avg. spp./site: 29.0; std dev.: 9.8, 3 site(s)

Basal area: Avg./site: 7.3 m<sup>2</sup>/ha, range: 5.0 - 10 m<sup>2</sup>/ha, std. deviation: 2 m<sup>2</sup>/ha, 4 site(s)

Structural formation: Woodland: 40%; open-woodland: 20%; open-forest: 20%; low open-woodland: 20%, 5 site(s)

Representative\_sites 14579, 14671, 17039, 17444, 17549.

**Stratum: Emergent**

Height avg. = 22.5m, range 20-25m, 2 sites

Crown cover avg. = 3.0%, range 2.0-4.0%, 2 sites

Frequent species (cover, frequency): *Eucalyptus crebra* (4, 20%), *Eucalyptus suffulgens* (2, 20%)

**Stratum: Tree 1**

Height avg. = 13.2m, range 8-18m, 5 sites

Crown cover avg. = 23.0%, range 8.0-49.0%, 5 sites

Dominant species (relative cover, frequency): *Eucalyptus crebra* (99, 60%), *Lysicarpus angustifolius* (1, 40%)

Frequent species (cover, frequency): *Eucalyptus crebra* (19, 60%), *Lysicarpus angustifolius* (40%), *Acacia rhodoxylon* (49, 20%), *Corymbia citriodora* (20%), *Corymbia dallachiana* (1, 20%), *Corymbia trachyphloia* subsp. *trachyphloia* (20%), *Eucalyptus panda* (8, 20%)

**Stratum: Tree 2**

Height avg. = 7.0m, range 4-10m, 2 sites

Crown cover avg. = 9.5%, range 3.0-16.0%, 2 sites

Frequent species (cover, frequency): *Corymbia erythrophloia* (8, 20%), *Eucalyptus crebra* (8, 20%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

## Technical Description

Regional ecosystem: 11.10.1d

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### Stratum: Tree 3

Height avg. = 5.0m, 1 site

Crown cover avg. = 3.0%, 1 site

*Frequent species (cover, frequency): Corymbia erythrophloia (2, 20%), Eucalyptus crebra (2, 20%)*

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### Stratum: Shrub 1

Height avg. = 2.3m, range 1-5m, 5 sites

Crown cover avg. = 15.4%, range 3.0-60.0%, 5 sites

*Dominant species (relative cover, frequency): Alphitonia excelsa (17, 40%)*

*Frequent species (cover, frequency): Alphitonia excelsa (4, 40%), Acacia bancroftiorum (60, 20%), Acacia excelsa (1, 20%), Acacia leiocalyx subsp. leiocalyx (1, 20%), Acacia rhodoxylon (3, 20%), Brachychiton australis (20%), Cerbera dumicola (2, 20%), Corymbia erythrophloia (2, 20%), Dodonaea peduncularis (1, 20%), Erythroxylum australe (20%), Eucalyptus crebra (2, 20%), Eucalyptus panda (2, 20%), Grevillea striata (1, 20%), Hakea lorea (1, 20%), Hibiscus sturtii (1, 20%), Petalostigma pubescens (3, 20%), Solanum jucundum (20%)*

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### Stratum: Shrub 2

Height avg. = 1.3m, range 0.5-2.5m, 3 sites

Crown cover avg. = 2.0%, range 1.0-3.0%, 3 sites

*Frequent species (cover, frequency): Alyxia ruscifolia (1, 20%), Capparis canescens (1, 20%), Carissa ovata (1, 20%), Cycas megacarpa (2, 20%), Erythroxylum australe (1, 20%), Graptophyllum ilicifolium (1, 20%), Grewia latifolia (1, 20%), Psydrax oleifolia (1, 20%)*

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### Stratum: Ground

Height avg. = 0.4m, range 0.25-0.5m, 3 sites

PFC avg. = 18.7%, range 6-30%, 3 sites

*Dominant species (relative cover, frequency): Eremochloa bimaculata (26, 33%), Paspalidium albobillosum (24, 33%), Boronia bipinnata (24, 33%), Aristida calycina (15, 33%), Peripleura bicolor (15, 33%)*

*Frequent species (cover, frequency): GRAMINOIDS: Cleistochloa subjuncea (1, 67%), Digitaria parviflora (1, 67%), Eragrostis sororia (1, 67%), Panicum effusum (1, 67%), Aristida benthamii (5, 33%), Aristida calycina (3, 33%), Aristida personata (33%), Calyptochloa gracillima subsp. gracillima (1, 33%), Cymbopogon bombycinus (2, 33%), Cymbopogon refractus (33%), Eragrostis longipedicellata (33%), Eremochloa bimaculata (9, 33%), Eriachne rara (1, 33%), Heteropogon contortus (33%), Melinis repens\* (33%), Paspalidium albobillosum (2, 33%), Paspalidium gracile (2, 33%), Scleria sphacelata (33%), Setaria surgens (33%), Themeda triandra (33%), Triodia mitchellii (5, 33%), Urochloa gilesii (33%)  
FORBS: Dianella revoluta (67%), Lomandra confertifolia subsp. pallida (67%), Acacia buxifolia subsp. pubiflora (1, 33%), Acacia rhodoxylon (33%), Alphitonia excelsa (33%), Boronia bipinnata (2, 33%), Calotis cuneifolia (33%), Cassinia laevis (33%), Cheilanthes distans (33%), Eucalyptus exserta (33%), Evolvulus alsinoides (33%), Goodenia rotundifolia (33%), Goodenia sp. (Mt Castletower M.D.Crisp 2753) (33%), Homoranthus indet. (3, 33%), Hypericum gramineum (3, 33%), Laxmannia compacta (1, 33%), Laxmannia gracilis (33%), Leucopogon indet. (1, 33%), Lomandra filiformis (2, 33%), Malvastrum americanum var. americanum\* (1, 33%), Marsdenia microlepis (33%), Marsdenia viridiflora (33%), Opuntia tomentosa\* (33%), Peripleura bicolor (3, 33%), Phyllanthus indet. (33%), Plectranthus parviflorus (33%), Prostanthera sp. (Baking Board V.Hando 135) (33%), Psydrax odorata (33%), Pterocaulon redolens (33%), Sclerolaena birchii (33%), Seringia corollata (33%), Solanum stelligerum (33%), Sphaeromorphaea indet. (33%), Thryptomene parviflora (3, 33%), Waltheria indica (33%), Xanthorrhoea johnsonii (2, 33%)*

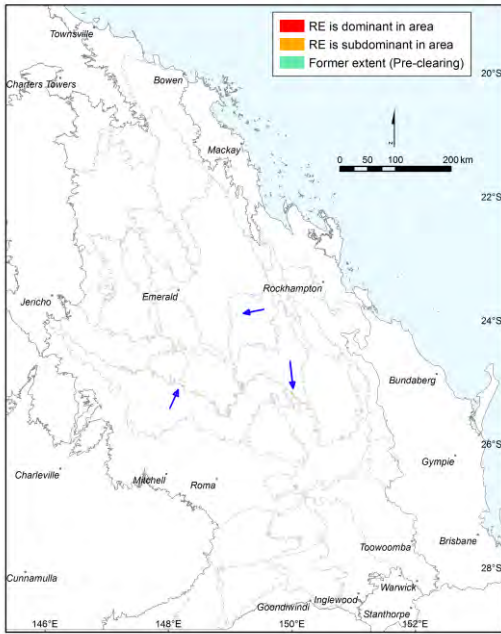
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Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

Open forest in sheltered gorges on coarse-grained sedimentary rocks



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 1,443 1,387 96%

Species\_recorded: Total: 72; woody: 26; ground: 46; Avg. spp./site: 36.0; std dev.: 0.0, 1 site(s)

Basal area: Avg./site: 11.5 m<sup>2</sup>/ha, range: 5.0 - 18 m<sup>2</sup>/ha, std. deviation: 7 m<sup>2</sup>/ha, 2 site(s)

Structural formation: Woodland: 100%, 2 site(s)

Representative\_sites 17020, 28929.

**Stratum: Emergent**

Height avg. = 24.0m, 1 site

Crown cover avg. = 5.0%, 1 site

Dominant species (relative cover, frequency): *Corymbia citriodora* (58, 50%), *Corymbia aureola* (38, 50%), *Pleiogynium timorense* (4, 50%)

Frequent species (cover, frequency): *Corymbia aureola* (2, 50%), *Corymbia citriodora* (3, 50%), *Pleiogynium timorense* (50%)

**Stratum: Tree 1**

Height avg. = 16.0m, range 10-22m, 2 sites

Crown cover avg. = 27.4%, range 24.7-30.0%, 2 sites

Dominant species (relative cover, frequency): *Eucalyptus longirostrata* (82, 50%), *Acacia rhodoxylon* (46, 50%), *Ficus rubiginosa* (31, 50%), *Syncarpia glomulifera subsp. glomulifera* (23, 50%), *Angophora floribunda* (15, 50%)

Frequent species (cover, frequency): *Acacia rhodoxylon* (15, 50%), *Angophora floribunda* (3, 50%), *Eucalyptus crebra* (50%), *Eucalyptus longirostrata* (16, 50%), *Eucalyptus melanophloia* (1, 50%), *Eucalyptus tereticornis* (50%), *Ficus rubiginosa* (10, 50%), *Syncarpia glomulifera subsp. glomulifera* (8, 50%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Tree 2**

Height avg. = 6.3m, range 2.5-10m, 2 sites

Crown cover avg. = 7.2%, range 4.4-10.0%, 2 sites

*Dominant species (relative cover, frequency):* *Acacia longispicata* (99, 50%), *Erythroxylum australe* (33, 50%), *Cerbera dumicola* (33, 50%), *Drypetes deplanchei* (11, 50%), *Alphitonia excelsa* (11, 50%)

*Frequent species (cover, frequency):* *Acacia longispicata* (2, 50%), *Acalypha eremorum* (1, 50%), *Alphitonia excelsa* (1, 50%), *Cerbera dumicola* (3, 50%), *Diospyros humilis* (50%), *Drypetes deplanchei* (1, 50%), *Erythroxylum australe* (3, 50%), *Lophostemon suaveolens* (50%)

**Stratum: Shrub 1**

Height avg. = 5.0m, 1 site

Crown cover avg. = 6.9%, range 2.0-11.8%, 2 sites

*Dominant species (relative cover, frequency):* *Acacia leiocalyx subsp. leiocalyx* (73, 50%), *Cerbera dumicola* (45, 50%), *Canavalia papuana* (45, 50%), *Acacia longispicata* (26, 50%), *Breynia oblongifolia* (5, 50%)

*Frequent species (cover, frequency):* *Acacia leiocalyx subsp. leiocalyx* (2, 50%), *Acacia longispicata* (1, 50%), *Alyxia ruscifolia* (50%), *Breynia oblongifolia* (50%), *Canavalia papuana* (2, 50%), *Cerbera dumicola* (2, 50%), *Larsenaikia ochreatea* (50%), *Leptospermum brachyandrum* (50%)

**Stratum: Shrub 2**

Height avg. = 2.0m, 1 site

Crown cover avg. = 2.9%, 1 site

*Dominant species (relative cover, frequency):* *Acacia leiocalyx subsp. leiocalyx* (98, 50%), *Leptospermum brachyandrum* (1, 50%), *Acacia longispicata* (1, 50%)

*Frequent species (cover, frequency):* *Acacia leiocalyx subsp. leiocalyx* (2, 50%), *Acacia longispicata* (50%), *Leptospermum brachyandrum* (50%)

**Stratum: Ground**

Height avg. = 0.5m, 1 site

PFC avg. = 22.0%, 1 site

*Dominant species (relative cover, frequency):* *Aristida indet.* (64, 100%), *Arundinella nepalensis* (21, 100%), *Chrysocephalum apiculatum* (4, 100%)

*Frequent species (cover, frequency):* GRAMINOIDS: *Aristida indet.* (15, 100%), *Arundinella nepalensis* (5, 100%), *Poaceae indet.* (100%)

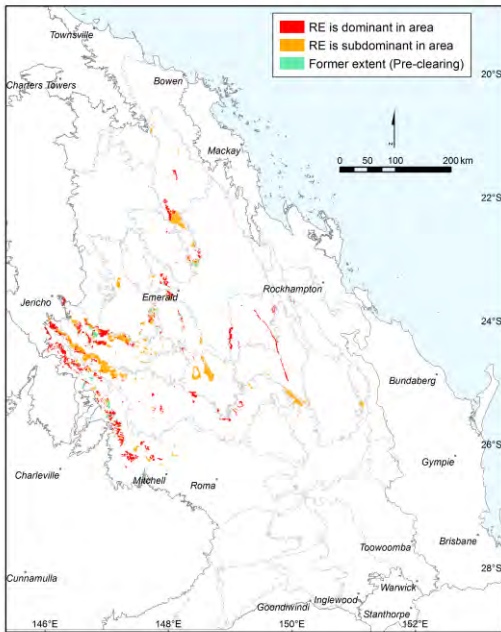
FORBS: *Ajuga australis* (100%), *Brunoniella australis* (100%), *Cassinia laevis* (100%), *Centella asiatica* (100%), *Cheilanthes distans* (100%), *Cheilanthes sieberi subsp. sieberi* (100%), *Chrysocephalum apiculatum* (1, 100%), *Clematis glycinoides* (100%), *Dichondra repens* (100%), *Einadia nutans* (100%), *Glossocardia bidens* (100%), *Glycine tabacina* (100%), *Goodenia glabra* (100%), *Haloragis heterophylla* (100%), *Hypericum gramineum* (100%), *Lagenophora gracilis* (100%), *Oxalis indet.* (100%), *Plantago debilis* (100%), *Rostellularia adscendens* (100%), *Rubus parvifolius* (100%), *Viola betonicifolia subsp. betonicifolia* (100%), *Wahlenbergia gracilis* (100%), *Wahlenbergia queenslandica* (100%)

**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Acacia catenulata or A. shirleyi open forest on coarse-grained sedimentary rocks. Crests and scarps**



Annie Kelly

**Pre-clearing area (ha), remnant area (ha) and per cent remaining:** 377,414 332,222 88%

**Species recorded:** Total: 234; woody: 62; ground: 189; Avg. spp./site: 24.5; std dev.: 7.8, 15 site(s)

**Basal area:** Avg./site: 17.7 m<sup>2</sup>/ha, range: 3.0 - 37 m<sup>2</sup>/ha, std. deviation: 8 m<sup>2</sup>/ha, 26 site(s)

**Structural formation:** Open-forest: 54%; woodland: 31%; open-woodland: 12%; low open-forest: 4%, 26 site(s)

**Representative sites** 2098, 16302, 16784, 16921, 16972, 17019, 17048, 17159, 17162, 17169, 17197, 17215, 17284, 17384, 17546, 19021, 19146, 28766, 28769, 28771, 28779, 28781, 28789, 28793, 28921, 54094.

**Stratum: Emergent**

**Height avg. = 19.4m, range 11-25m, 9 sites**

**Crown cover avg. = 3.2%, range 0.0-5.0%, 9 sites**

*Dominant species (relative cover, frequency): Eucalyptus crebra (57, 23%)*

*Frequent species (cover, frequency): Eucalyptus crebra (1, 23%), Corymbia citriodora (3, 12%), Eucalyptus suffulgens (3, 8%), Eucalyptus tholiformis (4%), Eucalyptus thozetiana (3, 4%)*

**Stratum: Tree 1**

**Height avg. = 15.3m, range 8-19m, 26 sites**

**Crown cover avg. = 47.9%, range 15.0-85.6%, 26 sites**

*Dominant species (relative cover, frequency): Acacia shirleyi (75, 92%), Eucalyptus crebra (37, 35%)*

*Frequent species (cover, frequency): Acacia shirleyi (40, 92%), Eucalyptus crebra (10, 35%), Callitris glaucophylla (2, 8%), Corymbia leichhardtii (6, 8%), Eucalyptus tenuipes (7, 8%), Eucalyptus tholiformis (32, 8%), Acacia catenulata (4%), Acacia rhodoxylon (24, 4%), Coelospermum reticulatum (4%), Corymbia aureola (3, 4%), Corymbia clarksoniana (14, 4%), Corymbia hendersonii (6, 4%), Corymbia trachyphloia (21, 4%), Eucalyptus decorticans (30, 4%), Eucalyptus exserta (4%), Eucalyptus melanophloia (4%), Eucalyptus thozetiana (10, 4%)*

**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus



**Stratum: Tree 2**

Height avg. = 7.4m, range 4-11m, 14 sites

Crown cover avg. = 11.9%, range 1.0-55.0%, 16 sites

Dominant species (relative cover, frequency): *Acacia shirleyi* (75, 46%)

Frequent species (cover, frequency): *Acacia shirleyi* (11, 46%), *Erythroxylum sp.* (*Splityard Creek L.Pedley 5360*) (1, 8%), *Lysicarpus angustifolius* (6, 8%), *Acacia leiocalyx subsp. leiocalyx* (1, 4%), *Alstonia constricta* (4%), *Corymbia clarksoniana* (1, 4%), *Corymbia leichhardtii* (4%), *Croton insularis* (20, 4%), *Eucalyptus crebra* (1, 4%), *Eucalyptus tenuipes* (4%), *Eucalyptus tholiformis* (4%), *Eucalyptus thozetiana* (2, 4%), *Hibiscus heterophyllus* (4%), *Leptospermum lamellatum* (4%), *Melaleuca tamariscina* (1, 4%), *Psyrdrax forsteri* (1, 4%)

**Stratum: Tree 3**

Height avg. = 3.8m, range 3-4.5m, 2 sites

Crown cover avg. = 6.7%, range 2.0-12.0%, 3 sites

Frequent species (cover, frequency): *Acacia shirleyi* (2, 8%), *Lysicarpus angustifolius* (2, 8%), *Alstonia constricta* (1, 4%), *Bursaria incana* (2, 4%), *Corymbia clarksoniana* (1, 4%), *Erythroxylum australe* (1, 4%), *Petalostigma pubescens* (10, 4%)

**Stratum: Shrub 1**

Height avg. = 2.3m, range 0.5-6m, 21 sites

Crown cover avg. = 7.6%, range 0.0-45.0%, 22 sites

Dominant species (relative cover, frequency): *Acacia shirleyi* (37, 35%), *Alphitonia excelsa* (35, 42%)

Frequent species (cover, frequency): *Alphitonia excelsa* (2, 42%), *Acacia shirleyi* (2, 35%), *Alstonia constricta* (19%), *Erythroxylum sp.* (*Splityard Creek L.Pedley 5360*) (2, 19%), *Erythroxylum australe* (4, 15%), *Bertya opponens* (19, 8%), *Hovea lanceolata* (8%), *Psyrdrax johnsonii* (4, 8%), *Acacia complanata* (4%), *Acacia crassa* (1, 4%), *Acacia flavescens* (4%), *Acacia leiocalyx subsp. leiocalyx* (4%), *Acacia leptostachya* (4%), *Acacia longispicata* (4%), *Acacia rhodoxylon* (2, 4%), *Boronia duiganiae* (2, 4%), *Callitris glaucophylla* (8, 4%), *Capparis canescens* (4%), *Cassinia laevis* (4%), *Clematicissus opaca* (4%), *Corymbia trachyphloia* (5, 4%), *Corymbia trachyphloia subsp. trachyphloia* (4%), *Eremophila bignoniiflora* (4%), *Eucalyptus crebra* (1, 4%), *Eucalyptus decorticans* (4%), *Eucalyptus tholiformis* (4%), *Eucalyptus thozetiana* (1, 4%), *Everistia vacciniifolia* (4%), *Geijera parviflora* (4%), *Grevillea sessilis* (1, 4%), *Grevillea striata* (4%), *Hibiscus heterophyllus* (4%), *Hibiscus meraukensis* (4%), *Labichea nitida* (3, 4%), *Leptospermum lamellatum* (4%), *Lysicarpus angustifolius* (1, 4%), *Melaleuca tamariscina* (5, 4%), *Olearia xerophila* (4%), *Pandorea pandorana* (4%), *Parsonsia straminea* (1, 4%), *Petalostigma pubescens* (4%), *Phebalium nottii* (6, 4%), *Philotheca difformis subsp. difformis* (4%), *Psyrdrax forsteri* (1, 4%), *Psyrdrax oleifolia* (4%), *Solanum mitchellianum* (1, 4%), *Terminalia oblongata subsp. oblongata* (4%), *Westringia indet.* (4%)

**Stratum: Shrub 2**

Height avg. = 1.0m, 1 site

Crown cover avg. = 2.0%, 1 site

Frequent species (cover, frequency): *Acacia rhodoxylon* (2, 4%), *Larsenaikia ochreatea* (1, 4%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Ground**

Height avg. = 0.3m, range 0.1-0.5m, 15 sites

PFC avg. = 34.2%, range 10-85%, 15 sites

Dominant species (relative cover, frequency): *Cleistochloa subjuncea* (35, 33%), *Scleria sphacelata* (28, 33%), *Entolasia stricta* (19, 40%), *Eragrostis lacunaria* (13, 40%), *Thyridolepis xerophila* (12, 33%)

Frequent species (cover, frequency): GRAMINOIDS: *Aristida caput-medusae* (1, 60%), *Panicum effusum* (53%), *Aristida queenslandica* var. *dissimilis* (2, 47%), *Entolasia stricta* (4, 40%), *Eragrostis lacunaria* (4, 40%), *Cleistochloa subjuncea* (11, 33%), *Scleria sphacelata* (5, 33%), *Thyridolepis xerophila* (3, 33%), *Digitaria parviflora* (2, 27%), *Eragrostis sororia* (1, 27%), *Setaria dielsii* (4, 27%), *Aristida gracilipes* (1, 20%), *Aristida jerichoensis* var. *subspinulifera* (7, 20%), *Cymbopogon refractus* (1, 20%), *Digitaria ramularis* (1, 20%), *Melinis repens*\* (1, 20%), *Paspalidium distans* (2, 20%), *Paspalidium gracile* (4, 20%), *Aristida jerichoensis* var. *jerichoensis* (13%), *Calyptochloa gracillima* subsp. *gracillima* (11, 13%), *Cyperus gracilis* (1, 13%), *Digitaria breviglumis* (2, 13%), *Schoenus kennyi* (13%), *Aristida benthamii* var. *benthamii* (7%), *Aristida calycina* (3, 7%), *Aristida holathera* var. *holathera* (7%), *Aristida indet.* (10, 7%), *Aristida lazardis* (2, 7%), *Aristida lignosa* (1, 7%), *Aristida personata* (7%), *Aristida queenslandica* var. *queenslandica* (1, 7%), *Cyperaceae indet.* (7, 7%), *Cyperus bowmannii* (1, 7%), *Cyperus dietrichiae* var. *brevibracteatus* (2, 7%), *Cyperus indet.* (7%), *Cyperus isabellinus* (7%), *Digitaria fumida* (5, 7%), *Digitaria violascens*\* (7%), *Enneapogon truncatus* (7%), *Eragrostis brownii* (7%), *Eragrostis indet.* (7%), *Eriachne mucronata* (1, 7%), *Gahnia aspera* (7%), *Leptochloa indet.* (7%), *Oplismenus indet.* (70, 7%), *Panicum larcomianum* (7%), *Paspalidium albavillosum* (7%), *Paspalidium criniforme* (7%), *Paspalidium indet.* (2, 7%), *Paspalidium jubiflorum* (7%), *Perotis rara* (7%), *Scleria mackaviensis* (1, 7%), *Setaria surgens* (7%), *Sporobolus scabridus* (7, 7%), *Themeda triandra* (7%), *Triodia pungens* (3, 7%), *Urochloa foliosa* (5, 7%)

FORBS: *Cheilanthes sieberi* (53%), *Solanum ellipticum* (53%), *Alphitonia excelsa* (40%), *Cyanthillium cinereum* (1, 33%), *Hibiscus sturtii* (1, 33%), *Evolvulus alsinoides* (27%), *Goodenia rotundifolia* (27%), *Sida* sp. (*Musselbrook M.B.Thomas+MRS437*) (27%), *Lomandra filiformis* (20%), *Oxalis corniculata*\* (1, 20%), *Acacia shirleyi* (13%), *Calotis cuneifolia* (13%), *Cheilanthes sieberi* subsp. *sieberi* (13%), *Dianella caerulea* (13%), *Goodenia grandiflora* (1, 13%), *Hannafordia shanesii* (1, 13%), *Laxmannia gracilis* (13%), *Parsonia lanceolata* (13%), *Pseuderanthemum variabile* (13%), *Psydrax johnsonii* (1, 13%), *Rostellularia adscendens* (13%), *Rubiaceae indet.* (13%), *Solanum parvifolium* (13%), *Abutilon fraseri* (7%), *Acacia leiocalyx* subsp. *leiocalyx* (7%), *Achyranthes aspera* (7%), *Alstonia constricta* (1, 7%), *Asteraceae indet.* (1, 7%), *Boronia bipinnata* (1, 7%), *Boronia duiganiae* (2, 7%), *Boronia occidentalis* (1, 7%), *Breynia oblongifolia* (7%), *Brunoniella australis* (7%), *Callitris glaucophylla* (1, 7%), *Calotis dentex* (7%), *Cassytha filiformis* (5, 7%), *Coelospermum reticulatum* (7%), *Crotalaria indet.* (7%), *Desmodium rhytidophyllum* (7%), *Dianella indet.* (7%), *Dianella revoluta* (7%), *Dysphania glomulifera* subsp. *glomulifera* (1, 7%), *Eucalyptus brownii* (7%), *Euphorbia drummondii* (7%), *Euphorbia tannensis* (7%), *Galactia tenuiflora* var. *lucida* (7%), *Glycine indet.* (7%), *Goodenia hirsuta* (7%), *Goodenia* sp. (*Mt Castletower M.D.Crisp 2753*) (7%), *Grewia latifolia* (7%), *Hibbertia acicularis* (7%), *Hibiscus indet.* (7%), *Hibiscus meraukensis* (7%), *Hibiscus* sp. (*Emerald S.L.Everist 2124*) (1, 7%), *Leucopogon mitchellii* (7%), *Lomandra confertifolia* subsp. *pallida* (7%), *Lomandra longifolia* (1, 7%), *Lomandra multiflora* subsp. *multiflora* (7%), *Lysicarpus angustifolius* (1, 7%), *Malvastrum americanum* var. *americanum*\* (1, 7%), *Marsdenia microlepis* (7%), *Marsdenia viridiflora* (7%), *Melhania oblongifolia* (7%), *Notelaea indet.* (7%), *Opuntia tomentosa*\* (7%), *Oxalis radicata* (7%), *Parsonia straminea* (7%), *Peripleura bicolor* (7%), *Persoonia amaliae* (7%), *Petalostigma pubescens* (1, 7%), *Phebalium nottii* (3, 7%), *Phyllanthus fuemrohrrii* (1, 7%), *Phyllanthus virgatus* (7%), *Pimelea linifolia* subsp. *linifolia* (7%), *Polianthion minutiflorum* (1, 7%), *Polygala triflora* (7%), *Portulaca pilosa*\* (7%), *Psydrax indet.* (7%), *Pterocaulon serrulatum* (7%), *Ptilotus macrocephalus* (7%), *Senna aciphylla* (7%), *Senna barclayana* (1, 7%), *Seringia collina* (1, 7%), *Sida aprica* var. *aprica* (7%), *Sida atherophora* (1, 7%), *Sida corrugata* (7%), *Sida indet.* (7%), *Sida spinosa*\* (7%), *Sida trichopoda* (7%), *Solanum crebrispinum* (7%), *Solanum galbinum* (7%), *Solanum nemophilum* (7%), *Spermacoce brachystema* (7%), *Sphaeromorphaea indet.* (7%), *Stylidium eriorhizum* (7%), *Tinospora smilacina* (7%), *Trema tomentosa* (7%), *Wahlenbergia communis* (7%), *Waltheria indica* (7%), *Xenostegia tridentata* (7%)

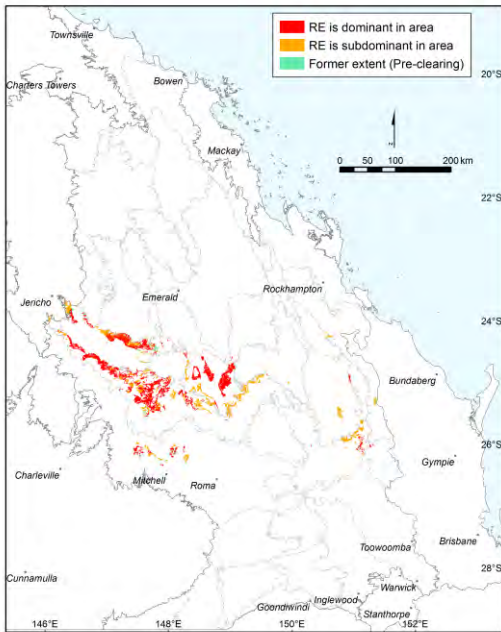
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Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Eucalyptus decorticans, Lysicarpus angustifolius +/- Eucalyptus spp., Corymbia spp., Acacia spp. woodland on coarse-grained sedimentary rocks**



**Pre-clearing area (ha), remnant area (ha) and per cent remaining:** 442,519      425,027      96%

**Species recorded:** Total: 179; woody: 50; ground: 139; Avg. spp./site: 23.1; std dev.: 6.4, 10 site(s)

**Basal area:** Avg./site: 13.9 m<sup>2</sup>/ha, range: 4.5 - 24 m<sup>2</sup>/ha, std. deviation: 5 m<sup>2</sup>/ha, 13 site(s)

**Structural formation:** Woodland: 85%; open-woodland: 15%, 13 site(s)

**Representative sites** 16580, 17190, 17269, 17270, 17289, 17291, 17363, 17532, 24689, 28912, 28915, 30419, 30421.

**Stratum: Tree 1**

**Height avg. = 19.5m, range 16-23m, 13 sites**  
**Crown cover avg. = 30.8%, range 8.0-79.2%, 13 sites**

*Dominant species (relative cover, frequency): Eucalyptus decorticans (82, 54%), Corymbia hendersonii (36, 23%), Corymbia citriodora (21, 23%), Angophora leiocarpa (21, 31%), Lysicarpus angustifolius (12, 23%)*

*Frequent species (cover, frequency): Eucalyptus decorticans (19, 54%), Angophora leiocarpa (5, 31%), Corymbia citriodora (5, 23%), Corymbia hendersonii (17, 23%), Lysicarpus angustifolius (2, 23%), Corymbia trachyphloia subsp. trachyphloia (6, 15%), Eucalyptus cloeziana (8, 15%), Allocasuarina torulosa (8%), Corymbia citriodora subsp. variegata (8%), Corymbia erythrophloia (40, 8%), Eucalyptus chloroclada (8%), Eucalyptus crebra (9, 8%), Eucalyptus fibrosa subsp. nubilis (35, 8%), Eucalyptus major (2, 8%), Eucalyptus suffulgens (15, 8%), Flindersia australis (8%), Notelaea sp. (Barakula A.R.Bean 7553) (8%), Xylomelum cunninghamianum (1, 8%)*

**Stratum: Tree 2**

**Height avg. = 6.7m, range 2.5-13m, 10 sites**  
**Crown cover avg. = 13.1%, range 1.0-30.0%, 11 sites**

*Dominant species (relative cover, frequency): Acacia shirleyi (65, 31%), Acacia bancroftiorum (32, 23%), Lysicarpus angustifolius (14, 23%)*

*Frequent species (cover, frequency): Acacia shirleyi (8, 31%), Acacia bancroftiorum (4, 23%), Lysicarpus angustifolius (23%), Acacia crassa (5, 15%), Acacia indet. (1, 15%), Acacia longispicata (1, 15%), Alphitonia excelsa (2, 15%), Angophora leiocarpa (4, 15%), Corymbia hendersonii (15%), Eucalyptus decorticans (5, 15%), Xylomelum cunninghamianum (1, 15%), Allocasuarina torulosa (8%), Alstonia constricta (1, 8%), Capparis canescens (8%), Corymbia trachyphloia subsp. trachyphloia (13, 8%), Elaeodendron australe var. integrifolium (1, 8%), Eucalyptus crebra (3, 8%), Eucalyptus tenuipes (10, 8%), Exocarpos latifolius (1, 8%), Ficus racemosa (1, 8%), Hibiscus indet. (1, 8%), Leptospermum lamellatum (8%), Petalostigma pubescens (1, 8%)*

**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

## Technical Description

Regional ecosystem: 11.10.4

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### Stratum: Tree 3

Height avg. = 4.2m, range 3.5-5m, 3 sites

Crown cover avg. = 4.0%, range 1.0-10.0%, 3 sites

*Frequent species (cover, frequency):* *Acacia bancroftiorum* (2, 8%), *Acacia crassa* (3, 8%), *Acacia falciformis* (1, 8%), *Acacia indet.* (5, 8%), *Acacia shirleyi* (8%), *Eucalyptus decorticans* (8%)

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### Stratum: Shrub 1

Height avg. = 2.8m, range 1-6m, 6 sites

Crown cover avg. = 10.7%, range 1.0-35.0%, 8 sites

*Dominant species (relative cover, frequency):* *Alphitonia excelsa* (22, 31%)

*Frequent species (cover, frequency):* *Alphitonia excelsa* (31%), *Acacia bancroftiorum* (1, 15%), *Acacia shirleyi* (1, 15%), *Jacksonia scoparia* (3, 15%), *Xylomelum cunninghamianum* (1, 15%), *Acacia complanata* (8%), *Acacia crassa* (5, 8%), *Acacia crassa subsp. crassa* (3, 8%), *Acacia falcata* (9, 8%), *Acacia sparsiflora* (8%), *Acacia uncifera* (8%), *Alstonia constricta* (1, 8%), *Angophora leiocarpa* (1, 8%), *Boronia duiganiae* (8%), *Coelospermum reticulatum* (8%), *Corymbia trachyphloia subsp. trachyphloia* (2, 8%), *Dodonaea lanceolata var. subsessilifolia* (8%), *Eucalyptus fibrosa subsp. nubilis* (8%), *Exocarpos cupressiformis* (8%), *Grewia latifolia* (8%), *Leptospermum polygalifolium* (8%), *Lysicarpus angustifolius* (8%), *Macrozamia fearnsidei* (2, 8%), *Persoonia subtilis* (8%), *Petalostigma pubescens* (8%), *Seringia corollata* (8%), *Xanthorrhoea johnsonii* (8, 8%)

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### Stratum: Shrub 2

Height avg. = 0.7m, 1 site

Crown cover avg. = 4.0%, 1 site

*Frequent species (cover, frequency):* *Acacia falcata* (1, 8%), *Alphitonia excelsa* (3, 8%)

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**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Ground**

Height avg. = 0.4m, range 0.2-1m, 8 sites

PFC avg. = 33.2%, range 15-80%, 10 sites

*Dominant species (relative cover, frequency):* *Cleistochloa subjuncea* (40, 30%), *Arundinella nepalensis* (36, 30%), *Lomandra confertifolia* subsp. *pallida* (24, 30%), *Entolasia stricta* (23, 40%), *Scleria sphacelata* (21, 40%)

*Frequent species (cover, frequency):* GRAMINOIDS: *Panicum effusum* (60%), *Entolasia stricta* (5, 40%), *Scleria sphacelata* (6, 40%), *Arundinella nepalensis* (28, 30%), *Cleistochloa subjuncea* (16, 30%), *Digitaria breviglumis* (1, 30%), *Aristida indet.* (20%), *Aristida queenslandica* (2, 20%), *Cymbopogon obtectus* (2, 20%), *Cyperus bowmannii* (20%), *Melinis repens*\* (20%), *Paspalidium criniforme* (20%), *Scleria mackaviensis* (3, 20%), *Themeda triandra* (20%), *Amphipogon caricinus* (8, 10%), *Aristida calycina* var. *calycina* (3, 10%), *Aristida caput-medusae* (1, 10%), *Aristida contorta* (20, 10%), *Aristida jerichoensis* var. *jerichoensis* (10%), *Aristida personata* (5, 10%), *Aristida queenslandica* var. *dissimilis* (2, 10%), *Aristida spuria* (1, 10%), *Bulbostylis barbata* (10%), *Cymbopogon refractus* (6, 10%), *Cyperus indet.* (10%), *Digitaria indet.* (10%), *Digitaria parviflora* (10%), *Digitaria ramularis* (10%), *Eleocharis indet.* (4, 10%), *Enneapogon lindleyanus* (1, 10%), *Eragrostis elongata* (3, 10%), *Eragrostis lacunaria* (1, 10%), *Eremochloa bimaculata* (2, 10%), *Gahnia aspera* (10%), *Lepidosperma laterale* (10%), *Paspalidium gracile* (1, 10%), *Perotis rara* (3, 10%), *Poaceae indet.* (10%), *Setaria surgens* (2, 10%), *Triodia brizoides* (5, 10%), *Triraphis mollis* (10%)

*FORBS:* *Lomandra multiflora* subsp. *multiflora* (40%), *Dianella longifolia* (30%), *Hibiscus sturtii* (30%), *Lomandra confertifolia* subsp. *pallida* (6, 30%), *Lomandra filiformis* (30%), *Asteraceae indet.* (4, 20%), *Calotis cuneifolia* (20%), *Cheilanthes sieberi* (2, 20%), *Dodonaea triangularis* (20%), *Dysphania carinata* (20%), *Evolvulus alsinoides* (2, 20%), *Hibbertia indet.* (20%), *Murdannia graminea* (20%), *Pomax umbellata* (20%), *Sida* sp. (*Musselbrook M.B.Thomas+ MRS437*) (2, 20%), *Solanum ellipticum* (20%), *Vittadinia pustulata* (20%), *Abutilon oxycarpum* var. *oxycarpum* (10%), *Achyranthes aspera* (10%), *Agiortia pleiosperma* (10%), *Alphitonia excelsa* (10%), *Alstonia constricta* (10%), *Aotus mollis* (10%), *Astrotricha indet.* (10%), *Boerhavia indet.* (10%), *Boronia bipinnata* (10%), *Brunoniella australis* (10%), *Capparis canescens* (10%), *Cheilanthes indet.* (1, 10%), *Cheilanthes sieberi* subsp. *sieberi* (10%), *Chrysocephalum apiculatum* (10%), *Clematicissus opaca* (10%), *Coelospermum reticulatum* (1, 10%), *Comesperma sylvestre* (10%), *Commelina diffusa* (1, 10%), *Dampiera discolor* (10%), *Desmodium rhytidophyllum* (10%), *Dianella caerulea* (10%), *Dianella revoluta* (10%), *Dodonaea peduncularis* (10%), *Dodonaea tenuifolia* (1, 10%), *Dodonaea vestita* (10%), *Einadia nutans* (10%), *Euphorbia drummondii* (10%), *Goodenia indet.* (10%), *Goodenia rotundifolia* (1, 10%), *Goodenia* sp. (*Mt Castletower M.D.Crisp 2753*) (10%), *Hibbertia stricta* var. *hirtiflora* (10%), *Laxmannia gracilis* (10%), *Lomandra longifolia* (10%), *Macrozamia fearnsidei* (3, 10%), *Marsdenia pleiadenia* (10%), *Melichrus* sp. (*Isla Gorge P.Sharpe+ 601*) (10%), *Melichrus urceolatus* (1, 10%), *Nyssanthes erecta* (10%), *Opuntia stricta*\* (10%), *Opuntia tomentosa*\* (10%), *Oxalis radicata* (10%), *Parsonia lanceolata* (10%), *Patersonia indet.* (10%), *Patersonia sericea* var. *sericea* (10%), *Persoonia subtilis* (1, 10%), *Petalostigma pubescens* (10%), *Phebalium squamulosum* subsp. *gracile* (10%), *Philothea ciliata* (10%), *Phyllanthus fuernrohrii* (10%), *Phyllanthus mitchellii* (10%), *Tradescantia fluminensis*\* (10%), *Xanthorrhoea indet.* (2, 10%)

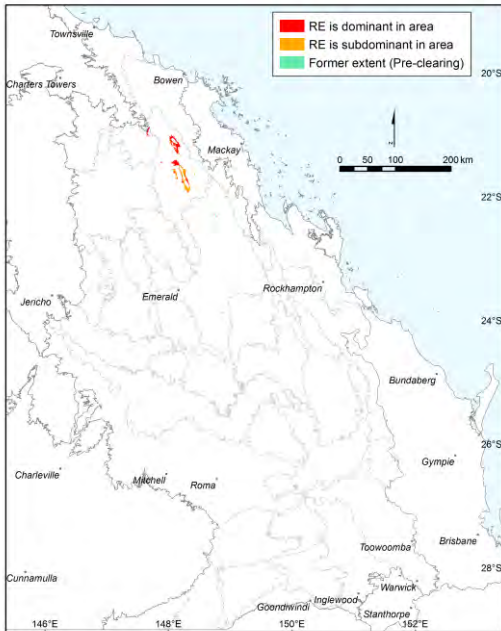
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**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Eucalyptus crebra, Corymbia aureola, Corymbia clarksoniana and/or Acacia shirleyi woodland**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 40,183 38,833 97%

Species\_recorded: Total: 55; woody: 20; ground: 42; Avg. spp./site: 34.0; std dev.: 2.0, 2 site(s)

Basal area: Avg./site: 11.5 m<sup>2</sup>/ha, range: 10.0 - 13 m<sup>2</sup>/ha, std. deviation: 2 m<sup>2</sup>/ha, 2 site(s)

Structural formation: Woodland: 100%, 2 site(s)

Representative\_sites 54057, 54115.

**Stratum: Tree 1**

Height avg. = 11.8m, range 10.5-13m, 2 sites

Crown cover avg. = 25.0%, range 20.0-30.0%, 2 sites

Dominant species (relative cover, frequency): *Corymbia aureola* (56, 100%), *Eucalyptus tholiformis* (32, 100%), *Eucalyptus cloeziana* (17, 50%), *Lysicarpus angustifolius* (8, 50%)

Frequent species (cover, frequency): *Corymbia aureola* (18, 100%), *Eucalyptus tholiformis* (10, 100%), *Eucalyptus cloeziana* (5, 50%), *Lysicarpus angustifolius* (3, 50%)

**Stratum: Tree 2**

Height avg. = 6.0m, 1 site

Crown cover avg. = 5.0%, 1 site

Dominant species (relative cover, frequency): *Acacia leptostachya* (62, 50%), *Denhamia disperma* (23, 50%), *Acacia flavescens* (15, 50%)

Frequent species (cover, frequency): *Acacia flavescens* (1, 50%), *Acacia leptostachya* (4, 50%), *Denhamia disperma* (2, 50%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Shrub 1**

Height avg. = 2.0m, range 1.5-2.5m, 2 sites

Crown cover avg. = 23.1%, range 6.1-40.0%, 2 sites

*Dominant species (relative cover, frequency):* *Acacia leptostachya* (85, 50%), *Hardenbergia perbrevidens* (63, 50%), *Acacia flavescens* (35, 50%), *Bossiaea carinalis* (6, 50%), *Grevillea sessilis* (4, 100%)

*Frequent species (cover, frequency):* *Grevillea sessilis* (1, 100%), *Acacia dietrichiana* (50%), *Acacia flavescens* (2, 50%), *Acacia julifera* subsp. *curvinervia* (50%), *Acacia leptostachya* (30, 50%), *Astrotricha pterocarpa* (50%), *Bossiaea carinalis* (2, 50%), *Corymbia trachyphloia* subsp. *trachyphloia* (50%), *Hardenbergia perbrevidens* (3, 50%), *Logania albiflora* (50%), *Persoonia amaliae* (1, 50%), *Persoonia falcata* (50%), *Psydrax attenuata* var. *attenuata* (50%), *Samadera sp.* (Dam Creek T.S.Ryan 1006) (50%)

**Stratum: Shrub 2**

Height avg. = 0.6m, 1 site

Crown cover avg. = 5.0%, 1 site

*Dominant species (relative cover, frequency):* *Prostanthera cryptandroides* subsp. *euphrasioides* (100, 50%)

*Frequent species (cover, frequency):* *Prostanthera cryptandroides* subsp. *euphrasioides* (2, 50%)

**Stratum: Ground**

Height avg. = 0.6m, range 0.5-0.6m, 2 sites

PFC avg. = 62.5%, range 50-75%, 2 sites

*Dominant species (relative cover, frequency):* *Tephrosia purpurea* var. *sericea* (66, 50%), *Cleistochloa subjuncea* (40, 100%), *Aristida lazaridis* (8, 50%), *Triodia mitchellii* (7, 50%), *Eriachne rara* (4, 50%)

*Frequent species (cover, frequency):* GRAMINOIDS: *Aristida utilis* var. *utilis* (1, 100%), *Cleistochloa subjuncea* (29, 100%), *Digitaria violascens*\* (1, 100%), *Scleria sphacelata* (100%), *Aristida benthamii* var. *benthamii* (3, 50%), *Aristida lazaridis* (4, 50%), *Cymbopogon bombycinus* (50%), *Eragrostis spartinooides* (50%), *Eriachne rara* (3, 50%), *Panicum effusum* (50%), *Schoenus kennyi* (1, 50%), *Triodia mitchellii* (5, 50%)

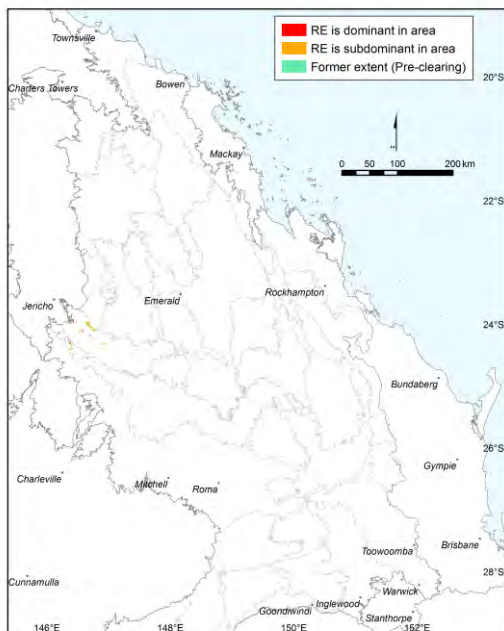
FORBS: *Acacia leptostachya* (3, 100%), *Persoonia amaliae* (100%), *Pimelea linifolia* subsp. *linifolia* (100%), *Samadera sp.* (Dam Creek T.S.Ryan 1006) (100%), *Senna aciphylla* (1, 100%), *Seringia collina* (1, 100%), *Abutilon oxycarpum* (50%), *Acacia flavescens* (50%), *Cassutha filiformis* (50%), *Corymbia aureola* (1, 50%), *Cyanthillium cinereum* (50%), *Desmodium rhytidophyllum* (50%), *Eucalyptus tholiformis* (50%), *Evolvulus alsinoides* (50%), *Goodenia rotundifolia* (50%), *Hardenbergia perbrevidens* (1, 50%), *Hibbertia acicularis* (50%), *Indigofera pratensis* (50%), *Lomandra confertifolia* subsp. *pallida* (2, 50%), *Lomandra filiformis* subsp. *filiformis* (50%), *Lomandra multiflora* subsp. *multiflora* (50%), *Oxalis chnoodes* (50%), *Peripleura diffusa* (50%), *Phyllanthus fuernrohrii* (50%), *Platysace valida* (50%), *Pomax umbellata* (50%), *Rostellularia adscendens* var. *adscendens* (50%), *Stylidium eriorhizum* (50%), *Tephrosia purpurea* var. *sericea* (35, 50%)

**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Eucalyptus crebra, Corymbia hendersonii woodland**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 6,943 5,113 74%

Species\_recorded: Total: 26; woody: 8; ground: 18; Avg. spp./site: 26.0; std dev.: 0.0, 1 site(s)

Basal area: Avg./site: 6.0 m<sup>2</sup>/ha, range: 6.0 - 6 m<sup>2</sup>/ha, std. deviation: 0 m<sup>2</sup>/ha, 1 site(s)

Structural formation: Woodland: 100%, 1 site(s)

Representative\_sites 30407.

**Stratum: Tree 1**

Height avg. = 17.0m, 1 site

Crown cover avg. = 22.0%, 1 site

Dominant species (relative cover, frequency): *Corymbia hendersonii* (90, 100%), *Acacia shirleyi* (9, 100%)

Frequent species (cover, frequency): *Acacia shirleyi* (2, 100%), *Corymbia hendersonii* (20, 100%), *Lysicarpus angustifolius* (100%)

**Stratum: Tree 2**

Height avg. = 6.0m, 1 site

Crown cover avg. = 50.0%, 1 site

Dominant species (relative cover, frequency): *Acacia longispicata* (40, 100%), *Acacia shirleyi* (33, 100%), *Lysicarpus angustifolius* (18, 100%), *Santalum lanceolatum* (4, 100%), *Grevillea parallela* (2, 100%)

Frequent species (cover, frequency): *Acacia longispicata* (18, 100%), *Acacia shirleyi* (15, 100%), *Alphitonia excelsa* (1, 100%), *Grevillea parallela* (1, 100%), *Lysicarpus angustifolius* (8, 100%), *Persoonia falcata* (100%), *Santalum lanceolatum* (2, 100%)

**Stratum: Shrub 1**

Height avg. = 1.5m, 1 site

Crown cover avg. = 2.0%, 1 site

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus



**Stratum: Ground****Height avg. = 0.5m, 1 site****PFC avg. = 45.0%, 1 site**

*Dominant species (relative cover, frequency):* *Triodia mitchellii* (88, 100%), *Cymbopogon refractus* (2, 100%), *Aristida calycina* var. *calycina* (2, 100%), *Lomandra multiflora* subsp. *multiflora* (2, 100%), *Dinebra decipiens* (2, 100%)

*Frequent species (cover, frequency):* **GRAMINOIDS:** *Ancistrachne uncinulata* (100%), *Aristida calycina* var. *calycina* (1, 100%), *Aristida caput-medusae* (100%), *Aristida indet.* (100%), *Bulbostylis barbata* (100%), *Cymbopogon refractus* (1, 100%), *Digitaria divaricatissima* (100%), *Dinebra decipiens* (1, 100%), *Eragrostis lacunaria* (100%), *Panicum effusum* (100%), *Triodia mitchellii* (40, 100%)

**FORBS:** *Boronia bipinnata* (100%), *Bursaria spinosa* subsp. *spinosa* (100%), *Cheilanthes sieberi* (100%), *Dianella longifolia* (100%), *Hibiscus sturtii* (100%), *Lomandra multiflora* subsp. *multiflora* (1, 100%), *Seringia lanceolata* (100%)

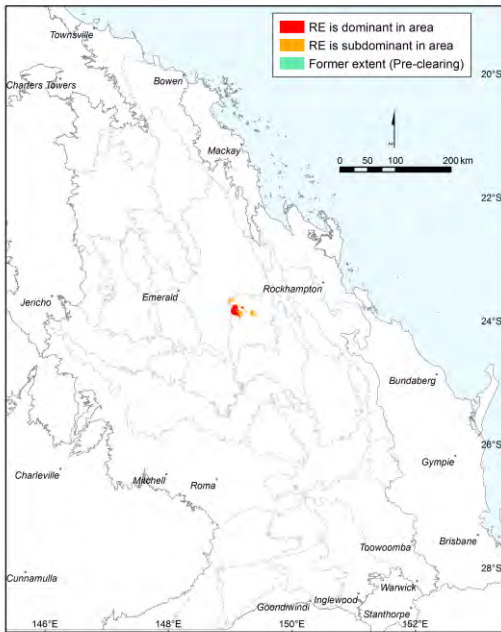
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**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Eucalyptus sphaerocarpa +/- E. mensalis, E. saligna, tall open forest on coarse-grained sedimentary rocks. Tablelands**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 26,881 26,863 100%

Species\_recorded: Total: 32; woody: 7; ground: 25; Avg. spp./site: 32.0; std dev.: 0.0, 1 site(s)

Basal area: Avg./site: 23.0 m<sup>2</sup>/ha, range: 23.0 - 23 m<sup>2</sup>/ha, std. deviation: 0 m<sup>2</sup>/ha, 1 site(s)

Structural formation: Open-forest: 100%, 1 site(s)

Representative\_sites 16261.

**Stratum: Tree 1**

Height avg. = 28.0m, 1 site

Crown cover avg. = 68.0%, 1 site

Dominant species (relative cover, frequency): *Eucalyptus sphaerocarpa* (82, 100%), *Eucalyptus acmenoides* (7, 100%), *Corymbia intermedia* (7, 100%), *Livistona fulva* (4, 100%)

Frequent species (cover, frequency): *Corymbia intermedia* (5, 100%), *Eucalyptus acmenoides* (5, 100%), *Eucalyptus sphaerocarpa* (58, 100%), *Livistona fulva* (3, 100%)

**Stratum: Tree 2**

Height avg. = 16.0m, 1 site

Crown cover avg. = 38.0%, 1 site

Dominant species (relative cover, frequency): *Allocasuarina torulosa* (78, 100%), *Livistona fulva* (22, 100%)

Frequent species (cover, frequency): *Allocasuarina torulosa* (35, 100%), *Livistona fulva* (10, 100%)

**Stratum: Tree 3**

Height avg. = 4.5m, 1 site

Crown cover avg. = 20.0%, 1 site

Dominant species (relative cover, frequency): *Allocasuarina torulosa* (100, 100%)

Frequent species (cover, frequency): *Allocasuarina torulosa* (10, 100%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

## Technical Description

Regional ecosystem: 11.10.5

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### Stratum: Shrub 1

Height avg. = 2.0m, 1 site

Crown cover avg. = 4.0%, 1 site

Dominant species (relative cover, frequency): *Corymbia intermedia* (50, 100%), *Allocasuarina torulosa* (50, 100%)

Frequent species (cover, frequency): *Allocasuarina torulosa* (2, 100%), *Corymbia intermedia* (2, 100%)

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### Stratum: Shrub 2

Height avg. = 0.5m, 1 site

Crown cover avg. = 27.0%, 1 site

Dominant species (relative cover, frequency): *Jacksonia scoparia* (50, 100%), *Dianella caerulea* (50, 100%)

Frequent species (cover, frequency): *Dianella caerulea* (13, 100%), *Jacksonia scoparia* (13, 100%)

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### Stratum: Ground

Height avg. = 0.5m, 1 site

PFC avg. = 25.0%, 1 site

Dominant species (relative cover, frequency): *Themeda triandra* (46, 100%), *Xanthorrhoea johnsonii* (46, 100%)

Frequent species (cover, frequency): GRAMINOIDS: *Dichelachne micrantha* (100%), *Entolasia stricta* (100%), *Imperata cylindrica* (100%), *Lepidosperma laterale* (100%), *Themeda triandra* (13, 100%)

FORBS: *Calotis dentex* (100%), *Cyanthillium cinereum* (100%), *Desmodium rhytidophyllum* (100%), *Dodonaea filifolia* (100%), *Eustrephus latifolius* (100%), *Glycine clandestina* var. *clandestina* (100%), *Goodenia rotundifolia* (100%), *Hardenbergia violacea* (100%), *Hibbertia oligodonta* (100%), *Hibbertia* sp. (Blackdown Tableland S.G.Pearson 279) (100%), *Hovea linearis* (100%), *Lomandra confertifolia* subsp. *pallida* (100%), *Lomatia silaifolia* (100%), *Monotoca scoparia* (100%), *Patersonia sericea* var. *sericea* (100%), *Phyllanthus mitchellii* (100%), *Platysace ericoides* (100%), *Pteridium esculentum* (100%), *Smilax australis* (100%), *Xanthorrhoea johnsonii* (13, 100%)

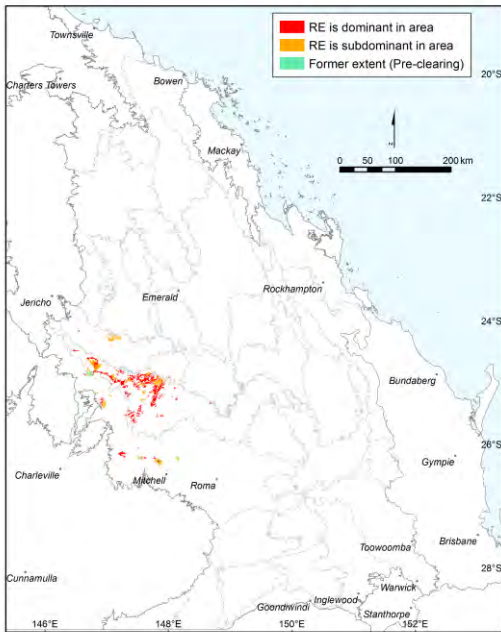
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Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Angophora leiocarpa, Callitris glaucophylla open woodland on coarse-grained sedimentary rocks. Broad valleys**



**Pre-clearing area (ha), remnant area (ha) and per cent remaining:** 148,702 143,535 97%

**Species recorded:** Total: 114; woody: 29; ground: 94; Avg. spp./site: 27.9; std dev.: 7.8, 7 site(s)

**Basal area:** Avg./site: 21.3 m<sup>2</sup>/ha, range: 10.0 - 34 m<sup>2</sup>/ha, std. deviation: 8 m<sup>2</sup>/ha, 7 site(s)

**Structural formation:** Woodland: 43%; open-woodland: 43%; tall woodland: 14%, 7 site(s)

**Representative sites** 17534, 17536, 17540, 30409, 30415, 30417, 30422.

**Stratum: Tree 1**

**Height avg. = 23.5m, range 18-35m, 7 sites**  
**Crown cover avg. = 18.7%, range 15.0-30.0%, 7 sites**

*Dominant species (relative cover, frequency):* *Angophora leiocarpa* (61, 100%), *Callitris glaucophylla* (51, 43%), *Corymbia trachyphloia* (20, 29%), *Eucalyptus melanophloia* (2, 29%)

*Frequent species (cover, frequency):* *Angophora leiocarpa* (12, 100%), *Callitris glaucophylla* (9, 43%), *Eucalyptus chloroclada* (43%), *Corymbia trachyphloia* (5, 29%), *Eucalyptus melanophloia* (1, 29%), *Eucalyptus panda* (11, 14%), *Lysicarpus angustifolius* (14%)

**Stratum: Tree 2**

**Height avg. = 12.9m, range 5-18m, 7 sites**  
**Crown cover avg. = 11.9%, range 2.0-26.0%, 7 sites**

*Dominant species (relative cover, frequency):* *Callitris glaucophylla* (44, 86%), *Lysicarpus angustifolius* (43, 57%), *Allocasuarina luehmannii* (33, 43%), *Angophora leiocarpa* (14, 86%), *Corymbia trachyphloia* (10, 29%)

*Frequent species (cover, frequency):* *Angophora leiocarpa* (1, 86%), *Callitris glaucophylla* (7, 86%), *Lysicarpus angustifolius* (5, 57%), *Allocasuarina luehmannii* (2, 43%), *Acacia leiocalyx subsp. leiocalyx* (29%), *Corymbia trachyphloia* (3, 29%), *Xylomelum cunninghamianum* (1, 29%), *Corymbia clarksoniana* (1, 14%), *Eucalyptus chloroclada* (2, 14%), *Eucalyptus crebra* (1, 14%), *Eucalyptus melanophloia* (1, 14%), *Eucalyptus panda* (14%)

**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

## Technical Description

Regional ecosystem: 11.10.6

### Stratum: Tree 3

Height avg. = 4.3m, range 3-5m, 4 sites

Crown cover avg. = 8.5%, range 3.0-20.0%, 4 sites

Dominant species (relative cover, frequency): *Acacia leiocalyx* subsp. *leiocalyx* (33, 29%), *Allocasuarina luehmannii* (15, 29%)

Frequent species (cover, frequency): *Acacia leiocalyx* subsp. *leiocalyx* (2, 29%), *Allocasuarina luehmannii* (1, 29%), *Acacia caroleae* (19, 14%), *Acacia semirigida* (4, 14%), *Angophora leiocarpa* (1, 14%), *Callitris glaucophylla* (3, 14%), *Corymbia clarksoniana* (1, 14%), *Eucalyptus chloroclada* (14%), *Petalostigma pubescens* (14%), *Xylomelum cunninghamianum* (14%)

### Stratum: Shrub 1

Height avg. = 1.4m, range 0.9-2m, 7 sites

Crown cover avg. = 7.3%, range 3.0-15.0%, 7 sites

Dominant species (relative cover, frequency): *Jacksonia ramosissima* (32, 43%), *Dodonaea peduncularis* (31, 29%), *Callitris glaucophylla* (26, 43%), *Acacia leiocalyx* subsp. *leiocalyx* (21, 29%), *Dodonaea* indet. (13, 29%)

Frequent species (cover, frequency): *Callitris glaucophylla* (1, 43%), *Jacksonia ramosissima* (2, 43%), *Acacia leiocalyx* subsp. *leiocalyx* (1, 29%), *Dodonaea* indet. (1, 29%), *Dodonaea peduncularis* (2, 29%), *Lysicarpus angustifolius* (1, 29%), *Xylomelum cunninghamianum* (1, 29%), *Acacia buxifolia* subsp. *pubiflora* (5, 14%), *Acacia complanata* (1, 14%), *Acacia deuteroneura* (1, 14%), *Acacia macradenia* (14%), *Allocasuarina luehmannii* (1, 14%), *Callicarpa longifolia* (1, 14%), *Calytrix tetragona* (14%), *Cassinia laevis* (15, 14%), *Dodonaea vestita* (1, 14%), *Eucalyptus panda* (1, 14%), *Hovea lanceolata* (14%), *Jacksonia scoparia* (1, 14%), *Olearia subspicata* (14%), *Petalostigma pubescens* (1, 14%)

### Stratum: Ground

Height avg. = 0.3m, range 0.1-0.5m, 7 sites

PFC avg. = 24.6%, range 12-45%, 7 sites

Dominant species (relative cover, frequency): *Triodia mitchellii* (39, 57%), *Eremochloa bimaculata* (11, 71%), *Eragrostis sororia* (10, 43%), *Lomandra confertifolia* subsp. *pallida* (9, 43%), *Xanthorrhoea johnsonii* (8, 29%)

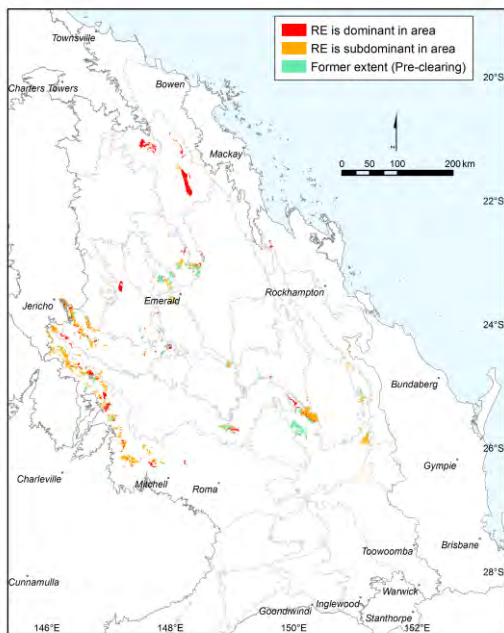
Frequent species (cover, frequency): GRAMINOIDS: *Eremochloa bimaculata* (3, 71%), *Panicum effusum* (1, 71%), *Triodia mitchellii* (12, 57%), *Cymbopogon refractus* (1, 43%), *Eragrostis sororia* (2, 43%), *Alloteropsis semialata* (29%), *Aristida calycina* var. *calycina* (29%), *Aristida holathera* var. *holathera* (1, 29%), *Aristida* indet. (2, 29%), *Chrysopogon fallax* (2, 29%), *Eragrostis elongata* (2, 29%), *Fimbristylis dichotoma* (1, 29%), *Aristida benthamii* (1, 14%), *Aristida calycina* (5, 14%), *Aristida gracilipes* (2, 14%), *Aristida jerichoensis* (2, 14%), *Aristida jerichoensis* var. *jerichoensis* (5, 14%), *Aristida personata* (14%), *Aristida queenslandica* var. *dissimilis* (1, 14%), *Cyperus bifax* (14%), *Cyperus gracilis* (14%), *Digitaria* indet. (14%), *Eragrostis lacunaria* (2, 14%), *Eriachne mucronata* (5, 14%), *Heteropogon contortus* (14%), *Paspalidium distans* (14%), *Poaceae* indet. (17, 14%), *Schizachyrium fragile* (14%), *Themeda triandra* (14%), *Tripogon loliformis* (14%), *Walwhalleya subxerophila* (14%)  
FORBS: *Chrysocephalum apiculatum* (43%), *Dianella longifolia* (1, 43%), *Euphorbia drummondii* (43%), *Laxmannia gracilis* (43%), *Lomandra confertifolia* subsp. *pallida* (2, 43%), *Persoonia sericea* (43%), *Petalostigma pubescens* (43%), *Acanthaceae* indet. (29%), *Asteraceae* indet. (1, 29%), *Dianella caerulea* (1, 29%), *Dianella revoluta* (2, 29%), *Dodonaea boroniifolia* (29%), *Ericaceae* indet. (1, 29%), *Galinsoga parviflora*\* (1, 29%), *Hibbertia linearis* (1, 29%), *Leucopogon mitchellii* (29%), *Melichrus urceolatus* (29%), *Poranthera microphylla* (29%), *Wahlenbergia gracilis* (1, 29%), *Xanthorrhoea johnsonii* (2, 29%), *Acacia* indet. (14%), *Acacia ixiophylla* (14%), *Alphitonia excelsa* (1, 14%), *Aotus mollis* (14%), *Bossiaea concolor* (1, 14%), *Callitris glaucophylla* (1, 14%), *Calytrix tetragona* (2, 14%), *Cassinia laevis* (1, 14%), *Cheilanthes distans* (14%), *Cheilanthes sieberi* (14%), *Cheilanthes sieberi* subsp. *sieberi* (1, 14%), *Conospermum sphacelatum* (1, 14%), *Crotalaria montana* (14%), *Cryptandra* indet. (1, 14%), *Desmodium brachypodum* (14%), *Dodonaea peduncularis* (1, 14%), *Eucalyptus exserta* (14%), *Evolvulus alsinoides* (14%), *Goodenia glabra* (14%), *Goodenia rotundifolia* (14%), *Grevillea* indet. (1, 14%), *Hakea purpurea* (1, 14%), *Hibbertia* indet. (14%), *Jacksonia ramosissima* (14%), *Jacksonia rhadinoclona* (14%), *Lomandra confertifolia* (5, 14%), *Lomandra leucocephala* (1, 14%), *Lomandra longifolia* (5, 14%), *Lomandra multiflora* subsp. *multiflora* (14%), *Opuntia stricta*\* (14%), *Opuntia tomentosa*\* (14%), *Phyllanthus virgatus* (1, 14%), *Pimelea* indet. (1, 14%), *Prostanthera cryptandroides* subsp. *euphrasioides* (1, 14%), *Pterocaulon* indet. (14%), *Rostellularia adscendens* (14%), *Senecio* indet. (14%), *Stylidium eglandulosum* (14%), *Stylidium eriorhizum* (14%), *Tricoryne elatior* (14%), *Velleia* indet. (14%), *Wahlenbergia* indet. (14%), *Xylomelum cunninghamianum* (14%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Eucalyptus crebra woodland on coarse-grained sedimentary rocks**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 248,680 171,540 69%

Species\_recorded: Total: 102; woody: 32; ground: 74; Avg. spp./site: 33.0; std dev.: 9.3, 3 site(s)

Basal area: Avg./site: 6.5 m<sup>2</sup>/ha, range: 3.0 - 10 m<sup>2</sup>/ha, std. deviation: 3 m<sup>2</sup>/ha, 6 site(s)

Structural formation: Woodland: 67%; open-woodland: 33%, 6 site(s)

Representative\_sites 16714, 16917, 16918, 16919, 17049, 30416.

**Stratum: Tree 1**

Height avg. = 16.7m, range 13-21m, 6 sites

Crown cover avg. = 21.3%, range 14.0-30.0%, 6 sites

Dominant species (relative cover, frequency): *Eucalyptus populnea* (80, 50%), *Eucalyptus crebra* (57, 83%)

Frequent species (cover, frequency): *Eucalyptus crebra* (12, 83%), *Eucalyptus populnea* (18, 50%), *Angophora leiocarpa* (2, 17%), *Callitris glaucophylla* (1, 17%), *Casuarina cristata* (17%), *Corymbia clarksoniana* (2, 17%), *Corymbia erythrophloia* (8, 17%), *Eucalyptus melanophloia* (3, 17%)

**Stratum: Tree 2**

Height avg. = 7.8m, range 5-11m, 4 sites

Crown cover avg. = 11.8%, range 5.0-20.0%, 5 sites

Dominant species (relative cover, frequency): *Eucalyptus crebra* (42, 67%), *Eucalyptus populnea* (33, 33%), *Eucalyptus melanophloia* (26, 33%), *Corymbia dallachiana* (15, 33%)

Frequent species (cover, frequency): *Eucalyptus crebra* (3, 67%), *Corymbia dallachiana* (2, 33%), *Eucalyptus melanophloia* (5, 33%), *Eucalyptus populnea* (6, 33%), *Acacia excelsa subsp. angusta* (1, 17%), *Alphitonia excelsa* (2, 17%), *Callitris glaucophylla* (2, 17%), *Corymbia clarksoniana* (2, 17%), *Corymbia erythrophloia* (1, 17%), *Eremophila mitchellii* (1, 17%), *Lysicarpus angustifolius* (10, 17%), *Psydrax oleifolia* (2, 17%), *Santalum lanceolatum* (1, 17%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

## Technical Description

Regional ecosystem: 11.10.7

### Stratum: Tree 3

Height avg. = 2.0m, 1 site

Crown cover avg. = 10.0%, 1 site

*Frequent species (cover, frequency):* *Acacia excelsa* subsp. *angusta* (17%), *Callitris glaucophylla* (6, 17%), *Citrus glauca* (17%), *Dodonaea viscosa* (2, 17%), *Eremophila mitchellii* (2, 17%), *Geijera parviflora* (1, 17%), *Opuntia stricta*\* (17%), *Pimelea neoanglica* (17%), *Santalum lanceolatum* (1, 17%)

### Stratum: Shrub 1

Height avg. = 3.1m, range 2.2-5m, 4 sites

Crown cover avg. = 16.2%, range 8.0-30.0%, 5 sites

*Dominant species (relative cover, frequency):* *Acacia* indet. (46, 50%), *Petalostigma pubescens* (33, 67%), *Acacia leiocalyx* subsp. *leiocalyx* (22, 33%), *Alphitonia excelsa* (3, 33%), *Dodonaea* indet. (1, 33%)

*Frequent species (cover, frequency):* *Petalostigma pubescens* (3, 67%), *Acacia* indet. (4, 50%), *Acacia leiocalyx* subsp. *leiocalyx* (3, 33%), *Alphitonia excelsa* (33%), *Dodonaea* indet. (33%), *Acacia conferta* (6, 17%), *Angophora leiocarpa* (1, 17%), *Atalaya hemiglaucula* (2, 17%), *Callitris glaucophylla* (5, 17%), *Corymbia clarksoniana* (17%), *Corymbia dallachiana* (17%), *Eremophila mitchellii* (24, 17%), *Eucalyptus crebra* (1, 17%), *Eucalyptus melanophloia* (17%), *Grevillea parallela* (17%), *Lysicarpus angustifolius* (1, 17%), *Psychodroma oleifolia* (17%)

### Stratum: Shrub 2

Height avg. = 2.0m, 1 site

Crown cover avg. = 10.5%, range 2.0-25.0%, 4 sites

*Dominant species (relative cover, frequency):* *Erythroxylum australe* (82, 50%), *Alphitonia excelsa* (3, 33%)

*Frequent species (cover, frequency):* *Erythroxylum australe* (11, 50%), *Alphitonia excelsa* (1, 33%), *Acacia* indet. (1, 17%), *Archidendropsis basaltica* (17%), *Atalaya hemiglaucula* (17%), *Breynia oblongifolia* (1, 17%), *Eremophila mitchellii* (1, 17%), *Eucalyptus populnea* (17%), *Grewia latifolia* (1, 17%), *Opuntia tomentosa*\* (1, 17%)

### Stratum: Ground

Height avg. = 0.6m, range 0.2-0.8m, 3 sites

PFC avg. = 60.0%, range 45-75%, 3 sites

*Dominant species (relative cover, frequency):* *Xanthorrhoea johnsonii* (31, 33%), *Aristida* indet. (19, 33%), *Aristida holathera* var. *holathera* (13, 33%), *Chloris ventricosa* (13, 33%), *Eragrostis leptostachya* (13, 33%)

*Frequent species (cover, frequency):* GRAMINOIDS: *Aristida caput-medusae* (3, 67%), *Cymbopogon refractus* (3, 67%), *Eragrostis sororia* (5, 67%), *Panicum effusum* (7, 67%), *Themeda triandra* (5, 67%), *Aristida calycina* (3, 33%), *Aristida calycina* var. *calycina* (1, 33%), *Aristida holathera* var. *holathera* (10, 33%), *Aristida* indet. (5, 33%), *Aristida queenslandica* var. *queenslandica* (3, 33%), *Aristida ramosa* (5, 33%), *Bothriochloa decipiens* (2, 33%), *Bulbostylis barbata* (33%), *Chloris ventricosa* (5, 33%), *Chrysopogon fallax* (1, 33%), *Cleistochloa subjuncea* (8, 33%), *Cyperus fulvus* (33%), *Digitaria ammophila* (1, 33%), *Digitaria brownii* (1, 33%), *Digitaria* indet. (3, 33%), *Enneapogon avenaceus* (5, 33%), *Enteropogon* indet. (1, 33%), *Enteropogon ramosus* (8, 33%), *Entolasia stricta* (33%), *Eragrostis alveiformis* (33%), *Eragrostis lacunaria* (33%), *Eragrostis leptostachya* (5, 33%), *Eragrostis speciosa* (33%), *Eulalia aurea* (1, 33%), *Fimbristylis dichotoma* (33%), *Heteropogon contortus* (8, 33%), *Paspalidium caespitosum* (33%), *Perotis rara* (8, 33%), *Sporobolus creber* (33%)

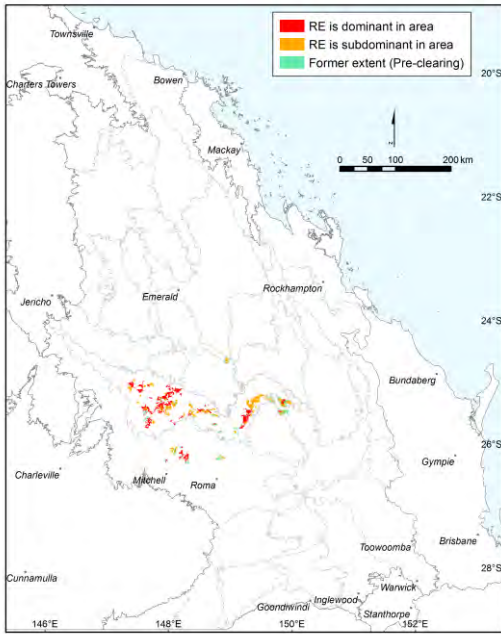
FORBS: *Chrysocephalum apiculatum* (67%), *Dodonaea* indet. (67%), *Acacia leiocalyx* subsp. *leiocalyx* (33%), *Bidens pilosa*\* (33%), *Blumea* indet. (33%), *Brachyscome dalbyensis* (33%), *Brunoniella australis* (1, 33%), *Calotis cuneata* (33%), *Capparis lasiantha* (33%), *Cheilanthes sieberi* (1, 33%), *Cheilanthes sieberi* subsp. *sieberi* (33%), *Dianella* indet. (1, 33%), *Dianella longifolia* (33%), *Dodonaea triangularis* (33%), *Euphorbia drummondii* (33%), *Galactia tenuiflora* (33%), *Glycine tabacina* (33%), *Hibbertia* indet. (33%), *Hibiscus sturtii* (33%), *Lomandra filiformis* (33%), *Lomandra multiflora* subsp. *multiflora* (1, 33%), *Melichrus urceolatus* (33%), *Nyssanthes erecta* (33%), *Opuntia stricta*\* (33%), *Peripleura hispidula* var. *setosa* (33%), *Pimelea neoanglica* (33%), *Pterocaulon redolens* (33%), *Sida hackettiana* (33%), *Sida rohlenae* (33%), *Spermacoce brachystema* (33%), *Sphaeromorphaea* indet. (33%), *Waltheria indica* (33%), *Xanthorrhoea johnsonii* (8, 33%)

**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Eucalyptus crebra and/or E. melanophloia woodland on coarse-grained sedimentary rocks**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 146,141 117,327 80%

Species\_recorded: Total: 18; woody: 5; ground: 13; Avg. spp./site: 18.0; std dev.: 0.0, 1 site(s)

Basal area: Avg./site: 16.0 m<sup>2</sup>/ha, range: 16.0 - 16 m<sup>2</sup>/ha, std. deviation: 0 m<sup>2</sup>/ha, 1 site(s)

Structural formation: Open-woodland: 100%, 1 site(s)

Representative\_sites 17531.

**Stratum: Tree 1**

Height avg. = 22.0m, 1 site

Crown cover avg. = 15.0%, 1 site

Dominant species (relative cover, frequency): *Eucalyptus crebra* (100, 100%)

Frequent species (cover, frequency): *Eucalyptus crebra* (15, 100%)

**Stratum: Tree 2**

Height avg. = 13.0m, 1 site

Crown cover avg. = 20.0%, 1 site

Dominant species (relative cover, frequency): *Allocasuarina luehmannii* (90, 100%), *Eucalyptus crebra* (10, 100%)

Frequent species (cover, frequency): *Allocasuarina luehmannii* (18, 100%), *Eucalyptus crebra* (2, 100%)

**Stratum: Tree 3**

Height avg. = 4.0m, 1 site

Crown cover avg. = 2.0%, 1 site

Dominant species (relative cover, frequency): *Lysicarpus angustifolius* (50, 100%), *Allocasuarina luehmannii* (50, 100%)

Frequent species (cover, frequency): *Allocasuarina luehmannii* (1, 100%), *Lysicarpus angustifolius* (1, 100%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus



## Technical Description

Regional ecosystem: 11.10.7a

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### Stratum: Shrub 1

Height avg. = 2.5m, 1 site

Crown cover avg. = 4.0%, 1 site

*Dominant species (relative cover, frequency):* *Acacia macradenia* (67, 100%), *Allocasuarina luehmannii* (22, 100%), *Eucalyptus crebra* (11, 100%)

*Frequent species (cover, frequency):* *Acacia macradenia* (3, 100%), *Allocasuarina luehmannii* (1, 100%), *Eucalyptus crebra* (1, 100%)

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### Stratum: Shrub 2

Height avg. = 1.0m, 1 site

Crown cover avg. = 12.0%, 1 site

*Dominant species (relative cover, frequency):* *Dodonaea vestita* (83, 100%), *Allocasuarina luehmannii* (17, 100%)

*Frequent species (cover, frequency):* *Allocasuarina luehmannii* (2, 100%), *Dodonaea vestita* (10, 100%)

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### Stratum: Ground

Height avg. = 0.2m, 1 site

PFC avg. = 30.0%, 1 site

*Dominant species (relative cover, frequency):* *Aristida holathera* var. *holathera* (40, 100%), *Cymbopogon refractus* (15, 100%), *Dianella revoluta* (9, 100%), *Aristida personata* (9, 100%), *Eriachne rara* (6, 100%)

*Frequent species (cover, frequency):* GRAMINOIDS: *Aristida caput-medusae* (1, 100%), *Aristida holathera* var. *holathera* (13, 100%), *Aristida personata* (3, 100%), *Aristida queenslandica* var. *dissimilis* (1, 100%), *Cymbopogon refractus* (5, 100%), *Eragrostis sororia* (2, 100%), *Eriachne rara* (2, 100%), *Fimbristylis dichotoma* (1, 100%), *Panicum effusum* (1, 100%), *Perotis rara* (1, 100%)

FORBS: *Dianella revoluta* (3, 100%), *Laxmannia compacta* (1, 100%), *Lomandra longifolia* (1, 100%)

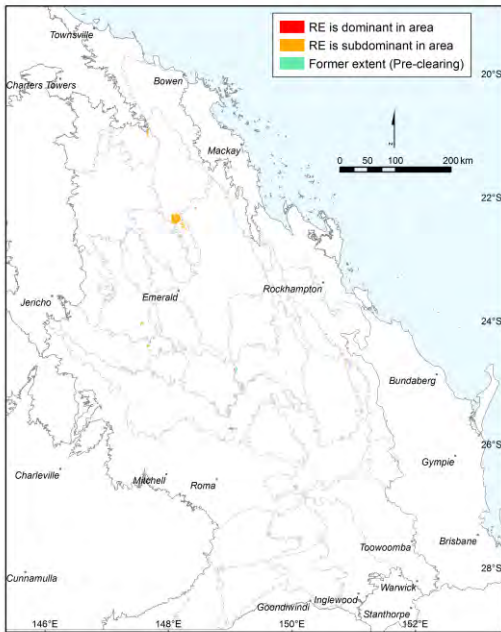
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Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

Semi-evergreen vine thicket in sheltered habitats on medium to coarse-grained sedimentary rocks



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 14,589 9,093 62%

Species\_recorded: Total: 173; woody: 131; ground: 94; Avg. spp./site: 67.8; std dev.: 10.6, 5 site(s)

Basal area: Avg./site: 21.2 m<sup>2</sup>/ha, range: 14.0 - 30 m<sup>2</sup>/ha, std. deviation: 5 m<sup>2</sup>/ha, 7 site(s)

Structural formation: Open-woodland: 29%; open-forest: 14%; low woodland: 14%; low open-forest: 14%; unrecorded: 29%, 7 site(s)

Representative\_sites 17223, 17404, 40985, 40986, 40987, 47438, 47454.

**Stratum: Emergent**

Height avg. = 17.8m, range 11-24m, 4 sites

Crown cover avg. = 7.0%, range 5.0-10.0%, 5 sites

Dominant species (relative cover, frequency): *Brachychiton rupestris* (48, 29%)

Frequent species (cover, frequency): *Brachychiton rupestris* (4, 29%), *Acacia fasciculifera* (1, 14%), *Brachychiton bidwillii* (14%), *Corymbia citriodora* (2, 14%), *Drypetes deplanchei* (10, 14%), *Eucalyptus decorticans* (4, 14%), *Ficus rubiginosa* (5, 14%), *Flindersia australis* (4, 14%), *Sterculia quadrifida* (2, 14%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Tree 1**

Height avg. = 11.7m, range 7-22m, 7 sites

Crown cover avg. = 35.7%, range 10.0-60.0%, 7 sites

*Dominant species (relative cover, frequency): Gossia bidwillii (40, 29%), Flindersia australis (32, 29%), Diosperma erythrococtum (17, 57%), Sterculia quadrifida (10, 29%), Diospyros geminata (9, 43%)*

*Frequent species (cover, frequency): Cayratia acris (1, 57%), Cissus oblonga (2, 57%), Diosperma erythrococtum (5, 57%), Brachychiton australis (1, 43%), Diospyros geminata (3, 43%), Drypetes deplanchei (1, 43%), Parsonsia leichhardtii (43%), Strychnos psilosperma (3, 43%), Alectryon connatus (29%), Alectryon subdentatus (1, 29%), Alstonia constricta (1, 29%), Atalaya salicifolia (29%), Bridelia leichhardtii (3, 29%), Cupaniopsis anacardioides (29%), Denhamia disperma (1, 29%), Diospyros fasciculosa (1, 29%), Flindersia australis (7, 29%), Gossia bidwillii (20, 29%), Melodorum leichhardtii (1, 29%), Planchonella cotinifolia (2, 29%), Secamone elliptica (2, 29%), Sterculia quadrifida (2, 29%), Tetrastigma nitens (29%), Trophis scandens subsp. scandens (1, 29%), Zanthoxylum brachyacanthum (29%), Acronychia laevis (14%), Austrostenisia blackii var. blackii (1, 14%), Backhousia angustifolia (3, 14%), Brachychiton rupestris (2, 14%), Capparis arborea (1, 14%), Celtis paniculata (1, 14%), Cissus reniformis (14%), Clematicissus opaca (14%), Coatesia paniculata (1, 14%), Croton insularis (10, 14%), Croton phebaloides (20, 14%), Cymbidium canaliculatum (14%), Dendrocnide photinophylla (14%), Denhamia pittosporoides subsp. pittosporoides (14%), Elattostachys bidwillii (14%), Euroschinus falcatus var. falcatus (3, 14%), Excoecaria dallachyana (15, 14%), Ficus rubiginosa (14%), Geijera salicifolia (14%), Glossocarya hemiderma (2, 14%), Grevillea helmsiae (1, 14%), Harpullia pendula (7, 14%), Jasminum simplicifolium subsp. australiense (14%), Notelaea microcarpa (10, 14%), Owenia venosa (10, 14%), Pandorea pandorana (14%), Parsonsia plaesiophylla (14%), Parsonsia rotata (14%), Petalostigma pubescens (30, 14%), Pittosporum spinescens (14%), Pleiogynium timorensis (14%), Psydrax odorata (1, 14%), Psydrax odorata forma australiana (5, 14%), Tinospora smilacina (14%), Vincetoxicum ovatum (14%)*

**Stratum: Tree 2**

Height avg. = 8.1m, range 6-13m, 4 sites

Crown cover avg. = 37.5%, range 25.0-55.0%, 4 sites

*Dominant species (relative cover, frequency): Coatesia paniculata (48, 29%), Planchonella cotinifolia (20, 29%), Owenia venosa (10, 29%), Exocarpos latifolius (8, 43%), Strychnos psilosperma (5, 43%)*

*Frequent species (cover, frequency): Bridelia leichhardtii (2, 57%), Dendrocnide photinophylla (2, 43%), Drypetes deplanchei (2, 43%), Exocarpos latifolius (4, 43%), Strychnos psilosperma (2, 43%), Tinospora smilacina (43%), Acronychia laevis (29%), Capparis arborea (29%), Cayratia acris (29%), Cissus oblonga (1, 29%), Coatesia paniculata (13, 29%), Denhamia disperma (29%), Diosperma erythrococtum (1, 29%), Elaeodendron australe var. integrifolium (1, 29%), Geijera salicifolia (29%), Jasminum simplicifolium subsp. australiense (29%), Melodorum leichhardtii (29%), Notelaea microcarpa (1, 29%), Owenia venosa (6, 29%), Parsonsia leichhardtii (29%), Parsonsia plaesiophylla (29%), Planchonella cotinifolia (9, 29%), Siphonodon australis (2, 29%), Zanthoxylum brachyacanthum (29%), Acronychia pauciflora (14%), Alectryon connatus (14%), Alstonia constricta (14%), Archidendropsis thozetiana (5, 14%), Atalaya salicifolia (1, 14%), Auranticarpa rhombifolia (2, 14%), Casearia multinervosa (1, 14%), Cissus reniformis (14%), Claoxylon tenerifolium subsp. tenerifolium (14%), Croton insularis (10, 14%), Cyclophyllum coprosmoides (5, 14%), Diospyros australis (1, 14%), Diospyros humilis (2, 14%), Erythroxyllum sp. (Splityard Creek L.Pedley 5360) (1, 14%), Excoecaria dallachyana (2, 14%), Ficus rubiginosa (1, 14%), Geijera parviflora (10, 14%), Glossocarya hemiderma (2, 14%), Gossia bidwillii (5, 14%), Marsdenia pleiadenia (14%), Myoporum acuminatum (5, 14%), Parsonsia velutina (14%), Secamone elliptica (1, 14%), Sterculia quadrifida (3, 14%), Tetrastigma nitens (14%)*

**Stratum: Tree 3**

Height avg. = 7.0m, 1 site

Crown cover avg. = 15.0%, 1 site

*Frequent species (cover, frequency): Atalaya salicifolia (14%), Brachychiton australis (14%), Capparis arborea (1, 14%), Claoxylon tenerifolium subsp. tenerifolium (14%), Coatesia paniculata (2, 14%), Croton acronychioides (1, 14%), Croton insularis (1, 14%), Diospyros geminata (1, 14%), Erythroxyllum sp. (Splityard Creek L.Pedley 5360) (14%), Exocarpos latifolius (14%), Glossocarya hemiderma (14%), Gossia bidwillii (2, 14%), Hoya australis subsp. australis (1, 14%), Melia azedarach (14%), Pittosporum viscidum (1, 14%), Planchonella cotinifolia (8, 14%), Psydrax odorata forma subnitida (2, 14%)*

**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Shrub 1**

Height avg. = 2.2m, range 1.6-3m, 7 sites

Crown cover avg. = 30.0%, range 10.0-80.0%, 7 sites

*Dominant species (relative cover, frequency):* *Strychnos psilosperma* (43, 71%), *Alchornea ilicifolia* (29, 57%), *Acalypha eremorum* (18, 57%), *Carissa ovata* (6, 86%), *Pavetta australiensis* var. *australiensis* (4, 29%)

*Frequent species (cover, frequency):* *Carissa ovata* (3, 86%), *Strychnos psilosperma* (11, 71%), *Turraea pubescens* (71%), *Acalypha eremorum* (4, 57%), *Alchornea ilicifolia* (8, 57%), *Capparis arborea* (57%), *Croton acronychioides* (57%), *Hoya australis* subsp. *australis* (1, 57%), *Breynia oblongifolia* (43%), *Glossocarya hemiderma* (43%), *Murraya ovatifoliolata* (43%), *Passiflora aurantia* var. *aurantia* (43%), *Planchonella cotinifolia* (43%), *Solanum furfuraceum* (43%), *Solanum seaforthianum*\* (1, 43%), *Trema tomentosa* (43%), *Alectryon diversifolius* (29%), *Alstonia constricta* (29%), *Alyxia ruscifolia* (1, 29%), *Atalaya salicifolia* (29%), *Baloghia inophylla* (29%), *Cissus oblonga* (1, 29%), *Clerodendrum floribundum* (29%), *Coatesia paniculata* (29%), *Deeringia amaranthoides* (29%), *Diplocyclos palmatus* subsp. *palmatus* (29%), *Erythroxylum* sp. (Splityard Creek L.Pedley 5360) (29%), *Gossia bidwillii* (1, 29%), *Hibiscus heterophyllus* (29%), *Lantana camara*\* (29%), *Melodorum leichhardtii* (29%), *Pavetta australiensis* (1, 29%), *Pavetta australiensis* var. *australiensis* (1, 29%), *Pittosporum viscidum* (29%), *Triflorensia ixoroides* (29%), *Abutilon oxycarpum* var. *oxycarpum* (14%), *Acronychia laevis* (1, 14%), *Acronychia pauciflora* (1, 14%), *Alectryon connatus* (14%), *Archidendropsis thozetiana* (5, 14%), *Backhousia angustifolia* (14%), *Boronia palasepala* (14%), *Bursaria incana* (14%), *Capparis sarmentosa* (14%), *Casearia multinervosa* (14%), *Cayratia acris* (1, 14%), *Cossinia australiana* (14%), *Croton phebalioides* (25, 14%), *Cyclophyllum coprosmoides* (2, 14%), *Dendrocnide photinophylla* (14%), *Elaeodendron australe* var. *integrifolium* (14%), *Everistia vacciniifolia* (10, 14%), *Exocarpos latifolius* (1, 14%), *Ficus opposita* (14%), *Geijera salicifolia* (14%), *Glycine* sp. (Marburg K.A.Williams 83006) (14%), *Jasminum didymum* subsp. *racemosum* (14%), *Jasminum simplicifolium* subsp. *australiense* (14%), *Myrsine variabilis* (14%), *Opuntia tomentosa*\* (14%), *Owenia venosa* (5, 14%), *Parsonsia lanceolata* (14%), *Parsonsia plaesiophylla* (14%), *Passiflora suberosa*\* (14%), *Petalostigma pubescens* (20, 14%), *Phyllanthus subcrenulatus* (14%), *Pittosporum spinescens* (1, 14%), *Plectorrhiza tridentata* (14%), *Pleurostylie opposita* (14%), *Psychotria daphnoides* var. *pubescens* (14%), *Psydrax odorata* (1, 14%), *Psydrax odorata* forma *australiana* (14%), *Senna sophera* var. *sophera* (14%), *Smilax australis* (1, 14%), *Solanum stelligerum* (14%), *Stephania renifolia* (14%), *Tinospora smilacina* (14%), *Tragia novae-hollandiae* (14%), *Trema tomentosa* var. *tomentosa* (14%), *Trophis scandens* subsp. *scandens* (1, 14%), *Vincetoxicum ovatum* (14%), *Ximenia americana* (14%)

**Stratum: Ground**

Height avg. = 0.7m, range 0.4-0.9m, 5 sites

PFC avg. = 18.0%, range 5-40%, 5 sites

*Dominant species (relative cover, frequency):* *Ancistrachne uncinulata* (28, 100%), *Oplismenus aemulus* (16, 100%), *Scleria sphacelata* (13, 60%), *Paspalidium distans* (8, 80%), *Rivina humilis*\* (7, 100%)

*Frequent species (cover, frequency):* GRAMINOIDS: *Ancistrachne uncinulata* (4, 100%), *Oplismenus aemulus* (3, 100%), *Paspalidium distans* (1, 80%), *Cyperus gracilis* (1, 60%), *Scleria sphacelata* (5, 60%), *Cyperus alterniflorus* (10, 20%), *Cyperus dietrichiae* var. *dietrichiae* (20%), *Scleria mackaviensis* (20%), *Setaria surgens* (20%)

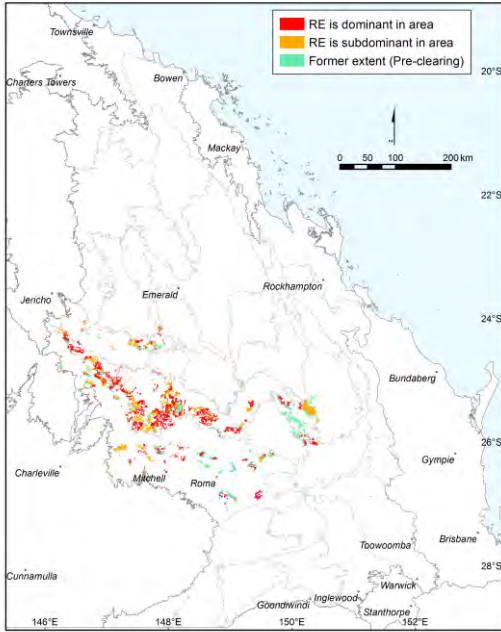
FORBS: *Rivina humilis*\* (3, 100%), *Dinosperma erythrocoecum* (80%), *Hoya australis* subsp. *australis* (1, 80%), *Solanum seaforthianum*\* (80%), *Solanum stelligerum* (80%), *Strychnos psilosperma* (80%), *Abutilon oxycarpum* var. *oxycarpum* (60%), *Alchornea ilicifolia* (60%), *Croton acronychioides* (60%), *Deeringia amaranthoides* (60%), *Diplocyclos palmatus* subsp. *palmatus* (60%), *Dysphania carinata* (60%), *Erigeron sumatrensis*\* (60%), *Alyxia ruscifolia* (40%), *Brachychiton australis* (40%), *Carissa ovata* (40%), *Cayratia acris* (40%), *Coatesia paniculata* (40%), *Dendrocnide photinophylla* (40%), *Dioscorea transversa* (40%), *Gossia bidwillii* (40%), *Passiflora aurantia* var. *aurantia* (40%), *Phytolacca octandra*\* (40%), *Planchonella cotinifolia* (40%), *Stephania japonica* var. *discolor* (40%), *Tetrastigma nitens* (40%), *Tinospora smilacina* (40%), *Tragia novae-hollandiae* (40%), *Acalypha eremorum* (20%), *Achyranthes aspera* (20%), *Alectryon connatus* (20%), *Brachychiton rupestris* (20%), *Breynia oblongifolia* (20%), *Bridelia leichhardtii* (20%), *Capparis sarmentosa* (20%), *Cayratia clematidea* (20%), *Celtis paniculata* (20%), *Cissus oblonga* (20%), *Claoxylon tenerifolium* subsp. *tenerifolium* (20%), *Commelina diffusa* (20%), *Croton insularis* (20%), *Cyclophyllum coprosmoides* (20%), *Dianella caerulea* var. *assera* (20%), *Dianella caerulea* var. *vannata* (20%), *Geijera salicifolia* (20%), *Glossocarya hemiderma* (20%), *Jasminum simplicifolium* subsp. *australiense* (20%), *Melia azedarach* (20%), *Melodorum leichhardtii* (20%), *Nyssa anthes diffusa* (20%), *Parsonsia leichhardtii* (20%), *Parsonsia plaesiophylla* (20%), *Pavetta australiensis* (20%), *Pavetta australiensis* var. *australiensis* (20%), *Pellaea nana* (20%), *Pleiogonium timorense* (20%), *Pseuderanthemum variabile* (20%), *Psydrax odorata* (20%), *Secamone elliptica* (20%), *Smilax australis* (20%), *Solanum ellipticum* (20%), *Solanum mitchellianum* (20%), *Solanum nodiflorum*\* (20%), *Sonchus oleraceus*\* (20%), *Stephania japonica* (20%), *Stephania renifolia* (20%), *Trema tomentosa* (20%), *Vincetoxicum ovatum* (20%)

**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Callitris glaucophylla woodland on coarse-grained sedimentary rocks**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 513,204 380,262 74%

Species\_recorded: Total: 118; woody: 17; ground: 107; Avg. spp./site: 33.2; std dev.: 13.8, 5 site(s)

Basal area: Avg./site: 19.0 m<sup>2</sup>/ha, range: 13.0 - 33 m<sup>2</sup>/ha, std. deviation: 7 m<sup>2</sup>/ha, 5 site(s)

Structural formation: Woodland: 80%; open-forest: 20%, 5 site(s)

Representative\_sites 16973, 17535, 30388, 30391, 30404.

**Stratum: Tree 1**

Height avg. = 19.0m, range 11-25m, 5 sites

Crown cover avg. = 35.4%, range 10.0-64.0%, 5 sites

Dominant species (relative cover, frequency): *Eucalyptus melanophloia* (56, 100%), *Callitris glaucophylla* (41, 100%)

Frequent species (cover, frequency): *Heteropogon contortus* (20%), *Callitris glaucophylla* (15, 100%), *Eucalyptus melanophloia* (18, 100%), *Allocasuarina luehmannii* (20%), *Angophora leiocarpa* (6, 20%), *Corymbia clarksoniana* (20%), *Eucalyptus chloroclada* (20%), *Eucalyptus populnea* (1, 20%)

**Stratum: Tree 2**

Height avg. = 7.8m, range 3-11m, 5 sites

Crown cover avg. = 39.0%, range 5.0-55.0%, 5 sites

Dominant species (relative cover, frequency): *Callitris glaucophylla* (75, 100%), *Eucalyptus melanophloia* (11, 80%)

Frequent species (cover, frequency): *Heteropogon contortus* (20%), *Callitris glaucophylla* (31, 100%), *Eucalyptus melanophloia* (1, 80%), *Acacia leiocalyx subsp. leiocalyx* (8, 20%), *Alphitonia excelsa* (20%), *Eucalyptus populnea* (20%), *Geijera parviflora* (8, 20%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Shrub 1**

Height avg. = 1.8m, range 1.3-2.5m, 4 sites

Crown cover avg. = 4.5%, range 2.0-10.0%, 4 sites

Dominant species (relative cover, frequency): *Callitris glaucophylla* (43, 80%), *Eucalyptus melanophloia* (17, 40%), *Cassinia laevis* (13, 60%)

Frequent species (cover, frequency): *Callitris glaucophylla* (2, 80%), *Cassinia laevis* (60%), *Eucalyptus melanophloia* (1, 40%), *Acacia leiocalyx subsp. leiocalyx* (4, 20%), *Alphitonia excelsa* (1, 20%), *Denhamia cunninghamii* (1, 20%), *Dodonaea viscosa* (20%), *Petalostigma pubescens* (1, 20%), *Psyrdrax oleifolia* (1, 20%)

**Stratum: Shrub 2**

Height avg. = 0.8m, 1 site

Crown cover avg. = 5.0%, 1 site

Frequent species (cover, frequency): *Eremophila mitchellii* (20%)

**Stratum: Ground**

Height avg. = 0.2m, range 0.1-0.3m, 5 sites

PFC avg. = 42.6%, range 20-73%, 5 sites

Dominant species (relative cover, frequency): *Themeda triandra* (27, 40%), *Cyperus gracilis* (21, 60%), *Eremochloa bimaculata* (20, 40%), *Aristida jerichoensis var. jerichoensis* (17, 40%), *Digitaria brownii* (14, 40%)

Frequent species (cover, frequency): GRAMINOIDS: *Cymbopogon refractus* (3, 100%), *Panicum effusum* (1, 80%), *Cyperus gracilis* (11, 60%), *Sporobolus creber* (60%), *Aristida jerichoensis var. jerichoensis* (4, 40%), *Chloris ventricosa* (40%), *Digitaria brownii* (3, 40%), *Digitaria indet.* (3, 40%), *Digitaria parviflora* (1, 40%), *Enneapogon lindleyanus* (3, 40%), *Eragrostis indet.* (1, 40%), *Eragrostis lacunaria* (1, 40%), *Eremochloa bimaculata* (5, 40%), *Eulalia aurea* (1, 40%), *Heteropogon contortus* (1, 40%), *Setaria surgens* (40%), *Themeda triandra* (31, 40%), *Alloteropsis cimicina* (20%), *Alloteropsis semialata* (2, 20%), *Ancistrachne uncinulata* (20%), *Aristida calycina var. calycina* (1, 20%), *Aristida caput-medusae* (20, 20%), *Aristida holathera var. holathera* (20%), *Aristida indet.* (2, 20%), *Aristida personata* (5, 20%), *Aristida queenslandica var. dissimilis* (1, 20%), *Bothriochloa ewartiana* (2, 20%), *Cenchrus ciliaris\** (20%), *Chrysopogon fallax* (1, 20%), *Digitaria amphiola* (20%), *Eragrostis brownii* (26, 20%), *Eragrostis elongata* (20%), *Eragrostis leptostachya* (20%), *Eragrostis sororia* (20%), *Melinis repens\** (20%), *Paspalidium distans* (20%), *Paspalidium gracile* (20%), *Scleria mackaviensis* (20%), *Triraphis mollis* (1, 20%)

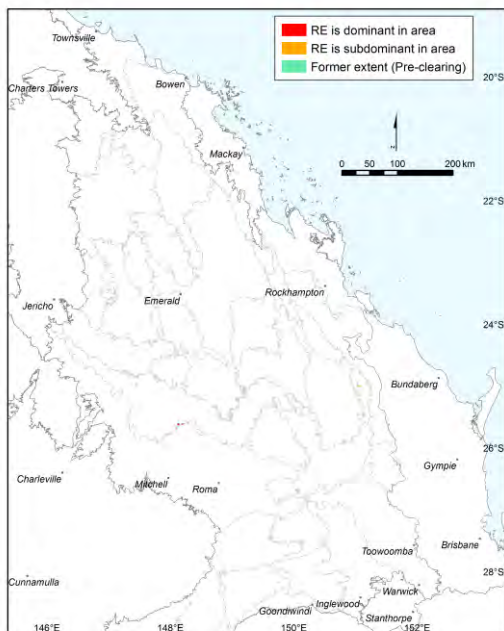
FORBS: *Asteraceae indet.* (40%), *Cheilanthes sieberi* (2, 40%), *Cheilanthes sieberi subsp. sieberi* (3, 40%), *Cyanthillium cinereum* (40%), *Einadia nutans* (40%), *Goodenia indet.* (40%), *Grewia retusifolia* (40%), *Opuntia stricta\** (40%), *Opuntia tomentosa\** (40%), *Verbesina encelioides\** (40%), *Wahlenbergia gracilis* (40%), *Acanthaceae indet.* (20%), *Amyema quandang* (20%), *Brunoniella acaulis* (20%), *Brunoniella australis* (20%), *Calotis hispidula* (1, 20%), *Capparis canescens* (20%), *Carissa ovata* (5, 20%), *Cassinia laevis* (20%), *Cassytha pubescens* (20%), *Chamaecrista indet.* (20%), *Desmodium varians* (2, 20%), *Dianella indet.* (20%), *Dianella longifolia* (1, 20%), *Dianella revoluta* (20%), *Eremophila debilis* (1, 20%), *Ericaceae indet.* (1, 20%), *Eucalyptus crebra* (20%), *Euphorbia prostrata\** (20%), *Everistia vacciniifolia* (20%), *Evolvulus alsinoides* (20%), *Geijera parviflora* (20%), *Glycine clandestina* (20%), *Glycine indet.* (20%), *Glycine tabacina* (1, 20%), *Goodenia glabra* (20%), *Hibiscus indet.* (20%), *Hibiscus sturtii* (20%), *Jasminum didymum* (1, 20%), *Laxmannia gracilis* (20%), *Liliaceae indet.* (20%), *Lomandra confertifolia subsp. pallida* (2, 20%), *Lomandra multiflora subsp. multiflora* (20%), *Myoporum acuminatum* (20%), *Oxalis chnoides* (20%), *Oxalis corniculata\** (20%), *Oxalis indet.* (1, 20%), *Oxalis radicata* (20%), *Parsonia straminea* (20%), *Parthenium hysterophorus\** (20%), *Petalostigma pubescens* (20%), *Phyllanthus fuernrohrii* (20%), *Pittosporum angustifolium* (20%), *Pseuderanthemum variabile* (20%), *Pseudognaphalium luteoalbum* (20%), *Rubiaceae indet.* (20%), *Sida atherophora* (20%), *Sida fibulifera* (20%), *Sida hackettiana* (1, 20%), *Sida indet.* (20%), *Solanum parvifolium* (20%), *Spermacoce brachystema* (20%), *Spermacoce multicaulis* (2, 20%), *Vernonia cuneata* (20%), *Vigna lanceolata* (20%), *Vigna lanceolata var. lanceolata* (20%), *Wahlenbergia queenslandica* (2, 20%), *Waltheria indica* (20%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Eucalyptus moluccana or E. microcarpa woodland on lower slopes**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 2,400 2,009 84%

Species\_recorded: Total: 109; woody: 36; ground: 81; Avg. spp./site: 40.3; std dev.: 11.9, 3 site(s)

Basal area: Avg./site: 14.3 m<sup>2</sup>/ha, range: 9.0 - 25 m<sup>2</sup>/ha, std. deviation: 6 m<sup>2</sup>/ha, 4 site(s)

Structural formation: Woodland: 50%; open-woodland: 25%; open-forest: 25%, 4 site(s)

Representative\_sites 13864, 16853, 19270, 24608.

**Stratum: Tree 1**

Height avg. = 21.6m, range 16.5-26m, 4 sites

Crown cover avg. = 29.5%, range 3.0-60.0%, 4 sites

Dominant species (relative cover, frequency): *Eucalyptus moluccana* (99, 75%), *Eucalyptus crebra* (51, 50%), *Eucalyptus microcarpa* (1, 25%)

Frequent species (cover, frequency): *Eucalyptus moluccana* (31, 75%), *Eucalyptus crebra* (8, 50%), *Eucalyptus microcarpa* (25%)

**Stratum: Tree 2**

Height avg. = 12.7m, range 8-20m, 3 sites

Crown cover avg. = 9.7%, range 7.0-12.0%, 3 sites

Dominant species (relative cover, frequency): *Eucalyptus crebra* (98, 25%), *Eucalyptus moluccana* (60, 50%), *Acacia rhodoxylon* (40, 50%), *Eucalyptus microcarpa* (2, 25%)

Frequent species (cover, frequency): *Acacia rhodoxylon* (5, 50%), *Eucalyptus moluccana* (7, 50%), *Eucalyptus crebra* (5, 25%), *Eucalyptus microcarpa* (25%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Shrub 1**

Height avg. = 3.1m, range 2-5m, 3 sites

Crown cover avg. = 18.5%, range 5.0-45.0%, 4 sites

Dominant species (relative cover, frequency): *Acacia rhodoxylon* (68, 25%), *Ehretia membranifolia* (53, 50%), *Psydrax odorata* (31, 50%), *Dodonaea viscosa subsp. spatulata* (27, 25%), *Eremophila mitchellii* (23, 25%)

Frequent species (cover, frequency): *Alphitonia excelsa* (50%), *Denhamia cunninghamii* (50%), *Dodonaea stenophylla* (5, 50%), *Ehretia membranifolia* (3, 50%), *Eucalyptus crebra* (1, 50%), *Myoporum acuminatum* (50%), *Psydrax odorata* (6, 50%), *Acacia disparrima subsp. disparrima* (25%), *Acacia leiocalyx subsp. leiocalyx* (5, 25%), *Acacia rhodoxylon* (4, 25%), *Alectryon diversifolius* (1, 25%), *Atalaya hemiglaucula* (5, 25%), *Atalaya salicifolia* (25%), *Callitris glaucophylla* (25%), *Capparis arborea* (25%), *Cassinia laevis* (25%), *Corymbia citriodora* (25%), *Denhamia bilocularis* (25%), *Denhamia pittosporoides subsp. pittosporoides* (25%), *Diospyros geminata* (25%), *Dodonaea triangularis* (25%), *Dodonaea viscosa subsp. spatulata* (12, 25%), *Elaeodendron australe* (25%), *Eremophila mitchellii* (10, 25%), *Erythroxylum sp. (Splityard Creek L.Pedley 5360)* (1, 25%), *Eucalyptus moluccana* (25%), *Flindersia collina* (25%), *Hibiscus heterophyllus* (25%), *Jagera pseudorhus var. pseudorhus* (25%), *Olearia canescens* (25%), *Opuntia stricta\** (25%), *Opuntia tomentosa\** (3, 25%), *Pittosporum spinescens* (25%), *Secamone elliptica* (25%)

**Stratum: Shrub 2**

Height avg. = 2.0m, 1 site

Crown cover avg. = 30.0%, 1 site

Dominant species (relative cover, frequency): *Alectryon diversifolius* (70, 25%), *Cassia indet.* (30, 25%)

Frequent species (cover, frequency): *Alectryon diversifolius* (16, 25%), *Cassia indet.* (7, 25%)

**Stratum: Ground**

Height avg. = 0.5m, range 0.3-0.7m, 3 sites

PFC avg. = 18.3%, range 15-25%, 3 sites

Dominant species (relative cover, frequency): *Scleria sphacelata* (33, 67%), *Lantana camara\** (24, 33%), *Aristida ramosa* (17, 33%), *Cheilanthes sieberi subsp. sieberi* (14, 33%), *Bothriochloa decipiens* (14, 33%)

Frequent species (cover, frequency): GRAMINOIDS: *Aristida gracilipes* (1, 100%), *Cyperus gracilis* (100%), *Enteropogon unispiceus* (1, 67%), *Gahnia aspera* (67%), *Panicum effusum* (67%), *Scleria brownii* (67%), *Scleria sphacelata* (5, 67%), *Aristida ramosa* (5, 33%), *Bothriochloa decipiens* (4, 33%), *Chloris divaricata* (33%), *Chloris ventricosa* (4, 33%), *Cymbopogon refractus* (33%), *Dichanthium sericeum subsp. humilium* (33%), *Dinebra decipiens var. decipiens* (33%), *Eragrostis megalosperma* (33%), *Eragrostis sororia* (2, 33%), *Paspalidium albobillosum* (33%), *Paspalidium caespitosum* (33%), *Paspalidium criniforme* (33%), *Sporobolus creber* (33%), *Sporobolus laxus* (33%)

FORBS: *Alternanthera nana* (67%), *Brunoniella australis* (67%), *Carissa ovata* (1, 67%), *Einadia hastata* (67%), *Opuntia stricta\** (67%), *Spermacoce multicaulis* (67%), *Acacia leiocalyx subsp. leiocalyx* (33%), *Anthobolus leptomerioides* (33%), *Aristolochia meridionalis* (33%), *Camptacra barbata* (33%), *Cayratia clematidea* (33%), *Cheilanthes distans* (1, 33%), *Cheilanthes sieberi subsp. sieberi* (4, 33%), *Cyanthillium cinereum* (33%), *Dianella brevipedunculata* (33%), *Dianella caerulea* (33%), *Dodonaea stenophylla* (3, 33%), *Dodonaea viscosa subsp. spatulata* (4, 33%), *Dysphania carinata* (33%), *Euphorbia dallachyana* (33%), *Euphorbia hirta\** (33%), *Galactia tenuiflora* (33%), *Geijera parviflora* (33%), *Glossocardia bidens* (33%), *Glycine clandestina* (33%), *Goodenia rotundifolia* (33%), *Grewia retusifolia* (33%), *Jasminum didymum subsp. racemosum* (33%), *Lantana camara\** (2, 33%), *Laxmannia gracilis* (33%), *Lomandra filiformis subsp. filiformis* (33%), *Lomandra multiflora subsp. multiflora* (33%), *Malvastrum americanum var. americanum\** (33%), *Melhania oblongifolia* (33%), *Opuntia tomentosa\** (33%), *Oxalis corniculata\** (33%), *Phyllanthus virgatus* (33%), *Rhynchosia minima* (33%), *Rostellularia adscendens* (33%), *Senna barclayana* (33%), *Sida corrugata* (33%), *Sida sp. (Musselbrook M.B.Thomas+ MRS437)* (33%), *Solanum nemophilum* (33%), *Teucrium argutum* (33%)

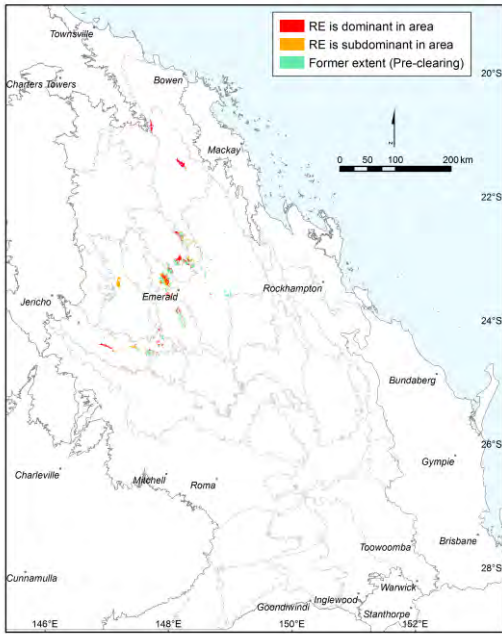
Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus



**Eucalyptus populnea woodland on medium to coarse-grained sedimentary rocks**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 98,510 47,486 48%

Species\_recorded: Total: 124; woody: 30; ground: 97; Avg. spp./site: 40.3; std dev.: 15.2, 4 site(s)

Basal area: Avg./site: 7.8 m<sup>2</sup>/ha, range: 3.0 - 11 m<sup>2</sup>/ha, std. deviation: 3 m<sup>2</sup>/ha, 5 site(s)

Structural formation: Woodland: 40%; open-woodland: 40%; low woodland: 20%, 5 site(s)

Representative\_sites 16301, 17024, 19249, 28762, 28780.

**Stratum: Tree 1**

Height avg. = 16.4m, range 9-22m, 5 sites

Crown cover avg. = 19.0%, range 4.0-36.0%, 5 sites

Dominant species (relative cover, frequency): *Eucalyptus populnea* (94, 100%)

Frequent species (cover, frequency): *Eucalyptus populnea* (17, 100%), *Corymbia clarksoniana* (1, 20%), *Eucalyptus cambageana* (8, 20%)

**Stratum: Tree 2**

Height avg. = 6.6m, range 4.5-10m, 4 sites

Crown cover avg. = 2.0%, range 1.0-3.0%, 4 sites

Dominant species (relative cover, frequency): *Eremophila mitchellii* (44, 40%)

Frequent species (cover, frequency): *Eremophila mitchellii* (1, 40%), *Acacia bancroftiorum* (1, 20%), *Acacia excelsa* (20%), *Acacia fodinalis* (20%), *Acacia harpophylla* (3, 20%), *Alectryon oleifolius subsp. elongatus* (1, 20%), *Alstonia constricta* (1, 20%), *Dodonaea viscosa subsp. spatulata* (20%), *Eucalyptus populnea* (20%), *Grevillea striata* (20%), *Parsonsia eucalyptophylla* (20%), *Psyrax oleifolia* (1, 20%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Tree 3**

Height avg. = 6.0m, 1 site

Crown cover avg. = 1.0%, 1 site

*Frequent species (cover, frequency): Geijera salicifolia (1, 20%)*

**Stratum: Shrub 1**

Height avg. = 1.9m, range 1.5-2m, 5 sites

Crown cover avg. = 6.2%, range 1.0-20.0%, 5 sites

*Dominant species (relative cover, frequency): Cassia brewsteri (45, 40%), Eremophila mitchellii (37, 60%), Erythroxylum sp. (Splityard Creek L.Pedley 5360) (9, 40%)*

*Frequent species (cover, frequency): Eremophila mitchellii (2, 60%), Cassia brewsteri (1, 40%), Erythroxylum sp. (Splityard Creek L.Pedley 5360) (1, 40%), Acacia bancroftiorum (1, 20%), Acacia fodinalis (20%), Alphitonia excelsa (1, 20%), Alstonia constricta (1, 20%), Carissa ovata (1, 20%), Cassinia laevis (1, 20%), Dodonaea viscosa subsp. spatulata (17, 20%), Ehretia membranifolia (1, 20%), Erythrina vespertilio (20%), Erythroxylum australe (1, 20%), Eucalyptus populnea (20%), Psydrax oleifolia (1, 20%), Terminalia oblongata subsp. oblongata (2, 20%)*

**Stratum: Shrub 2**

Height avg. = 0.8m, range 0.5-1m, 2 sites

Crown cover avg. = 17.0%, range 6.0-28.0%, 2 sites

*Frequent species (cover, frequency): Alectryon diversifolius (13, 20%), Alphitonia excelsa (1, 20%), Capparis loranthifolia var. loranthifolia (1, 20%), Carissa ovata (13, 20%), Croton phebalioides (3, 20%), Grewia retusifolia (1, 20%), Psydrax oleifolia (1, 20%), Stylosanthes scabra\* (5, 20%), Waltheria indica (1, 20%)*

**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Ground**

Height avg. = 0.5m, range 0.2-0.75m, 4 sites

PFC avg. = 48.0%, range 40-60%, 4 sites

*Dominant species (relative cover, frequency):* *Chrysopogon fallax* (55, 25%), *Aristida lignosa* (35, 25%), *Eriochloa fatmensis* (23, 25%), *Chloris ventricosa* (22, 25%), *Aristida calycina* (11, 25%)

*Frequent species (cover, frequency):* GRAMINOIDS: *Heteropogon contortus* (1, 100%), *Cenchrus ciliaris*\* (1, 75%), *Enneapogon lindleyanus* (1, 75%), *Eragrostis sororia* (2, 75%), *Melinis repens*\* (4, 75%), *Paspalidium gracile* (1, 75%), *Aristida caput-medusae* (8, 50%), *Aristida queenslandica* var. *dissimilis* (4, 50%), *Dinebra decipiens* (1, 50%), *Enteropogon acicularis* (1, 50%), *Enteropogon unispiceus* (4, 50%), *Eragrostis lacunaria* (3, 50%), *Panicum effusum* (3, 50%), *Aristida calycina* (5, 25%), *Aristida calycina* var. *calycina* (5, 25%), *Aristida holathera* var. *holathera* (1, 25%), *Aristida* *indet.* (25%), *Aristida lignosa* (25, 25%), *Bothriochloa decipiens* var. *decipiens* (3, 25%), *Bothriochloa ewartiana* (25%), *Chloris divaricata* (1, 25%), *Chloris ventricosa* (10, 25%), *Chrysopogon fallax* (25, 25%), *Cymbopogon queenslandicus* (1, 25%), *Cyperus fulvus* (25%), *Cyperus gracilis* (25%), *Cyperus* *indet.* (1, 25%), *Dichanthium sericeum* (1, 25%), *Digitaria ammophila* (25%), *Digitaria ciliaris*\* (25%), *Digitaria parviflora* (3, 25%), *Digitaria ramularis* (1, 25%), *Enneapogon virens* (1, 25%), *Enteropogon ramosus* (25%), *Eragrostis alveiformis* (5, 25%), *Eragrostis megalosperma* (1, 25%), *Eragrostis speciosa* (3, 25%), *Eriochloa fatmensis* (11, 25%), *Eulalia aurea* (25%), *Fimbristylis dichotoma* (25%), *Panicum decompositum* (1, 25%), *Panicum* *indet.* (2, 25%), *Perotis rara* (25%), *Setaria dielsii* (1, 25%), *Sporobolus caroli* (2, 25%), *Themeda avenacea* (25%), *Themeda triandra* (2, 25%), *Tragus australianus* (25%), *Urochloa foliosa* (1, 25%), *Urochloa* *indet.* (25%), *Urochloa mosambicensis*\* (25%)

FORBS: *Achyranthes aspera* (75%), *Cyanthillium cinereum* (75%), *Alternanthera nana* (50%), *Calotis cuneifolia* (50%), *Melhantha oblongifolia* (1, 50%), *Phyllanthus virgatus* (50%), *Pterocaulon redolens* (50%), *Salsola australis* (1, 50%), *Sida atherophora* (3, 50%), *Sida* *sp.* (*Musselbrook M.B.Thomas+ MRS437*) (50%), *Alphitonia excelsa* (1, 25%), *Amaranthus cochleitepalus* (25%), *Carissa ovata* (1, 25%), *Chamaecrista absus* var. *absus* (25%), *Cheilanthes sieberi* (1, 25%), *Dysphania glomulifera* subsp. *glomulifera* (25%), *Evolvulus alsinoides* (25%), *Glycine* *indet.* (2, 25%), *Grewia latifolia* (1, 25%), *Hibiscus* *indet.* (1, 25%), *Hibiscus sturtii* var. *campylochlamys* (1, 25%), *Indigofera colutea* (25%), *Jacquemontia paniculata* (25%), *Malvastrum americanum* var. *americanum*\* (1, 25%), *Myoporum acuminatum* (1, 25%), *Nyssanthus erecta* (25%), *Parsonsia lanceolata* (25%), *Parsonsia straminea* (1, 25%), *Peripleura hispidula* var. *hispidula* (25%), *Peripleura hispidula* var. *setosa* (25%), *Petalostigma pubescens* (1, 25%), *Polycarpha corymbosa* var. *minor* (1, 25%), *Polygala isingii* (25%), *Portulaca australis* (25%), *Pterocaulon serrulatum* var. *serrulatum* (25%), *Rhynchosia minima* (25%), *Rostellularia adscendens* (25%), *Sauropus trachyspermus* (25%), *Sida cordifolia*\* (1, 25%), *Sida rohlena* (3, 25%), *Solanum ellipticum* (1, 25%), *Spermacoce brachystema* (25%), *Sphaeromorphaea* *indet.* (25%), *Vittadinia pustulata* (1, 25%), *Waltheria indica* (25%), *Zornia muriculata* (25%)

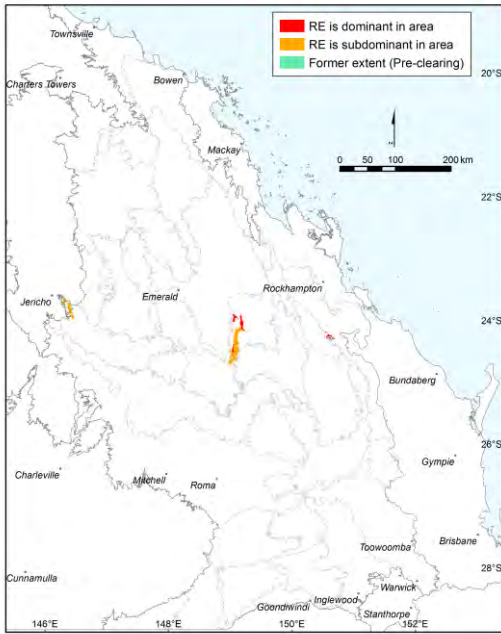
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**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Eucalyptus spp. and/or Corymbia spp. open forest on scarps and sandstone tablelands**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 46,775 43,878 94%

Species\_recorded: Total: 112; woody: 46; ground: 71; Avg. spp./site: 26.8; std dev.: 10.5, 4 site(s)

Basal area: Avg./site: 13.4 m<sup>2</sup>/ha, range: 8.5 - 18 m<sup>2</sup>/ha, std. deviation: 3 m<sup>2</sup>/ha, 8 site(s)

Structural formation: Woodland: 63%; open-woodland: 25%; open-forest: 13%, 8 site(s)

Representative\_sites 16324, 17315, 17316, 17328, 17361, 17362, 17380, 17537.

**Stratum: Tree 1**

Height avg. = 16.4m, range 15-19m, 8 sites

Crown cover avg. = 30.2%, range 15.0-58.0%, 8 sites

Dominant species (relative cover, frequency): *Eucalyptus suffulgens* (56, 25%), *Eucalyptus cloeziana* (46, 25%), *Eucalyptus baileyana* (35, 38%), *Corymbia trachyphloia* (25, 25%), *Eucalyptus mediocris* (23, 25%)

Frequent species (cover, frequency): *Corymbia hendersonii* (6, 75%), *Corymbia bunites* (5, 63%), *Eucalyptus baileyana* (16, 38%), *Corymbia trachyphloia* (5, 25%), *Eucalyptus cloeziana* (19, 25%), *Eucalyptus mediocris* (6, 25%), *Eucalyptus suffulgens* (12, 25%), *Lysicarpus angustifolius* (4, 25%), *Angophora leiocarpa* (10, 13%), *Corymbia intermedia* (13%), *Corymbia trachyphloia subsp. trachyphloia* (13%), *Eucalyptus indet.* (10, 13%), *Eucalyptus melanoleuca* (12, 13%), *Eucalyptus tholiformis* (4, 13%), *Lophostemon suaveolens* (13%)

**Stratum: Tree 2**

Height avg. = 8.3m, range 6-12m, 6 sites

Crown cover avg. = 22.5%, range 2.0-80.0%, 6 sites

Dominant species (relative cover, frequency): *Lysicarpus angustifolius* (55, 38%)

Frequent species (cover, frequency): *Lysicarpus angustifolius* (4, 38%), *Acacia blakei* (10, 13%), *Acacia complanata* (5, 13%), *Acacia crassa subsp. crassa* (60, 13%), *Acacia flavescens* (5, 13%), *Acacia leiocalyx subsp. leiocalyx* (13%), *Alphitonia excelsa* (10, 13%), *Callitris endlicheri* (15, 13%), *Callitris glaucophylla* (10, 13%), *Corymbia trachyphloia* (1, 13%), *Dolichandrone heterophylla* (5, 13%), *Eucalyptus cloeziana* (2, 13%), *Stenocarpus salignus* (13%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Tree 3**

Height avg. = 4.9m, range 4-6m, 4 sites

Crown cover avg. = 32.0%, range 2.0-90.8%, 4 sites

Dominant species (relative cover, frequency): *Acacia longispicata* (35, 25%)

Frequent species (cover, frequency): *Acacia longispicata* (5, 25%), *Acacia bancroftiorum* (5, 13%), *Acacia blakei* (5, 13%), *Acacia complanata* (5, 13%), *Acacia crassa* subsp. *crassa* (84, 13%), *Acacia everistii* (5, 13%), *Acacia flavescens* (5, 13%), *Acacia glaucocarpa* (13%), *Allocasuarina torulosa* (2, 13%), *Grevillea sessilis* (16, 13%)

**Stratum: Shrub 1**

Height avg. = 1.7m, range 1-2.5m, 6 sites

Crown cover avg. = 13.8%, range 0.0-35.0%, 6 sites

Dominant species (relative cover, frequency): *Jacksonia scoparia* (40, 25%), *Cassinia laevis* (23, 25%), *Leptospermum lamellatum* (18, 38%), *Hovea lanceolata* (7, 25%), *Boronia bipinnata* (1, 25%)

Frequent species (cover, frequency): *Leptospermum lamellatum* (7, 38%), *Boronia bipinnata* (25%), *Cassinia laevis* (1, 25%), *Hovea lanceolata* (3, 25%), *Jacksonia scoparia* (8, 25%), *Acacia complanata* (3, 13%), *Acacia decora* (1, 13%), *Acacia implexa* (13%), *Allocasuarina torulosa* (2, 13%), *Capparis indet.* (13%), *Corymbia hendersonii* (1, 13%), *Corymbia trachyphloia* (1, 13%), *Daviesia filipes* (5, 13%), *Dodonaea peduncularis* (2, 13%), *Grevillea sessilis* (13%), *Hibbertia linearis* var. *obtusifolia* (10, 13%), *Homoranthus melanostictus* (13%), *Petalostigma pachyphyllum* (15, 13%), *Planchonella cotinifolia* (3, 13%)

**Stratum: Shrub 2**

Height avg. = 0.5m, 1 site

Crown cover avg. = 34.0%, 1 site

Frequent species (cover, frequency): *Allocasuarina torulosa* (16, 13%), *Persoonia subtilis* (2, 13%), *Petalostigma pachyphyllum* (16, 13%)

**Stratum: Ground**

Height avg. = 0.6m, range 0.3-1.2m, 4 sites

PFC avg. = 35.0%, range 20-80%, 4 sites

Dominant species (relative cover, frequency): *Eriachne mucronata* (75, 25%), *Schizachyrium fragile* (31, 25%), *Triodia mitchellii* (19, 50%), *Xanthorrhoea indet.* (15, 25%), *Melichrus sp. (Isla Gorge P.Sharpe+ 601)* (15, 25%)

Frequent species (cover, frequency): GRAMINOIDS: *Eragrostis sororia* (2, 75%), *Panicum effusum* (3, 75%), *Aristida caput-medusae* (3, 50%), *Digitaria breviglumis* (50%), *Fimbristylis dichotoma* (50%), *Setaria dielsii* (8, 50%), *Triodia mitchellii* (8, 50%), *Aristida indet.* (3, 25%), *Aristida vagans* (25%), *Arundinella nepalensis* (5, 25%), *Cleistochloa subjuncea* (25%), *Cymbopogon obtectus* (25%), *Cyperus isabellinus* (25%), *Digitaria ramularis* (2, 25%), *Entolasia stricta* (2, 25%), *Eriachne mucronata* (15, 25%), *Eriachne rara* (5, 25%), *Melinis repens\** (2, 25%), *Panicum buncei* (25%), *Panicum decompositum* (1, 25%), *Schizachyrium fragile* (25, 25%), *Scleria sphaelata* (2, 25%)

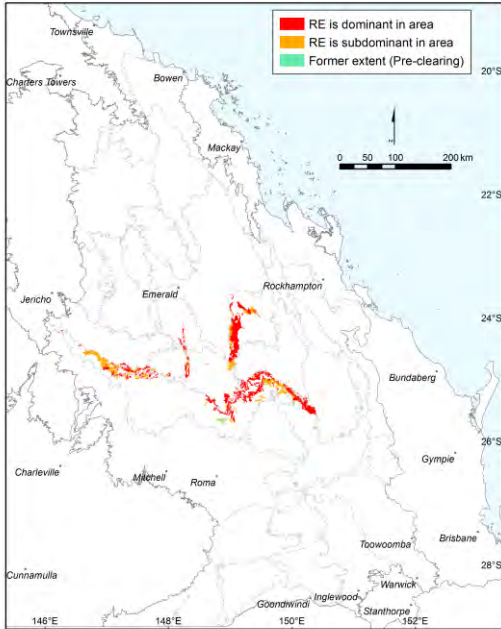
FORBS: *Cheilanthes sieberi* (50%), *Dianella longifolia* (1, 50%), *Laxmannia gracilis* (2, 50%), *Vittadinia pustulata* (1, 50%), *Alphitonia excelsa* (1, 25%), *Bidens pilosa\** (25%), *Boronia bipinnata* (25%), *Cheilanthes sieberi* subsp. *sieberi* (1, 25%), *Chloanthes parviflora* (25%), *Cryptandra indet.* (25%), *Dampiera adpressa* (25%), *Dianella revoluta* (1, 25%), *Dodonaea filifolia* (1, 25%), *Dodonaea peduncularis* (25%), *Dodonaea triangularis* (1, 25%), *Dodonaea vestita* (25%), *Goodenia rotundifolia* (25%), *Grevillea floribunda* subsp. *floribunda* (2, 25%), *Hibbertia linearis* var. *obtusifolia* (2, 25%), *Hypericum gramineum* (25%), *Lomandra multiflora* subsp. *multiflora* (25%), *Macrozamia platyrhachis* (25%), *Melichrus sp. (Isla Gorge P.Sharpe+ 601)* (2, 25%), *Mitrasacme paludosa* (25%), *Phyllanthus virgatus* (1, 25%), *Pimelea linifolia* (25%), *Podolepis longipedata* (25%), *Pomax umbellata* (2, 25%), *Xanthorrhoea indet.* (2, 25%), *Xanthorrhoea johnsonii* (2, 25%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Eucalyptus cloeziana +/- E. melanoleuca +/- Corymbia bunites +/- E. sphaerocarpa woodland to open forest**



**Pre-clearing area (ha), remnant area (ha) and per cent remaining:** 327,274 321,626 98%

**Species\_recorded:** Total: 171; woody: 73; ground: 119; Avg. spp./site: 24.3; std dev.: 6.5, 6 site(s)

**Basal area:** Avg./site: 12.6 m<sup>2</sup>/ha, range: 5.5 - 19 m<sup>2</sup>/ha, std. deviation: 5 m<sup>2</sup>/ha, 19 site(s)

**Structural formation:** Woodland: 42%; open-forest: 32%; open-woodland: 11%; tall open-forest: 5%; low open-forest: 5%; closed-forest: 5%, 19 site(s)

**Representative\_sites** 16259, 16263, 16264, 16267, 16268, 16269, 16271, 16277, 16305, 16318, 16321, 16555, 16624, 17317, 17318, 17323, 17329, 17533, 24611.

**Stratum: Emergent**

**Height avg. = 28.0m, 1 site**

**Crown cover avg. = 3.0%, 1 site**

*Frequent species (cover, frequency): Eucalyptus baileyana (3, 5%)*

**Stratum: Tree 1**

**Height avg. = 17.8m, range 8-34m, 19 sites**

**Crown cover avg. = 43.0%, range 5.0-91.9%, 19 sites**

*Dominant species (relative cover, frequency): Eucalyptus baileyana (46, 32%), Eucalyptus melanoleuca (35, 21%), Corymbia bunites (34, 63%), Eucalyptus cloeziana (28, 42%), Corymbia hendersonii (23, 37%)*

*Frequent species (cover, frequency): Corymbia bunites (13, 63%), Eucalyptus cloeziana (10, 42%), Corymbia hendersonii (16, 37%), Eucalyptus baileyana (32, 32%), Eucalyptus melanoleuca (25, 21%), Eucalyptus mediocris (6, 16%), Eucalyptus suffulgens (18, 16%), Eucalyptus tenuipes (9, 16%), Angophora leiocarpa (6, 11%), Corymbia trachyphloia (5, 11%), Corymbia trachyphloia subsp. trachyphloia (6, 11%), Corymbia watsoniana subsp. watsoniana (6, 11%), Eucalyptus sphaerocarpa (12, 11%), Eucalyptus tholiformis (9, 11%), Lysicarpus angustifolius (3, 11%), Acacia shirleyi (1, 5%), Allocasuarina inophloia (1, 5%), Eucalyptus corynodes (2, 5%), Eucalyptus crebra (2, 5%), Eucalyptus decorticans (2, 5%), Eucalyptus propinqua (6, 5%)*

**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Tree 2**

Height avg. = 10.2m, range 5-16m, 16 sites

Crown cover avg. = 15.4%, range 1.0-50.0%, 16 sites

Dominant species (relative cover, frequency): *Lysicarpus angustifolius* (53, 37%), *Corymbia hendersonii* (41, 26%)

Frequent species (cover, frequency): *Lysicarpus angustifolius* (6, 37%), *Corymbia hendersonii* (11, 26%), *Corymbia bunites* (8, 16%), *Eucalyptus cloeziana* (2, 16%), *Leptospermum lamellatum* (2, 11%), *Acacia blakei* (10, 5%), *Allocasuarina inophloia* (8, 5%), *Angophora leiocarpa* (5, 5%), *Callitris endlicheri* (10, 5%), *Corymbia trachyphloia* (5%), *Corymbia trachyphloia* subsp. *trachyphloia* (3, 5%), *Corymbia watsoniana* (13, 5%), *Corymbia watsoniana* subsp. *watsoniana* (3, 5%), *Eucalyptus acmenoides* (5%), *Eucalyptus baileyana* (10, 5%), *Eucalyptus corynodes* (5%), *Eucalyptus melanoleuca* (25, 5%), *Eucalyptus propinqua* (3, 5%), *Eucalyptus sphaerocarpa* (5, 5%), *Eucalyptus suffulgens* (1, 5%), *Eucalyptus tenuipes* (10, 5%), *Lophostemon suaveolens* (2, 5%), *Syncarpia glomulifera* subsp. *glomulifera* (13, 5%)

**Stratum: Tree 3**

Height avg. = 4.6m, range 2-7.5m, 7 sites

Crown cover avg. = 9.9%, range 2.0-20.0%, 7 sites

Frequent species (cover, frequency): *Corymbia bunites* (5, 16%), *Angophora leiocarpa* (3, 11%), *Leptospermum lamellatum* (6, 11%), *Lysicarpus angustifolius* (7, 11%), *Acacia flavescens* (1, 5%), *Acacia longispicata* (2, 5%), *Allocasuarina torulosa* (15, 5%), *Alphitonia excelsa* (5%), *Bursaria incana* (5%), *Corymbia trachyphloia* subsp. *trachyphloia* (1, 5%), *Eucalyptus suffulgens* (1, 5%), *Jacksonia scoparia* (5%), *Syncarpia glomulifera* subsp. *glomulifera* (3, 5%), *Xylomelum cunninghamianum* (2, 5%)

**Stratum: Shrub 1**

Height avg. = 2.0m, range 0.5-4.5m, 18 sites

Crown cover avg. = 19.8%, range 3.0-55.0%, 18 sites

Dominant species (relative cover, frequency): *Leptospermum lamellatum* (49, 26%), *Acacia complanata* (31, 21%), *Petalostigma pachyphyllum* (30, 21%)

Frequent species (cover, frequency): *Leptospermum lamellatum* (10, 26%), *Acacia complanata* (8, 21%), *Petalostigma pachyphyllum* (9, 21%), *Acacia juncifolia* (1, 16%), *Corymbia bunites* (2, 16%), *Eucalyptus tenuipes* (3, 16%), *Acacia gittinsii* (12, 11%), *Acacia longispicata* (9, 11%), *Alphitonia excelsa* (5, 11%), *Dodonaea peduncularis* (4, 11%), *Grevillea longistyla* (2, 11%), *Hovea longipes* (5, 11%), *Jacksonia scoparia* (7, 11%), *Pultenaea spinosa* (2, 11%), *Xanthorrhoea johnsonii* (3, 11%), *Acacia bancroftiorum* (5, 5%), *Acacia blakei* (1, 5%), *Acacia crassa* subsp. *crassa* (3, 5%), *Acacia flavescens* (6, 5%), *Acacia macradenia* (5%), *Acacia storyi* (13, 5%), *Allocasuarina inophloia* (3, 5%), *Allocasuarina torulosa* (2, 5%), *Angophora leiocarpa* (5%), *Astrotricha intermedia* (2, 5%), *Boronia bipinnata* (5%), *Bossiaea brownii* (5%), *Bursaria spinosa* subsp. *spinosa* (20, 5%), *Callitris endlicheri* (2, 5%), *Corymbia hendersonii* (2, 5%), *Eucalyptus cloeziana* (1, 5%), *Eucalyptus corynodes* (1, 5%), *Eucalyptus crebra* (1, 5%), *Eucalyptus suffulgens* (5%), *Gompholobium foliolosum* (5%), *Grevillea sessilis* (5%), *Hakea benthamii* (2, 5%), *Hibbertia linearis* var. *obtusifolia* (5%), *Hovea angustissima* (5%), *Labichea rupestris* (5%), *Leptospermum sericatum* (10, 5%), *Logania albiflora* (30, 5%), *Lysicarpus angustifolius* (1, 5%), *Syncarpia glomulifera* subsp. *glomulifera* (13, 5%), *Triplarina paludosa* (2, 5%), *Xylomelum cunninghamianum* (2, 5%)

**Stratum: Shrub 2**

Height avg. = 0.5m, range 0.5-0.5m, 8 sites

Crown cover avg. = 31.8%, range 15.0-78.0%, 8 sites

Dominant species (relative cover, frequency): *Petalostigma pachyphyllum* (46, 32%)

Frequent species (cover, frequency): *Petalostigma pachyphyllum* (16, 32%), *Jacksonia scoparia* (9, 16%), *Acacia complanata* (12, 11%), *Ricinocarpus linearifolius* (2, 11%), *Banksia oblongifolia* (12, 5%), *Bossiaea carinalis* (5%), *Cassytha pubescens* (4, 5%), *Coelospermum reticulatum* (4, 5%), *Comesperma patentifolium* (2, 5%), *Hibbertia cistoidea* (8, 5%), *Hibbertia oligodonta* (2, 5%), *Hovea planifolia* (13, 5%), *Leptospermum lamellatum* (20, 5%), *Lysicarpus angustifolius* (8, 5%), *Phyllota phyllicoides* (20, 5%), *Pultenaea* indet. (3, 5%), *Solanum nemophilum* (2, 5%), *Xylomelum cunninghamianum* (6, 5%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Ground**

Height avg. = 0.4m, range 0.3-0.6m, 5 sites

PFC avg. = 21.8%, range 10-40%, 6 sites

*Dominant species (relative cover, frequency):* *Triodia mitchellii* (72, 50%), *Petalostigma pachyphyllum* (16, 50%), *Entolasia stricta* (13, 50%), *Lomandra confertifolia* subsp. *pallida* (12, 33%), *Lomandra multiflora* subsp. *multiflora* (3, 33%)

*Frequent species (cover, frequency):* GRAMINOIDS: *Entolasia stricta* (2, 50%), *Triodia mitchellii* (19, 50%), *Aristida queenslandica* (1, 33%), *Aristida queenslandica* var. *dissimilis* (33%), *Cymbopogon refractus* (1, 33%), *Eragrostis sororia* (1, 33%), *Panicum effusum* (1, 33%), *Panicum simile* (33%), *Aristida benthamii* (1, 17%), *Aristida* indet. (17%), *Aristida jerichoensis* var. *jerichoensis* (17%), *Cymbopogon obtectus* (1, 17%), *Digitaria breviglumis* (17%), *Digitaria diffusa* (17%), *Dimorphochloa rigida* (17%), *Eremochloa bimaculata* (1, 17%), *Eriachne pallescens* var. *pallescens* (17%), *Schizachyrium fragile* (5, 17%), *Schoenus sparteus* (17%), *Scleria sphacelata* (1, 17%)

FORBS: *Dianella longifolia* (67%), *Petalostigma pachyphyllum* (3, 50%), *Cheilanthes sieberi* subsp. *sieberi* (33%), *Dianella revoluta* (1, 33%), *Dodonaea* indet. (33%), *Laxmannia gracilis* (33%), *Lomandra confertifolia* subsp. *pallida* (2, 33%), *Lomandra multiflora* subsp. *multiflora* (1, 33%), *Pomax umbellata* (1, 33%), *Acacia complanata* (1, 17%), *Angophora leiocarpa* (17%), *Boronia bipinnata* (17%), *Boronia forsteri* (1, 17%), *Cheilanthes distans* (17%), *Chloanthes parviflora* (17%), *Chrysocephalum apiculatum* (17%), *Coronidium glutinosum* (1, 17%), *Corymbia hendersonii* (17%), *Cyanthillium cinereum* (17%), *Dampiera adpressa* (3, 17%), *Daviesia filipes* (5, 17%), *Daviesia ulicifolia* (17%), *Dianella brevipedunculata* (17%), *Dodonaea viscosa* (17%), *Glycine tabacina* (17%), *Goodenia rotundifolia* (17%), *Grevillea cyranostigma* (17%), *Grevillea floribunda* subsp. *floribunda* (17%), *Grevillea singuliflora* (2, 17%), *Leptospermum lamellatum* (17%), *Leucopogon* indet. (17%), *Lomandra filiformis* (2, 17%), *Lomandra longifolia* (6, 17%), *Macarthuria ephedroides* (17%), *Macrozamia platyrhachis* (17%), *Marsdenia microlepis* (17%), *Notelaea microcarpa* (17%), *Ochrosperma obovatum* (10, 17%), *Opuntia tomentosa*\* (17%), *Peripleura* indet. (17%), *Persoonia falcata* (17%), *Persoonia subtilis* (2, 17%), *Phyllanthus virgatus* (17%), *Pimelea* indet. (1, 17%), *Prostanthera cryptandroides* subsp. *euphrasioides* (17%), *Pultenaea spinosa* (17%), *Seringia corollata* (17%), *Stylidium laricifolium* (17%), *Xanthorrhoea* indet. (10, 17%)

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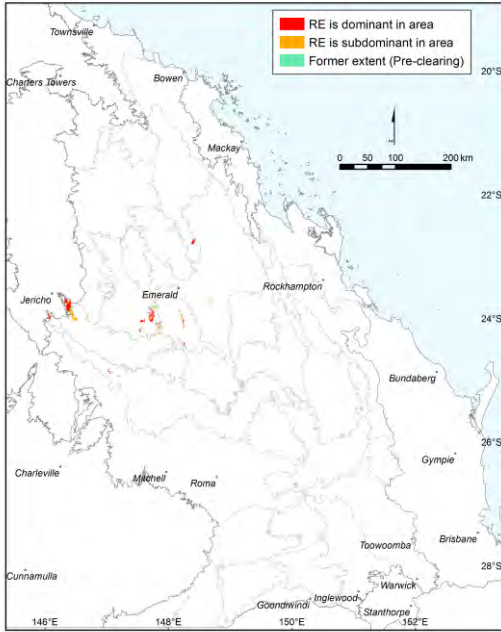
**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus



**Corymbia leichhardtii woodland**



**Pre-clearing area (ha), remnant area (ha) and per cent remaining:** 28,774      25,783      90%

**Species\_recorded:** Total: 73; woody: 19; ground: 61; Avg. spp./site: 20.3; std dev.: 5.4, 3 site(s)

**Basal area:** Avg./site: 13.6 m<sup>2</sup>/ha, range: 9.0 - 18 m<sup>2</sup>/ha, std. deviation: 3 m<sup>2</sup>/ha, 5 site(s)

**Structural formation:** Woodland: 60%; open-woodland: 20%; low woodland: 20%, 5 site(s)

**Representative\_sites** 16696, 28768, 28777, 28790, 28792.

**Stratum: Tree 1**

**Height avg. = 16.4m, range 8-20m, 5 sites**  
**Crown cover avg. = 26.0%, range 17.0-35.0%, 5 sites**

*Dominant species (relative cover, frequency): Corymbia leichhardtii (81, 100%)*

*Frequent species (cover, frequency): Corymbia leichhardtii (21, 100%), Callitris glaucophylla (3, 20%), Corymbia hendersonii (4, 20%), Corymbia indet. (20%), Eucalyptus tenuipes (20, 20%)*

**Stratum: Tree 2**

**Height avg. = 5.0m, range 4-6m, 5 sites**  
**Crown cover avg. = 19.2%, range 6.0-40.0%, 5 sites**

*Dominant species (relative cover, frequency): Acacia fodinalis (84, 40%), Acacia cretata x A. fodinalis (73, 40%), Alphitonia excelsa (15, 80%), Corymbia leichhardtii (13, 40%)*

*Frequent species (cover, frequency): Alphitonia excelsa (2, 80%), Acacia cretata x A. fodinalis (16, 40%), Acacia fodinalis (20, 40%), Corymbia leichhardtii (1, 40%), Acacia bancroftiorum (7, 20%), Acacia julifera (1, 20%), Acacia longispicata (5, 20%), Leptospermum lamellatum (20%)*

**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Shrub 1**

Height avg. = 1.4m, range 1.2-1.5m, 4 sites

Crown cover avg. = 3.3%, range 1.0-5.0%, 4 sites

*Dominant species (relative cover, frequency):* *Leptospermum lamellatum* (49, 60%), *Hovea lanceolata* (31, 40%), *Acacia cretata* x *A. fodinalis* (20, 40%), *Corymbia leichhardtii* (9, 40%), *Alphitonia excelsa* (6, 60%)

*Frequent species (cover, frequency):* *Alphitonia excelsa* (60%), *Leptospermum lamellatum* (2, 60%), *Acacia cretata* x *A. fodinalis* (1, 40%), *Corymbia leichhardtii* (40%), *Hovea lanceolata* (2, 40%), *Acacia bancroftiorum* (2, 20%), *Alstonia constricta* (1, 20%), *Boronia foetida* (20%), *Callitris glaucophylla* (20%), *Corymbia hendersonii* (1, 20%), *Erythroxylum* sp. (Splityard Creek L.Pedley 5360) (1, 20%), *Grevillea floribunda* subsp. *floribunda* (20%), *Hovea parvicalyx* (1, 20%), *Ricinocarpos linearifolius* (20%)

**Stratum: Ground**

Height avg. = 0.5m, range 0.3-0.6m, 3 sites

PFC avg. = 34.3%, range 13-50%, 3 sites

*Dominant species (relative cover, frequency):* *Triodia mitchellii* (89, 33%), *Eragrostis sororia* (24, 67%), *Lomandra longifolia* (14, 100%), *Entolasia stricta* (12, 67%), *Panicum effusum* (7, 33%)

*Frequent species (cover, frequency):* GRAMINOIDS: *Digitaria parviflora* (1, 100%), *Aristida queenslandica* var. *dissimilis* (1, 67%), *Cyperus bowmannii* (2, 67%), *Entolasia stricta* (2, 67%), *Eragrostis sororia* (9, 67%), *Paspalidium gracile* (1, 67%), *Aristida benthamii* (2, 33%), *Aristida gracilipes* (1, 33%), *Cenchrus ciliaris*\* (1, 33%), *Cyperus fulvus* (1, 33%), *Digitaria ramularis* (1, 33%), *Eleocharis indet.* (1, 33%), *Panicum decompositum* (1, 33%), *Panicum effusum* (3, 33%), *Paspalidium albobillosum* (1, 33%), *Scleria mackaviensis* (1, 33%), *Setaria surgens* (1, 33%), *Triodia mitchellii* (46, 33%)

FORBS: *Lomandra longifolia* (4, 100%), *Achyranthes aspera* (1, 67%), *Solanum ellipticum* (1, 67%), *Boronia bipinnata* (33%), *Cheilanthes sieberi* (1, 33%), *Coelospermum reticulatum* (1, 33%), *Cyanthillium cinereum* (1, 33%), *Dodonaea filifolia* (1, 33%), *Einadia hastata* (1, 33%), *Einadia nutans* (1, 33%), *Evolvulus alsinoides* (1, 33%), *Hibiscus sturtii* (1, 33%)

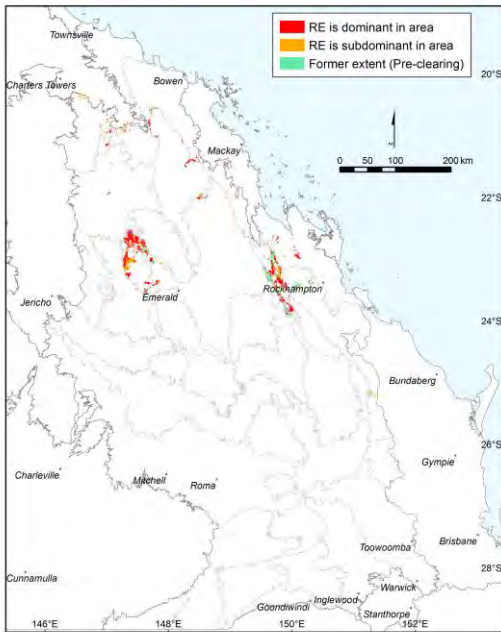
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Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Eucalyptus crebra +/- Acacia rhodoxylon woodland on old sedimentary rocks with varying degrees of metamorphism and folding**



Annie Kelly

**Pre-clearing area (ha), remnant area (ha) and per cent remaining:** 243,056 160,740 66%

**Species\_recorded:** Total: 188; woody: 63; ground: 139; Avg. spp./site: 29.3; std dev.: 10.5, 10 site(s)

**Basal area:** Avg./site: 13.0 m<sup>2</sup>/ha, range: 6.5 - 18 m<sup>2</sup>/ha, std. deviation: 4 m<sup>2</sup>/ha, 14 site(s)

**Structural formation:** Woodland: 47%; open-woodland: 40%; open-forest: 13%, 15 site(s)

**Representative\_sites** 3087, 16889, 16894, 16925, 17631, 17646, 17649, 17679, 17680, 17681, 17684, 19011, 19026, 19265, 19268.

**Stratum: Emergent**

Height avg. = 20.0m, 1 site

Crown cover avg. = 3.0%, 1 site

*Frequent species (cover, frequency): Eucalyptus crebra (3, 7%)*

**Stratum: Tree 1**

Height avg. = 16.9m, range 9-28m, 15 sites

Crown cover avg. = 27.9%, range 10.0-60.0%, 15 sites

*Dominant species (relative cover, frequency): Eucalyptus crebra (82, 87%), Acacia rhodoxylon (47, 40%)*

*Frequent species (cover, frequency): Eucalyptus crebra (21, 87%), Acacia rhodoxylon (14, 40%), Corymbia clarksoniana (3, 20%), Acacia shirleyi (4, 13%), Acacia falciformis (7%), Alstonia constricta (7%), Corymbia dallachiana (1, 7%), Eucalyptus exserta (10, 7%), Eucalyptus moluccana (3, 7%)*

**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Tree 2**

Height avg. = 8.8m, range 6-19m, 12 sites

Crown cover avg. = 20.2%, range 3.0-70.0%, 12 sites

Dominant species (relative cover, frequency): *Acacia rhodoxylon* (59, 73%), *Alphitonia excelsa* (28, 27%), *Eucalyptus crebra* (19, 60%)

Frequent species (cover, frequency): *Acacia rhodoxylon* (17, 73%), *Eucalyptus crebra* (2, 60%), *Alphitonia excelsa* (2, 27%), *Petalostigma pubescens* (9, 13%), *Acacia decora* (1, 7%), *Acacia falciformis* (7%), *Acacia salicina* (1, 7%), *Capparis canescens* (7%), *Corymbia clarksoniana* (7%), *Corymbia erythrophloia* (5, 7%), *Denhamia cunninghamii* (7%), *Eucalyptus exserta* (7%), *Flindersia dissosperma* (7%), *Grevillea parallela* (7%), *Lysicarpus angustifolius* (1, 7%), *Petalostigma banksii* (2, 7%)

**Stratum: Tree 3**

Height avg. = 3.9m, range 3-6m, 5 sites

Crown cover avg. = 6.6%, range 0.0-20.0%, 5 sites

Frequent species (cover, frequency): *Acacia rhodoxylon* (7, 20%), *Alphitonia excelsa* (1, 20%), *Acacia decora* (7%), *Acacia fodinalis* (4, 7%), *Acacia leiocalyx subsp. leiocalyx* (2, 7%), *Capparis loranthifolia* (7%), *Eucalyptus crebra* (1, 7%), *Flindersia dissosperma* (7%), *Psydrax odorata* (2, 7%), *Terminalia oblongata subsp. oblongata* (7%), *Turraea pubescens* (7%)

**Stratum: Shrub 1**

Height avg. = 2.0m, range 1-6m, 15 sites

Crown cover avg. = 6.9%, range 0.0-25.0%, 15 sites

Dominant species (relative cover, frequency): *Erythroxylum australe* (41, 27%), *Acacia rhodoxylon* (40, 53%), *Alphitonia excelsa* (18, 33%), *Eucalyptus crebra* (15, 60%)

Frequent species (cover, frequency): *Eucalyptus crebra* (1, 60%), *Acacia rhodoxylon* (5, 53%), *Alphitonia excelsa* (1, 33%), *Erythroxylum australe* (1, 27%), *Acacia leiocalyx subsp. leiocalyx* (1, 20%), *Capparis canescens* (20%), *Carissa ovata* (1, 20%), *Alectryon subdentatus* (1, 13%), *Cassia brewsteri* (2, 13%), *Grewia latifolia* (1, 13%), *Opuntia tomentosa\** (1, 13%), *Psydrax indet.* (13%), *Acacia falciformis* (2, 7%), *Acacia sp. (Comet L.Pedley 4091)* (7%), *Acronychia laevis* (7%), *Alstonia constricta* (7%), *Alyxia ruscifolia* (1, 7%), *Atalaya hemiglauca* (2, 7%), *Breynia oblongifolia* (7%), *Bridelia leichhardtii* (1, 7%), *Corymbia clarksoniana* (7%), *Cupaniopsis anacardioides* (1, 7%), *Cyclophyllum coprosmoides var. spathulatum* (9, 7%), *Denhamia cunninghamii* (1, 7%), *Diospyros humilis* (7%), *Dodonaea triangularis* (7%), *Dodonaea viscosa subsp. spatulata* (7%), *Ehretia membranifolia* (7%), *Eremophila mitchellii* (7%), *Ficus opposita* (7%), *Flindersia australis* (7%), *Flueggea leucopyrus* (7%), *Grewia retusifolia* (7%), *Hibiscus divaricatus* (1, 7%), *Jasminum simplicifolium subsp. australiense* (7%), *Lantana camara\** (7%), *Myoporum acuminatum* (7%), *Parsonia lanceolata* (7%), *Petalostigma pubescens* (6, 7%), *Pittosporum spinescens* (7%), *Psydrax attenuata* (2, 7%), *Psydrax forsteri* (7%), *Psydrax oleifolia* (7%), *Santalum lanceolatum* (7%), *Solanum seaforthianum\** (7%), *Terminalia oblongata subsp. oblongata* (7%), *Wrightia saligna* (7%)

**Stratum: Shrub 2**

Height avg. = 2.0m, 1 site

Crown cover avg. = 30.0%, 1 site

Frequent species (cover, frequency): *Acacia rhodoxylon* (12, 7%), *Capparis canescens* (7%), *Erythroxylum australe* (18, 7%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Ground**

Height avg. = 0.6m, range 0.25-1m, 10 sites

PFC avg. = 29.3%, range 3-65%, 10 sites

*Dominant species (relative cover, frequency):* *Aristida queenslandica* var. *dissimilis* (23, 30%), *Themeda triandra* (20, 30%), *Digitaria ramularis* (17, 30%), *Aristida queenslandica* var. *queenslandica* (14, 40%), *Enteropogon unispiceus* (12, 50%)

*Frequent species (cover, frequency):* GRAMINOIDS: *Enneapogon lindleyanus* (5, 50%), *Enteropogon unispiceus* (2, 50%), *Aristida queenslandica* var. *queenslandica* (3, 40%), *Eragrostis lacunaria* (1, 40%), *Panicum effusum* (1, 40%), *Aristida queenslandica* var. *dissimilis* (4, 30%), *Digitaria ramularis* (3, 30%), *Dinebra decipiens* (2, 30%), *Melinis repens*\* (1, 30%), *Paspalidium criniforme* (2, 30%), *Paspalidium gracile* (2, 30%), *Themeda triandra* (10, 30%), *Aristida personata* (20%), *Cenchrus ciliaris*\* (20%), *Chrysopogon fallax* (20%), *Cymbopogon queenslandicus* (32, 20%), *Cymbopogon refractus* (1, 20%), *Cyperus fulvus* (20%), *Cyperus gracilis* (2, 20%), *Eragrostis brownii* (1, 20%), *Eragrostis sororia* (1, 20%), *Eriachne mucronata* (20%), *Panicum decompositum* (20%), *Panicum simile* (2, 20%), *Paspalidium caespitosum* (2, 20%), *Scleria mackaviensis* (20%), *Ancistrachne uncinulata* (3, 10%), *Aristida benthamii* var. *benthamii* (10%), *Aristida calycina* (1, 10%), *Aristida* *indet.* (1, 10%), *Aristida jerichoensis* var. *jerichoensis* (10%), *Bothriochloa decipiens* var. *decipiens* (5, 10%), *Calyptochloa gracillima* subsp. *gracillima* (1, 10%), *Cyperus bowmannii* (10%), *Cyperus enervis* (10%), *Digitaria bicornis* (10%), *Digitaria breviglumis* (2, 10%), *Digitaria fumida* (2, 10%), *Digitaria parviflora* (10, 10%), *Dinebra divaricatissima* (10%), *Enneapogon robustissimus* (10%), *Enteropogon ramosus* (1, 10%), *Entolasia stricta* (10%), *Eragrostis* *indet.* (2, 10%), *Eragrostis megalosperma* (10%), *Eragrostis spartinooides* (1, 10%), *Gahnia aspera* (10%), *Heteropogon contortus* (1, 10%), *Oplismenus aemulus* (2, 10%), *Paspalidium albobillosum* (10%), *Paspalidium distans* (1, 10%), *Tripogon loliiformis* (10%)

FORBS: *Cyanthillium cinereum* (40%), *Phyllanthus virgatus* (40%), *Sida hackettiana* (40%), *Achyranthes aspera* (30%), *Breynia oblongifolia* (30%), *Cheilanthes distans* (30%), *Cheilanthes sieberi* (30%), *Galactia tenuiflora* (30%), *Opuntia stricta*\* (30%), *Solanum ellipticum* (30%), *Alphitonia excelsa* (1, 20%), *Amaranthus interruptus* (20%), *Boerhavia* *indet.* (20%), *Capparis canescens* (20%), *Cymbidium canaliculatum* (20%), *Einadia hastata* (20%), *Eustrephus latifolius* (20%), *Geijera salicifolia* (20%), *Goodenia glabra* (20%), *Jasminum didymum* (20%), *Jasminum didymum* subsp. *lineare* (20%), *Malvastrum americanum* var. *americanum*\* (20%), *Opuntia tomentosa*\* (20%), *Oxalis* *indet.* (20%), *Parsonsia lanceolata* (20%), *Pluchea xanthina* (20%), *Portulaca australis* (20%), *Sida* *indet.* (20%), *Sida rohlenae* (20%), *Tephrosia filipes* (20%), *Acacia oswaldii* (10%), *Adiantum* *indet.* (10%), *Alternanthera nana* (10%), *Brunoniella australis* (10%), *Cynanchum viminale* subsp. *brunonianum* (10%), *Desmodium rhytidophyllum* (10%), *Dianella brevipedunculata* (10%), *Eremophila mitchellii* (10%), *Erythroxyllum* sp. (*Splityard Creek L. Pedley 5360*) (10%), *Euphorbia drummondii* (10%), *Euphorbia psammogeton* (10%), *Everistia vacciniifolia* (10%), *Evolvulus alsinoides* var. *decumbens* (10%), *Geitonoplesium cymosum* (10%), *Goodenia rotundifolia* (10%), *Grewia latifolia* (10%), *Hibiscus sturtii* var. *sturtii* (10%), *Jasminum simplicifolium* subsp. *australiense* (10%), *Lobelia purpurascens* (10%), *Lomandra confertifolia* subsp. *pallida* (10%), *Lomandra filiformis* (10%), *Malvastrum americanum* (10%), *Marsdenia viridiflora* (10%), *Oxalis corniculata*\* (10%), *Oxalis perennans* (10%), *Pandorea pandorana* (10%), *Parsonsia eucalyptophylla* (10%), *Parsonsia straminea* (10%), *Phyllanthus fuernrohrrii* (10%), *Pseuderanthemum variabile* (10%), *Psydrax odorata* (10%), *Psydrax oleifolia* (10%), *Pterocaulon redolens* (10%), *Rhynchosia minima* (10%), *Rostellularia adscendens* (10%), *Sclerolaena birchii* (10%), *Scoparia dulcis*\* (10%), *Solanum parvifolium* (10%), *Solanum seaforthianum*\* (5, 10%)

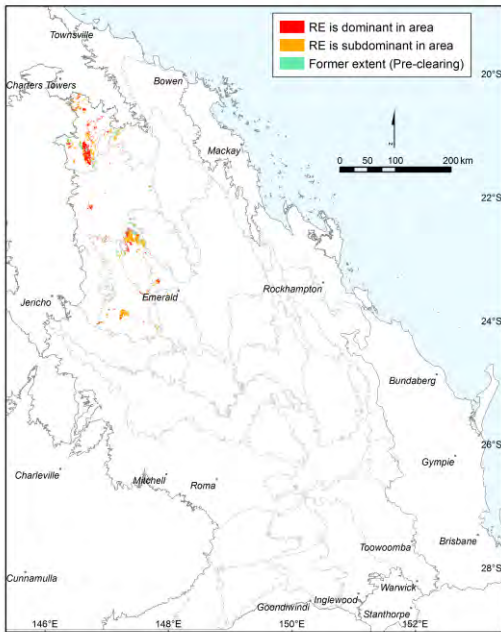
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**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Acacia shirleyi or A. catenulata low open forest on old sedimentary rocks with varying degrees of metamorphism and folding**



**Pre-clearing area (ha), remnant area (ha) and per cent remaining:** 90,187      75,873      84%

**Species\_recorded:** Total: 79; woody: 21; ground: 58; Avg. spp./site: 34.5; std dev.: 11.5, 2 site(s)

**Basal area:** Avg./site: 15.3 m<sup>2</sup>/ha, range: 4.3 - 29 m<sup>2</sup>/ha, std. deviation: 10 m<sup>2</sup>/ha, 3 site(s)

**Structural formation:** Woodland: 33%; open-forest: 33%; low open-forest: 33%, 3 site(s)

**Representative\_sites** 2000, 16875, 28787.

**Stratum: Emergent**

**Height avg. = 28.0m, 1 site**

**Crown cover avg. = 5.0%, 1 site**

*Dominant species (relative cover, frequency): Corymbia citriodora (100, 33%)*

*Frequent species (cover, frequency): Corymbia citriodora (5, 33%)*

**Stratum: Tree 1**

**Height avg. = 13.0m, range 7-18m, 3 sites**

**Crown cover avg. = 56.7%, range 20.0-80.0%, 3 sites**

*Dominant species (relative cover, frequency): Acacia shirleyi (81, 100%), Flindersia dissosperma (25, 33%), Eucalyptus persistens (25, 33%), Eucalyptus crebra (4, 67%)*

*Frequent species (cover, frequency): Acacia shirleyi (51, 100%), Eucalyptus crebra (3, 67%), Alphitonia excelsa (33%), Eucalyptus persistens (5, 33%), Flindersia dissosperma (5, 33%)*

**Stratum: Tree 2**

**Height avg. = 8.0m, range 8-8m, 2 sites**

**Crown cover avg. = 1.5%, range 1.0-2.0%, 2 sites**

*Dominant species (relative cover, frequency): Acacia shirleyi (69, 67%), Flindersia dissosperma (19, 33%), Eremophila mitchellii (19, 33%), Alstonia constricta (19, 33%), Atalaya hemiglauca (4, 33%)*

*Frequent species (cover, frequency): Acacia shirleyi (1, 67%), Alstonia constricta (1, 33%), Atalaya hemiglauca (33%), Eremophila mitchellii (1, 33%), Flindersia dissosperma (1, 33%)*

**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Shrub 1**

Height avg. = 3.3m, range 2-4m, 3 sites

Crown cover avg. = 12.7%, range 1.0-35.0%, 3 sites

Dominant species (relative cover, frequency): *Erythroxylum australe* (46, 67%), *Erythroxylum* sp. (Splityard Creek L.Pedley 5360) (45, 33%), *Acacia shirleyi* (30, 100%), *Jasminum simplicifolium* subsp. *australiense* (29, 33%), *Ventilago viminalis* (7, 33%)

Frequent species (cover, frequency): *Acacia shirleyi* (2, 100%), *Erythroxylum australe* (11, 67%), *Alphitonia excelsa* (33%), *Alstonia constricta* (33%), *Atalaya hemiglauca* (33%), *Croton phebalioides* (33%), *Ehretia membranifolia* (33%), *Erythroxylum* sp. (Splityard Creek L.Pedley 5360) (1, 33%), *Hibiscus krichauffianus* (33%), *Jasminum simplicifolium* subsp. *australiense* (11, 33%), *Opuntia stricta*\* (33%), *Psydrax attenuata* (33%), *Psydrax johnsonii* (33%), *Ventilago viminalis* (33%)

**Stratum: Shrub 2**

Height avg. = 1.0m, 1 site

Crown cover avg. = 1.0%, 1 site

Dominant species (relative cover, frequency): *Santalum lanceolatum* (20, 33%), *Flueggea leucopyrus* (20, 33%), *Erythroxylum australe* (20, 33%), *Atalaya hemiglauca* (20, 33%), *Acacia shirleyi* (20, 33%)

Frequent species (cover, frequency): *Acacia shirleyi* (33%), *Atalaya hemiglauca* (33%), *Erythroxylum australe* (33%), *Flueggea leucopyrus* (33%), *Santalum lanceolatum* (33%)

**Stratum: Ground**

Height avg. = 0.7m, range 0.3-1m, 2 sites

PFC avg. = 17.5%, range 5-30%, 2 sites

Dominant species (relative cover, frequency): *Entolasia stricta* (56, 50%), *Cleistochloa subjuncea* (37, 50%), *Panicum effusum* (16, 50%), *Digitaria ramularis* (13, 100%), *Cymbopogon bombycinus* (9, 50%)

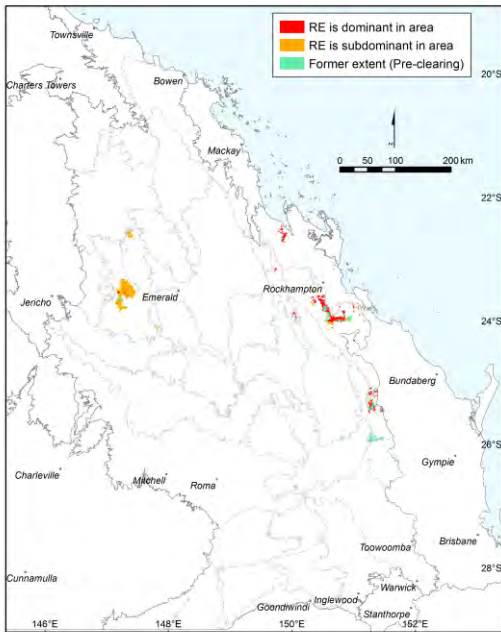
Frequent species (cover, frequency): GRAMINOIDS: *Digitaria ramularis* (1, 100%), *Ancistrachne uncinulata* (50%), *Aristida jerichoensis* var. *jerichoensis* (50%), *Aristida queenslandica* var. *dissimilis* (50%), *Bulbostylis barbata* (50%), *Cenchrus ciliaris*\* (50%), *Chrysopogon fallax* (50%), *Cleistochloa subjuncea* (3, 50%), *Cymbopogon bombycinus* (3, 50%), *Cymbopogon queenslandicus* (50%), *Cyperus fulvus* (50%), *Dinebra decipiens* (50%), *Enneapogon lindleyanus* (50%), *Enneapogon polyphyllus* (50%), *Entolasia stricta* (18, 50%), *Heteropogon contortus* (50%), *Megathyrsus maximus*\* (50%), *Melinis repens*\* (50%), *Panicum effusum* (5, 50%), *Paspalidium criniforme* (2, 50%), *Paspalidium distans* (50%), *Paspalidium gracile* (50%), *Scleria sphacelata* (50%), *Sporobolus coromandelianus*\* (50%), *Sporobolus scabridus* (50%), *Thyridolepis xerophila* (50%)  
FORBS: *Abutilon fraseri* (50%), *Achyranthes aspera* (50%), *Amaranthus mitchellii* (50%), *Capparis lasiantha* (50%), *Commelina ensifolia* (50%), *Cyanthillium cinereum* (50%), *Enchylaena tomentosa* (50%), *Galactia tenuiflora* (50%), *Glycine clandestina* (50%), *Goodenia grandiflora* (50%), *Hibiscus indet.* (50%), *Jasminum didymum* subsp. *didymum* (50%), *Marsdenia microlepis* (50%), *Marsdenia viridiflora* (50%), *Olearia xerophila* (3, 50%), *Phyllanthus virgatus* (50%), *Pseuderanthemum variabile* (50%), *Ptilotus polystachyus* (50%), *Sida aprica* var. *aprica* (50%), *Sida* sp. (Aramac E.J.Thompson+ JER192) (50%), *Solanum ellipticum* (50%), *Stylosanthes scabra*\* (50%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Corymbia citriodora, Eucalyptus crebra, E. acmenoides open forest on old sedimentary rocks with varying degrees of metamorphism and folding. Coastal ranges**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 125,770 88,472 70%

Species\_recorded: Total: 162; woody: 52; ground: 129; Avg. spp./site: 26.6; std dev.: 7.2, 11 site(s)

Basal area: Avg./site: 19.1 m<sup>2</sup>/ha, range: 12.0 - 29 m<sup>2</sup>/ha, std. deviation: 5 m<sup>2</sup>/ha, 21 site(s)

Structural formation: Woodland: 57%; open-forest: 33%; tall woodland: 10%, 21 site(s)

Representative\_sites 17509, 17511, 17520, 17584, 17585, 17588, 17596, 17597, 17598, 17599, 17602, 17603, 17612, 17613, 17619, 17648, 17650, 19014, 28805, 28807, 28808.

**Stratum: Emergent**

Height avg. = 40.0m, range 40-40m, 2 sites

Crown cover avg. = 5.0%, range 5.0-5.0%, 2 sites

Frequent species (cover, frequency): *Corymbia citriodora* (5, 10%)

**Stratum: Tree 1**

Height avg. = 27.0m, range 18-35m, 21 sites

Crown cover avg. = 41.5%, range 20.0-75.0%, 21 sites

Dominant species (relative cover, frequency): *Corymbia citriodora* (65, 95%), *Eucalyptus acmenoides* (60, 33%), *Eucalyptus crebra* (18, 62%)

Frequent species (cover, frequency): *Corymbia citriodora* (25, 95%), *Eucalyptus crebra* (6, 62%), *Eucalyptus acmenoides* (32, 33%), *Eucalyptus moluccana* (7, 10%), *Eucalyptus tereticornis* (9, 10%), *Corymbia clarksoniana* (5%), *Corymbia erythrophloia* (5%), *Corymbia trachyphloia subsp. trachyphloia* (17, 5%), *Eucalyptus exserta* (19, 5%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus



**Stratum: Tree 2**

Height avg. = 16.2m, range 8-25m, 21 sites

Crown cover avg. = 7.7%, range 2.0-25.0%, 21 sites

Dominant species (relative cover, frequency): *Eucalyptus crebra* (58, 86%), *Corymbia citriodora* (33, 67%)

Frequent species (cover, frequency): *Eucalyptus crebra* (5, 86%), *Corymbia citriodora* (3, 67%), *Eucalyptus acmenoides* (2, 19%), *Lophostemon suaveolens* (1, 14%), *Alphitonia excelsa* (2, 10%), *Eucalyptus moluccana* (2, 10%), *Lophostemon confertus* (3, 10%), *Acacia aulacocarpa* (1, 5%), *Acacia fasciculifera* (1, 5%), *Acacia shirleyi* (5%), *Corymbia intermedia* (1, 5%), *Corymbia trachyphloia subsp. trachyphloia* (2, 5%), *Eucalyptus exserta* (3, 5%), *Eucalyptus melanophloia* (5, 5%), *Notelaea ovata* (1, 5%)

**Stratum: Tree 3**

Height avg. = 6.3m, range 3-15m, 15 sites

Crown cover avg. = 4.5%, range 1.0-10.0%, 15 sites

Dominant species (relative cover, frequency): *Corymbia citriodora* (52, 24%), *Eucalyptus crebra* (21, 24%)

Frequent species (cover, frequency): *Corymbia citriodora* (2, 24%), *Eucalyptus crebra* (1, 24%), *Allocasuarina torulosa* (2, 14%), *Alphitonia excelsa* (1, 14%), *Eucalyptus acmenoides* (1, 14%), *Lophostemon confertus* (3, 14%), *Corymbia erythrophloia* (1, 10%), *Acacia aulacocarpa* (4, 5%), *Acacia leiocalyx subsp. leiocalyx* (1, 5%), *Acacia maidenii* (1, 5%), *Acacia rhodoxylon* (6, 5%), *Acacia shirleyi* (10, 5%), *Brachychiton populneus* (1, 5%), *Cycas megacarpa* (5%), *Eucalyptus melanophloia* (1, 5%), *Lophostemon suaveolens* (1, 5%), *Macrozamia moorei* (2, 5%), *Petalostigma pubescens* (5%), *Xanthorrhoea johnsonii* (5%)

**Stratum: Shrub 1**

Height avg. = 1.7m, range 1-2.5m, 20 sites

Crown cover avg. = 7.1%, range 2.0-20.0%, 20 sites

Dominant species (relative cover, frequency): *Xanthorrhoea johnsonii* (30, 24%), *Corymbia citriodora* (29, 29%), *Alphitonia excelsa* (25, 24%), *Acacia leiocalyx subsp. leiocalyx* (23, 29%), *Acacia maidenii* (12, 33%)

Frequent species (cover, frequency): *Acacia maidenii* (1, 33%), *Acacia leiocalyx subsp. leiocalyx* (1, 29%), *Corymbia citriodora* (2, 29%), *Alphitonia excelsa* (2, 24%), *Xanthorrhoea johnsonii* (2, 24%), *Eucalyptus acmenoides* (1, 14%), *Lantana camara\** (3, 14%), *Lophostemon confertus* (2, 14%), *Macrozamia miquelii* (8, 14%), *Acacia aulacocarpa* (1, 10%), *Allocasuarina torulosa* (1, 10%), *Breynia oblongifolia* (10%), *Bursaria spinosa subsp. spinosa* (2, 10%), *Daviesia villifera* (9, 10%), *Eucalyptus crebra* (1, 10%), *Ficus opposita* (1, 10%), *Hibiscus heterophyllus* (2, 10%), *Macrozamia moorei* (2, 10%), *Acacia fasciculifera* (1, 5%), *Acacia podalyriifolia* (1, 5%), *Acacia rhodoxylon* (3, 5%), *Alectryon diversifolius* (4, 5%), *Capparis canescens* (5%), *Cassia tomentella* (1, 5%), *Corymbia erythrophloia* (2, 5%), *Eucalyptus moluccana* (1, 5%), *Exocarpos cupressiformis* (3, 5%), *Indigofera indet.* (5%), *Jacksonia scoparia* (6, 5%), *Macrozamia macleayi* (5, 5%), *Opuntia tomentosa\** (5%), *Pittosporum spinescens* (1, 5%), *Psydrax odorata* (5%), *Samadera sp. (Dam Creek T.S.Ryan 1006)* (5%), *Sida cordifolia\** (1, 5%), *Swainsona galegifolia* (5%), *Xanthorrhoea latifolia* (1, 5%)

**Stratum: Shrub 2**

Height avg. = 1.1m, range 0.9-1.4m, 6 sites

Crown cover avg. = 13.7%, range 2.0-30.0%, 6 sites

Dominant species (relative cover, frequency): *Macrozamia miquelii* (69, 24%)

Frequent species (cover, frequency): *Macrozamia miquelii* (9, 24%), *Acacia maidenii* (1, 10%), *Alphitonia excelsa* (1, 10%), *Acacia aulacocarpa* (5, 5%), *Acacia fasciculifera* (5%), *Acronychia laevis* (2, 5%), *Coelospermum reticulatum* (1, 5%), *Corymbia citriodora* (2, 5%), *Cycas media* (4, 5%), *Exocarpos cupressiformis* (5%), *Hibiscus heterophyllus* (5%), *Jacksonia scoparia* (6, 5%), *Lantana camara\** (1, 5%), *Macrozamia macleayi* (10, 5%), *Opuntia tomentosa\** (5%), *Sida cordifolia\** (2, 5%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Ground**

Height avg. = 0.4m, range 0.15-1m, 11 sites

PFC avg. = 28.7%, range 5-65%, 11 sites

*Dominant species (relative cover, frequency): Entolasia stricta (35, 27%), Themeda triandra (35, 73%), Panicum effusum (18, 27%), Arundinella nepalensis (14, 27%), Cymbopogon refractus (14, 27%)*

*Frequent species (cover, frequency): GRAMINOIDS: Themeda triandra (14, 73%), Aristida personata (4, 27%), Aristida queenslandica var. dissimilis (3, 27%), Arundinella nepalensis (5, 27%), Cymbopogon refractus (1, 27%), Entolasia stricta (3, 27%), Imperata cylindrica (1, 27%), Panicum effusum (3, 27%), Aristida calycina (18%), Aristida latifolia (7, 18%), Cyperus gracilis (18%), Enneapogon lindleyanus (2, 18%), Eremochloa bimaculata (3, 18%), Heteropogon contortus (2, 18%), Melinis repens\* (4, 18%), Paspalidium caespitosum (1, 18%), Paspalidium gracile (18%), Scleria mackaviensis (1, 18%), Scleria sphacelata (18%), Sorghum nitidum (6, 18%), Aristida caput-medusae (15, 9%), Aristida queenslandica var. queenslandica (9%), Cenchrus ciliaris\* (9%), Cymbopogon queenslandicus (7, 9%), Digitaria brownii (5, 9%), Dinebra decipiens (1, 9%), Eragrostis sororia (9%), Gahnia aspera (9%), Mnesithea rottboellioides (9%), Oplismenus aemulus (9%), Panicum decompositum (1, 9%), Panicum simile (2, 9%), Paspalidium distans (9%), Paspalidium jubiflorum (9%), Perotis rara (30, 9%), Poaceae indet. (3, 9%)*

*FORBS: Hardenbergia violacea (1, 73%), Lomandra longifolia (64%), Desmodium rhytidophyllum (55%), Dianella revoluta (55%), Eustrephus latifolius (55%), Dianella caerulea (1, 45%), Goodenia rotundifolia (45%), Phyllanthus virgatus (45%), Cheilanthes sieberi (36%), Jasminum didymum (36%), Alphitonia excelsa (27%), Brunoniella australis (27%), Coelospermum reticulatum (27%), Glycine tomentella (27%), Opercularia diphylla (27%), Passiflora suberosa\* (27%), Sida hackettiana (27%), Breynia oblongifolia (18%), Desmodium brachypodum (18%), Einadia hastata (18%), Grewia latifolia (18%), Indigofera australis (1, 18%), Lomandra filiformis (18%), Peripleura hispidula (18%), Senna barclayana (18%), Senna pendula var. glabrata\* (18%), Swainsona galegifolia (1, 18%), Acacia decora (9%), Acacia leiocalyx subsp. leiocalyx (9%), Achyranthes aspera (9%), Ajuga australis (9%), Amaranthus interruptus (9%), Boerhavia burbidgeana (9%), Capparis canescens (9%), Capparis shanesiana (9%), Chamaecrista concinna (9%), Crassocephalum crepidioides\* (9%), Crotalaria dissitiflora (9%), Crotalaria montana (9%), Crotalaria montana var. angustifolia (9%), Cyathillium cinereum (9%), Desmodium varians (2, 9%), Dianella longifolia (9%), Euphorbia drummondii (9%), Euphorbia tannensis (9%), Glycine tabacina (9%), Goodenia grandiflora (9%), Hypericum gramineum (9%), Indigofera australis subsp. australis (9%), Jasminum simplicifolium subsp. australiense (9%), Lantana montevidensis\* (1, 9%), Lomandra confertifolia (9%), Macrozamia miquelii (9%), Malvastrum americanum (9%), Marsdenia viridiflora (9%), Marsdenia viridiflora subsp. viridiflora (9%), Opuntia tomentosa\* (9%), Oxalis corniculata\* (9%), Oxalis radicata (9%), Phyllanthus indet. (9%), Portulaca pilosa\* (9%), Psychotria daphnoides (9%), Rhynchosia minima (9%), Rostellularia adscendens (9%), Sida cordifolia\* (9%), Sida rohlenae (9%), Spermaceae indet. (9%), Tephrosia filipes (9%), Xanthorrhoea johnsonii (9%), Xanthorrhoea latifolia (1, 9%)*

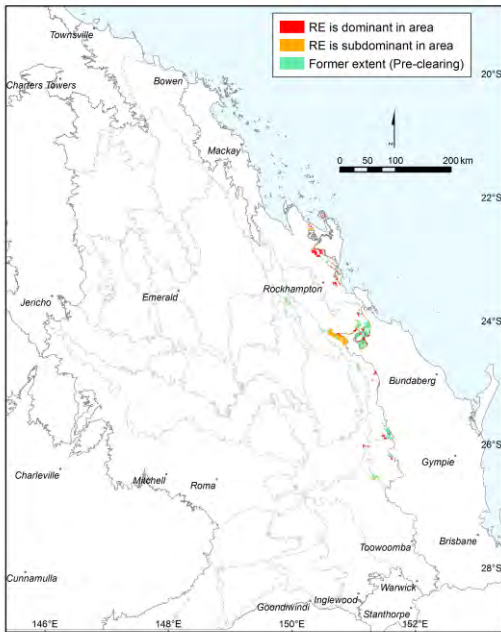
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**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Eucalyptus crebra woodland on old sedimentary rocks with varying degrees of metamorphism and folding. Coastal ranges**



Annie Kelly

**Pre-clearing area (ha), remnant area (ha) and per cent remaining:** 107,423 52,157 49%

**Species\_recorded:** Total: 97; woody: 33; ground: 68; Avg. spp./site: 29.7; std dev.: 13.0, 3 site(s)

**Basal area:** Avg./site: 12.2 m<sup>2</sup>/ha, range: 7.0 - 16 m<sup>2</sup>/ha, std. deviation: 3 m<sup>2</sup>/ha, 5 site(s)

**Structural formation:** Woodland: 80%; tall woodland: 20%, 5 site(s)

**Representative\_sites** 14856, 17075, 17518, 24669, 40685.

**Stratum: Tree 1**

**Height avg. = 22.2m, range 15-33m, 5 sites**  
**Crown cover avg. = 23.2%, range 20.0-25.0%, 5 sites**

*Dominant species (relative cover, frequency): Corymbia citriodora (59, 80%), Eucalyptus crebra (36, 100%)*

*Frequent species (cover, frequency): Eucalyptus crebra (8, 100%), Corymbia citriodora (14, 80%), Corymbia citriodora subsp. variegata (10, 20%), Corymbia intermedia (4, 20%), Eucalyptus exserta (2, 20%), Eucalyptus moluccana (5, 20%)*

**Stratum: Tree 2**

**Height avg. = 11.8m, range 8-15m, 4 sites**  
**Crown cover avg. = 10.0%, range 0.0-15.0%, 4 sites**

*Dominant species (relative cover, frequency): Eucalyptus crebra (41, 60%)*

*Frequent species (cover, frequency): Eucalyptus crebra (2, 60%), Acacia flavescens (1, 20%), Allocasuarina torulosa (1, 20%), Corymbia citriodora (20%), Corymbia citriodora subsp. variegata (10, 20%), Geijera salicifolia (1, 20%), Lophostemon confertus (15, 20%), Lophostemon suaveolens (7, 20%)*

**Stratum: Tree 3**

**Height avg. = 2.8m, range 2-3.5m, 2 sites**  
**Crown cover avg. = 4.5%, range 4.0-5.0%, 2 sites**

*Dominant species (relative cover, frequency): Alphitonia excelsa (43, 40%)*

*Frequent species (cover, frequency): Alphitonia excelsa (3, 40%), Acacia aulacocarpa (2, 20%), Acacia flavescens (1, 20%), Allocasuarina torulosa (1, 20%), Bridelia tomentosa (1, 20%), Denhamia disperma (1, 20%), Eucalyptus crebra (1, 20%), Ficus opposita (1, 20%)*

**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Shrub 1**

Height avg. = 2.0m, range 1-3m, 5 sites

Crown cover avg. = 7.4%, range 1.0-20.0%, 5 sites

Dominant species (relative cover, frequency): *Acacia leiocalyx* subsp. *leiocalyx* (52, 40%), *Jacksonia scoparia* (23, 40%), *Coelospermum reticulatum* (18, 60%), *Alphitonia excelsa* (15, 40%)

Frequent species (cover, frequency): *Coelospermum reticulatum* (1, 60%), *Acacia leiocalyx* subsp. *leiocalyx* (6, 40%), *Alphitonia excelsa* (2, 40%), *Jacksonia scoparia* (1, 40%), *Acacia decora* (1, 20%), *Acacia disparrima* subsp. *disparrima* (20%), *Acacia julifera* (1, 20%), *Acacia loroloba* (3, 20%), *Allocasuarina torulosa* (1, 20%), *Angophora leiocarpa* (20%), *Corymbia citriodora* subsp. *variegata* (2, 20%), *Dodonaea lanceolata* var. *subsessilifolia* (1, 20%), *Dodonaea tenuifolia* (20%), *Eucalyptus crebra* (4, 20%), *Lantana camara*\* (5, 20%), *Lophostemon suaveolens* (1, 20%), *Planchonia careya* (2, 20%), *Psychotria daphnoides* (1, 20%), *Psydrax odorata* (1, 20%)

**Stratum: Shrub 2**

Height avg. = 0.6m, range 0.5-0.6m, 2 sites

Crown cover avg. = 2.0%, range 1.0-3.0%, 2 sites

Frequent species (cover, frequency): *Alphitonia excelsa* (1, 20%), *Coelospermum reticulatum* (1, 20%), *Lantana camara*\* (20%), *Macrozamia miquelii* (20%), *Psychotria daphnoides* var. *daphnoides* (1, 20%), *Solanum stelligerum* (1, 20%)

**Stratum: Ground**

Height avg. = 0.6m, range 0.3-0.75m, 3 sites

PFC avg. = 18.0%, range 11-23%, 3 sites

Dominant species (relative cover, frequency): *Macrozamia miquelii* (80, 33%), *Themeda triandra* (73, 33%), *Aristida caput-medusae* (17, 33%), *Bothriochloa decipiens* (13, 33%), *Aristida queenslandica* var. *dissimilis* (11, 67%)

Frequent species (cover, frequency): GRAMINOIDS: *Aristida queenslandica* var. *dissimilis* (2, 67%), *Panicum effusum* (67%), *Aristida caput-medusae* (5, 33%), *Aristida indet.* (33%), *Aristida jerichoensis* var. *jerichoensis* (1, 33%), *Aristida vagans* (2, 33%), *Arundinella nepalensis* (3, 33%), *Bothriochloa decipiens* (4, 33%), *Calypochloa gracillima* subsp. *gracillima* (33%), *Cymbopogon refractus* (3, 33%), *Digitaria ramularis* (33%), *Entolasia stricta* (33%), *Eragrostis elongata* (33%), *Eragrostis leptostachya* (33%), *Eragrostis spartinooides* (33%), *Eremochloa bimaculata* (1, 33%), *Eriachne pallescens* (33%), *Eulalia aurea* (33%), *Fimbristylis dichotoma* (33%), *Fimbristylis microcarya* (33%), *Juncus usitatus* (33%), *Scleria brownii* (33%), *Themeda triandra* (8, 33%)

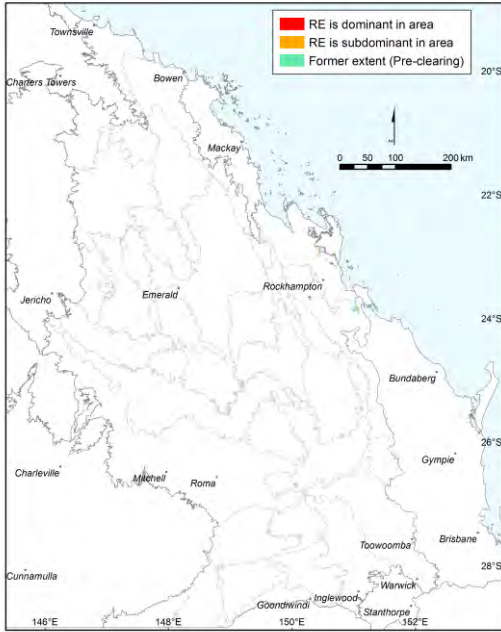
FORBS: *Phyllanthus virgatus* (67%), *Acacia leiocalyx* subsp. *leiocalyx* (33%), *Brachyscome multifida* (33%), *Cheilanthes sieberi* (33%), *Chrysocephalum apiculatum* (33%), *Clematicissus opaca* (1, 33%), *Corymbia citriodora* subsp. *variegata* (2, 33%), *Cyanthillium cinereum* (33%), *Desmodium varians* (33%), *Dianella brevipedunculata* (33%), *Dianella longifolia* (33%), *Dianella revoluta* (1, 33%), *Einadia nutans* (33%), *Evolvulus alsinoides* (33%), *Goodenia indet.* (33%), *Hibbertia stricta* (33%), *Laxmannia gracilis* (33%), *Lomandra confertifolia* subsp. *pallida* (2, 33%), *Lomandra filiformis* (1, 33%), *Lomandra longifolia* (2, 33%), *Macrozamia miquelii* (20, 33%), *Malvastrum americanum* (33%), *Oldenlandia mitrasacmoides* subsp. *trachymenoides* (33%), *Opuntia stricta*\* (33%), *Opuntia tomentosa*\* (33%), *Passiflora suberosa*\* (2, 33%), *Peripleura hispidula* (33%), *Pterocaulon indet.* (33%), *Rostellularia adscendens* (33%), *Sida hackettiana* (33%), *Solanum nemophilum* (33%), *Spermacoce indet.* (33%), *Sphaeromorphaea indet.* (33%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Eucalyptus moluccana, Corymbia citriodora, Eucalyptus crebra woodland**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 11,496 6,065 53%

Species\_recorded: Total: 8; woody: 7; ground: 1; Avg. spp./site: 8.0; std dev.: 0.0, 1 site(s)

Basal area: Avg./site: 9.0 m<sup>2</sup>/ha, range: 9.0 - 9 m<sup>2</sup>/ha, std. deviation: 0 m<sup>2</sup>/ha, 1 site(s)

Structural formation: Open-forest: 100%, 1 site(s)

Representative\_sites 17058.

**Stratum: Tree 1**

Height avg. = 26.0m, 1 site

Crown cover avg. = 55.0%, 1 site

Dominant species (relative cover, frequency): *Corymbia citriodora* (91, 100%), *Eucalyptus crebra* (9, 100%)

Frequent species (cover, frequency): *Corymbia citriodora* (50, 100%), *Eucalyptus crebra* (5, 100%)

**Stratum: Tree 2**

Height avg. = 18.0m, 1 site

Crown cover avg. = 3.0%, 1 site

Dominant species (relative cover, frequency): *Eucalyptus exserta* (100, 100%)

Frequent species (cover, frequency): *Eucalyptus exserta* (5, 100%)

**Stratum: Tree 3**

Height avg. = 6.0m, 1 site

Crown cover avg. = 5.0%, 1 site

Dominant species (relative cover, frequency): *Lophostemon suaveolens* (100, 100%)

Frequent species (cover, frequency): *Lophostemon suaveolens* (5, 100%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

## Technical Description

Regional ecosystem: 11.11.4c

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### Stratum: Shrub 1

Height avg. = 2.0m, 1 site

Crown cover avg. = 25.0%, 1 site

*Dominant species (relative cover, frequency): Acacia leiocalyx subsp. leiocalyx (100, 100%)*

*Frequent species (cover, frequency): Acacia leiocalyx subsp. leiocalyx (25, 100%)*

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### Stratum: Shrub 2

Height avg. = 1.0m, 1 site

Crown cover avg. = 5.0%, 1 site

*Dominant species (relative cover, frequency): Coelospermum reticulatum (60, 100%), Jacksonia scoparia (40, 100%)*

*Frequent species (cover, frequency): Coelospermum reticulatum (3, 100%), Jacksonia scoparia (2, 100%)*

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### Stratum: Ground

Height avg. = 0.5m, 1 site

PFC avg. = 5.0%, 1 site

*Dominant species (relative cover, frequency): Aristida queenslandica var. queenslandica (100, 100%)*

*Frequent species (cover, frequency): GRAMINOIDS: Aristida queenslandica var. queenslandica (5, 100%)*

*FORBS:*

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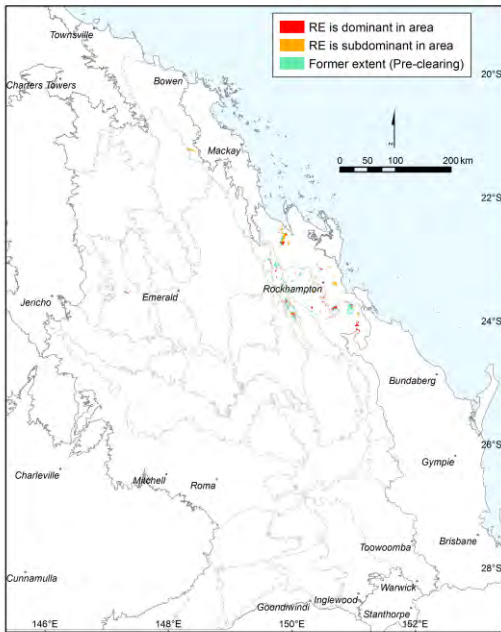
Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

1/03/2018

**Microphyll vine forest +/- Araucaria cunninghamii on old sedimentary rocks with varying degrees of metamorphism and folding**



**Pre-clearing area (ha), remnant area (ha) and per cent remaining: 65,962 27,166 41%**

**Species\_recorded: Total: 155; woody: 111; ground: 71; Avg. spp./site: 63.3; std dev.: 3.9, 3 site(s)**

**Basal area: Avg./site: 17.0 m<sup>2</sup>/ha, range: 13.0 - 25 m<sup>2</sup>/ha, std. deviation: 5 m<sup>2</sup>/ha, 5 site(s)**

**Structural formation: Woodland: 33%; unrecorded: 67%, 6 site(s)**

**Representative\_sites 14461, 17651, 17662, 17667, 50374, 50434.**

**Stratum: Emergent**

**Height avg. = 24.9m, range 12.5-36m, 5 sites**

**Crown cover avg. = 4.8%, range 2.0-7.0%, 5 sites**

*Dominant species (relative cover, frequency): Araucaria cunninghamii var. cunninghamii (100, 33%), Euroschinus falcatus var. falcatus (68, 33%), Brachychiton rupestris (65, 33%)*

*Frequent species (cover, frequency): Araucaria cunninghamii var. cunninghamii (4, 33%), Brachychiton rupestris (3, 33%), Euroschinus falcatus var. falcatus (4, 33%), Corymbia clarksoniana (17%), Eucalyptus melanophloia (1, 17%), Pleiogynium timorense (2, 17%)*

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Tree 1**

Height avg. = 12.8m, range 7.5-24m, 6 sites

Crown cover avg. = 38.7%, range 25.0-65.0%, 6 sites

*Dominant species (relative cover, frequency): Terminalia porphyrocarpa (34, 50%), Elattostachys xylocarpa (27, 33%), Euroschinus falcatus var. falcatus (24, 33%), Aidia racemosa (13, 33%), Diospyros geminata (11, 33%)*

*Frequent species (cover, frequency): Drypetes deplanchei (3, 67%), Planchonella cotinifolia (3, 50%), Terminalia porphyrocarpa (15, 50%), Acacia fasciculifera (2, 33%), Aidia racemosa (4, 33%), Cissus oblonga (1, 33%), Denhamia pittosporoides subsp. pittosporoides (1, 33%), Diospyros geminata (5, 33%), Elattostachys xylocarpa (6, 33%), Euroschinus falcatus var. falcatus (9, 33%), Geijera salicifolia (1, 33%), Sterculia quadrifida (1, 33%), Alectryon connatus (1, 17%), Alectryon subdentatus (1, 17%), Alphitonia excelsa (17%), Alstonia constricta (17%), Alstonia scholaris (6, 17%), Araucaria cunninghamii var. cunninghamii (6, 17%), Brachychiton australis (2, 17%), Brachychiton rupestris (5, 17%), Cissus reniformis (17%), Coatesia paniculata (5, 17%), Cryptocarya triplinervis (1, 17%), Cryptocarya triplinervis var. triplinervis (3, 17%), Dinoperma erythroccum (1, 17%), Diospyros humilis (5, 17%), Elaeodendron melanocarpum (17%), Erythroxylum sp. (Splityard Creek L.Pedley 5360) (17%), Eucalyptus fibrosa (4, 17%), Excoecaria dallachyana (2, 17%), Ficus microcarpa (17%), Ficus rubiginosa (2, 17%), Flindersia australis (6, 17%), Gossia bidwillii (5, 17%), Gyrocarpus americanus (17%), Homalium alnifolium (17%), Hovea longipes (10, 17%), Jasminum simplicifolium subsp. australiense (2, 17%), Melodorum leichhardtii (2, 17%), Notelaea microcarpa (1, 17%), Owenia venosa (10, 17%), Pittosporum spinescens (1, 17%), Pleiogyne timorensis (2, 17%), Pleurostylia opposita (3, 17%), Polyalthia nitidissima (17%), Polyscias elegans (1, 17%), Psydrax odorata (1, 17%), Rhamnella vitiensis (1, 17%), Sarcocochilus hillii (17%), Secamone elliptica (1, 17%), Vitex lignum-vitae (3, 17%)*

**Stratum: Tree 2**

Height avg. = 5.8m, range 3.5-11m, 6 sites

Crown cover avg. = 23.3%, range 5.0-55.0%, 6 sites

*Dominant species (relative cover, frequency): Diospyros geminata (32, 33%), Alectryon connatus (23, 33%), Gossia bidwillii (20, 67%), Aidia racemosa (18, 33%), Pleurostylia opposita (15, 33%)*

*Frequent species (cover, frequency): Gossia bidwillii (5, 67%), Polyscias elegans (1, 50%), Aidia racemosa (5, 33%), Alectryon connatus (4, 33%), Brachychiton australis (3, 33%), Croton insularis (33%), Cryptocarya triplinervis (3, 33%), Diospyros geminata (2, 33%), Erythroxylum sp. (Splityard Creek L.Pedley 5360) (1, 33%), Exocarpos latifolius (1, 33%), Pittosporum spinescens (1, 33%), Planchonella cotinifolia (1, 33%), Pleurostylia opposita (1, 33%), Psydrax odorata (1, 33%), Alectryon subdentatus (4, 17%), Alphitonia excelsa (17%), Archidendropsis thozetiana (4, 17%), Atalaya multiflora (1, 17%), Bridelia leichhardtii (17%), Bursaria incana (17%), Capparis arborea (17%), Cissus oblonga (2, 17%), Denhamia disperma (2, 17%), Diospyros humilis (2, 17%), Drypetes deplanchei (4, 17%), Ehretia membranifolia (1, 17%), Elattostachys xylocarpa (1, 17%), Flueggea leucopyrus (10, 17%), Geijera parviflora (4, 17%), Glossocarya hemiderma (1, 17%), Harpullia hillii (2, 17%), Jasminum simplicifolium subsp. australiense (1, 17%), Mallotus philippensis (1, 17%), Notelaea microcarpa (1, 17%), Opuntia tomentosa\* (17%), Polyscias australiana (17%), Psychotria daphnoides var. pubescens (1, 17%), Secamone elliptica (1, 17%), Solanum seafortianum\* (17%), Sterculia quadrifida (2, 17%), Strychnos psilosperma (2, 17%), Tarenna monticola (2, 17%), Terminalia porphyrocarpa (1, 17%)*

**Stratum: Tree 3**

Height avg. = 6.0m, 1 site

Crown cover avg. = 20.0%, 1 site

*Frequent species (cover, frequency): Acronychia laevis (17%), Aphananthe philippinensis (2, 17%), Cryptocarya triplinervis (2, 17%), Diospyros australis (2, 17%), Diospyros geminata (2, 17%), Drypetes deplanchei (2, 17%), Elaeodendron melanocarpum (2, 17%), Elattostachys xylocarpa (2, 17%), Ficus microcarpa (17%), Gossia bidwillii (17%), Kennedia rubicunda (5, 17%), Mallotus philippensis (2, 17%), Melodorum leichhardtii (1, 17%), Murraya ovatifoliolata (2, 17%), Polyalthia nitidissima (17%), Strychnos psilosperma (6, 17%)*

**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus



**Stratum: Shrub 1**

Height avg. = 1.9m, range 1.5-2.5m, 6 sites

Crown cover avg. = 20.8%, range 4.0-40.0%, 6 sites

Dominant species (relative cover, frequency): *Alyxia ruscifolia* (16, 83%), *Acalypha eremorum* (15, 50%), *Acronychia laevis* (14, 33%), *Diospyros humilis* (14, 50%), *Drypetes deplanchei* (12, 33%)

Frequent species (cover, frequency): *Alyxia ruscifolia* (3, 83%), *Murraya ovatifoliolata* (2, 67%), *Acalypha eremorum* (3, 50%), *Carissa ovata* (1, 50%), *Diospyros geminata* (1, 50%), *Diospyros humilis* (3, 50%), *Flueggea leucopyrus* (2, 50%), *Melodorum leichhardtii* (1, 50%), *Pittosporum spinescens* (1, 50%), *Strychnos psilosperma* (1, 50%), *Acronychia laevis* (4, 33%), *Clematicissus opaca* (1, 33%), *Drypetes deplanchei* (3, 33%), *Pavetta australiensis* var. *australiensis* (33%), *Solanum furfuraceum* (33%), *Turraea pubescens* (2, 33%), *Abutilon auritum* (1, 17%), *Abutilon oxycarpum* var. *oxycarpum* (5, 17%), *Acalypha capillipes* (17%), *Actephila sessilifolia* (17%), *Alectryon connatus* (17%), *Alectryon subdentatus* (3, 17%), *Aphananthe philippinensis* (17%), *Atalaya multiflora* (1, 17%), *Atalaya salicifolia* (17%), *Barklya syringifolia* (17%), *Brachychiton rupestris* (17%), *Breynia oblongifolia* (1, 17%), *Capparis arborea* (17%), *Capparis canescens* (2, 17%), *Cassinia laevis* (17%), *Cissus reniformis* (17%), *Claoxylon australe* (1, 17%), *Croton acronychioides* (17%), *Cupaniopsis wadsworthii* (17%), *Dioscorea transversa* (17%), *Diospyros australis* (6, 17%), *Ehretia membranifolia* (17%), *Ficus microcarpa* (1, 17%), *Geijera parviflora* (17%), *Gossia bidwillii* (2, 17%), *Gyrocarpus americanus* (1, 17%), *Hibiscus heterophyllus* (17%), *Jasminum simplicifolium* subsp. *australiense* (2, 17%), *Lantana camara*\* (1, 17%), *Murraya paniculata* 'Exotica'\* (1, 17%), *Myoporum acuminatum* (17%), *Notelaea microcarpa* (1, 17%), *Olearia canescens* (17%), *Planchonella cotinifolia* (1, 17%), *Polyalthia nitidissima* (1, 17%), *Psydrax odorata* (1, 17%), *Psydrax odorata* subsp. *australiana* (17%), *Ricinocarpos ledifolius* (17%), *Secamone elliptica* (17%), *Senna gaudichaudii* (17%), *Solanum seaforthianum*\* (17%), *Strychnos lucida* (1, 17%), *Tarenna monticola* (1, 17%), *Triflorensia ixoroides* (1, 17%), *Ximenesia americana* (17%)

**Stratum: Shrub 2**

Height avg. = 0.7m, range 0.6-0.7m, 2 sites

Crown cover avg. = 15.0%, range 5.0-25.0%, 2 sites

Frequent species (cover, frequency): *Alyxia ruscifolia* (1, 17%), *Lantana camara*\* (1, 17%), *Notelaea microcarpa* (1, 17%), *Pleurostyliya opposita* (1, 17%), *Rivina humilis*\* (20, 17%), *Synostemon albiflorus* (5, 17%), *Turraea pubescens* (2, 17%)

**Stratum: Ground**

Height avg. = 0.3m, range 0.05-0.5m, 3 sites

PFC avg. = 11.7%, range 5-20%, 3 sites

Dominant species (relative cover, frequency): *Ottochloa gracillima* (41, 33%), *Ancistrachne uncinulata* (23, 100%), *Oplismenus aemulus* (18, 67%), *Alyxia ruscifolia* (10, 33%), *Turraea pubescens* (10, 33%)

Frequent species (cover, frequency): GRAMINOIDS: *Ancistrachne uncinulata* (3, 100%), *Dinebra decipiens* (67%), *Oplismenus aemulus* (3, 67%), *Aristida caput-medusae* (33%), *Cyperus gracilis* (33%), *Digitaria ramularis* (33%), *Ottochloa gracillima* (3, 33%), *Scleria brownii* (33%)

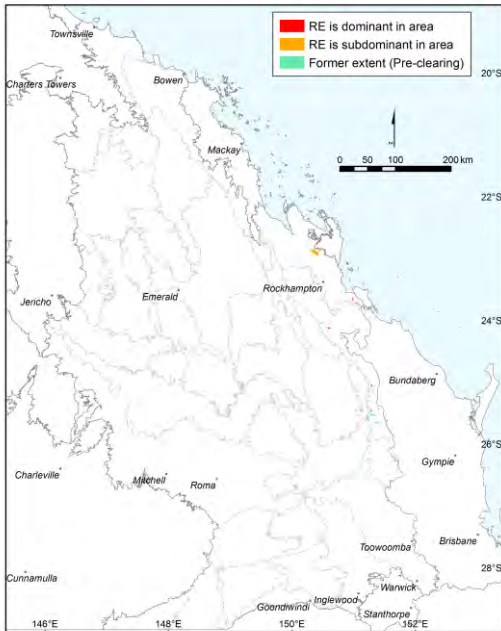
FORBS: *Dioscorea transversa* (100%), *Jasminum didymum* subsp. *racemosum* (100%), *Passiflora suberosa*\* (1, 100%), *Pseuderanthemum variabile* (100%), *Solanum seaforthianum*\* (100%), *Cissus oblonga* (1, 67%), *Clematicissus opaca* (67%), *Diplocyclos palmatus* subsp. *palmatus* (67%), *Glossocarya hemiderma* (67%), *Grewia latifolia* (67%), *Psychotria daphnoides* (67%), *Rivina humilis*\* (2, 67%), *Secamone elliptica* (67%), *Smilax australis* (67%), *Abutilon albescens* (33%), *Abutilon oxycarpum* (33%), *Acalypha eremorum* (33%), *Alyxia ruscifolia* (3, 33%), *Aristolochia elegans*\* (33%), *Atalaya salicifolia* (33%), *Brachychiton australis* (33%), *Canavalia papuana* (33%), *Carissa ovata* (33%), *Cayratia acris* (33%), *Cheilanthes sieberi* (33%), *Cyanthillium cinereum* (33%), *Dianella indet.* (1, 33%), *Diospyros australis* (33%), *Diospyros humilis* (1, 33%), *Doryopteris concolor* (33%), *Drynaria sparsisora* (33%), *Elaeodendron australe* (33%), *Eustrephus latifolius* (33%), *Flindersia australis* (33%), *Flueggea leucopyrus* (33%), *Geitonoplesium cymosum* (33%), *Homalium alnifolium* (33%), *Jasminum simplicifolium* subsp. *australiense* (33%), *Lantana camara*\* (2, 33%), *Lantana montevidensis*\* (33%), *Melia azedarach* (33%), *Melodorum leichhardtii* (33%), *Olearia canescens* (33%), *Pandorea pandorana* (33%), *Pellaea nana* (33%), *Praxelis clematidea*\* (33%), *Triflorensia ixoroides* (33%), *Trophis scandens* subsp. *scandens* (33%), *Turraea pubescens* (3, 33%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

Vine thicket, usually with no *Araucaria cunninghamii* emergents



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 15,307 5,849 38%

Species\_recorded: Total: 145; woody: 114; ground: 66; Avg. spp./site: 53.6; std dev.: 12.3, 5 site(s)

Basal area: Avg./site: 26.0 m<sup>2</sup>/ha, range: 18.0 - 37 m<sup>2</sup>/ha, std. deviation: 8 m<sup>2</sup>/ha, 3 site(s)

Structural formation: Closed-forest: 40%; woodland: 20%; unrecorded: 40%, 5 site(s)

Representative\_sites 14842, 14851, 17084, 47514, 47534.

**Stratum: Emergent**

Height avg. = 20.0m, range 18-22m, 2 sites

Crown cover avg. = 5.0%, range 5.0-5.0%, 2 sites

Frequent species (cover, frequency): *Brachychiton rupestris* (5, 20%), *Geijera salicifolia* (5, 20%)

**Stratum: Tree 1**

Height avg. = 15.0m, range 10-24m, 5 sites

Crown cover avg. = 36.0%, range 10.0-90.0%, 5 sites

Dominant species (relative cover, frequency): *Euroschinus falcatus* (36, 40%), *Cupaniopsis anacardioides* (13, 40%), *Terminalia porphyrocarpa* (11, 40%), *Drypetes deplanchei* (10, 60%), *Pleiogynium timorense* (8, 100%)

Frequent species (cover, frequency): *Pleiogynium timorense* (2, 100%), *Drypetes deplanchei* (6, 60%), *Polyscias elegans* (60%), *Archidendropsis thozetiana* (1, 40%), *Cissus oblonga* (1, 40%), *Cupaniopsis anacardioides* (8, 40%), *Elatostachys xylocarpa* (40%), *Euroschinus falcatus* (8, 40%), *Ficus rubiginosa* (1, 40%), *Geijera salicifolia* (1, 40%), *Terminalia porphyrocarpa* (1, 40%), *Trophis scandens subsp. scandens* (40%), *Alectryon connatus* (10, 20%), *Atalaya rigida* (20%), *Atalaya salicifolia* (2, 20%), *Backhousia angustifolia* (8, 20%), *Barklya syringifolia* (1, 20%), *Clematicissus opaca* (1, 20%), *Coatesia paniculata* (20%), *Dendrocnide photinophylla* (20%), *Denhamia disperma* (20%), *Dinosperma erythrococtum* (1, 20%), *Dinosperma melanophloia* (4, 20%), *Dissiliaria muelleri* (85, 20%), *Dockrillia bowmanii* (20%), *Excoecaria dallachyana* (15, 20%), *Ficus opposita* (1, 20%), *Flindersia collina* (1, 20%), *Glossocarya hemiderma* (1, 20%), *Grevillea helmsiae* (20%), *Melodorum leichhardtii* (20%), *Notelaea microcarpa* (1, 20%), *Pandorea pandorana* (20%), *Planchonella cotinifolia* (3, 20%), *Secamone elliptica* (20%), *Sterculia quadrifida* (20%), *Tinospora smilacina* (20%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Tree 2**

Height avg. = 8.3m, range 5-15m, 4 sites

Crown cover avg. = 47.5%, range 20.0-90.0%, 4 sites

Dominant species (relative cover, frequency): *Excoecaria dallachyana* (28, 40%), *Croton acronychioides* (12, 40%), *Elaeodendron australe* var. *integrifolium* (11, 40%), *Alectryon connatus* (11, 40%), *Gossia bidwillii* (10, 80%)

Frequent species (cover, frequency): *Diospyros geminata* (80%), *Gossia bidwillii* (6, 80%), *Cissus oblonga* (1, 60%), *Planchonella cotinifolia* (2, 60%), *Alectryon connatus* (3, 40%), *Archidendropsis thozetiana* (40%), *Backhousia angustifolia* (1, 40%), *Bridelia leichhardtii* (1, 40%), *Croton acronychioides* (4, 40%), *Cryptocarya triplinervis* (1, 40%), *Cupaniopsis anacardioides* (1, 40%), *Diospyros australis* (3, 40%), *Drypetes deplanchei* (40%), *Elaeodendron australe* var. *integrifolium* (3, 40%), *Elattostachys xylocarpa* (1, 40%), *Excoecaria dallachyana* (6, 40%), *Sterculia quadrifida* (40%), *Trophis scandens* subsp. *scandens* (40%), *Acronychia laevis* (20%), *Alphitonia excelsa* (1, 20%), *Atalaya salicifolia* (20%), *Bouchardatia neurococca* (30, 20%), *Capparis arborea* (1, 20%), *Capparis loranthifolia* (20%), *Clematicissus opaca* (20%), *Coatesia paniculata* (8, 20%), *Croton insularis* (3, 20%), *Cryptocarya bidwillii* (1, 20%), *Cupaniopsis* sp. (*Watalgan* A.R.Bean 8611) (20%), *Dinosperma erythrococcum* (1, 20%), *Diospyros fasciculosa* (1, 20%), *Dockrillia bowmanii* (20%), *Dockrillia schoenina* (20%), *Elaeodendron melanocarpum* (10, 20%), *Euroschinus falcatus* (1, 20%), *Ficus rubiginosa* (1, 20%), *Geijera salicifolia* (3, 20%), *Glossocarya hemiderma* (20%), *Mallotus philippensis* (1, 20%), *Notelaea microcarpa* (20%), *Olea paniculata* (1, 20%), *Opuntia tomentosa*\* (20%), *Parsonia velutina* (20%), *Planchonella cotinifolia* var. *pubescens* (2, 20%), *Planchonella pohlmaniana* (1, 20%), *Pleiogynium timorense* (1, 20%), *Polyscias elegans* (20%), *Rhysotoechia bifoliolata* subsp. *bifoliolata* (1, 20%), *Sersalisia sericea* (1, 20%), *Streblus brunonianus* (1, 20%), *Strychnos psilosperma* (5, 20%), *Terminalia porphyrocarpa* (1, 20%), *Zanthoxylum brachyacanthum* (20%)

**Stratum: Shrub 1**

Height avg. = 2.6m, range 2-3m, 5 sites

Crown cover avg. = 19.8%, range 2.0-50.0%, 5 sites

Dominant species (relative cover, frequency): *Strychnos psilosperma* (26, 60%), *Alchornea ilicifolia* (13, 40%), *Carissa ovata* (9, 60%), *Alyxia ruscifolia* (9, 60%), *Murraya ovatifoliolata* (4, 60%)

Frequent species (cover, frequency): *Oplismenus aemulus* (1, 20%), *Alyxia ruscifolia* (2, 60%), *Carissa ovata* (2, 60%), *Cissus oblonga* (60%), *Glossocarya hemiderma* (1, 60%), *Murraya ovatifoliolata* (1, 60%), *Strychnos psilosperma* (5, 60%), *Alchornea ilicifolia* (3, 40%), *Backhousia angustifolia* (40%), *Coatesia paniculata* (40%), *Croton acronychioides* (40%), *Dioscorea transversa* (40%), *Excoecaria dallachyana* (40%), *Gossia bidwillii* (40%), *Pandorea pandorana* (40%), *Solanum seafortianum*\* (1, 40%), *Turraea pubescens* (1, 40%), *Acalypha eremorum* (30, 20%), *Acronychia laevis* (5, 20%), *Acronychia pauciflora* (20%), *Aidia racemosa* (20%), *Atalaya salicifolia* (20%), *Austrosteenisia blackii* (20%), *Bouchardatia neurococca* (10, 20%), *Brachychiton rupestris* (20%), *Breynia oblongifolia* (20%), *Capparis arborea* (20%), *Claoxylon australe* (20%), *Clematicissus opaca* (20%), *Denhamia pittosporoides* subsp. *pittosporoides* (20%), *Diospyros geminata* (1, 20%), *Diospyros humilis* (20%), *Dissiliaria muelleri* (2, 20%), *Elaeodendron australe* var. *integrifolium* (20%), *Exocarpos latifolius* (20%), *Geijera salicifolia* (2, 20%), *Gynochthodes canthoides* (20%), *Jasminum didymum* (20%), *Jasminum didymum* subsp. *racemosum* (20%), *Lantana camara*\* (2, 20%), *Macrozamia miquelii* (20%), *Melodorum leichhardtii* (20%), *Micromelum minutum* (20%), *Passiflora suberosa*\* (20%), *Pavetta australiensis* (20%), *Pittosporum spinescens* (20%), *Planchonella cotinifolia* (1, 20%), *Pleiogynium timorense* (20%), *Pleogyne australis* (20%), *Psychotria daphnoides* (20%), *Psydrax odorata* (20%), *Psydrax odorata* subsp. *australiana* (20%), *Rhodammia spongiosa* (20%), *Secamone elliptica* (20%), *Senna gaudichaudii* (20%), *Siphonodon australis* (20%), *Smilax australis* (20%), *Solanum furfuraceum* (20%), *Tetrastigma nitens* (20%), *Tinospora smilacina* (20%), *Tragia novae-hollandiae* (20%), *Trema tomentosa* (20%), *Triflorensis ixoroides* (20%)

**Stratum: Shrub 2**

Height avg. = 1.5m, 1 site

Crown cover avg. = 2.0%, 1 site

Frequent species (cover, frequency): *Alectryon connatus* (20%), *Alyxia ruscifolia* (20%), *Austrosteenisia blackii* (20%), *Caesalpinia indet.* (20%), *Capparis arborea* (20%), *Cayratia acris* (20%), *Cissus antarctica* (20%), *Clematicissus opaca* (20%), *Croton acronychioides* (20%), *Cryptocarya triplinervis* (20%), *Dioscorea transversa* (20%), *Diospyros australis* (20%), *Diospyros geminata* (20%), *Elattostachys xylocarpa* (20%), *Hoya australis* (20%), *Jasminum didymum* (20%), *Marsdenia lloydii* (20%), *Murraya ovatifoliolata* (20%), *Passiflora aurantia* (20%), *Pavetta australiensis* (20%), *Planchonella cotinifolia* var. *pubescens* (20%), *Psydrax odorata* (20%), *Secamone elliptica* (20%), *Smilax australis* (20%), *Streblus brunonianus* (20%), *Strychnos psilosperma* (20%), *Tarenna indet.* (20%), *Trophis scandens* subsp. *scandens* (20%), *Turraea pubescens* (20%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Ground**

Height avg. = 0.7m, range 0.1-1m, 4 sites

PFC avg. = 31.5%, range 1-80%, 4 sites

*Dominant species (relative cover, frequency): Rivina humilis\** (40, 80%), *Hoya australis subsp. australis* (39, 40%), *Oplismenus aemulus* (9, 40%), *Alyxia ruscifolia* (6, 40%), *Ancistrachne uncinulata* (5, 100%)

*Frequent species (cover, frequency): GRAMINOIDS: Ancistrachne uncinulata* (1, 100%), *Dinebra decipiens* (1, 40%), *Oplismenus aemulus* (3, 40%)

*FORBS: Glossocarya hemiderma* (80%), *Rivina humilis\** (24, 80%), *Adiantum hispidulum* (60%), *Pseuderanthemum variabile* (60%), *Abutilon oxycarpum* (3, 40%), *Alyxia ruscifolia* (40%), *Croton acronychioides* (40%), *Geijera salicifolia* (40%), *Hoya australis subsp. australis* (3, 40%), *Jasminum didymum* (40%), *Melodorum leichhardtii* (40%), *Solanum seaforthianum\** (40%), *Strychnos psilosperma* (40%), *Tagetes minuta\** (40%), *Triflorensia ixoroides* (40%), *Trophis scandens subsp. scandens* (40%), *Ageratum conyzoides\** (20%), *Alectryon connatus* (20%), *Archidendropsis thozetiana* (20%), *Asplenium nidus* (20%), *Backhousia angustifolia* (20%), *Brachychiton rupestris* (20%), *Breynia oblongifolia* (20%), *Bryophyllum delagoense\** (20%), *Carissa ovata* (20%), *Cissus antarctica* (20%), *Cissus oblonga* (3, 20%), *Cissus reniformis* (20%), *Clematicissus opaca* (20%), *Coatesia paniculata* (20%), *Commelina diffusa* (20%), *Croton insularis* (20%), *Cynanchum viminale subsp. brunonianum* (20%), *Dinosperma erythrococcum* (20%), *Dioscorea transversa* (20%), *Eustrephus latifolius* (20%), *Excoecaria dallachyana* (20%), *Geitonoplesium cymosum* (20%), *Gymnostachys anceps* (20%), *Hoya australis* (20%), *Jasminum didymum subsp. racemosum* (2, 20%), *Jasminum simplicifolium subsp. australiense* (20%), *Lantana camara\** (20%), *Lantana montevidensis\** (2, 20%), *Lycianthes shanesii* (20%), *Marsdenia micradenia* (20%), *Microsorium punctatum* (20%), *Parsonsia plaesiophylla* (20%), *Passiflora suberosa\** (20%), *Pellaea paradoxa* (1, 20%), *Peperomia blanda var. floribunda* (20%), *Planchonella cotinifolia var. pubescens* (20%), *Pleogyne australis* (20%), *Pterocaulon redolens* (20%), *Pyrrosia rupestris* (20%), *Sigesbeckia orientalis* (20%), *Smilax australis* (20%), *Solanum nigrum subsp. nigrum\** (20%), *Solanum stelligerum* (1, 20%), *Spartium junceum\** (20%), *Sterculia quadrifida* (20%), *Tetrastigma nitens* (20%)

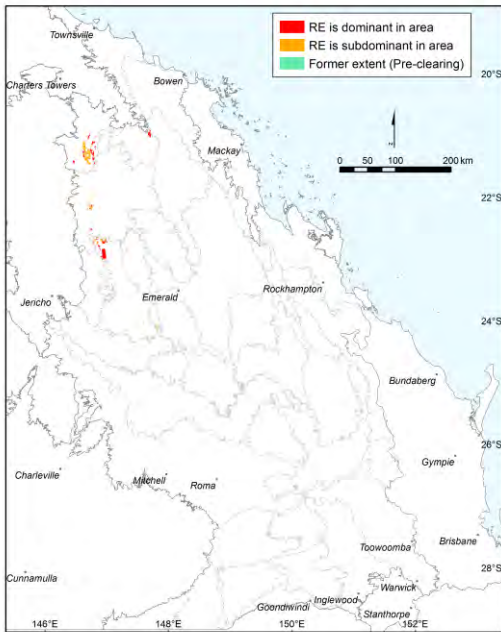
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**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Corymbia leichhardtii, C. clarksoniana tall open woodland on deformed and metamorphosed sediments and interbedded volcanics**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 29,879 28,830 96%

Species\_recorded: Total: 111; woody: 43; ground: 69; Avg. spp./site: 29.0; std dev.: 0.0, 1 site(s)

Basal area: Avg./site: 5.5 m<sup>2</sup>/ha, range: 5.5 - 6 m<sup>2</sup>/ha, std. deviation: 0 m<sup>2</sup>/ha, 1 site(s)

Structural formation: Open-woodland: 60%; woodland: 40%, 5 site(s)

Representative\_sites 2445, 2446, 2449, 3091, 56094.

**Stratum: Tree 1**

Height avg. = 17.4m, 1 site

Crown cover avg. = 31.0%, 1 site

Dominant species (relative cover, frequency): *Corymbia leichhardtii* (56, 100%), *Eucalyptus crebra* (12, 60%), *Corymbia lamprophylla* (10, 80%), *Corymbia dallachiana* (6, 40%)

Frequent species (cover, frequency): *Corymbia leichhardtii* (11, 100%), *Corymbia lamprophylla* (2, 80%), *Eucalyptus crebra* (3, 60%), *Corymbia dallachiana* (1, 40%), *Acacia shirleyi* (7, 20%), *Corymbia clarksoniana* (32, 20%)

**Stratum: Tree 2**

Height avg. = 8.9m, 1 site

Crown cover avg. = 7.0%, 1 site

Frequent species (cover, frequency): *Acacia julifera* (20%), *Alphitonia excelsa* (20%), *Eucalyptus melanophloia* (1, 20%), *Melaleuca nervosa* (1, 20%), *Melaleuca tamariscina* (1, 20%), *Petalostigma banksii* (20%), *Terminalia aridicola* (1, 20%)

**Stratum: Tree 3**

Height avg. = 4.2m, 1 site

Crown cover avg. = 13.0%, 1 site

Frequent species (cover, frequency): *Alphitonia pomaderroides* (20%), *Larsenaikia ochreatea* (20%), *Petalostigma banksii* (13, 20%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Shrub 1**

Height avg. = 3.2m, 1 site

Crown cover avg. = 0.0%, 1 site

*Dominant species (relative cover, frequency):* *Acacia julifera* subsp. *curvinervia* (32, 40%), *Erythroxylum australe* (31, 80%), *Acacia leptostachya* (20, 60%), *Larsenaikia ochreatea* (11, 40%), *Melaleuca tamariscina* (10, 40%)

*Frequent species (cover, frequency):* *Erythroxylum australe* (3, 80%), *Acacia leptostachya* (2, 60%), *Acacia julifera* subsp. *curvinervia* (5, 40%), *Alphitonia excelsa* (40%), *Larsenaikia ochreatea* (40%), *Melaleuca tamariscina* (3, 40%), *Acacia julifera* (20%), *Acacia multisiliqua* (20%), *Atalaya hemiglauca* (20%), *Clerodendrum floribundum* (20%), *Coelospermum reticulatum* (20%), *Corymbia clarksoniana* (1, 20%), *Corymbia leichhardtii* (20%), *Denhamia cunninghamii* (1, 20%), *Desmodium macrocarpum* (20%), *Dodonaea filifolia* (1, 20%), *Flueggea leucopyrus* (20%), *Grevillea pteridifolia* (1, 20%), *Hovea parvicalyx* (20%), *Jacksonia ramosissima* (20%), *Melaleuca nervosa* (3, 20%), *Melaleuca uncinata* (20%), *Parsonsia indet.* (20%), *Persoonia falcata* (20%), *Petalostigma banksii* (20%), *Petalostigma pubescens* (2, 20%), *Santalum lanceolatum* (20%), *Terminalia aridicola* subsp. *chillagoensis* (20%), *Xanthorrhoea johnsonii* (20%)

**Stratum: Shrub 2**

Height avg. = 0.7m, 1 site

Crown cover avg. = 1.0%, 1 site

*Frequent species (cover, frequency):* *Acacia dietrichiana* (20%), *Acacia julifera* (20%), *Acacia multisiliqua* (20%), *Capparis canescens* (20%), *Corymbia clarksoniana* (20%), *Corymbia dallachiana* (20%), *Daviesia filipes* (5, 20%), *Flueggea leucopyrus* (20%), *Grevillea decora* subsp. *decora* (20%), *Grevillea sessilis* (20%), *Grewia retusifolia* (20%), *Hovea parvicalyx* (20%), *Tephrosia brachyodon* (20%), *Xanthorrhoea johnsonii* (5, 20%)

**Stratum: Ground**

Height avg. = 0.5m, 1 site

PFC avg. = 12.0%, 1 site

*Dominant species (relative cover, frequency):* *Heteropogon contortus* (35, 100%), *Aristida jerichoensis* var. *jerichoensis* (18, 100%), *Bothriochloa pertusa*\* (10, 100%), *Stylosanthes scabra*\* (8, 100%), *Cenchrus ciliaris*\* (7, 100%)

*Frequent species (cover, frequency):* GRAMINOIDS: *Aristida jerichoensis* var. *jerichoensis* (2, 100%), *Bothriochloa pertusa*\* (1, 100%), *Calyptochloa gracillima* subsp. *gracillima* (100%), *Cenchrus ciliaris*\* (1, 100%), *Cymbopogon indet.* (100%), *Eriachne mucronata* forma (Alpha C.E.Hubbard 7882) (1, 100%), *Heteropogon contortus* (4, 100%), *Paspalidium indet.* (100%), *Scleria indet.* (100%), *Themeda triandra* (100%)

FORBS: *Cheilanthes sieberi* (100%), *Cyanthillium cinereum* (100%), *Parsonsia indet.* (100%), *Phyllanthus virgatus* (100%), *Sida atherophora* (1, 100%), *Stylosanthes scabra*\* (1, 100%)

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**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Eucalyptus fibrosa subsp. fibrosa, Corymbia xanthope woodland on serpentinite**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 35,707 30,136 84%

Species\_recorded: Total: 162; woody: 54; ground: 125; Avg. spp./site: 25.2; std dev.: 7.3, 10 site(s)

Basal area: Avg./site: 16.5 m<sup>2</sup>/ha, range: 4.0 - 25 m<sup>2</sup>/ha, std. deviation: 6 m<sup>2</sup>/ha, 13 site(s)

Structural formation: Woodland: 92%; open-forest: 8%, 13 site(s)

Representative\_sites 17060, 17061, 17623, 17624, 17625, 17635, 17642, 17659, 17663, 41036, 41055, 41075, 41255.

**Stratum: Emergent**

Height avg. = 28.0m, 1 site

Crown cover avg. = 5.0%, 1 site

Frequent species (cover, frequency): *Eucalyptus fibrosa subsp. fibrosa* (5, 8%)

**Stratum: Tree 1**

Height avg. = 18.1m, range 10-22m, 13 sites

Crown cover avg. = 29.3%, range 15.9-52.0%, 13 sites

Dominant species (relative cover, frequency): *Eucalyptus fibrosa subsp. fibrosa* (63, 100%), *Corymbia xanthope* (38, 85%)

Frequent species (cover, frequency): *Eucalyptus fibrosa subsp. fibrosa* (16, 100%), *Corymbia xanthope* (10, 85%), *Corymbia citriodora* (8%), *Corymbia citriodora subsp. citriodora* (10, 8%), *Corymbia erythrophloia* (3, 8%), *Eucalyptus crebra* (1, 8%), *Lophostemon suaveolens* (2, 8%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Tree 2**

Height avg. = 8.9m, range 5-15m, 10 sites

Crown cover avg. = 5.1%, range 1.0-11.0%, 10 sites

Dominant species (relative cover, frequency): *Eucalyptus fibrosa* subsp. *fibrosa* (65, 54%), *Acacia leiocalyx* subsp. *leiocalyx* (57, 23%), *Corymbia xanthope* (44, 38%)

Frequent species (cover, frequency): *Eucalyptus fibrosa* subsp. *fibrosa* (2, 54%), *Corymbia xanthope* (2, 38%), *Acacia leiocalyx* subsp. *leiocalyx* (5, 23%), *Acacia leptostachya* (10, 8%), *Allocasuarina littoralis* (2, 8%), *Alphitonia excelsa* (1, 8%), *Corymbia citriodora* subsp. *citriodora* (8%), *Ficus opposita* (8%), *Petalostigma pubescens* (1, 8%)

**Stratum: Tree 3**

Height avg. = 5.3m, range 4-6m, 3 sites

Crown cover avg. = 3.3%, range 3.0-4.0%, 3 sites

Frequent species (cover, frequency): *Acacia leptostachya* (2, 15%), *Acacia julifera* (2, 8%), *Alphitonia excelsa* (1, 8%), *Corymbia xanthope* (1, 8%), *Eucalyptus fibrosa* subsp. *fibrosa* (2, 8%), *Petalostigma pubescens* (1, 8%)

**Stratum: Shrub 1**

Height avg. = 1.7m, range 0.9-3m, 13 sites

Crown cover avg. = 10.4%, range 1.0-27.0%, 13 sites

Dominant species (relative cover, frequency): *Xanthorrhoea johnsonii* (55, 23%), *Alphitonia excelsa* (37, 54%), *Macrozamia serpentina* (26, 23%), *Acacia leiocalyx* subsp. *leiocalyx* (24, 31%), *Diospyros geminata* (20, 23%)

Frequent species (cover, frequency): *Alphitonia excelsa* (5, 54%), *Acacia leiocalyx* subsp. *leiocalyx* (3, 31%), *Eucalyptus fibrosa* subsp. *fibrosa* (1, 31%), *Corymbia xanthope* (1, 23%), *Diospyros geminata* (2, 23%), *Macrozamia serpentina* (4, 23%), *Xanthorrhoea johnsonii* (4, 23%), *Acacia crassa* subsp. *crassa* (4, 15%), *Acacia leptostachya* (3, 15%), *Dodonaea indet.* (15%), *Dodonaea lanceolata* var. *subsessilifolia* (4, 15%), *Melodorum leichhardtii* (3, 15%), *Psychotria daphnoides* (2, 15%), *Acacia aulacocarpa* (8%), *Acacia complanata* (8%), *Acacia decora* (2, 8%), *Acacia disparrima* subsp. *disparrima* (8%), *Acacia* sp. (*Canoona* S.T.Blake 15321) (8%), *Anisomeles moschata* (8%), *Antirhea putaminosa* (8%), *Astrotricha intermedia* (8%), *Breynia oblongifolia* (8%), *Capparis canescens* (1, 8%), *Cerbera dumicola* (8%), *Coelospermum reticulatum* (8%), *Corymbia citriodora* (8%), *Denhamia disperma* (1, 8%), *Erythroxylum indet.* (8%), *Ficus opposita* (1, 8%), *Hovea indet.* (8%), *Leucopogon cuspidatus* (1, 8%), *Macrozamia miquelii* (8%), *Mallotus philippensis* (1, 8%), *Myrsine variabilis* (1, 8%), *Pavetta australiensis* var. *australiensis* (8%), *Pimelea leptospermoides* (9, 8%), *Pittosporum spinescens* (1, 8%), *Polyscias elegans* (8%), *Solanum parvifolium* (1, 8%), *Turraea pubescens* (8%), *Xanthorrhoea latifolia* (6, 8%)

**Stratum: Shrub 2**

Height avg. = 0.7m, range 0.3-1m, 7 sites

Crown cover avg. = 7.6%, range 2.0-15.0%, 7 sites

Dominant species (relative cover, frequency): *Macrozamia serpentina* (43, 31%), *Alphitonia excelsa* (40, 23%)

Frequent species (cover, frequency): *Macrozamia serpentina* (2, 31%), *Alphitonia excelsa* (2, 23%), *Pimelea leptospermoides* (3, 15%), *Astrotricha intermedia* (8%), *Coelospermum reticulatum* (1, 8%), *Ficus opposita* (8%), *Grewia latifolia* (7, 8%), *Hibiscus divaricatus* (8%), *Marsdenia viridiflora* (8%), *Melodorum leichhardtii* (8%), *Psychotria daphnoides* (1, 8%), *Psychotria daphnoides* var. *angustifolia* (8%), *Pultenaea setulosa* (1, 8%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus



**Stratum: Ground**

Height avg. = 0.4m, range 0.2-0.6m, 10 sites

PFC avg. = 27.5%, range 5-61%, 10 sites

*Dominant species (relative cover, frequency):* *Triodia mitchellii* (55, 60%), *Heteropogon contortus* (14, 30%), *Xanthorrhoea johnsonii* (14, 40%), *Aristida calycina* (13, 30%), *Panicum effusum* (10, 60%)

*Frequent species (cover, frequency):* GRAMINOIDS: *Panicum effusum* (2, 60%), *Triodia mitchellii* (23, 60%), *Gahnia aspera* (1, 40%), *Aristida calycina* (4, 30%), *Aristida queenslandica* (1, 30%), *Heteropogon contortus* (2, 30%), *Scleria indet.* (1, 30%), *Themeda triandra* (2, 30%), *Aristida indet.* (1, 20%), *Cleistochloa subjuncea* (8, 20%), *Cymbopogon refractus* (1, 20%), *Cyperus gracilis* (1, 20%), *Panicum indet.* (1, 20%), *Paspalidium gausum* (5, 20%), *Paspalidium indet.* (20%), *Alloteropsis semialata* (10%), *Ancistrachne uncinulata* (10%), *Aristida gracilipes* (10, 10%), *Aristida latifolia* (3, 10%), *Cenchrus caliculatus* (1, 10%), *Cyperus trinervis* (10%), *Dichanthium indet.* (10%), *Digitaria indet.* (1, 10%), *Entolasia stricta* (10%), *Eragrostis brownii* (10%), *Eragrostis indet.* (10%), *Eragrostis leptostachya* (10%), *Melinis repens\** (1, 10%), *Paspalidium gracile* (5, 10%), *Paspalum distichum* (10%), *Scleria brownii* (10%), *Scleria mackaviensis* (10%)

FORBS: *Breynia oblongifolia* (40%), *Passiflora suberosa\** (1, 40%), *Xanthorrhoea johnsonii* (4, 40%), *Glycine tabacina* (30%), *Grewia latifolia* (1, 30%), *Hardenbergia violacea* (30%), *Lomandra multiflora subsp. multiflora* (30%), *Macrozamia miquelii* (1, 30%), *Phyllanthus virgatus* (30%), *Pimelea leptospermoides* (30%), *Tephrosia filipes* (30%), *Cyanthillium cinereum* (20%), *Denhamia disperma* (20%), *Lomandra confertifolia subsp. pallida* (1, 20%), *Marsdenia brevifolia* (1, 20%), *Parsonsia indet.* (20%), *Rostellularia adscendens* (20%), *Stachytarpheta jamaicensis\** (1, 20%), *Acacia complanata* (10%), *Acacia disparrima subsp. disparrima* (10%), *Acacia leptostachya* (2, 10%), *Alphitonia excelsa* (10%), *Alyxia ruscifolia* (10%), *Asteraceae indet.* (1, 10%), *Astrotricha intermedia* (10%), *Boerhavia indet.* (10%), *Brunoniella acaulis* (10%), *Brunoniella australis* (10%), *Capparis thozetiana* (1, 10%), *Carissa ovata* (10%), *Cassytha filiformis* (1, 10%), *Cerbera dumicola* (1, 10%), *Chamaecrista indet.* (10%), *Cheilanthes distans* (1, 10%), *Crotalaria montana* (10%), *Crotalaria montana var. angustifolia* (10%), *Cryptostegia grandiflora\** (10%), *Cycas ophiolitica* (1, 10%), *Desmodium rhytidophyllum* (10%), *Dianella indet.* (10%), *Dianella rara* (10%), *Dianella revoluta* (10%), *Dodonaea lanceolata var. lanceolata* (10%), *Emilia sonchifolia\** (10%), *Eremophila debilis* (10%), *Euphorbia psammogeton* (10%), *Eustrephus latifolius* (4, 10%), *Galactia tenuiflora* (10%), *Glycine tomentella* (10%), *Gomphrena celosioides\** (10%), *Hardenbergia indet.* (10%), *Leucopogon cuspidatus* (7, 10%), *Lomandra confertifolia* (10%), *Oldenlandia indet.* (10%), *Opercularia diphylla* (10%), *Oxalis indet.* (10%), *Pandorea pandorana* (1, 10%), *Parthenium hysterophorus\** (10%), *Polygala indet.* (10%), *Polygala triflora* (10%), *Psychotria daphnoides* (10%), *Psychotria daphnoides var. angustifolia* (10%), *Psydrax odorata* (10%), *Senna occidentalis\** (10%), *Sida cordifolia\** (10%), *Sida indet.* (1, 10%), *Sida rohlenae* (4, 10%), *Solanum ellipticum* (10%), *Solanum indet.* (10%), *Tricoryne anceps subsp. anceps* (1, 10%)

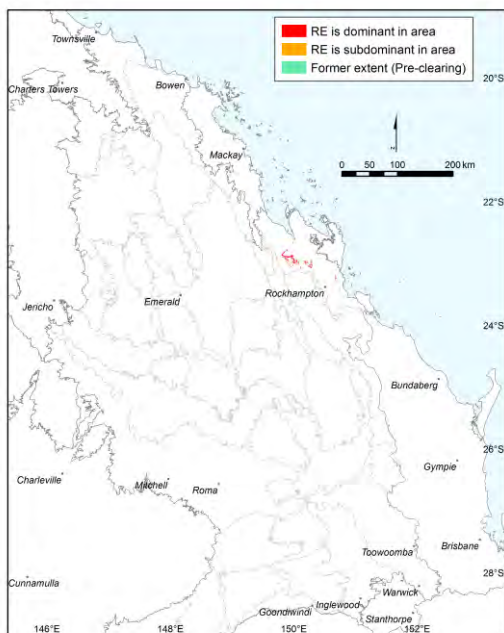
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Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Eucalyptus fibrosa subsp. fibrosa +/- Corymbia spp. +/- Eucalyptus spp. woodland with a diverse shrub layer including several endemic species occurring on undulating low hills and colluvial aprons**



**Pre-clearing area (ha), remnant area (ha) and per cent remaining: 20,270 15,583 77%**

**Species\_recorded: Total: 151; woody: 49; ground: 113; Avg. spp./site: 36.6; std dev.: 6.8, 5 site(s)**

**Basal area: Avg./site: 19.5 m<sup>2</sup>/ha, range: 13.0 - 40 m<sup>2</sup>/ha, std. deviation: 8 m<sup>2</sup>/ha, 9 site(s)**

**Structural formation: Woodland: 100%, 9 site(s)**

**Representative\_sites 17627, 17628, 17664, 17665, 19264, 41076, 41077, 41135, 41176.**

**Stratum: Tree 1**

**Height avg. = 19.4m, range 14-24.5m, 9 sites**

**Crown cover avg. = 29.9%, range 15.0-48.5%, 9 sites**

*Dominant species (relative cover, frequency): Eucalyptus fibrosa subsp. fibrosa (76, 100%), Corymbia erythrophloia (40, 22%), Corymbia xanthope (19, 33%)*

*Frequent species (cover, frequency): Eucalyptus fibrosa subsp. fibrosa (24, 100%), Corymbia xanthope (4, 33%), Corymbia erythrophloia (10, 22%), Corymbia dallachiana (5, 11%), Eucalyptus crebra (15, 11%)*

**Stratum: Tree 2**

**Height avg. = 9.9m, range 5-14m, 9 sites**

**Crown cover avg. = 4.3%, range 0.6-10.0%, 9 sites**

*Dominant species (relative cover, frequency): Eucalyptus fibrosa subsp. fibrosa (90, 89%), Alphitonia excelsa (35, 22%)*

*Frequent species (cover, frequency): Eucalyptus fibrosa subsp. fibrosa (4, 89%), Alphitonia excelsa (1, 22%), Acacia leptostachya (11%), Amorhospermum antilogum (11%), Lophostemon suaveolens (1, 11%), Pleiogynium timorense (1, 11%), Psydrax oleifolia (1, 11%)*

**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Tree 3**

Height avg. = 4.0m, 1 site

Crown cover avg. = 3.0%, 1 site

*Frequent species (cover, frequency): Alphitonia excelsa (1, 11%), Petalostigma triloculare (2, 11%)*

**Stratum: Shrub 1**

Height avg. = 1.8m, range 0.7-3.5m, 9 sites

Crown cover avg. = 5.5%, range 1.0-15.0%, 9 sites

*Dominant species (relative cover, frequency): Acacia sp. (Canoona S.T.Blake 15321) (50, 22%), Grewia latifolia (43, 22%), Acacia leptostachya (32, 33%), Dodonaea triquetra (29, 22%), Petalostigma pubescens (28, 33%)*

*Frequent species (cover, frequency): Alphitonia excelsa (1, 56%), Eucalyptus fibrosa subsp. fibrosa (56%), Acacia leptostachya (2, 33%), Petalostigma pubescens (1, 33%), Pimelea leptospermoides (1, 33%), Acacia leiocalyx subsp. leiocalyx (1, 22%), Acacia sp. (Canoona S.T.Blake 15321) (3, 22%), Corymbia xanthope (1, 22%), Dodonaea triquetra (1, 22%), Ficus opposita (1, 22%), Grewia latifolia (1, 22%), Psydrax odorata (1, 22%), Sida hackettiana (1, 22%), Acacia crassa subsp. crassa (7, 11%), Acacia disparrima subsp. disparrima (11%), Acacia excelsa (1, 11%), Alyxia ruscifolia (1, 11%), Alyxia spicata (11%), Breynia oblongifolia (11%), Carissa ovata (11%), Coelospermum reticulatum (11%), Cryptostegia grandiflora\* (11%), Diospyros geminata (11%), Diospyros humilis (11%), Grewia australis (11%), Gymnanthera indet. (11%), Lantana camara\* (11%), Macrozamia indet. (11%), Neoroepora buxifolia (11%), Parsonsia indet. (11%), Petalostigma triloculare (11%), Pittosporum spinescens (11%), Planchonia careya (11%), Psychotria daphnoides (11%), Psychotria daphnoides var. angustifolia (11%), Trema tomentosa var. aspera (11%), Xanthorrhoea johnsonii (11%)*

**Stratum: Shrub 2**

Height avg. = 1.1m, range 0.7-1.5m, 3 sites

Crown cover avg. = 25.3%, range 6.0-45.0%, 3 sites

*Dominant species (relative cover, frequency): Grewia latifolia (39, 33%), Alphitonia excelsa (11, 33%), Breynia oblongifolia (2, 22%)*

*Frequent species (cover, frequency): Alphitonia excelsa (3, 33%), Grewia latifolia (15, 33%), Breynia oblongifolia (1, 22%), Coelospermum reticulatum (1, 11%), Cyclophyllum coprosmoides (1, 11%), Dodonaea lanceolata var. subsessilifolia (5, 11%), Eucalyptus fibrosa subsp. fibrosa (1, 11%), Hibiscus heterophyllus (1, 11%), Macrozamia serpentina (8, 11%), Melhania oblongifolia (1, 11%), Petalostigma pubescens (11%), Xanthorrhoea johnsonii (4, 11%)*

**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Ground**

Height avg. = 0.4m, range 0.2-0.5m, 4 sites

PFC avg. = 22.4%, range 6-60%, 5 sites

*Dominant species (relative cover, frequency): Sorghum nitidum (14, 40%), Paspalidium indet. (10, 40%), Scleria brownii (10, 80%), Panicum effusum (9, 80%), Eragrostis brownii (8, 40%)*

*Frequent species (cover, frequency): GRAMINOIDS: Cymbopogon refractus (1, 80%), Panicum effusum (1, 80%), Scleria brownii (1, 80%), Fimbristylis indet. (60%), Gahnia aspera (1, 60%), Whiteochloa indet. (60%), Aristida indet. (40%), Aristida queenslandica (40%), Arundinella nepalensis (40%), Chrysopogon fallax (40%), Dichanthium tenue (2, 40%), Eragrostis brownii (2, 40%), Eragrostis indet. (40%), Heteropogon contortus (40%), Paspalidium gausum (40%), Paspalidium indet. (1, 40%), Sorghum nitidum (4, 40%), Alloteropsis semialata (20%), Aristida queenslandica var. dissimilis (5, 20%), Bothriochloa indet. (20%), Capillipedium spicigerum (20%), Digitaria indet. (2, 20%), Digitaria parviflora (20%), Enneapogon lindleyanus (1, 20%), Oplismenus aemulus (20%), Oplismenus compositus (20%), Panicum simile (20%), Paspalidium distans (20%), Poaceae indet. (20%), Scleria indet. (3, 20%), Triodia mitchellii (20%)*

*FORBS: Cyanthillium cinereum (80%), Lomandra confertifolia (80%), Brunoniella australis (60%), Goodenia sp. (Mt Castletower M.D.Crisp 2753) (60%), Phyllanthus virgatus (60%), Crotalaria montana (40%), Eustrephus latifolius (40%), Grewia latifolia (40%), Lomandra multiflora subsp. multiflora (40%), Rostellularia adscendens (1, 40%), Stachytarpheta jamaicensis\* (40%), Tricoryne anceps (40%), Acacia leptostachya (20%), Bidens bipinnata\* (20%), Breynia oblongifolia (20%), Brunoniella acaulis (20%), Capparis canescens (20%), Capparis thozetiana (20%), Corchorus trilocularis (20%), Dianella rara (20%), Dianella revoluta (20%), Dodonaea triquetra (20%), Eucalyptus fibrosa subsp. fibrosa (1, 20%), Euphorbia indet. (20%), Euphorbia maculata\* (20%), Evolvulus alsinoides (20%), Flemingia parviflora (20%), Galactia muelleri (1, 20%), Galactia tenuiflora (20%), Glossocarya indet. (20%), Glycine tabacina (20%), Goodenia rotundifolia (20%), Hardenbergia violacea (20%), Indigofera linifolia (2, 20%), Lomandra longifolia (7, 20%), Oxalis perennans (20%), Passiflora suberosa\* (20%), Polygala triflora (20%), Psychotria daphnoides (20%), Pterocaulon indet. (20%), Rostellularia indet. (20%), Ruellia indet. (20%), Ruellia tuberosa\* (20%), Scaevola indet. (20%), Sida hackettiana (20%), Solanum ellipticum (20%), Spermaceae brachystema (20%), Stackhousia tryonii (20%), Tephrosia filipes (20%), Vittadinia indet. (20%)*

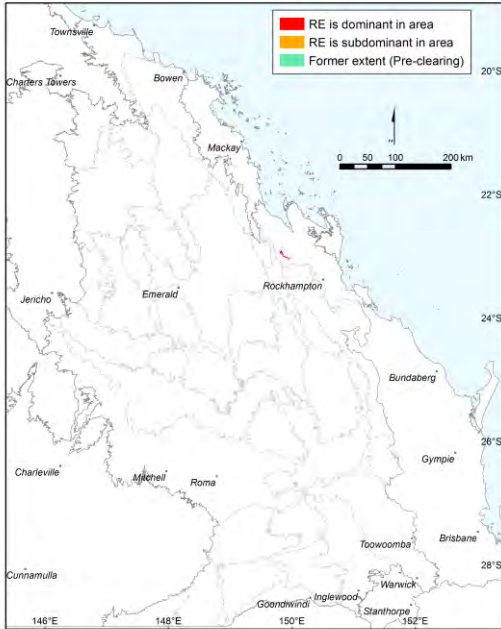
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Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Eucalyptus fibrosa subsp. fibrosa +/- Corymbia spp. tall woodland with rainforest elements in the understory on laterised serpentinite**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 5,874 5,174 88%

Species\_recorded: Total: 166; woody: 73; ground: 108; Avg. spp./site: 38.7; std dev.: 9.6, 6 site(s)

Basal area: Avg./site: 20.7 m<sup>2</sup>/ha, range: 12.0 - 26 m<sup>2</sup>/ha, std. deviation: 4 m<sup>2</sup>/ha, 8 site(s)

Structural formation: Woodland: 38%; tall woodland: 38%; open-woodland: 25%, 8 site(s)

Representative\_sites 17638, 17639, 17640, 17666, 41056, 41097, 41118, 41355.

**Stratum: Tree 1**

Height avg. = 25.5m, range 14.5-35m, 8 sites

Crown cover avg. = 29.3%, range 11.8-52.0%, 8 sites

Dominant species (relative cover, frequency): *Eucalyptus fibrosa subsp. fibrosa* (73, 88%), *Corymbia citriodora* (47, 50%)

Frequent species (cover, frequency): *Eucalyptus fibrosa subsp. fibrosa* (23, 88%), *Corymbia citriodora* (14, 50%), *Corymbia erythrophloia* (1, 13%), *Eucalyptus crebra* (12, 13%)

**Stratum: Tree 2**

Height avg. = 10.1m, range 5-18m, 8 sites

Crown cover avg. = 16.3%, range 1.0-66.2%, 8 sites

Dominant species (relative cover, frequency): *Drypetes deplanchei* (52, 25%), *Acacia disparrima subsp. disparrima* (50, 25%), *Corymbia erythrophloia* (50, 25%), *Corymbia citriodora* (33, 25%), *Eucalyptus fibrosa subsp. fibrosa* (28, 50%)

Frequent species (cover, frequency): *Alphitonia excelsa* (3, 50%), *Eucalyptus fibrosa subsp. fibrosa* (2, 50%), *Acacia disparrima subsp. disparrima* (25%), *Acacia julifera* (3, 25%), *Corymbia citriodora* (2, 25%), *Corymbia erythrophloia* (4, 25%), *Diospyros geminata* (3, 25%), *Drypetes deplanchei* (14, 25%), *Psydrax odorata* (1, 25%), *Acacia aulacocarpa* (3, 13%), *Alchornea ilicifolia* (13%), *Alectryon connatus* (13%), *Alyxia spicata* (13%), *Corymbia xanthope* (1, 13%), *Cupaniopsis anacardioides* (13%), *Denhamia disperma* (13%), *Diospyros humilis* (3, 13%), *Erythroxylum sp. (Splityard Creek L. Pedley 5360)* (3, 13%), *Eucalyptus acmenoides* (13%), *Euroschinus falcatus* (13%), *Exocarpos latifolius* (13%), *Geijera parviflora* (13%), *Jagera pseudorhus* (1, 13%), *Mallotus philippensis* (13%), *Petalostigma pubescens* (13%), *Petalostigma triloculare* (2, 13%), *Pittosporum spinescens* (5, 13%), *Polyscias elegans* (13%), *Turraea pubescens* (1, 13%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Tree 3**

Height avg. = 5.0m, 1 site

Crown cover avg. = 3.0%, 1 site

*Frequent species (cover, frequency): Acacia falcata (1, 13%), Acacia leiocalyx subsp. leiocalyx (1, 13%), Eucalyptus fibrosa subsp. fibrosa (1, 13%)*

**Stratum: Shrub 1**

Height avg. = 1.6m, range 1.2-2.5m, 8 sites

Crown cover avg. = 23.5%, range 5.0-45.0%, 8 sites

*Dominant species (relative cover, frequency): Jasminum simplicifolium subsp. australiense (40, 25%), Alphitonia excelsa (27, 63%), Acacia leiocalyx subsp. leiocalyx (20, 25%), Coelospermum reticulatum (11, 25%), Eucalyptus fibrosa subsp. fibrosa (10, 25%)*

*Frequent species (cover, frequency): Alphitonia excelsa (2, 63%), Psychotria daphnoides var. angustifolia (50%), Diospyros humilis (1, 38%), Grewia latifolia (1, 38%), Pittosporum spinescens (1, 38%), Acacia leiocalyx subsp. leiocalyx (1, 25%), Alectryon diversifolius (25%), Alyxia spicata (25%), Breynia oblongifolia (25%), Coelospermum reticulatum (1, 25%), Eucalyptus fibrosa subsp. fibrosa (1, 25%), Jasminum simplicifolium subsp. australiense (8, 25%), Pimelea leptospermoides (25%), Psydrax odorata (25%), Acacia fasciculifera (3, 13%), Acacia julifera (2, 13%), Acacia julifera subsp. julifera (13%), Acacia leptostachya (25, 13%), Alectryon connatus (13%), Amyema conspicua subsp. conspicua (13%), Cajanus confertiflorus (13%), Capparis thozetiana (13%), Carissa ovata (1, 13%), Cassytha indet. (1, 13%), Claoxylon tenerifolium subsp. tenerifolium (13%), Corymbia xanthope (13%), Diospyros geminata (13%), Dodonaea triquetra (5, 13%), Drypetes deplanchei (1, 13%), Erythroxylum sp. (Splityard Creek L.Pedley 5360) (13%), Eucalyptus crebra (13%), Exocarpos latifolius (13%), Ficus opposita (13%), Gymnanthera indet. (13%), Hibiscus divaricatus (1, 13%), Lantana camara\* (1, 13%), Lissanthe brevistyla (13%), Maclura cochinchinensis (13%), Macrozamia miquelii (13%), Macrozamia serpentina (15, 13%), Marsdenia brevifolia (13%), Monotoca scoparia (13%), Murraya ovatifoliolata (13%), Notelaea microcarpa (13%), Pandorea pandorana (13%), Pavetta granitica (13%), Petalostigma triloculare (1, 13%), Secamone elliptica (13%), Sida cordifolia\* (13%), Sida sp. (Musselbrook M.B.Thomas+ MRS437) (13%), Tephrosia indet. (13%), Trophis scandens subsp. scandens (13%), Xanthorrhoea johnsonii (15, 13%), Zanthoxylum brachyacanthum (13%)*

**Stratum: Shrub 2**

Height avg. = 0.9m, range 0.6-1.1m, 3 sites

Crown cover avg. = 4.7%, range 4.0-5.0%, 3 sites

*Dominant species (relative cover, frequency): Coelospermum reticulatum (10, 25%)*

*Frequent species (cover, frequency): Gahnia aspera (13%), Coelospermum reticulatum (1, 25%), Acacia fasciculifera (2, 13%), Alyxia ruscifolia (3, 13%), Eucalyptus fibrosa subsp. fibrosa (2, 13%), Grewia latifolia (4, 13%), Macrozamia serpentina (13%), Pimelea leptospermoides (2, 13%), Psychotria daphnoides var. angustifolia (13%), Psychotria daphnoides var. daphnoides (13%), Psydrax odorata (13%)*

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

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**Stratum: Ground**

Height avg. = 0.5m, range 0.4-0.7m, 6 sites

PFC avg. = 16.2%, range 1-25%, 6 sites

*Dominant species (relative cover, frequency): Gahnia aspera (26, 67%), Cymbopogon refractus (22, 50%), Panicum effusum (12, 50%), Scleria mackaviensis (3, 50%), Rostellularia adscendens (2, 50%)*

*Frequent species (cover, frequency): GRAMINOIDS: Gahnia aspera (3, 67%), Cymbopogon refractus (5, 50%), Panicum effusum (2, 50%), Scleria mackaviensis (1, 50%), Digitaria parviflora (1, 33%), Paspalidium gracile (33%), Scleria brownii (33%), Whiteochloa indet. (33%), Ancistrachne indet. (1, 17%), Aristida indet. (17%), Aristida latifolia (3, 17%), Aristida lignosa (3, 17%), Aristida queenslandica (17%), Arundinella nepalensis (15, 17%), Bothriochloa decipiens var. decipiens (17%), Chloris ventricosa (17%), Dichanthium tenue (5, 17%), Enneapogon lindleyanus (17%), Entolasia stricta (5, 17%), Eragrostis sororia (17%), Melinis repens\* (17%), Panicum simile (17%), Paspalidium distans (2, 17%), Paspalidium gausum (17%), Paspalidium indet. (17%), Sorghum nitidum (3, 17%), Themeda triandra (11, 17%), Triodia mitchellii (17%)*

*FORBS: Brunoniella australis (67%), Cyathium cinereum (67%), Eustrephus latifolius (67%), Galactia tenuiflora (50%), Grewia latifolia (1, 50%), Phyllanthus virgatus (50%), Rostellularia adscendens (50%), Breynia oblongifolia (33%), Passiflora suberosa\* (33%), Pterocaulon indet. (33%), Acacia fasciculifera (17%), Bidens bipinnata\* (17%), Capparis canescens (1, 17%), Carissa ovata (17%), Cayratia trifolia (17%), Cheilanthes indet. (17%), Clematis glycinoides (17%), Coelospermum reticulatum (17%), Commelina ensifolia (17%), Crotalaria mitchellii (17%), Crotalaria montana (17%), Denhamia celastroides (17%), Denhamia cunninghamii (17%), Desmodium rhytidophyllum (1, 17%), Drypetes deplanchei (17%), Euphorbia bifida (17%), Euphorbia mitchelliana (17%), Evolvulus alsinoides (17%), Ficus opposita (17%), Flemingia parviflora (17%), Glycine tomentella (17%), Goodenia grandiflora (17%), Goodenia sp. (Mt Castletower M.D.Crisp 2753) (17%), Indigofera linifolia (17%), Indigofera pratensis (17%), Jasminum simplicifolium subsp. australiense (4, 17%), Lagenophora gracilis (17%), Lomandra confertifolia (17%), Lomandra confertifolia subsp. pallida (17%), Lomandra longifolia (17%), Lomandra multiflora subsp. multiflora (17%), Marsdenia viridiflora (17%), Myrsine variabilis (17%), Neptunia gracilis (17%), Oldenlandia indet. (17%), Opercularia diphylla (4, 17%), Oxalis perennans (17%), Parsonsia straminea (17%), Peripleura hispidula var. hispidula (17%), Pimelea leptospermoides (17%), Pseuderanthemum variabile (17%), Psychotria daphnoides var. daphnoides (3, 17%), Pteridium esculentum (17%), Rhynchosia minima (17%), Scaevola indet. (17%), Secamone elliptica (17%), Senna occidentalis\* (17%), Sida hackettiana (17%), Solanum esuriale (17%), Solanum parvifolium (17%), Solanum parvifolium subsp. parvifolium (17%), Spermocoe brachystema (17%), Spermocoe multicaulis (17%), Stachytarpheta jamaicensis\* (17%), Stackhousia tryonii (17%), Tephrosia filipes (17%), Tephrosia juncea (17%), Uraria picta (17%), Vittadinia pustulata (17%), Zornia dyctiocarpa (17%)*

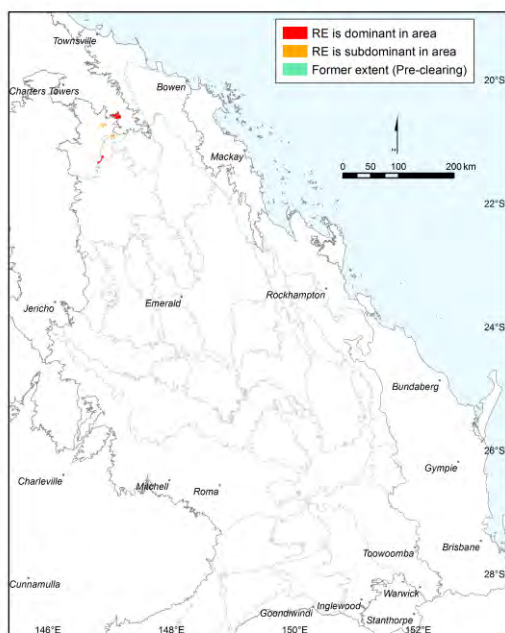
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**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Eucalyptus shirleyi woodland on deformed and metamorphosed sediments and interbedded volcanics**



**Pre-clearing area (ha), remnant area (ha) and per cent remaining:** 18,489      15,016      81%

**Species recorded:** Total: 107; woody: 20; ground: 93; Avg. spp./site: 38.4; std dev.: 8.5, 5 site(s)

**Basal area:** Avg./site: 3.5 m<sup>2</sup>/ha, range: 2.5 - 4 m<sup>2</sup>/ha, std. deviation: 1 m<sup>2</sup>/ha, 5 site(s)

**Structural formation:** Low woodland: 40%; low open-woodland: 40%; open-woodland: 20%, 5 site(s)

**Representative sites** 1999, 56174, 56195, 56214, 61374.

**Stratum: Tree 1**

**Height avg. = 6.7m, range 5-10m, 5 sites**  
**Crown cover avg. = 19.8%, range 12.0-30.0%, 5 sites**

*Dominant species (relative cover, frequency): Eucalyptus shirleyi (100, 60%), Eucalyptus sp. (Mt Hope Homestead E.J.Thompson+ BUC175) (81, 40%), Corymbia dallachiana (3, 60%)*

*Frequent species (cover, frequency): Corymbia dallachiana (1, 60%), Eucalyptus shirleyi (24, 60%), Eucalyptus sp. (Mt Hope Homestead E.J.Thompson+ BUC175) (13, 40%), Atalaya hemiglauca (1, 20%), Bursaria incana (1, 20%), Corymbia erythrophloia (3, 20%), Psyrax saligna forma saligna (20%)*

**Stratum: Tree 2**

**Height avg. = 4.0m, range 2.7-7m, 4 sites**  
**Crown cover avg. = 1.0%, range 0.0-2.0%, 4 sites**

*Dominant species (relative cover, frequency): Eucalyptus sp. (Mt Hope Homestead E.J.Thompson+ BUC175) (92, 40%), Petalostigma pubescens (42, 40%)*

*Frequent species (cover, frequency): Eucalyptus sp. (Mt Hope Homestead E.J.Thompson+ BUC175) (1, 40%), Petalostigma pubescens (40%), Acacia leptostachya (20%), Acacia sericophylla (1, 20%), Bursaria incana (20%), Terminalia aridicola subsp. chillagoensis (20%)*

**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

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## Technical Description

Regional ecosystem: 11.11.8

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### Stratum: Shrub 1

Height avg. = 1.7m, range 0.6-3m, 5 sites

Crown cover avg. = 16.6%, range 1.0-41.0%, 5 sites

Dominant species (relative cover, frequency): *Acacia umbellata* (62, 60%), *Eucalyptus* sp. (Mt Hope Homestead E.J.Thompson+ BUC175) (38, 40%), *Acacia galioides* (38, 40%), *Carissa lanceolata* (15, 60%), *Stylosanthes scabra*\* (11, 40%)

Frequent species (cover, frequency): *Acacia umbellata* (17, 60%), *Carissa lanceolata* (60%), *Acacia galioides* (10, 40%), *Eucalyptus shirleyi* (1, 40%), *Eucalyptus* sp. (Mt Hope Homestead E.J.Thompson+ BUC175) (1, 40%), *Hibiscus meraukensis* (40%), *Stylosanthes scabra*\* (3, 40%), *Acacia indet.* (20%), *Acacia sericophylla* (20%), *Bursaria incana* (20%), *Corymbia dallachiana* (20%), *Dodonaea viscosa* subsp. *burmanniana* (20%), *Indigofera pratensis* (1, 20%), *Phyllanthus carpentariae* (20%), *Psydrax saligna* forma *saligna* (20%)

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### Stratum: Shrub 2

Height avg. = 0.5m, 1 site

Crown cover avg. = 2.0%, 1 site

Frequent species (cover, frequency): *Acacia galioides* (20%), *Hibiscus meraukensis* (20%), *Stylosanthes scabra*\* (3, 20%)

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### Stratum: Ground

Height avg. = 0.5m, range 0.2-1m, 5 sites

PFC avg. = 18.2%, range 10-28%, 5 sites

Dominant species (relative cover, frequency): *Eriachne mucronata* (35, 40%), *Eriachne obtusa* (30, 60%), *Heteropogon contortus* (17, 100%), *Aristida calycina* var. *calycina* (13, 60%), *Schizachyrium perplexum* (12, 60%)

Frequent species (cover, frequency): GRAMINOIDS: *Heteropogon contortus* (4, 100%), *Mnesithea formosa* (80%), *Sarga plumosum* (1, 80%), *Aristida calycina* var. *calycina* (3, 60%), *Aristida holathera* var. *holathera* (60%), *Eriachne obtusa* (9, 60%), *Fimbristylis dichotoma* (60%), *Schizachyrium perplexum* (2, 60%), *Triodia bitextura* (60%), *Aristida jerichoensis* var. *jerichoensis* (2, 40%), *Bothriochloa pertusa*\* (40%), *Chrysopogon fallax* (40%), *Cymbopogon bombycinus* (40%), *Digitaria ammophila* (40%), *Digitaria brownii* (40%), *Digitaria gibbosa* (1, 40%), *Eriachne mucronata* (8, 40%), *Melinis repens*\* (40%), *Panicum effusum* (40%), *Perotis rara* (1, 40%), *Alloteropsis cimicina* (20%), *Alloteropsis semialata* (20%), *Aristida contorta* (20%), *Aristida queenslandica* var. *dissimilis* (3, 20%), *Bothriochloa decipiens* var. *decipiens* (5, 20%), *Bulbostylis barbata* (20%), *Cenchrus ciliaris*\* (20%), *Dactyloctenium radulans* (20%), *Enneapogon polyphyllus* (1, 20%), *Eragrostis indet.* (20%), *Eragrostis pilosa*\* (20%), *Eragrostis sororia* (20%), *Fimbristylis indet.* (20%), *Setaria surgens* (20%), *Themeda triandra* (20%), *Urochloa mosambicensis*\* (20%)

FORBS: *Chamaecrista absus* var. *absus* (80%), *Stylosanthes scabra*\* (1, 80%), *Bidens pilosa*\* (60%), *Crotalaria medicaginea* (60%), *Phyllanthus virgatus* (60%), *Spermacoce brachystema* (60%), *Waltheria indica* (60%), *Xenostegia tridentata* (60%), *Aeschynomene brevifolia* (40%), *Cheilanthes nudiuscula* (1, 40%), *Cyanthillium cinereum* (40%), *Euphorbia mitchelliana* (40%), *Euphorbia schultzii* var. *schultzii* (40%), *Glycine curvata* (40%), *Heliotropium brachygyne* (40%), *Indigofera colutea* (40%), *Ipomoea polymorpha* (40%), *Rostellularia adscendens* (40%), *Sauropus trachyspermus* (40%), *Tephrosia filipes* subsp. *filipes* (40%), *Alternanthera denticulata* var. *micrantha* (20%), *Alternanthera nana* (20%), *Atalaya hemiglauca* (20%), *Carissa lanceolata* (20%), *Chamaecrista indet.* (20%), *Cleome viscosa* (20%), *Eucalyptus* sp. (Mt Hope Homestead E.J.Thompson+ BUC175) (20%), *Euphorbia hirta*\* (20%), *Euphorbia inappendiculata* var. *queenslandica* (20%), *Evolvulus alsinoides* (20%), *Galactia tenuiflora* (20%), *Heliotropium consimile* (20%), *Heliotropium indet.* (20%), *Hibiscus meraukensis* (20%), *Indigofera hirsuta* (20%), *Indigofera pratensis* (20%), *Jacquemontia paniculata* var. *tomentosa* (20%), *Melhantha oblongifolia* (20%), *Microstachys chamaelea* (20%), *Parsonia indet.* (20%), *Peripleura hispidula* (20%), *Phyllanthus maderaspatensis* (20%), *Portulaca pilosa*\* (20%), *Rhynchosia minima* var. *minima* (20%), *Sida atherophora* (20%), *Sida hackettiana* (20%), *Sida rhombifolia*\* (20%), *Sida spinosa*\* (20%), *Sida trichopoda* (20%), *Tephrosia delestangii* (20%), *Tephrosia flagellaris* (20%), *Trema tomentosa* var. *aspera* (20%), *Tribulopsis pentandra* (20%), *Uria lagopodioides* (20%), *Urena lobata*\* (20%), *Zornia muriculata* (20%)

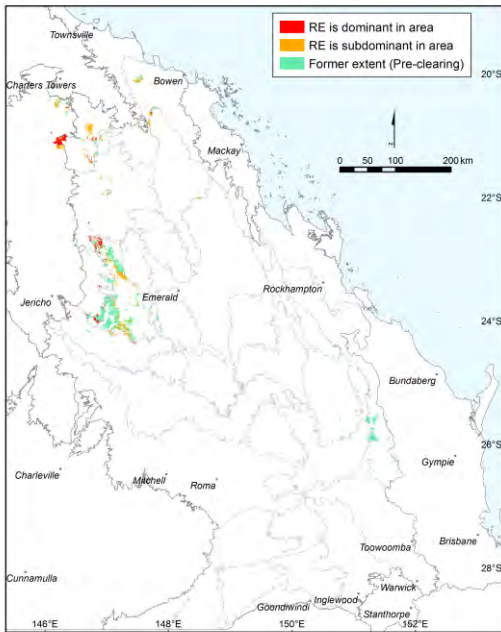
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Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Eucalyptus populnea or E. brownii woodland on deformed and metamorphosed sediments and interbedded volcanics**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 139,550 55,230 40%

Species\_recorded: Total: 73; woody: 27; ground: 46; Avg. spp./site: 25.7; std dev.: 7.4, 3 site(s)

Basal area: Avg./site: 12.5 m<sup>2</sup>/ha, range: 1.0 - 28 m<sup>2</sup>/ha, std. deviation: 11 m<sup>2</sup>/ha, 3 site(s)

Structural formation: Open-woodland: 67%; woodland: 33%, 3 site(s)

Representative\_sites 2226, 16572, 19099.

**Stratum: Tree 1**

Height avg. = 15.0m, range 10-18m, 3 sites

Crown cover avg. = 19.7%, range 5.0-35.0%, 3 sites

Dominant species (relative cover, frequency): *Eucalyptus brownii* (100, 33%), *Eucalyptus melanophloia* (71, 33%), *Eucalyptus populnea* (62, 67%), *Atalaya hemiglauca* (2, 33%), *Acacia harpophylla* (2, 33%)

Frequent species (cover, frequency): *Eucalyptus populnea* (8, 67%), *Acacia harpophylla* (33%), *Atalaya hemiglauca* (33%), *Eucalyptus brownii* (19, 33%), *Eucalyptus melanophloia* (25, 33%)

**Stratum: Tree 2**

Height avg. = 7.7m, range 6-9m, 3 sites

Crown cover avg. = 11.0%, range 5.0-22.0%, 3 sites

Dominant species (relative cover, frequency): *Acacia rhodoxylon* (100, 33%), *Lysiphyllum carronii* (62, 33%), *Eucalyptus melanophloia* (60, 33%), *Eucalyptus populnea* (40, 33%), *Alectryon oleifolius* (34, 33%)

Frequent species (cover, frequency): *Acacia excelsa* (33%), *Acacia rhodoxylon* (22, 33%), *Alectryon oleifolius* (2, 33%), *Denhamia cunninghamii* (33%), *Eucalyptus melanophloia* (3, 33%), *Eucalyptus populnea* (2, 33%), *Flindersia dissosperma* (33%), *Geijera parviflora* (33%), *Grevillea striata* (33%), *Lysiana subfalcata* (33%), *Lysiphyllum carronii* (3, 33%), *Owenia acidula* (33%), *Ventilago viminalis* (33%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Shrub 1**

Height avg. = 2.7m, range 1.5-4m, 3 sites

Crown cover avg. = 6.3%, range 1.0-9.8%, 3 sites

*Dominant species (relative cover, frequency): Eremophila mitchellii (78, 33%), Acacia rhodoxylon (71, 33%), Geijera parviflora (59, 67%), Hibiscus sturtii (7, 33%), Hibiscus krichauffianus (7, 33%)*

*Frequent species (cover, frequency): Geijera parviflora (5, 67%), Psydrax oleifolia (67%), Acacia rhodoxylon (1, 33%), Alphitonia excelsa (33%), Apophyllum anomalum (33%), Archidendropsis basaltica (33%), Capparis lasiantha (33%), Cassinia laevis (33%), Eremophila mitchellii (6, 33%), Erythroxyllum australe (33%), Grewia latifolia (33%), Hibiscus krichauffianus (33%), Hibiscus sturtii (33%), Lysiphyllum carronii (33%)*

**Stratum: Ground**

Height avg. = 0.4m, range 0.3-0.5m, 3 sites

PFC avg. = 30.7%, range 5-45%, 3 sites

*Dominant species (relative cover, frequency): Cenchrus ciliaris\* (92, 33%), Cymbopogon refractus (42, 33%), Bothriochloa decipiens var. decipiens (21, 33%), Cheilanthes indet. (18, 33%), Calotis indet. (18, 33%)*

*Frequent species (cover, frequency): GRAMINOIDS: Fimbristylis dichotoma (2, 67%), Aristida calycina (5, 33%), Aristida indet. (1, 33%), Aristida jerichoensis (33%), Aristida personata (33%), Aristida vagans (1, 33%), Bothriochloa decipiens var. decipiens (10, 33%), Cenchrus ciliaris\* (40, 33%), Chloris divaricata (1, 33%), Cymbopogon refractus (20, 33%), Cyperus gracilis (5, 33%), Enneapogon intermedius (1, 33%), Enneapogon lindleyanus (33%), Enneapogon pallidus (1, 33%), Eragrostis sororia (1, 33%), Fimbristylis macrantha (33%), Heteropogon contortus (1, 33%), Paspalidium distans (33%), Sporobolus caroli (1, 33%)*

*FORBS: Acacia oswaldii (33%), Achyranthes aspera (33%), Bonamia media (1, 33%), Calotis indet. (1, 33%), Carissa ovata (1, 33%), Cheilanthes indet. (1, 33%), Denhamia oleaster (33%), Desmodium varians (33%), Dianella caerulea (33%), Einadia hastata (33%), Enchylaena tomentosa (1, 33%), Evolvulus alsinoides (33%), Indigofera indet. (33%), Jasminum didymum (33%), Marsdenia viridiflora (33%), Opuntia stricta\* (1, 33%), Opuntia tomentosa\* (33%), Parsonsia eucalyptophylla (33%), Parsonsia lanceolata (33%), Phyllanthus fuernrohrrii (33%), Phyllanthus virgatus (33%), Rostellularia adscendens (33%), Salsola australis (33%), Sida hackettiana (33%), Solanum indet. (33%), Uraria lagopodioides (33%), Zornia indet. (33%)*

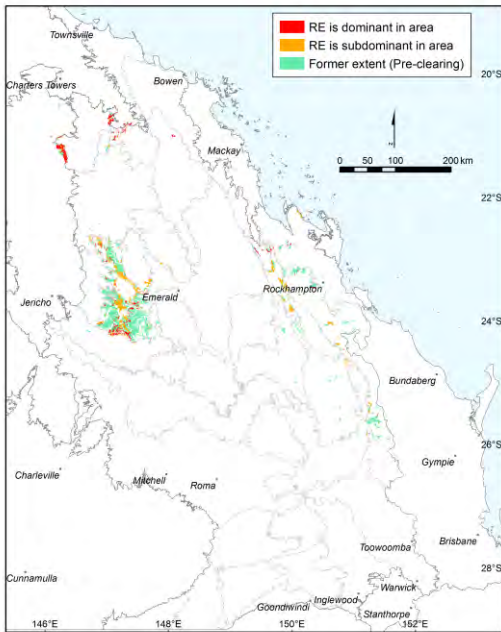
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Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Eucalyptus melanophloia woodland on deformed and metamorphosed sediments and interbedded volcanics**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 317,592 101,033 32%

Species\_recorded: Total: 112; woody: 26; ground: 95; Avg. spp./site: 33.7; std dev.: 4.5, 3 site(s)

Basal area: Avg./site: 8.1 m<sup>2</sup>/ha, range: 4.0 - 14 m<sup>2</sup>/ha, std. deviation: 3 m<sup>2</sup>/ha, 8 site(s)

Structural formation: Woodland: 75%; open-woodland: 25%, 8 site(s)

Representative\_sites 16767, 16861, 16866, 16903, 16908, 16922, 28801, 28804.

**Stratum: Tree 1**

Height avg. = 12.4m, range 10-16m, 8 sites

Crown cover avg. = 25.6%, range 10.0-40.0%, 8 sites

Dominant species (relative cover, frequency): *Eucalyptus melanophloia* (84, 100%), *Corymbia dallachiana* (10, 50%), *Corymbia erythrophloia* (8, 38%)

Frequent species (cover, frequency): *Eucalyptus melanophloia* (22, 100%), *Corymbia dallachiana* (2, 50%), *Corymbia erythrophloia* (2, 38%), *Atalaya hemiglauca* (1, 13%), *Eremophila mitchellii* (13%), *Eucalyptus populnea* (14, 13%), *Eucalyptus tereticornis* (13%)

**Stratum: Tree 2**

Height avg. = 7.0m, range 6-8m, 2 sites

Crown cover avg. = 20.0%, range 0.0-40.0%, 2 sites

Frequent species (cover, frequency): *Brachychiton populneus* (13%), *Corymbia dallachiana* (13%), *Eucalyptus melanophloia* (15, 13%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Shrub 1**

Height avg. = 2.6m, range 0.75-5m, 7 sites

Crown cover avg. = 6.9%, range 1.0-20.0%, 7 sites

Dominant species (relative cover, frequency): *Carissa ovata* (50, 25%), *Eremophila mitchellii* (46, 63%), *Eucalyptus melanophloia* (41, 38%), *Acacia excelsa* (18, 38%), *Archidendropsis basaltica* (17, 38%)

Frequent species (cover, frequency): *Eremophila mitchellii* (14, 63%), *Acacia excelsa* (38%), *Archidendropsis basaltica* (11, 38%), *Eucalyptus melanophloia* (2, 38%), *Carissa ovata* (1, 25%), *Acacia fodinalis* (6, 13%), *Acacia indet.* (13%), *Atalaya hemiglaucula* (13%), *Callitris glaucophylla* (3, 13%), *Cassia brewsteri* (13%), *Cryptandra orbicularis* (13%), *Dodonaea viscosa* (10, 13%), *Dodonaea viscosa subsp. spatulata* (13%), *Erythroxylum australe* (13%), *Erythroxylum sp.* (Splityard Creek L.Pedley 5360) (13%), *Geijera parviflora* (13%), *Grevillea striata* (13%), *Hakea lorea* (13%), *Psydrax forsteri* (13%)

**Stratum: Shrub 2**

Height avg. = 2.0m, 1 site

Crown cover avg. = 10.0%, 1 site

Frequent species (cover, frequency): *Eremophila mitchellii* (1, 13%), *Erythroxylum australe* (1, 13%), *Grewia latifolia* (1, 13%), *Myoporum acuminatum* (8, 13%)

**Stratum: Ground**

Height avg. = 1.0m, range 1-1m, 3 sites

PFC avg. = 57.7%, range 52-65%, 3 sites

Dominant species (relative cover, frequency): *Eragrostis brownii* (20, 33%), *Themeda triandra* (16, 100%), *Bothriochloa ewartiana* (13, 67%), *Aristida queenslandica var. dissimilis* (12, 100%), *Peripleura hispidula var. setosa* (11, 33%)

Frequent species (cover, frequency): GRAMINOIDS: *Aristida queenslandica var. dissimilis* (6, 100%), *Heteropogon contortus* (5, 100%), *Themeda triandra* (9, 100%), *Bothriochloa ewartiana* (7, 67%), *Cymbopogon refractus* (1, 67%), *Cyperus fulvus* (67%), *Dichanthium sericeum* (4, 67%), *Enteropogon acicularis* (4, 67%), *Eragrostis alveiformis* (1, 67%), *Eragrostis lacunaria* (4, 67%), *Eragrostis sororia* (2, 67%), *Eragrostis speciosa* (1, 67%), *Eulalia aurea* (3, 67%), *Fimbristylis dichotoma* (2, 67%), *Panicum decompositum* (2, 67%), *Aristida personata* (1, 33%), *Aristida ramosa* (1, 33%), *Bothriochloa bladhii subsp. glabra\** (33%), *Cenchrus ciliaris\** (2, 33%), *Chloris divaricata* (1, 33%), *Chloris ventricosa* (33%), *Enneapogon gracilis* (2, 33%), *Enneapogon lindleyanus* (3, 33%), *Enneapogon polyphyllus* (2, 33%), *Eragrostis brownii* (11, 33%), *Melinis repens\** (1, 33%), *Paspalidium constrictum* (1, 33%), *Sporobolus creber* (33%), *Tripogon loliiformis* (1, 33%)

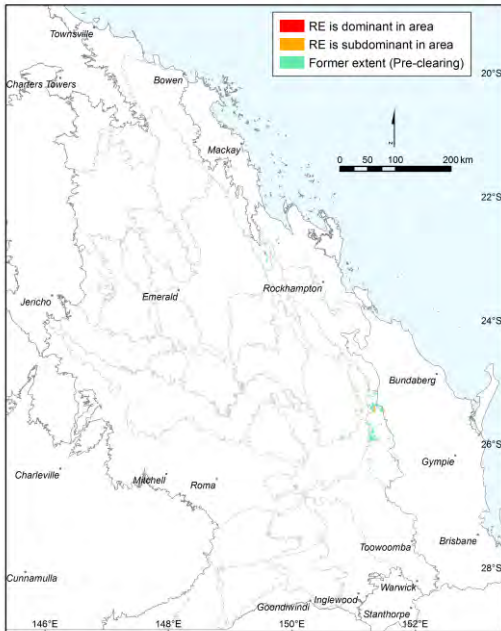
FORBS: *Brunoniella australis* (1, 67%), *Carissa ovata* (1, 67%), *Evolvulus alsinoides* (1, 67%), *Hibiscus krichauffianus* (1, 67%), *Rostellularia adscendens* (1, 67%), *Sida atherophora* (67%), *Ajuga australis* (1, 33%), *Apowollastonia spilanthoides* (33%), *Brachychiton populneus subsp. trilobus* (1, 33%), *Calotis lappulacea* (1, 33%), *Dianella revoluta* (1, 33%), *Eremophila debilis* (1, 33%), *Euphorbia drummondii* (1, 33%), *Galactia tenuiflora* (33%), *Glycine indet.* (1, 33%), *Glycine tabacina* (1, 33%), *Hibiscus sturtii var. grandiflorus* (1, 33%), *Jasminum didymum* (1, 33%), *Marsdenia viridiflora* (1, 33%), *Melhania oblongifolia* (1, 33%), *Opercularia diphylla* (1, 33%), *Opuntia tomentosa\** (1, 33%), *Peripleura hispidula var. setosa* (6, 33%), *Phyllanthus virgatus* (1, 33%), *Pterocaulon redolens* (1, 33%), *Sclerolaena convexula* (1, 33%), *Sida hackettiana* (33%), *Sida sp.* (Musselbrook M.B.Thomas+ MRS437) (1, 33%), *Spermacoce indet.* (2, 33%), *Wahlenbergia gracilis* (33%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Eucalyptus moluccana woodland on lower slopes**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 18,162 1,941 11%

Species\_recorded: Total: 26; woody: 5; ground: 22; Avg. spp./site: 26.0; std dev.: 0.0, 1 site(s)

Basal area: Avg./site: 7.0 m<sup>2</sup>/ha, range: 7.0 - 7 m<sup>2</sup>/ha, std. deviation: 0 m<sup>2</sup>/ha, 1 site(s)

Structural formation: Open-woodland: 100%, 1 site(s)

Representative\_sites 19266.

**Stratum: Tree 1**

Height avg. = 11.0m, 1 site

Crown cover avg. = 14.0%, 1 site

Dominant species (relative cover, frequency): *Eucalyptus moluccana* (99, 100%), *Corymbia dallachiana* (1, 100%)

Frequent species (cover, frequency): *Corymbia dallachiana* (100%), *Eucalyptus moluccana* (14, 100%)

**Stratum: Shrub 1**

Height avg. = 1.5m, 1 site

Crown cover avg. = 4.0%, 1 site

Dominant species (relative cover, frequency): *Eucalyptus moluccana* (71, 100%), *Sida indet.* (24, 100%), *Opuntia tomentosa*\* (2, 100%), *Grewia retusifolia* (2, 100%)

Frequent species (cover, frequency): *Eucalyptus moluccana* (3, 100%), *Grewia retusifolia* (100%), *Opuntia tomentosa*\* (100%), *Sida indet.* (1, 100%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Ground**

Height avg. = 0.5m, 1 site

PFC avg. = 80.0%, 1 site

*Dominant species (relative cover, frequency): Heteropogon contortus (26, 100%), Bothriochloa bladhii (26, 100%), Bothriochloa decipiens var. decipiens (7, 100%), Bothriochloa ewartiana (7, 100%), Dinebra decipiens (7, 100%)*

*Frequent species (cover, frequency): GRAMINOIDS: Bothriochloa bladhii (20, 100%), Bothriochloa decipiens var. decipiens (5, 100%), Bothriochloa ewartiana (5, 100%), Chloris divaricata (100%), Cymbopogon refractus (100%), Cyperus fulvus (100%), Dinebra decipiens (5, 100%), Eragrostis sororia (100%), Eriochloa indet. (100%), Eulalia aurea (5, 100%), Heteropogon contortus (20, 100%), Holcolemma dispar (5, 100%), Panicum effusum (100%), Sporobolus creber (100%)  
FORBS: Eremophila debilis (5, 100%), Lantana camara\* (100%), Phyllanthus virgatus (100%), Portulaca pilosa\* (100%), Rhynchosia minima (100%), Ruellia tuberosa\* (100%), Sida indet. (5, 100%), Zornia indet. (100%)*

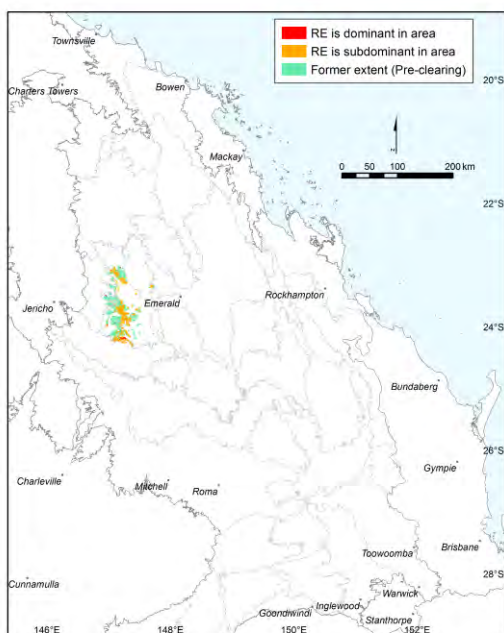
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Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Eucalyptus orgadophila woodland on deformed and metamorphosed sediments and interbedded volcanics**



**Pre-clearing area (ha), remnant area (ha) and per cent remaining:** 48,413      15,439      32%

**Species\_recorded:** Total: 108; woody: 39; ground: 74; Avg. spp./site: 33.4; std dev.: 10.7, 5 site(s)

**Basal area:** Avg./site: 7.0 m<sup>2</sup>/ha, range: 5.0 - 12 m<sup>2</sup>/ha, std. deviation: 2 m<sup>2</sup>/ha, 6 site(s)

**Structural formation:** Woodland: 67%; open-woodland: 17%; open-forest: 17%, 6 site(s)

**Representative\_sites** 16771, 16772, 16874, 16878, 16886, 16906.

**Stratum: Tree 1**

**Height avg. = 13.0m, range 10-20m, 6 sites**

**Crown cover avg. = 25.7%, range 10.0-48.0%, 6 sites**

*Dominant species (relative cover, frequency): Eucalyptus orgadophila (80, 100%), Eucalyptus melanophloia (29, 33%)*

*Frequent species (cover, frequency): Eucalyptus orgadophila (16, 100%), Eucalyptus melanophloia (3, 33%), Acacia excelsa (2, 17%), Archidendropsis basaltica (17%), Corymbia dallachiana (2, 17%), Corymbia erythrophloia (1, 17%), Eucalyptus crebra x E. populnea (2, 17%)*

**Stratum: Tree 2**

**Height avg. = 8.0m, range 5-16m, 6 sites**

**Crown cover avg. = 8.7%, range 2.0-20.0%, 6 sites**

*Dominant species (relative cover, frequency): Eucalyptus orgadophila (49, 67%), Eucalyptus melanophloia (26, 33%)*

*Frequent species (cover, frequency): Eucalyptus orgadophila (2, 67%), Eucalyptus melanophloia (3, 33%), Acacia excelsa (17%), Acacia harpophylla (16, 17%), Archidendropsis basaltica (17%), Brachychiton rupestris (17%), Eremophila mitchellii (17%), Lysiphylum carronii (4, 17%), Pandorea pandorana (17%)*

**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus



**Stratum: Shrub 1**

Height avg. = 3.0m, range 2-5m, 6 sites

Crown cover avg. = 16.2%, range 2.0-40.0%, 6 sites

Dominant species (relative cover, frequency): *Archidendropsis basaltica* (55, 67%), *Hovea longipes* (30, 33%), *Carissa ovata* (17, 33%), *Grewia latifolia* (5, 33%), *Erythroxylum australe* (5, 50%)

Frequent species (cover, frequency): *Archidendropsis basaltica* (6, 67%), *Erythroxylum australe* (1, 50%), *Geijera parviflora* (50%), *Atalaya hemiglaucula* (33%), *Carissa ovata* (6, 33%), *Grewia latifolia* (2, 33%), *Hovea longipes* (12, 33%), *Psyrax odorata* (33%), *Acacia conferta* (17%), *Acacia decora* (17%), *Acacia excelsa* (17%), *Acacia harpophylla* (17%), *Alectryon diversifolius* (17%), *Alectryon oleifolius* (1, 17%), *Alectryon oleifolius subsp. elongatus* (1, 17%), *Alstonia constricta* (17%), *Breytia oblongifolia* (17%), *Bridelia leichhardtii* (17%), *Callitris glaucophylla* (18, 17%), *Cassinia laevis* (17%), *Denhamia bilocularis* (17%), *Ehretia membranifolia* (17%), *Eremophila deserti* (17%), *Eremophila mitchellii* (4, 17%), *Eucalyptus orgadophila* (1, 17%), *Eucalyptus populnea* (17%), *Indigofera brevidens* (17%), *Notelaea microcarpa* (17%), *Psyrax indet.* (1, 17%), *Santalum lanceolatum* (17%), *Senna coronilloides* (17%)

**Stratum: Shrub 2**

Height avg. = 2.0m, 1 site

Crown cover avg. = 25.0%, range 20.0-30.0%, 2 sites

Dominant species (relative cover, frequency): *Eremophila mitchellii* (50, 33%)

Frequent species (cover, frequency): *Eremophila mitchellii* (33%), *Acacia harpophylla* (1, 17%), *Carissa ovata* (10, 17%), *Dodonaea viscosa subsp. spatulata* (2, 17%), *Eremophila deserti* (17%), *Erythroxylum australe* (17%), *Indigofera brevidens* (17%), *Lysiphillum carronii* (17%), *Santalum lanceolatum* (17%)

**Stratum: Ground**

Height avg. = 0.9m, range 0.5-1m, 5 sites

PFC avg. = 52.0%, range 20-80%, 5 sites

Dominant species (relative cover, frequency): *Dichanthium sericeum subsp. sericeum* (27, 60%), *Bothriochloa ewartiana* (25, 40%), *Cenchrus ciliaris\** (23, 80%), *Themeda triandra* (10, 100%), *Carissa ovata* (6, 60%)

Frequent species (cover, frequency): GRAMINOIDS: *Heteropogon contortus* (3, 100%), *Themeda triandra* (7, 100%), *Cenchrus ciliaris\** (8, 80%), *Dichanthium sericeum subsp. sericeum* (13, 60%), *Enneapogon gracilis* (1, 60%), *Aristida personata* (1, 40%), *Bothriochloa ewartiana* (18, 40%), *Chrysopogon fallax* (40%), *Fimbristylis bisumbellata* (40%), *Panicum effusum* (40%), *Sporobolus caroli* (40%), *Tripogon loliiformis* (1, 40%), *Aristida calycina var. calycina* (20%), *Aristida latifolia* (20%), *Aristida leptopoda* (20%), *Aristida queenslandica var. dissimilis* (20%), *Aristida queenslandica var. queenslandica* (1, 20%), *Aristida schultzei* (6, 20%), *Bothriochloa bladhii subsp. glabra\** (6, 20%), *Chloris ventricosa* (1, 20%), *Cymbopogon refractus* (2, 20%), *Cyperus fulvus* (20%), *Dinebra decipiens var. decipiens* (20%), *Enneapogon avenaceus* (10, 20%), *Enneapogon lindleyanus* (8, 20%), *Enteropogon ramosus* (20%), *Eragrostis alveiformis* (2, 20%), *Eragrostis brownii* (20%), *Eragrostis elongata* (20%), *Eragrostis leptostachya* (20%), *Eragrostis megalosperma* (3, 20%), *Eriochloa pseudoacrotricha* (20%), *Melinis repens\** (1, 20%), *Paspalidium gracile* (20%), *Tragus australianus* (1, 20%), *Triraphis mollis* (20%)

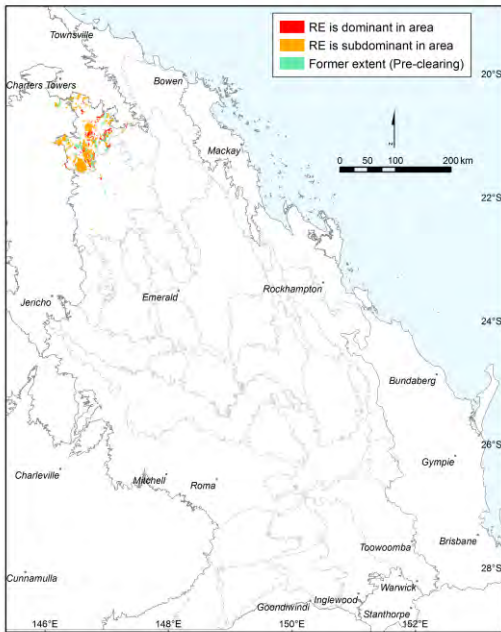
FORBS: *Carissa ovata* (4, 60%), *Galactia tenuiflora* (60%), *Jasminum didymum subsp. racemosum* (3, 60%), *Melhania oblongifolia* (1, 60%), *Peripleura hispidula var. setosa* (60%), *Grewia latifolia* (40%), *Malvastrum americanum var. americanum\** (40%), *Parsonia lanceolata* (40%), *Spermacoce indet.* (40%), *Abutilon fraseri* (20%), *Abutilon oxycarpum* (20%), *Achyranthes aspera* (1, 20%), *Brachychiton rupestris* (20%), *Brunoniella australis* (20%), *Capparis lasiantha* (20%), *Cheilanthes distans* (20%), *Cynanchum viminalis subsp. brunonianum* (20%), *Einadia nutans subsp. nutans* (20%), *Enchylaena tomentosa* (20%), *Eremophila mitchellii* (20%), *Euphorbia dallachyana* (20%), *Indigofera linifolia* (20%), *Jasminum simplicifolium subsp. australiense* (20%), *Lomandra multiflora subsp. multiflora* (20%), *Nyssanthes erecta* (1, 20%), *Opuntia stricta\** (20%), *Petalostigma pubescens* (20%), *Phyllanthus indet.* (20%), *Rostellularia indet.* (20%), *Salsola australis* (20%), *Sclerolaena birchii* (20%), *Sida rohlenae* (1, 20%), *Solanum parvifolium* (20%), *Spermacoce brachystema* (20%), *Tephrosia filipes* (20%), *Zornia muriculata subsp. angustata* (20%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Eucalyptus persists low woodland on deformed and metamorphosed sediments and interbedded volcanics**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 76,263 59,968 79%

Species\_recorded: Total: 96; woody: 22; ground: 77; Avg. spp./site: 40.0; std dev.: 5.1, 3 site(s)

Basal area: Avg./site: 4.0 m<sup>2</sup>/ha, range: 2.8 - 6 m<sup>2</sup>/ha, std. deviation: 1 m<sup>2</sup>/ha, 3 site(s)

Structural formation: Open-woodland: 50%; woodland: 25%; tall open-shrubland: 25%, 4 site(s)

Representative\_sites 1903, 1995, 1997, 1998.

**Stratum: Tree 1**

Height avg. = 14.0m, range 10-16m, 3 sites

Crown cover avg. = 18.3%, range 10.0-30.0%, 3 sites

Dominant species (relative cover, frequency): *Eucalyptus persistens* (100, 75%)

Frequent species (cover, frequency): *Eucalyptus persistens* (18, 75%)

**Stratum: Tree 2**

Height avg. = 6.5m, range 6-7m, 2 sites

Crown cover avg. = 1.0%, range 0.0-2.0%, 2 sites

Dominant species (relative cover, frequency): *Eremophila mitchellii* (60, 50%), *Eucalyptus persistens* (32, 50%), *Flindersia dissosperma* (17, 25%)

Frequent species (cover, frequency): *Eremophila mitchellii* (1, 50%), *Eucalyptus persistens* (50%), *Flindersia dissosperma* (25%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Shrub 1**

Height avg. = 2.8m, range 1-5m, 4 sites

Crown cover avg. = 2.0%, range 0.0-4.0%, 2 sites

Dominant species (relative cover, frequency): *Erythroxylum australe* (50, 25%), *Eucalyptus persistens* (49, 75%), *Carissa lanceolata* (45, 25%), *Eremophila mitchellii* (39, 50%), *Alphitonia excelsa* (33, 25%)

Frequent species (cover, frequency): *Eucalyptus persistens* (1, 75%), *Eremophila mitchellii* (50%), *Acacia holosericea* (25%), *Acacia ixiophylla* (25%), *Acacia oswaldii* (25%), *Alphitonia excelsa* (25%), *Atalaya hemiglaucula* (25%), *Carissa lanceolata* (1, 25%), *Erythroxylum australe* (25%), *Pittosporum angustifolium* (25%)

**Stratum: Shrub 2**

Height avg. = 1.4m, range 0.7-2m, 2 sites

Crown cover avg. = 8.5%, range 2.0-15.0%, 2 sites

Dominant species (relative cover, frequency): *Eremophila latrobei* (42, 25%), *Carissa ovata* (12, 25%), *Alphitonia excelsa* (12, 25%), *Erythroxylum australe* (9, 25%), *Santalum lanceolatum* (6, 25%)

Frequent species (cover, frequency): *Acalypha eremorum* (1, 25%), *Alectryon diversifolius* (25%), *Alphitonia excelsa* (2, 25%), *Atalaya hemiglaucula* (25%), *Capparis canescens* (25%), *Carissa ovata* (2, 25%), *Ehretia membranifolia* (1, 25%), *Eremophila latrobei* (7, 25%), *Erythroxylum australe* (2, 25%), *Flueggea leucopyrus* (25%), *Hibiscus sp. (Emerald S.L. Everist 2124)* (25%), *Lysiphyllum carronii* (1, 25%), *Santalum lanceolatum* (1, 25%), *Terminalia aridicola* (1, 25%)

**Stratum: Ground**

Height avg. = 0.4m, range 0.3-0.4m, 3 sites

PFC avg. = 6.7%, range 5-10%, 3 sites

Dominant species (relative cover, frequency): *Ancistrachne uncinulata* (75, 33%), *Triodia longiceps* (63, 33%), *Aristida benthamii* var. *spinulifera* (39, 33%), *Enteropogon acicularis* (24, 33%), *Eriachne mucronata* (5, 67%)

Frequent species (cover, frequency): GRAMINOIDS: *Aristida calycina* var. *calycina* (100%), *Digitaria brownii* (100%), *Paspalidium gracile* (100%), *Astrebla squarrosa* (67%), *Chrysopogon fallax* (67%), *Eragrostis lacunaria* (67%), *Eriachne mucronata* (1, 67%), *Fimbristylis dichotoma* (67%), *Sporobolus actinocladius* (67%), *Sporobolus australasicus* (67%), *Sporobolus scabridus* (67%), *Triodia pungens* (67%), *Tripogon loliiformis* (67%), *Ancistrachne uncinulata* (9, 33%), *Aristida benthamii* var. *spinulifera* (5, 33%), *Aristida caput-medusae* (33%), *Aristida holathera* var. *holathera* (33%), *Aristida jerichoensis* var. *subspinulifera* (33%), *Aristida latifolia* (33%), *Bothriochloa decipiens* var. *cloncurrrensensis* (33%), *Bothriochloa ewartiana* (33%), *Cenchrus ciliaris*\* (33%), *Cymbopogon refractus* (33%), *Dactyloctenium radulans* (33%), *Enneapogon lindleyanus* (33%), *Enneapogon polyphyllus* (33%), *Enteropogon acicularis* (3, 33%), *Eragrostis megalosperma* (33%), *Eriochloa pseudoacrotricha* (33%), *Heteropogon contortus* (33%), *Oxychloris scariosa* (33%), *Panicum decompositum* (33%), *Paspalidium caespitosum* (33%), *Sporobolus coromandelianus*\* (33%), *Triodia longiceps* (5, 33%)

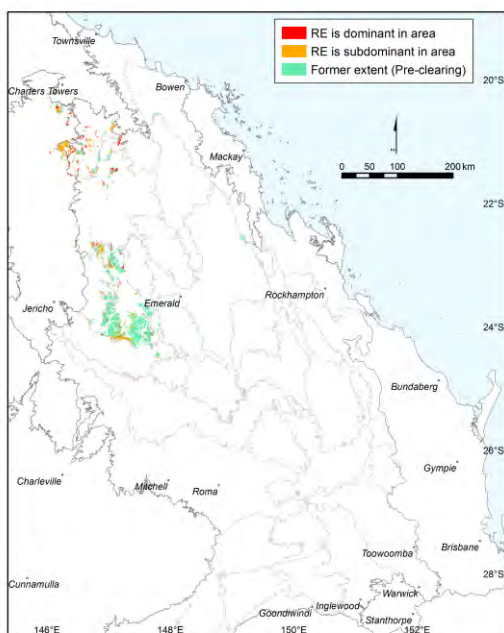
FORBS: *Abutilon fraseri* (67%), *Brunoniella australis* (67%), *Evolvulus alsinoides* (67%), *Hovea lanceolata* (67%), *Jasminum didymum* subsp. *didymum* (67%), *Maireana villosa* (67%), *Salsola australis* (67%), *Sida* sp. (*Charters Towers E.J.Thompson+CHA456*) (67%), *Solanum ellipticum* (67%), *Abutilon oxycarpum* (33%), *Alternanthera denticulata* var. *micrantha* (33%), *Apophyllum anomalum* (33%), *Bonamia media* (33%), *Capparis lasiantha* (33%), *Carissa lanceolata* (33%), *Denhamia cunninghamii* (33%), *Enchylaena tomentosa* (33%), *Galactia tenuiflora* (33%), *Geijera salicifolia* (33%), *Gossypium australe* (33%), *Grewia retusifolia* (33%), *Hibiscus sturtii* (33%), *Malvastrum americanum* var. *americanum*\* (33%), *Melhania oblongifolia* (33%), *Neptunia dimorphantha* (33%), *Oldenlandia mitrasacmoides* (33%), *Parsonsia lanceolata* (33%), *Polycarpha corymbosa* (33%), *Pseuderanthemum variabile* (33%), *Pterocaulon redolens* (33%), *Ptilotus nobilis* (33%), *Rostellularia adscendens* (33%), *Sclerolaena anisacanthoides* (33%), *Sclerolaena everistiana* (33%), *Sida atherophora* (33%), *Sida fibulifera* (33%), *Stylosanthes hamata*\* (33%), *Waltheria indica* (33%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Acacia harpophylla or A. argyrodendron low open forest with a secondary tree layer of Terminalia oblongata on deformed and metamorphosed sediments and interbedded volcanics**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 237,485 56,797 24%

Species\_recorded: Total: 166; woody: 41; ground: 136; Avg. spp./site: 40.2; std dev.: 12.1, 6 site(s)

Basal area: Avg./site: 9.0 m<sup>2</sup>/ha, range: 1.3 - 14 m<sup>2</sup>/ha, std. deviation: 4 m<sup>2</sup>/ha, 6 site(s)

Structural formation: Woodland: 50%; open-woodland: 33%; open-forest: 17%, 6 site(s)

Representative\_sites 1917, 2001, 2561, 16769, 61375, 61394.

**Stratum: Emergent**

Height avg. = 18.0m, 1 site

Crown cover avg. = 5.0%, 1 site

Frequent species (cover, frequency): *Acacia argyrodendron* (2, 17%), *Eucalyptus cambageana* (3, 17%)

**Stratum: Tree 1**

Height avg. = 14.7m, range 10-18m, 6 sites

Crown cover avg. = 31.8%, range 15.0-46.0%, 6 sites

Dominant species (relative cover, frequency): *Acacia harpophylla* (99, 33%), *Acacia argyrodendron* (80, 83%)

Frequent species (cover, frequency): *Acacia argyrodendron* (25, 83%), *Acacia harpophylla* (26, 33%), *Amyema miquelii* (17%), *Amyema quandang* (17%), *Lysiphyllum carronii* (17%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Tree 2**

Height avg. = 8.2m, range 5.5-11m, 5 sites

Crown cover avg. = 4.5%, range 0.0-10.0%, 4 sites

*Dominant species (relative cover, frequency):* *Acacia argyrodendron* (47, 50%), *Terminalia oblongata subsp. oblongata* (21, 33%), *Eremophila mitchellii* (17, 50%), *Lysiphyllum carronii* (9, 33%)

*Frequent species (cover, frequency):* *Acacia argyrodendron* (1, 50%), *Eremophila mitchellii* (1, 50%), *Lysiphyllum carronii* (33%), *Terminalia oblongata subsp. oblongata* (1, 33%), *Acacia cambagei* (17%), *Acacia catenulata* (17%), *Acacia harpophylla* (5, 17%), *Dodonaea viscosa subsp. spatulata* (17%), *Eucalyptus brownii* (1, 17%), *Ventilago viminalis* (2, 17%)

**Stratum: Shrub 1**

Height avg. = 2.8m, range 1.5-5m, 6 sites

Crown cover avg. = 10.8%, range 2.0-20.0%, 5 sites

*Dominant species (relative cover, frequency):* *Eremophila mitchellii* (56, 50%), *Flueggea leucopyrus* (29, 50%), *Carissa ovata* (17, 33%), *Acacia harpophylla* (16, 33%), *Croton phebalioides* (8, 33%)

*Frequent species (cover, frequency):* *Eremophila mitchellii* (7, 50%), *Flueggea leucopyrus* (4, 50%), *Acacia harpophylla* (3, 33%), *Alectryon diversifolius* (33%), *Apophyllum anomalum* (33%), *Carissa ovata* (3, 33%), *Croton phebalioides* (1, 33%), *Cynanchum viminale subsp. brunonianum* (33%), *Flindersia dissosperma* (33%), *Geijera salicifolia* (33%), *Terminalia oblongata subsp. oblongata* (33%), *Acacia argyrodendron* (1, 17%), *Acalypha eremorum* (5, 17%), *Carissa lanceolata* (2, 17%), *Diospyros humilis* (17%), *Ehretia membranifolia* (17%), *Eremophila deserti* (17%), *Erythroxylum australe* (2, 17%), *Everistia vacciniifolia forma crassa* (17%), *Everistia vacciniifolia forma vacciniifolia* (17%), *Larsenaikia ochreatea* (17%), *Lysiphyllum carronii* (17%), *Pittosporum spinescens* (17%), *Psydrax oleifolia* (17%), *Secamone elliptica* (17%), *Senna gaudichaudii* (17%)

**Stratum: Shrub 2**

Height avg. = 1.0m, range 0.5-2m, 5 sites

Crown cover avg. = 27.4%, range 5.0-48.5%, 4 sites

*Dominant species (relative cover, frequency):* *Carissa ovata* (70, 50%), *Carissa lanceolata* (62, 33%), *Atalaya hemiglauca* (17, 33%), *Flueggea leucopyrus* (9, 33%)

*Frequent species (cover, frequency):* *Carissa ovata* (21, 50%), *Atalaya hemiglauca* (33%), *Carissa lanceolata* (3, 33%), *Flueggea leucopyrus* (1, 33%), *Acacia harpophylla* (17%), *Acalypha eremorum* (17%), *Alectryon diversifolius* (17%), *Dodonaea viscosa subsp. spatulata* (5, 17%), *Enchylaena tomentosa var. tomentosa* (1, 17%), *Eremophila mitchellii* (20, 17%), *Geijera parviflora* (1, 17%), *Grewia latifolia* (17%), *Psydrax forsteri* (1, 17%), *Psydrax johnsonii* (17%), *Scaevola spinescens* (17%)

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**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Ground**

Height avg. = 0.5m, range 0.2-1m, 6 sites

PFC avg. = 21.0%, range 5-35%, 6 sites

*Dominant species (relative cover, frequency): Paspalidium caespitosum (32, 67%), Enteropogon unispiceus (27, 33%), Ancistrachne uncinulata (24, 33%), Eriochloa pseudoacrotricha (19, 33%), Cenchrus ciliaris\* (15, 67%)*

*Frequent species (cover, frequency): GRAMINOIDS: Cenchrus ciliaris\* (3, 67%), Enteropogon acicularis (67%), Paspalidium caespitosum (6, 67%), Sporobolus actinocladius (67%), Sporobolus caroli (50%), Ancistrachne uncinulata (6, 33%), Aristida ramosa (2, 33%), Chloris pectinata (33%), Enneapogon lindleyanus (33%), Enneapogon polyphyllus (33%), Enteropogon ramosus (33%), Enteropogon unispiceus (5, 33%), Eriochloa pseudoacrotricha (5, 33%), Fimbristylis dichotoma (33%), Paspalidium gracile (33%), Sporobolus scabridus (33%), Alloteropsis cimicina (17%), Aristida calycina (1, 17%), Aristida gracilipes (17%), Aristida jerichoensis var. jerichoensis (17%), Aristida latifolia (5, 17%), Aristida personata (17%), Astrebla squarrosa (17%), Austrostipa verticillata (17%), Bothriochloa decipiens (17%), Bothriochloa decipiens var. decipiens (3, 17%), Bothriochloa ewartiana (1, 17%), Chloris virgata\* (17%), Chrysopogon fallax (17%), Cymbopogon refractus (17%), Cyperus alterniflorus (17%), Cyperus gracilis (17%), Cyperus rigidellus (17%), Dactyloctenium radulans (17%), Dichanthium sericeum (17%), Dichanthium sericeum subsp. sericeum (17%), Digitaria breviglumis (17%), Digitaria brownii (17%), Digitaria ciliaris\* (17%), Dinebra decipiens (17%), Dinebra decipiens var. decipiens (17%), Diplachne fusca\* (17%), Echinochloa colona\* (17%), Elytrophorus spicatus (17%), Enneapogon gracilis (17%), Enneapogon virens (17%), Eragrostis basedowii (17%), Eragrostis elongata (17%), Eragrostis lacunaria (17%), Eragrostis leptostachya (17%), Eragrostis sororia (17%), Eulalia aurea (17%), Fimbristylis corynocarya (1, 17%), Heteropogon contortus (17%), Iseilema macratherum (5, 17%), Oxychloris scariosa (17%), Panicum decompositum (17%), Panicum effusum (17%), Panicum laevinode (17%), Paspalidium distans (3, 17%), Sporobolus contiguus (17%), Tripogon loliiformis (17%)*

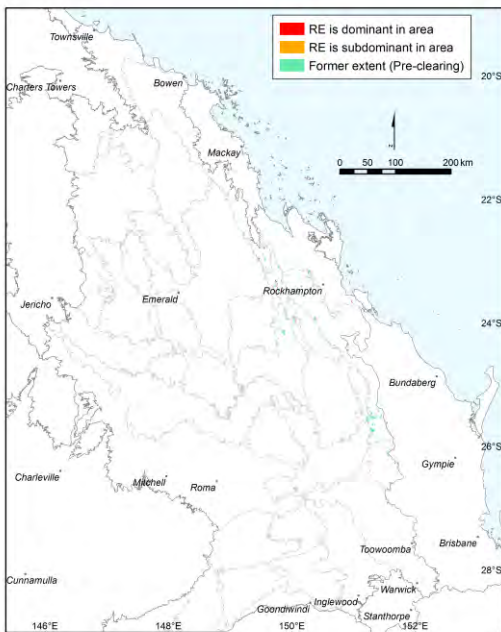
*FORBS: Atalaya hemiglauca (67%), Capparis lasiantha (67%), Abutilon oxycarpum (50%), Phyllanthus virgatus (50%), Alternanthera denticulata var. micrantha (33%), Brunoniella australis (33%), Carissa ovata (2, 33%), Cheilanthes distans (33%), Cheilanthes sieberi (33%), Enchylaena tomentosa (33%), Evolvulus alsinoides (33%), Melhania oblongifolia (33%), Parsonsia lanceolata (33%), Rhynchosia minima (33%), Sclerolaena ramulosa (33%), Trianthema triquetra (33%), Abutilon fraseri (17%), Abutilon fraseri subsp. fraseri (17%), Achyranthes aspera (17%), Aeschynomene indica (17%), Alternanthera nana (17%), Amyema quandang (17%), Boerhavia dominii (17%), Bonamia media (17%), Calotis lappulacea (17%), Carissa lanceolata (25, 17%), Crotalaria lanceolata subsp. lanceolata\* (17%), Cyanthillium cinereum (17%), Cynanchum viminalis subsp. brunonianum (17%), Dipteracanthus australasicus subsp. australasicus (17%), Ehretia membranifolia (17%), Einadia nutans subsp. linifolia (17%), Enchylaena tomentosa var. tomentosa (17%), Eremophila mitchellii (17%), Euphorbia drummondii (17%), Geijera salicifolia (17%), Grewia retusifolia (17%), Heliotropium cunninghamii (17%), Hibiscus brachysiphonius (17%), Hibiscus sturtii (17%), Jasminum didymum (17%), Jasminum didymum subsp. racemosum (17%), Maireana microphylla (1, 17%), Maireana villosa (17%), Marsdenia viridiflora (17%), Marsilea hirsuta (17%), Murdannia graminea (17%), Neptunia gracilis (17%), Phyllanthus maderaspatensis (17%), Phyllanthus similis (17%), Pluchea xanthina (17%), Polymeria ambigua (17%), Portulaca oleracea\* (17%), Portulaca oligosperma (17%), Rostellularia adscendens (17%), Salsola australis (17%), Sclerolaena anisacanthoides (17%), Sclerolaena birchii (17%), Sclerolaena lanicuspis (17%), Sida atherophora (17%), Sida fibulifera (17%), Sida rhombifolia\* (17%), Sida sp. (Charters Towers E.J.Thompson+ CHA456) (17%), Sida sp. (Musselbrook M.B.Thomas+ MRS437) (17%), Sida spinosa\* (17%), Sida trichopoda (17%), Solanum ellipticum (17%), Sphaeromorphaea indet. (17%), Streptoglossa adscendens (17%), Streptoglossa odora (17%), Stylosanthes scabra\* (17%), Terminalia oblongata subsp. oblongata (17%), Waltheria indica (17%)*

**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Acacia harpophylla open forest on deformed and metamorphosed sediments and interbedded volcanics**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 39,799 4,543 11%

Species\_recorded: Total: 49; woody: 15; ground: 34; Avg. spp./site: 26.5; std dev.: 5.5, 2 site(s)

Basal area: Avg./site: 13.0 m<sup>2</sup>/ha, range: 12.0 - 14 m<sup>2</sup>/ha, std. deviation: 1 m<sup>2</sup>/ha, 2 site(s)

Structural formation: Open-woodland: 100%, 2 site(s)

Representative\_sites 17583, 17645.

**Stratum: Emergent**

Height avg. = 19.0m, 1 site

Crown cover avg. = 5.0%, 1 site

Dominant species (relative cover, frequency): *Eucalyptus crebra* (100, 50%)

Frequent species (cover, frequency): *Eucalyptus crebra* (5, 50%)

**Stratum: Tree 1**

Height avg. = 10.5m, range 10-11m, 2 sites

Crown cover avg. = 15.0%, range 15.0-15.0%, 2 sites

Dominant species (relative cover, frequency): *Casuarina cristata* (100, 50%), *Eucalyptus melanophloia* (80, 50%), *Corymbia erythrophloia* (20, 50%)

Frequent species (cover, frequency): *Casuarina cristata* (15, 50%), *Corymbia erythrophloia* (3, 50%), *Eucalyptus melanophloia* (12, 50%)

**Stratum: Tree 2**

Height avg. = 4.5m, range 3-6m, 2 sites

Crown cover avg. = 8.5%, range 2.0-15.0%, 2 sites

Dominant species (relative cover, frequency): *Denhamia cunninghamii* (100, 50%), *Melaleuca viridiflora* (73, 50%), *Eucalyptus crebra* (13, 50%), *Casuarina cristata* (7, 50%), *Acacia aulacocarpa* (7, 50%)

Frequent species (cover, frequency): *Acacia aulacocarpa* (1, 50%), *Casuarina cristata* (1, 50%), *Denhamia cunninghamii* (2, 50%), *Eucalyptus crebra* (2, 50%), *Melaleuca viridiflora* (11, 50%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Shrub 1**

Height avg. = 1.8m, range 1.5-2m, 2 sites

Crown cover avg. = 3.5%, range 2.0-5.0%, 2 sites

*Dominant species (relative cover, frequency):* *Acacia leiocalyx* subsp. *leiocalyx* (55, 50%), *Hibiscus splendens* (50, 50%), *Denhamia cunninghamii* (50, 50%), *Petalostigma pubescens* (36, 50%), *Eremophila mitchellii* (9, 50%)

*Frequent species (cover, frequency):* *Acacia leiocalyx* subsp. *leiocalyx* (3, 50%), *Denhamia cunninghamii* (1, 50%), *Eremophila mitchellii* (1, 50%), *Hibiscus splendens* (1, 50%), *Petalostigma pubescens* (2, 50%)

**Stratum: Shrub 2**

Height avg. = 0.8m, range 0.6-1m, 2 sites

Crown cover avg. = 4.0%, range 3.0-5.0%, 2 sites

*Dominant species (relative cover, frequency):* *Grewia latifolia* (94, 50%), *Sida hackettiana* (2, 50%), *Lantana camara*\* (2, 50%), *Breynia oblongifolia* (2, 50%)

*Frequent species (cover, frequency):* *Breynia oblongifolia* (50%), *Grewia latifolia* (5, 50%), *Lantana camara*\* (50%), *Sida hackettiana* (50%)

**Stratum: Ground**

Height avg. = 0.4m, range 0.3-0.5m, 2 sites

PFC avg. = 55.0%, range 40-70%, 2 sites

*Dominant species (relative cover, frequency):* *Themeda triandra* (48, 100%), *Enneapogon lindleyanus* (28, 50%), *Aristida gracilipes* (14, 50%), *Heteropogon contortus* (11, 50%), *Aristida queenslandica* var. *dissimilis* (11, 50%)

*Frequent species (cover, frequency):* GRAMINOIDS: *Arundinella nepalensis* (1, 100%), *Panicum effusum* (1, 100%), *Themeda triandra* (28, 100%), *Aristida gracilipes* (10, 50%), *Aristida queenslandica* var. *dissimilis* (5, 50%), *Aristida ramosa* (1, 50%), *Cenchrus ciliaris*\* (50%), *Cymbopogon bombycinus* (50%), *Cyperus polystachyos* (50%), *Enneapogon lindleyanus* (20, 50%), *Eragrostis sororia* (2, 50%), *Eremochloa bimaculata* (5, 50%), *Heteropogon contortus* (8, 50%), *Melinis repens*\* (1, 50%), *Sorghum nitidum* (50%), *Tripogon loliiformis* (50%)

FORBS: *Lomandra longifolia* (1, 100%), *Alphitonia excelsa* (50%), *Brunoniella australis* (50%), *Coronidium boormanii* (1, 50%), *Desmodium brachypodum* (50%), *Dianella caerulea* (50%), *Dianella revoluta* (50%), *Eustrephus latifolius* (50%),

*Fabaceae* indet. (50%), *Glycine tabacina* (50%), *Opuntia stricta*\* (50%), *Oxalis* indet. (50%), *Peripleura hispidula* var. *hispidula* (50%), *Pomax umbellata* (4, 50%), *Rhynchosia minima* (50%), *Rostellularia adscendens* (50%), *Tephrosia filipes* (50%)

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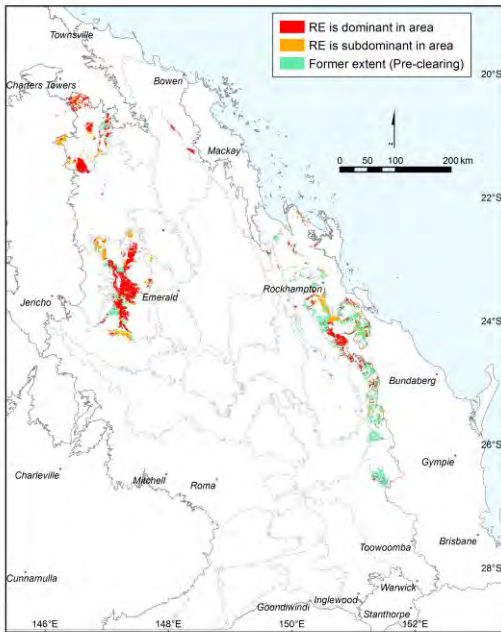
**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus



**Eucalyptus crebra woodland on deformed and metamorphosed sediments and interbedded volcanics**



Annie Kelly

**Pre-clearing area (ha), remnant area (ha) and per cent remaining:** 814,414      466,139      57%

**Species recorded:** Total: 267; woody: 65; ground: 214; Avg. spp./site: 30.0; std dev.: 9.5, 17 site(s)

**Basal area:** Avg./site: 10.6 m<sup>2</sup>/ha, range: 2.0 - 20 m<sup>2</sup>/ha, std. deviation: 6 m<sup>2</sup>/ha, 24 site(s)

**Structural formation:** Woodland: 63%; open-woodland: 33%; open-forest: 4%, 24 site(s)

**Representative sites** 14313, 14462, 14859, 16871, 16898, 16900, 16902, 17065, 17069, 17476, 17508, 17586, 17587, 17594, 17604, 17632, 19015, 19016, 19020, 19065, 40710, 40774, 40805, 41575.

**Stratum: Tree 1**

**Height avg. = 16.5m, range 10-25m, 24 sites**  
**Crown cover avg. = 24.5%, range 5.0-57.0%, 24 sites**

*Dominant species (relative cover, frequency): Eucalyptus crebra (81, 92%), Corymbia erythrophloia (30, 46%), Eucalyptus melanophloia (27, 29%)*

*Frequent species (cover, frequency): Eucalyptus crebra (19, 92%), Corymbia erythrophloia (9, 46%), Eucalyptus melanophloia (8, 29%), Corymbia dallachiana (2, 17%), Acacia fodinalis (4%), Corymbia clarksoniana (5, 4%), Corymbia tessellaris (3, 4%), Eucalyptus exserta (2, 4%), Eucalyptus platyphylla (1, 4%)*

**Stratum: Tree 2**

**Height avg. = 9.9m, range 5-16m, 19 sites**  
**Crown cover avg. = 9.1%, range 2.0-46.0%, 19 sites**

*Dominant species (relative cover, frequency): Corymbia erythrophloia (64, 38%), Eucalyptus crebra (41, 46%)*

*Frequent species (cover, frequency): Eucalyptus crebra (3, 46%), Corymbia erythrophloia (6, 38%), Corymbia dallachiana (2, 17%), Eucalyptus melanophloia (2, 17%), Alphitonia excelsa (6, 13%), Acacia fasciculifera (2, 8%), Erythrina vespertilio (8%), Acacia harpophylla (1, 4%), Acacia leiocalyx subsp. leiocalyx (5, 4%), Alstonia constricta (15, 4%), Brachychiton australis (4%), Corymbia clarksoniana (3, 4%), Corymbia tessellaris (2, 4%), Denhamia cunninghamii (4%), Eremophila mitchellii (3, 4%), Persoonia falcata (1, 4%), Pittosporaceae indet. (4%), Planchonia careya (15, 4%), Santalum lanceolatum (4%), Vachellia bidwillii (5, 4%), Vachellia nilotica\* (2, 4%)*

**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Tree 3**

Height avg. = 4.7m, range 2.5-7m, 5 sites

Crown cover avg. = 6.9%, range 1.0-13.0%, 7 sites

*Frequent species (cover, frequency):* *Acacia leiocalyx subsp. leiocalyx* (2, 17%), *Alphitonia excelsa* (2, 17%), *Corymbia erythrophloia* (2, 13%), *Eucalyptus crebra* (1, 8%), *Petalostigma pubescens* (4, 8%), *Acacia aulacocarpa* (3, 4%), *Acacia disparrima subsp. disparrima* (4, 4%), *Acacia excelsa subsp. excelsa* (4%), *Acacia fasciculifera* (2, 4%), *Acacia julifera* (1, 4%), *Denhamia oleaster* (4%), *Erythrina vespertilio* (1, 4%), *Psyrdrax oleifolia* (5, 4%), *Vachellia nilotica\** (3, 4%)

**Stratum: Shrub 1**

Height avg. = 2.2m, range 0.6-5m, 23 sites

Crown cover avg. = 4.9%, range 0.0-50.0%, 24 sites

*Dominant species (relative cover, frequency):* *Eucalyptus crebra* (17, 29%)

*Frequent species (cover, frequency):* *Eucalyptus crebra* (1, 29%), *Acacia disparrima subsp. disparrima* (1, 17%), *Alphitonia excelsa* (2, 17%), *Corymbia erythrophloia* (1, 17%), *Lantana camara\** (2, 17%), *Sida cordifolia\** (2, 17%), *Acacia fodinalis* (4, 13%), *Corymbia dallachiana* (1, 13%), *Cycas megacarpa* (1, 13%), *Indigofera pratensis* (13%), *Petalostigma pubescens* (13%), *Acacia decora* (1, 8%), *Acacia fasciculifera* (1, 8%), *Acacia leiocalyx subsp. leiocalyx* (1, 8%), *Cryptostegia grandiflora\** (1, 8%), *Planchonia careya* (8%), *Vachellia bidwillii* (1, 8%), *Acacia aulacocarpa* (4%), *Acacia implexa* (4%), *Acacia longispicata* (4%), *Acacia maidenii* (4%), *Alectryon diversifolius* (2, 4%), *Antidesma indet.* (4%), *Archidendropsis basaltica* (2, 4%), *Breynia cernua* (4%), *Bursaria incana* (1, 4%), *Cajanus reticulatus var. reticulatus* (3, 4%), *Callicarpa candicans* (4%), *Capparis canescens* (1, 4%), *Capparis indet.* (4%), *Carissa ovata* (2, 4%), *Cupaniopsis anacardioides* (1, 4%), *Cycas media* (4%), *Denhamia cunninghamii* (4%), *Dodonaea lanceolata var. subsessilifolia* (1, 4%), *Eremophila mitchellii* (1, 4%), *Erythrina vespertilio* (2, 4%), *Erythroxylum australe* (4%), *Flueggea virosa subsp. melanthesoides* (4%), *Geijera parviflora* (2, 4%), *Grewia latifolia* (4%), *Grewia retusifolia* (1, 4%), *Jasminum didymum* (4%), *Lophostemon suaveolens* (1, 4%), *Pseuderanthemum variabile* (2, 4%), *Psyrdrax saligna forma saligna* (4%), *Santalum lanceolatum* (4%)

**Stratum: Shrub 2**

Height avg. = 1.8m, range 1.5-2m, 2 sites

Crown cover avg. = 11.0%, range 3.0-15.0%, 3 sites

*Frequent species (cover, frequency):* *Acacia fodinalis* (4%), *Carissa ovata* (1, 4%), *Dodonaea lanceolata var. subsessilifolia* (4%), *Erythroxylum australe* (3, 4%), *Eucalyptus crebra* (4%), *Grewia latifolia* (1, 4%), *Lantana camara\** (2, 4%), *Macrozamia miquelii* (13, 4%), *Psyrdrax saligna forma saligna* (4%), *Sida cordifolia\** (4%), *Stylosanthes guianensis\** (15, 4%), *Xanthorrhoea johnsonii* (4%)

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**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Ground**

Height avg. = 0.7m, range 0.1-1m, 15 sites

PFC avg. = 52.9%, range 16-100%, 17 sites

Dominant species (relative cover, frequency): *Cymbopogon queenslandicus* (51, 35%), *Themeda triandra* (44, 65%), *Heteropogon contortus* (16, 76%), *Aristida queenslandica* var. *dissimilis* (14, 24%), *Melinis repens*\* (14, 35%)

Frequent species (cover, frequency): GRAMINOIDS: *Heteropogon contortus* (9, 76%), *Themeda triandra* (26, 65%), *Panicum effusum* (2, 59%), *Enneapogon lindleyanus* (41%), *Scleria brownii* (41%), *Cymbopogon queenslandicus* (24, 35%), *Melinis repens*\* (6, 35%), *Cyperus fulvus* (29%), *Abildgaardia ovata* (24%), *Aristida queenslandica* var. *dissimilis* (10, 24%), *Capillipedium spicigerum* (24%), *Heteropogon triticeus* (6, 24%), *Aristida personata* (5, 18%), *Chrysopogon fallax* (3, 18%), *Cyperus gracilis* (1, 18%), *Sporobolus caroli* (2, 18%), *Aristida* indet. (1, 12%), *Aristida ramosa* (6, 12%), *Aristida spuria* (3, 12%), *Bothriochloa ewartiana* (1, 12%), *Capillipedium parviflorum* (12%), *Dichanthium tenue* (12%), *Fimbristylis dichotoma* (12%), *Paspalidium distans* (12%), *Sarga leiocladum* (1, 12%), *Scleria mackaviensis* (12%), *Sehima nervosum* (12%), *Sorghum nitidum* (11, 12%), *Alloteropsis semialata* (6%), *Aristida acuta* (6%), *Aristida benthamii* var. *benthamii* (6%), *Aristida calycina* var. *calycina* (6%), *Aristida queenslandica* var. *queenslandica* (6%), *Arundinella nepalensis* (1, 6%), *Bothriochloa decipiens* var. *decipiens* (6%), *Cenchrus ciliaris*\* (6%), *Chloris ventricosa* (6%), *Cleistochloa subjuncea* (2, 6%), *Cymbopogon bombycinus* (1, 6%), *Cymbopogon refractus* (20, 6%), *Cyperus cyperoides* (6%), *Dichanthium fecundum* (6%), *Dichanthium sericeum* (6%), *Dichanthium sericeum* subsp. *sericeum* (6%), *Digitaria brownii* (1, 6%), *Digitaria* indet. (6%), *Enneapogon intermedius* (3, 6%), *Enneapogon polyphyllus* (1, 6%), *Eragrostis leptostachya* (6%), *Eragrostis sororia* (1, 6%), *Eragrostis spartinoides* (6%), *Eriachne mucronata* (1, 6%), *Eriochloa procera* (6%), *Eulalia aurea* (4, 6%), *Hyparrhenia rufa*\* (1, 6%), *Microlaena stipoides* var. *stipoides* (6%), *Panicum simile* (6%), *Paspalidium criniforme* (6%), *Paspalidium gracile* (6%), *Sarga plumosum* (1, 6%), *Scleria* indet. (6%), *Sporobolus elongatus* (6%), *Themeda avenacea* (6%), *Tragus australianus* (6%), *Tripogon loliiformis* (6%), *Urochloa foliosa* (6%)

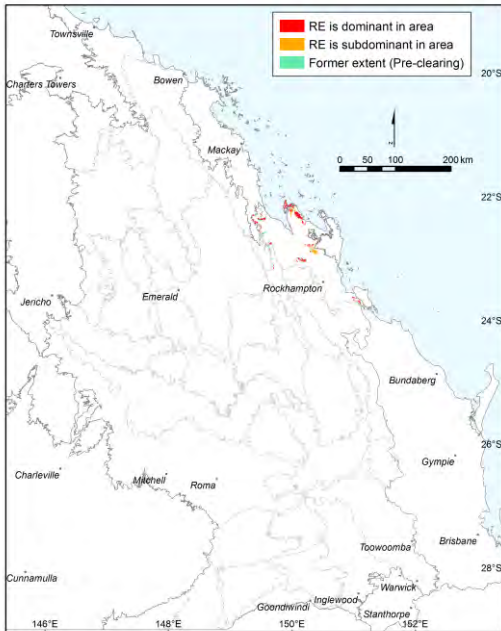
FORBS: *Eustrephus latifolius* (41%), *Rhynchosia minima* (41%), *Cyanthillium cinereum* (35%), *Glycine tomentella* (35%), *Phyllanthus virgatus* (35%), *Spermacoe brachystema* (35%), *Brunoniella australis* (29%), *Galactia tenuiflora* (29%), *Indigofera pratensis* (29%), *Rostellularia adscendens* (29%), *Desmodium rhytidophyllum* (24%), *Evolvulus alsinoides* (24%), *Lomandra longifolia* (24%), *Apowollastonia spilanthisoides* (1, 18%), *Capparis canescens* (18%), *Crotalaria montana* (18%), *Desmodium varians* (18%), *Grewia latifolia* (18%), *Grewia retusifolia* (18%), *Indigofera linifolia* (3, 18%), *Indigofera limnaii* (18%), *Pterocaulon* indet. (18%), *Tephrosia filipes* (18%), *Wahlenbergia gracilis* (18%), *Breynia oblongifolia* (2, 12%), *Cassytha filiformis* (8, 12%), *Chamaecrista nomame* (12%), *Desmodium brachypodum* (12%), *Dianella caerulea* (12%), *Dianella revoluta* (12%), *Euphorbia drummondii* (12%), *Euphorbia mitchelliana* (12%), *Flemingia parviflora* (12%), *Glycine tabacina* (12%), *Lantana montevidensis*\* (12%), *Lomandra multiflora* subsp. *multiflora* (12%), *Melhania oblongifolia* (12%), *Neptunia gracilis* (12%), *Passiflora foetida*\* (12%), *Passiflora suberosa*\* (12%), *Pterocaulon redolens* (12%), *Pycnospora lutescens* (1, 12%), *Sida rohlenae* (12%), *Stylosanthes scabra*\* (12, 12%), *Zornia dyctiocarpa* var. *dyctiocarpa* (12%), *Acacia excelsa* (6%), *Aeschynomene brevifolia* (6%), *Ajuga australis* (6%), *Alphitonia excelsa* (6%), *Alternanthera nana* (6%), *Alysicarpus bupleurifolius*\* (6%), *Aristolochia pubera* (6%), *Aristolochia thozetii* (6%), *Bidens bipinnata*\* (1, 6%), *Bidens pilosa*\* (2, 6%), *Brunoniella acaulis* (6%), *Calypocarpus* indet. (6%), *Canavalia papuana* (6%), *Chamaecrista concinna* (1, 6%), *Chamaecrista nomame* var. *nomame* (6%), *Cheilanthes distans* (6%), *Cheilanthes sieberi* (6%), *Chrysocephalum apiculatum* (6%), *Corymbia erythrophloia* (6%), *Crotalaria lanceolata* subsp. *lanceolata*\* (6%), *Cycas ophiolitica* (6%), *Cymbidium canaliculatum* (6%), *Cynanchum brevipedicellatum* (6%), *Dampiera stricta* (6%), *Denhamia cunninghamii* (6%), *Denhamia disperma* (6%), *Desmodium gangeticum* (6%), *Desmodium trichostachyum* (6%), *Dianella* indet. (6%), *Diospyros geminata* (6%), *Dodonaea lanceolata* (6%), *Emilia sonchifolia*\* (6%), *Erigeron sumatrensis*\* (6%), *Erythroxylum australe* (6%), *Eucalyptus melanophloia* (6%), *Euphorbia psammogeton* (6%), *Galactia tenuiflora* var. *lucida* (6%), *Glandularia aristigera*\* (6%), *Glycine* indet. (6%), *Gomphocarpus physocarpus*\* (6%), *Grevillea striata* (6%), *Hardenbergia violacea* (6%), *Heliotropium brachygynae* (6%), *Hibiscus heterophyllus* (6%), *Hibiscus sturtii* (6%), *Indigofera* indet. (6%), *Ipomoea plebeia* (6%), *Jasminum simplicifolium* subsp. *australiense* (6%), *Lindernia crustacea* (6%), *Lomandra confertifolia* (6%), *Lomandra* indet. (1, 6%), *Lotus australis* (6%), *Marsdenia fraseri* (6%), *Marsdenia* indet. (6%), *Medicago* indet. (6%), *Melia azedarach* (6%), *Opuntia tomentosa*\* (6%), *Oxalis corniculata*\* (6%), *Parthenium* indet. (6%), *Peripleura hispidula* (6%), *Peripleura hispidula* var. *hispidula* (6%), *Peripleura hispidula* var. *setosa* (6%), *Phyllanthus maderaspatensis* (6%), *Polycarpaea corymbosa* var. *minor* (6%), *Polygala triflora* (6%), *Polymeria calycina* (6%), *Rhynchosia minima* var. *australis* (6%), *Sauropus* indet. (6%), *Scaevola humilis* (6%), *Sida hackettiana* (6%), *Sida rhombifolia*\* (6%), *Sida spinosa*\* (6%), *Solanum* indet. (6%), *Spermacoe* indet. (6%), *Stachytarpheta jamaicensis*\* (6%), *Stylosanthes guianensis*\* (6%), *Tephrosia juncea* (6%), *Uraria picta* (6%), *Vigna lanceolata* var. *lanceolata* (6%), *Vittadinia* indet. (6%), *Xanthorrhoea johnsonii* (5, 6%), *Xanthorrhoea latifolia* subsp. *latifolia* (1, 6%), *Zinnia peruviana*\* (1, 6%), *Zornia dyctiocarpa* var. *filifolia* (6%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Eucalyptus crebra, E. exserta woodland**



Annie Kelly

**Pre-clearing area (ha), remnant area (ha) and per cent remaining:** 56,564 36,361 64%

**Species recorded:** Total: 137; woody: 36; ground: 113; Avg. spp./site: 40.4; std dev.: 21.2, 5 site(s)

**Basal area:** Avg./site: 17.9 m<sup>2</sup>/ha, range: 10.0 - 25 m<sup>2</sup>/ha, std. deviation: 5 m<sup>2</sup>/ha, 7 site(s)

**Structural formation:** Woodland: 71%; open-forest: 14%; unrecorded: 14%, 7 site(s)

**Representative sites** 17063, 17522, 17626, 17658, 59077, 59078, 59094.

**Stratum: Tree 1**

**Height avg. = 16.4m, range 12-24m, 7 sites**

**Crown cover avg. = 32.7%, range 21.0-45.0%, 7 sites**

*Dominant species (relative cover, frequency): Eucalyptus crebra (50, 100%), Eucalyptus exserta (36, 86%), Corymbia clarksoniana (22, 43%), Corymbia intermedia (17, 29%), Corymbia dallachiana (7, 43%)*

*Frequent species (cover, frequency): Eucalyptus crebra (19, 100%), Eucalyptus exserta (10, 86%), Corymbia clarksoniana (5, 43%), Corymbia dallachiana (3, 43%), Corymbia intermedia (5, 29%), Eucalyptus moluccana (1, 14%), Lophostemon suaveolens (5, 14%)*

**Stratum: Tree 2**

**Height avg. = 8.3m, range 3-15m, 6 sites**

**Crown cover avg. = 13.7%, range 5.0-25.0%, 6 sites**

*Dominant species (relative cover, frequency): Petalostigma pubescens (61, 43%), Alphitonia excelsa (47, 29%), Eucalyptus crebra (39, 29%)*

*Frequent species (cover, frequency): Petalostigma pubescens (6, 43%), Alphitonia excelsa (8, 29%), Eucalyptus crebra (3, 29%), Acacia disparrima subsp. disparrima (8, 14%), Acacia leiocalyx subsp. leiocalyx (25, 14%), Corymbia clarksoniana (2, 14%), Corymbia intermedia (2, 14%), Livistona decora (1, 14%), Lophostemon confertus (5, 14%), Melaleuca viridiflora (1, 14%), Vachellia bidwillii (1, 14%)*

**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

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**Stratum: Tree 3**

Height avg. = 4.0m, 1 site

Crown cover avg. = 15.0%, 1 site

*Frequent species (cover, frequency):* *Acacia aulacocarpa* (5, 14%), *Coelospermum reticulatum* (1, 14%), *Eucalyptus crebra* (4, 14%), *Petalostigma pubescens* (5, 14%)

**Stratum: Shrub 1**

Height avg. = 2.1m, range 1-3.5m, 7 sites

Crown cover avg. = 16.2%, range 2.0-66.2%, 7 sites

*Dominant species (relative cover, frequency):* *Acacia crassa subsp. longicoma* (48, 29%), *Acacia leiocalyx subsp. leiocalyx* (40, 29%), *Petalostigma pubescens* (29, 57%), *Lophostemon confertus* (27, 29%), *Eucalyptus crebra* (25, 43%)

*Frequent species (cover, frequency):* *Coelospermum reticulatum* (57%), *Petalostigma pubescens* (4, 57%), *Acacia disparrima subsp. disparrima* (43%), *Alphitonia excelsa* (3, 43%), *Eucalyptus crebra* (1, 43%), *Acacia crassa subsp. longicoma* (7, 29%), *Acacia leiocalyx subsp. leiocalyx* (2, 29%), *Eucalyptus exserta* (29%), *Lantana camara\** (5, 29%), *Lophostemon confertus* (11, 29%), *Trema tomentosa* (1, 29%), *Acacia decora* (1, 14%), *Acronychia laevis* (14%), *Amyema congener subsp. congener* (14%), *Cryptostegia grandiflora\** (8, 14%), *Dodonaea lanceolata var. subsessilifolia* (1, 14%), *Eucalyptus platyphylla* (1, 14%), *Grewia latifolia* (14%), *Jacksonia scoparia* (1, 14%), *Jagera pseudorhus var. pseudorhus* (14%), *Livistona decora* (3, 14%), *Lophostemon suaveolens* (2, 14%), *Psychotria daphnoides* (14%), *Psydrax attenuata var. attenuata* (14%)

**Stratum: Shrub 2**

Height avg. = 0.7m, range 0.5-0.9m, 2 sites

Crown cover avg. = 5.5%, range 1.0-10.0%, 2 sites

*Dominant species (relative cover, frequency):* *Coelospermum reticulatum* (60, 29%)

*Frequent species (cover, frequency):* *Coelospermum reticulatum* (2, 29%), *Alphitonia excelsa* (3, 14%), *Breynia oblongifolia* (14%), *Cupaniopsis anacardioides* (14%), *Dodonaea viscosa* (14%), *Jacksonia scoparia* (2, 14%), *Melaleuca viridiflora* (3, 14%), *Planchonia careya* (14%), *Tephrosia filipes* (14%)

**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Ground**

Height avg. = 0.3m, range 0.25-0.5m, 5 sites

PFC avg. = 43.2%, range 22-60%, 5 sites

*Dominant species (relative cover, frequency): Themeda triandra (64, 40%), Praxelis clematidea\* (14, 60%), Heteropogon contortus (13, 40%), Coelospermum reticulatum (10, 40%), Eragrostis sororia (9, 40%)*

*Frequent species (cover, frequency): GRAMINOIDS: Aristida queenslandica var. dissimilis (3, 60%), Cymbopogon refractus (1, 60%), Paspalidium distans (1, 60%), Bothriochloa decipiens var. decipiens (40%), Cyperus fulvus (40%), Cyperus gracilis (40%), Digitaria violascens\* (40%), Eragrostis sororia (3, 40%), Eragrostis spartinooides (2, 40%), Fimbristylis dichotoma (2, 40%), Heteropogon contortus (5, 40%), Ottochloa nodosa (40%), Panicum effusum (40%), Sporobolus creber (3, 40%), Themeda triandra (36, 40%), Alloteropsis semialata (20%), Aristida calycina (20%), Chloris divaricata var. divaricata (20%), Chrysopogon fallax (2, 20%), Dichanthium sericeum (20%), Dinebra decipiens var. decipiens (2, 20%), Eragrostis lacunaria (20%), Heteropogon triticeus (20%), Juncus usitatus (20%), Panicum queenslandicum (20%), Schizachyrium pseudeulalia (20%), Scleria brownii (20%), Scleria novae-hollandiae (20%), Scleria sphacelata (20%), Urochloa whiteana (20%)  
FORBS: Alphitonia excelsa (1, 80%), Cyathillium cinereum (1, 80%), Desmodium rhytidophyllum (1, 80%), Phyllanthus virgatus (80%), Sida hackettiana (2, 80%), Breynia oblongifolia (60%), Brunoniella australis (60%), Lomandra multiflora subsp. multiflora (60%), Praxelis clematidea\* (8, 60%), Alternanthera nana (40%), Brunoniella acaulis (40%), Cheilanthes sieberi subsp. sieberi (40%), Chrysocephalum apiculatum (40%), Coelospermum reticulatum (3, 40%), Desmodium varians (1, 40%), Dianella caerulea (40%), Emilia sonchifolia var. sonchifolia\* (40%), Galactia tenuiflora (1, 40%), Grewia latifolia (2, 40%), Lomandra confertifolia subsp. pallida (40%), Murdannia graminea (40%), Scoparia dulcis\* (1, 40%), Sida spinosa\* (1, 40%), Solanum parvifolium subsp. parvifolium (40%), Spermacoce brachystema (40%), Stylosanthes scabra\* (1, 40%), Zornia dyctiocarpa var. filifolia (40%), Abutilon guineense\* (20%), Acacia crassa subsp. longicoma (3, 20%), Achyranthes aspera (20%), Ageratum conyzoides subsp. conyzoides\* (20%), Aristolochia thozetii (20%), Bidens pilosa\* (20%), Cassytha filiformis (20%), Chamaecrista absus var. absus (20%), Cheilanthes distans (20%), Cheilanthes nudiuscula (20%), Cheilanthes tenuifolia (20%), Crotalaria calycina (20%), Crotalaria mitchellii subsp. mitchellii (20%), Crotalaria montana (20%), Cryptostegia grandiflora\* (20%), Desmodium heterocarpon var. strigosum (20%), Dianella revoluta (20%), Eucalyptus crebra (20%), Eucalyptus exserta (20%), Eucalyptus platyphylla (8, 20%), Eustrephus latifolius (20%), Evolvulus alsinoides (20%), Glossocardia bidens (20%), Glycine cyrtoloba (20%), Indigofera australis subsp. australis (20%), Indigofera hirsuta (1, 20%), Indigofera polygaloides (20%), Leucas lavandulifolia\* (20%), Lindernia crustacea (20%), Lomandra longifolia (20%), Lophostemon confertus (15, 20%), Lophostemon suaveolens (1, 20%), Mecardonia procumbens\* (20%), Opercularia diphylla (2, 20%), Opuntia tomentosa\* (20%), Physalis angulata\* (20%), Psychotria daphnoides (20%), Psydrax odorata (1, 20%), Pterocaulon redolens (20%), Rostellularia adscendens (20%), Sida cordifolia\* (20%), Sigesbeckia orientalis (3, 20%), Solanum ellipticum (20%), Spermacoce multicaulis (1, 20%), Sphaeromorphaea indet. (20%), Stachytarpheta jamaicensis\* (20%), Xanthorrhoea latifolia subsp. latifolia (15, 20%)*

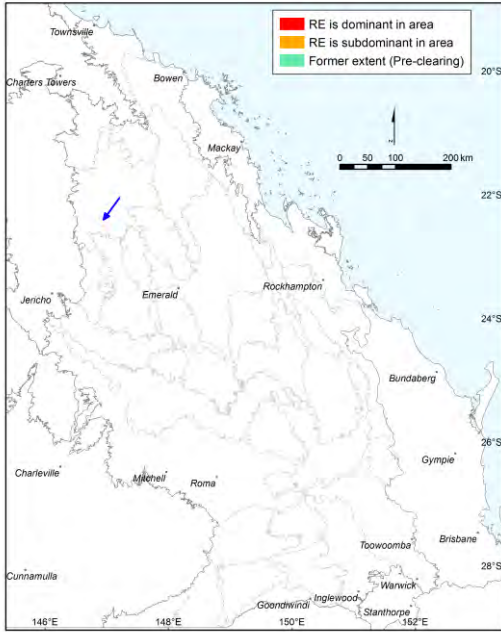
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Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Corymbia setosa woodland**



Pre-clearing area (ha), remnant area (ha) and per cent remaining:    694            441            64%

Species\_recorded:    Total: 20; woody: 12; ground: 8; Avg. spp./site: 20.0; std dev.: 0.0, 1 site(s)

Basal area:            Avg./site: 2.0 m<sup>2</sup>/ha, range: 2.0 - 2 m<sup>2</sup>/ha, std. deviation: 0 m<sup>2</sup>/ha, 1 site(s)

Structural formation:    Woodland: 100%, 1 site(s)

Representative\_sites    17057.

**Stratum: Tree 1**

Height avg. = 10.0m, 1 site

Crown cover avg. = 25.0%, 1 site

Dominant species (relative cover, frequency): *Eucalyptus crebra* (60, 100%), *Corymbia dallachiana* (20, 100%), *Corymbia clarksoniana* (20, 100%)

Frequent species (cover, frequency): *Corymbia clarksoniana* (5, 100%), *Corymbia dallachiana* (5, 100%), *Eucalyptus crebra* (15, 100%)

**Stratum: Tree 2**

Height avg. = 6.0m, 1 site

Crown cover avg. = 10.0%, 1 site

Dominant species (relative cover, frequency): *Corymbia setosa* (100, 100%)

Frequent species (cover, frequency): *Corymbia setosa* (10, 100%)

**Stratum: Shrub 1**

Height avg. = 2.0m, 1 site

Crown cover avg. = 14.0%, 1 site

Dominant species (relative cover, frequency): *Acacia hyaloneura* (57, 100%), *Jacksonia ramosissima* (14, 100%), *Acacia tenuissima* (7, 100%), *Acacia multisiliqua* (7, 100%), *Acacia indet.* (7, 100%)

Frequent species (cover, frequency): *Acacia gonoclada* (1, 100%), *Acacia hyaloneura* (8, 100%), *Acacia indet.* (1, 100%), *Acacia multisiliqua* (1, 100%), *Acacia tenuissima* (1, 100%), *Jacksonia ramosissima* (2, 100%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name.    indet. after listed name = indeterminate species or genus

## Technical Description

Regional ecosystem: 11.11.15d

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### Stratum: Shrub 2

Height avg. = 0.5m, 1 site

Crown cover avg. = 2.0%, 1 site

*Dominant species (relative cover, frequency): Coronidium lanuginosum (80, 100%), Dodonaea dodecandra (20, 100%)*

*Frequent species (cover, frequency): Coronidium lanuginosum (2, 100%), Dodonaea dodecandra (1, 100%)*

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### Stratum: Ground

Height avg. = 0.5m, 1 site

PFC avg. = 65.0%, 1 site

*Dominant species (relative cover, frequency): Eriachne mucronata (63, 100%), Cymbopogon ambiguus (16, 100%), Aristida ramosa (8, 100%), Panicum effusum (3, 100%), Aristida holathera var. holathera (3, 100%)*

*Frequent species (cover, frequency): GRAMINOIDS: Aristida acuta (2, 100%), Aristida calycina var. calycina (2, 100%), Aristida holathera var. holathera (2, 100%), Aristida ramosa (5, 100%), Cymbopogon ambiguus (10, 100%), Eriachne mucronata (40, 100%), Panicum effusum (2, 100%), Triodia pungens (1, 100%)*

*FORBS:*

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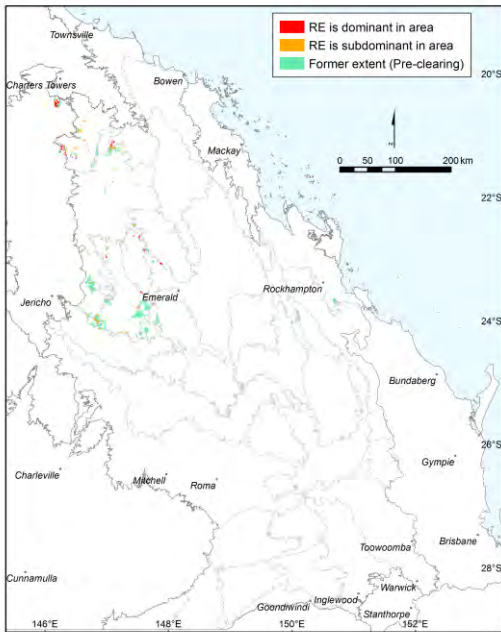
Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus



**Eucalyptus cambageana, Acacia harpophylla woodland on old sedimentary rocks with varying degrees of metamorphism and folding. Lowlands**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 89,041 25,453 29%

Species\_recorded: Total: 60; woody: 17; ground: 45; Avg. spp./site: 23.5; std dev.: 4.5, 2 site(s)

Basal area: Avg./site: 6.6 m<sup>2</sup>/ha, range: 4.3 - 9 m<sup>2</sup>/ha, std. deviation: 2 m<sup>2</sup>/ha, 4 site(s)

Structural formation: Woodland: 50%; open-woodland: 50%, 4 site(s)

Representative\_sites 1996, 16895, 16904, 16924.

**Stratum: Tree 1**

Height avg. = 20.8m, range 18-25m, 4 sites

Crown cover avg. = 20.0%, range 15.0-30.0%, 4 sites

Dominant species (relative cover, frequency): *Eucalyptus cambageana* (100, 100%), *Eucalyptus populnea* (1, 25%), *Eucalyptus melanophloia* (1, 25%), *Corymbia dallachiana* (1, 25%)

Frequent species (cover, frequency): *Eucalyptus cambageana* (20, 100%), *Corymbia dallachiana* (25%), *Eucalyptus melanophloia* (25%), *Eucalyptus populnea* (25%)

**Stratum: Tree 2**

Height avg. = 8.5m, range 7-10m, 4 sites

Crown cover avg. = 21.3%, range 5.0-50.0%, 4 sites

Dominant species (relative cover, frequency): *Acacia harpophylla* (96, 50%), *Flindersia dissosperma* (77, 25%), *Acacia rhodoxylon* (70, 25%), *Eucalyptus crebra* (30, 25%), *Eremophila mitchellii* (15, 25%)

Frequent species (cover, frequency): *Acacia harpophylla* (37, 50%), *Acacia rhodoxylon* (4, 25%), *Eremophila mitchellii* (1, 25%), *Eucalyptus cambageana* (2, 25%), *Eucalyptus crebra* (2, 25%), *Flindersia dissosperma* (5, 25%), *Lysiphylum carronii* (1, 25%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Shrub 1**

Height avg. = 3.9m, range 2.5-5m, 4 sites

Crown cover avg. = 7.8%, range 1.0-10.0%, 4 sites

*Dominant species (relative cover, frequency): Eremophila mitchellii (78, 75%), Eucalyptus cambageana (45, 25%), Lysiphyllum carronii (27, 25%), Acacia harpophylla (22, 50%), Flindersia dissosperma (18, 25%)*

*Frequent species (cover, frequency): Eremophila mitchellii (9, 75%), Acacia harpophylla (3, 50%), Atalaya hemiglauca (50%), Erythroxylum australe (2, 25%), Eucalyptus cambageana (1, 25%), Flindersia dissosperma (25%), Geijera parviflora (1, 25%), Lysiphyllum carronii (25%)*

**Stratum: Shrub 2**

Height avg. = 1.4m, range 0.1-2m, 3 sites

Crown cover avg. = 12.0%, range 1.0-30.0%, 3 sites

*Dominant species (relative cover, frequency): Dodonaea viscosa (90, 25%), Atalaya hemiglauca (67, 25%), Eremophila deserti (48, 25%), Carissa lanceolata (33, 25%), Geijera parviflora (27, 50%)*

*Frequent species (cover, frequency): Geijera parviflora (2, 50%), Acacia harpophylla (25%), Atalaya hemiglauca (1, 25%), Carissa lanceolata (1, 25%), Dodonaea viscosa (27, 25%), Enchylaena tomentosa (25%), Eremophila deserti (3, 25%), Eremophila mitchellii (2, 25%), Eucalyptus cambageana (25%)*

**Stratum: Ground**

Height avg. = 0.6m, range 0.2-1m, 2 sites

PFC avg. = 6.0%, range 5-7%, 2 sites

*Dominant species (relative cover, frequency): Carissa ovata (59, 50%), Enteropogon acicularis (33, 100%), Enteropogon unispiceus (12, 50%), Bothriochloa ewartiana (7, 50%), Paspalidium caespitosum (7, 100%)*

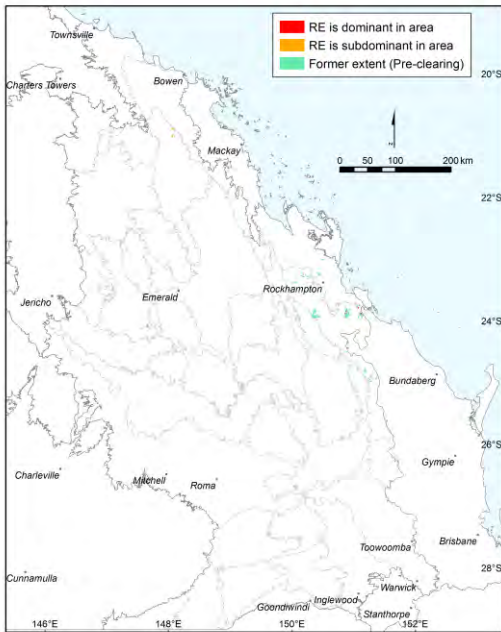
*Frequent species (cover, frequency): GRAMINOIDS: Enteropogon acicularis (2, 100%), Paspalidium caespitosum (1, 100%), Ancistrachne uncinulata (50%), Aristida jerichoensis var. jerichoensis (50%), Bothriochloa ewartiana (1, 50%), Cenchrus ciliaris\* (50%), Chrysopogon fallax (50%), Cymbopogon refractus (50%), Cyperus fulvus (50%), Digitaria brownii (50%), Enneapogon lindleyanus (50%), Enteropogon unispiceus (1, 50%), Eragrostis indet. (50%), Eragrostis lacunaria (50%), Eriochloa pseudoacrotricha (50%), Eulalia aurea (50%), Fimbristylis dichotoma (50%), Oxychloris scariosa (50%), Panicum effusum (50%), Panicum laevinode (50%), Sporobolus caroli (50%), Sporobolus scabridus (50%), Triodia pungens (50%) FORBS: Enchylaena tomentosa (100%), Abutilon fraseri (50%), Alternanthera denticulata var. micrantha (50%), Apophyllum anomalum (50%), Capparis lasiantha (50%), Carissa ovata (5, 50%), Einadia nutans subsp. linifolia (50%), Lysiphyllum carronii (50%), Salsola australis (50%), Trianthema triquetra (50%)*

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

Semi-evergreen vine thicket on old sedimentary rocks with varying degrees of metamorphism and folding



Bill McDonald

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 49,048 4,419 9%

Species\_recorded: Total: 238; woody: 179; ground: 123; Avg. spp./site: 75.1; std dev.: 10.3, 8 site(s)

Basal area: Avg./site: 27.5 m<sup>2</sup>/ha, range: 18.0 - 34 m<sup>2</sup>/ha, std. deviation: 6 m<sup>2</sup>/ha, 5 site(s)

Structural formation: Low woodland: 13%; unrecorded: 88%, 8 site(s)

Representative\_sites 14847, 14870, 14872, 47375, 47393, 47814, 47815, 50454.

**Stratum: Emergent**

Height avg. = 18.3m, range 13-24m, 6 sites

Crown cover avg. = 5.3%, range 2.0-10.0%, 6 sites

Dominant species (relative cover, frequency): *Brachychiton rupestris* (60, 25%), *Flindersia collina* (50, 25%)

Frequent species (cover, frequency): *Brachychiton rupestris* (3, 25%), *Flindersia collina* (5, 25%), *Archidendropsis thozetiana* (5, 13%), *Brachychiton australis* (10, 13%), *Eucalyptus crebra* (2, 13%), *Euroschinus falcatus var. falcatus* (13%), *Ficus rubiginosa* (4, 13%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Tree 1**

Height avg. = 11.0m, range 7-16.5m, 8 sites

Crown cover avg. = 33.1%, range 10.0-60.0%, 8 sites

*Dominant species (relative cover, frequency): Terminalia porphyrocarpa (23, 38%), Backhousia angustifolia (20, 25%), Pleiogynium timorense (17, 38%), Drypetes deplanchei (14, 63%), Planchonella cotinifolia (12, 63%)*

*Frequent species (cover, frequency): Bridelia leichhardtii (2, 75%), Cissus oblonga (2, 63%), Drypetes deplanchei (2, 63%), Excoecaria dallachyana (3, 63%), Planchonella cotinifolia (4, 63%), Trophis scandens subsp. scandens (63%), Acacia fasciculifera (1, 50%), Diospyros geminata (2, 50%), Brachychiton rupestris (2, 38%), Coatesia paniculata (3, 38%), Diosperma erythrocarpum (1, 38%), Dockrillia bowmanii (38%), Glossocarya hemiderma (1, 38%), Notelaea microcarpa (3, 38%), Pleiogynium timorense (4, 38%), Pyrrosia rupestris (38%), Terminalia porphyrocarpa (9, 38%), Alectryon subdentatus (3, 25%), Austrosteenisia blackii var. blackii (1, 25%), Backhousia angustifolia (10, 25%), Brachychiton australis (1, 25%), Bursaria incana (25%), Capparis ornans (25%), Cayratia acris (1, 25%), Croton insularis (2, 25%), Dendrocnide photinophylla (1, 25%), Denhamia disperma (25%), Elattostachys xylocarpa (1, 25%), Flindersia australis (2, 25%), Grevillea helmsiae (1, 25%), Strychnos psilosperma (4, 25%), Acacia aulacocarpa (13%), Alectryon connatus (13%), Alphonsonia excelsa (1, 13%), Amyema congener (13%), Aphananthe philippinensis (1, 13%), Asparagus africanus\* (1, 13%), Atalaya multiflora (1, 13%), Atalaya salicifolia (1, 13%), Cassytha filiformis (13%), Clematicissus opaca (13%), Cupaniopsis parvifolia (1, 13%), Cymbidium canaliculatum (13%), Denhamia pittosporoides subsp. pittosporoides (2, 13%), Diospyros humilis (1, 13%), Ehretia membranifolia (1, 13%), Elaeocarpus obovatus (13%), Euroschinus falcatus (5, 13%), Euroschinus falcatus var. falcatus (1, 13%), Everistia vacciniifolia (1, 13%), Exocarpos latifolius (13%), Ficus rubiginosa (2, 13%), Flindersia collina (1, 13%), Geijera salicifolia (1, 13%), Gossia bidwillii (10, 13%), Gyrocarpus americanus (1, 13%), Homalium alnifolium (1, 13%), Jasminum simplicifolium subsp. australiense (2, 13%), Mallotus philippensis (1, 13%), Melia azedarach (13%), Melodorum leichhardtii (13%), Myrsine variabilis (13%), Planchonella pohlmanniana (1, 13%), Pleurostylia opposita (1, 13%), Polyscias elegans (1, 13%), Pyrrosia confluens (13%), Sterculia quadrifida (1, 13%), Vitex lignum-vitae (10, 13%)*

**Stratum: Tree 2**

Height avg. = 7.0m, range 4.8-9m, 6 sites

Crown cover avg. = 37.8%, range 7.0-65.0%, 6 sites

*Dominant species (relative cover, frequency): Coatesia paniculata (27, 25%), Gossia bidwillii (16, 75%), Bridelia leichhardtii (12, 25%), Strychnos psilosperma (10, 38%), Backhousia angustifolia (9, 25%)*

*Frequent species (cover, frequency): Gossia bidwillii (5, 75%), Acacia fasciculifera (2, 50%), Alectryon subdentatus (1, 50%), Diospyros geminata (4, 50%), Grevillea helmsiae (1, 50%), Planchonella cotinifolia (1, 50%), Capparis arborea (1, 38%), Cissus oblonga (1, 38%), Drypetes deplanchei (1, 38%), Psydrax odorata subsp. australiana (3, 38%), Pyrrosia rupestris (38%), Strychnos psilosperma (2, 38%), Turraea pubescens (1, 38%), Acacia maidenii (25%), Alectryon connatus (1, 25%), Atalaya salicifolia (25%), Backhousia angustifolia (6, 25%), Barklya syringifolia (1, 25%), Bridelia leichhardtii (3, 25%), Coatesia paniculata (18, 25%), Croton insularis (1, 25%), Dendrocnide photinophylla (25%), Dockrillia bowmanii (25%), Elaeodendron melanocarpum (1, 25%), Excoecaria dallachyana (3, 25%), Glossocarya hemiderma (1, 25%), Jasminum simplicifolium subsp. australiense (25%), Melodorum leichhardtii (1, 25%), Notelaea microcarpa (2, 25%), Parsonsia plaesiophylla (25%), Pleiogynium timorense (1, 25%), Tinospora smilacina (25%), Trophis scandens subsp. scandens (1, 25%), Acacia aulacocarpa (1, 13%), Acronychia laevis (1, 13%), Acronychia pauciflora (13%), Alectryon diversifolius (13%), Alphonsonia excelsa (1, 13%), Amyema congener (13%), Asparagus plumosus\* (13%), Brachychiton australis (13%), Brachychiton bidwillii (13%), Bursaria incana (13%), Capparis ornans (13%), Casearia multinervosa (2, 13%), Cayratia acris (13%), Claoxylon tenerifolium subsp. tenerifolium (13%), Croton acronychioides (25, 13%), Croton phebalioides (13%), Cryptostegia grandiflora\* (13%), Cupaniopsis anacardioides (1, 13%), Cupaniopsis parvifolia (1, 13%), Cupaniopsis wadsworthii (13%), Cynanchum viminalis subsp. brunonianum (13%), Denhamia pittosporoides subsp. pittosporoides (1, 13%), Diospyros humilis (1, 13%), Ehretia membranifolia (13%), Elaeodendron australe var. integrifolium (13%), Elattostachys xylocarpa (25, 13%), Everistia vacciniifolia var. vacciniifolia (2, 13%), Flindersia australis (1, 13%), Mallotus claoxyloides (13%), Marsdenia indet. (13%), Myrsine variabilis (13%), Opuntia tomentosa\* (2, 13%), Pandorea floribunda (13%), Pandorea pandorana (13%), Parsonsia lanceolata (1, 13%), Parsonsia leichhardtii (1, 13%), Parsonsia rotata (13%), Parsonsia velutina (13%), Pavetta australiensis (13%), Pittosporum viscidum (13%), Pyrrosia confluens (13%), Ripogonum brevifolium (13%), Rivina humilis\* (1, 13%), Sarcophilus dilatatus (13%), Sarcophilus hillii (13%), Secamone elliptica (1, 13%), Streblus brunonianus (1, 13%), Terminalia porphyrocarpa (1, 13%), Triflorensia ixoroides (13%), Vincetoxicum ovatum (13%), Vitex lignum-vitae (1, 13%)*

**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Tree 3**

Height avg. = 4.5m, 1 site

Crown cover avg. = 15.0%, 1 site

*Frequent species (cover, frequency):* *Atalaya salicifolia* (13%), *Austrosteenisia blackii* var. *blackii* (13%), *Capparis arborea* (13%), *Casearia multinervosa* (13%), *Cissus oblonga* (1, 13%), *Cissus reniformis* (1, 13%), *Gossia bidwillii* (7, 13%), *Grevillea helmsiae* (1, 13%), *Marsdenia pleiadenia* (13%), *Strychnos psilosperma* (5, 13%), *Vitex lignum-vitae* (1, 13%)

**Stratum: Shrub 1**

Height avg. = 3.2m, range 1.6-6m, 8 sites

Crown cover avg. = 42.1%, range 10.0-70.0%, 8 sites

*Dominant species (relative cover, frequency):* *Alchornea ilicifolia* (27, 25%), *Coatesia paniculata* (20, 25%), *Alyxia ruscifolia* (17, 50%), *Hovea longipes* (17, 25%), *Strychnos psilosperma* (12, 63%)

*Frequent species (cover, frequency):* *Turraea pubescens* (1, 100%), *Acalypha eremorum* (5, 63%), *Carissa ovata* (2, 63%), *Cissus oblonga* (1, 63%), *Glossocarya hemiderma* (1, 63%), *Murraya ovatifoliolata* (3, 63%), *Pittosporum spinescens* (4, 63%), *Strychnos psilosperma* (6, 63%), *Tinospora smilacina* (63%), *Alyxia ruscifolia* (6, 50%), *Bridelia leichhardtii* (1, 50%), *Lantana camara*\* (50%), *Sarcochilus dilatatus* (50%), *Solanum seaforthianum*\* (50%), *Capparis arborea* (1, 38%), *Croton acronychioides* (1, 38%), *Croton insularis* (1, 38%), *Croton phebalioides* (2, 38%), *Denhamia disperma* (38%), *Gossia bidwillii* (2, 38%), *Jasminum simplicifolium* subsp. *australiense* (1, 38%), *Melodorum leichhardtii* (38%), *Triflorensia ixoroides* (1, 38%), *Trophis scandens* subsp. *scandens* (38%), *Alchornea ilicifolia* (3, 25%), *Alphitonia excelsa* (25%), *Backhousia angustifolia* (1, 25%), *Casearia multinervosa* (25%), *Cayratia acris* (1, 25%), *Coatesia paniculata* (12, 25%), *Cynanchum viminale* subsp. *brunonianum* (25%), *Deeringia amaranthoides* (25%), *Denhamia pittosporoides* subsp. *pittosporoides* (25%), *Diospyros geminata* (1, 25%), *Diospyros humilis* (1, 25%), *Erythroxylum* sp. (*Splityard Creek L.Pedley 5360*) (25%), *Eustrephus latifolius* (25%), *Everistia vacciniifolia* var. *vacciniifolia* (2, 25%), *Exocarpos latifolius* (1, 25%), *Geijera salicifolia* (3, 25%), *Hovea longipes* (10, 25%), *Marsdenia micradenia* (25%), *Myrsine variabilis* (25%), *Parsonsia plaesiophylla* (25%), *Passiflora suberosa*\* (25%), *Pavetta australiensis* (25%), *Planchonella cotinifolia* (25%), *Pleurostyliya opposita* (25%), *Psydrax odorata* (25%), *Psydrax odorata* forma *australiana* (1, 25%), *Psydrax odorata* subsp. *australiana* (2, 25%), *Sarcochilus hillii* (25%), *Secamone elliptica* (25%), *Senna gaudichaudii* (25%), *Solanum stelligerum* (2, 25%), *Sterculia quadrifida* (25%), *Vincetoxicum ovatum* (25%), *Abutilon oxycarpum* (1, 13%), *Acacia aulacocarpa* (13%), *Acalypha capillipes* (5, 13%), *Acronychia laevis* (13%), *Acronychia pauciflora* (13%), *Alectryon connatus* (13%), *Alectryon diversifolius* (13%), *Alstonia constricta* (13%), *Atalaya salicifolia* (13%), *Backhousia kingii* (13%), *Barklya syringifolia* (13%), *Breynia oblongifolia* (13%), *Cassytha pubescens* (13%), *Claoxylon australe* (13%), *Cleistanthus cunninghamii* (1, 13%), *Clerodendrum floribundum* (13%), *Croton stigmatosus* (1, 13%), *Cupaniopsis parvifolia* (13%), *Cupaniopsis wadsworthii* (13%), *Cyclophyllum coprosmoides* var. *coprosmoides* (13%), *Dansiea elliptica* (13%), *Denhamia oleaster* (1, 13%), *Dioscorea transversa* (13%), *Diplocyclos palmatus* subsp. *palmatus* (13%), *Dockrillia bowmanii* (13%), *Dodonaea viscosa* subsp. *burmanniana* (13%), *Drypetes deplanchei* (13%), *Elaeodendron melanocarpum* (13%), *Elattostachys xylocarpa* (5, 13%), *Erythroxylum australe* (13%), *Euroschinus falcatus* (13%), *Ficus indet.* (13%), *Ficus opposita* (13%), *Ficus rubiginosa* (13%), *Flueggea leucopyrus* (8, 13%), *Geitonoplesium cymosum* (13%), *Grevillea helmsiae* (13%), *Harnieria hygrophiloides* (13%), *Hoya australis* subsp. *australis* (1, 13%), *Ixora queenslandica* (13%), *Jasminum didymum* subsp. *racemosum* (13%), *Mallotus claoxylodes* (30, 13%), *Mallotus philippensis* (1, 13%), *Marsdenia indet.* (13%), *Micromelum minutum* (1, 13%), *Notelaea microcarpa* (13%), *Olearia canescens* (13%), *Olearia canescens* subsp. *discolor* (13%), *Opuntia tomentosa*\* (1, 13%), *Pandorea pandorana* (13%), *Parsonsia lanceolata* (13%), *Parsonsia leichhardtii* (1, 13%), *Parsonsia paulforsteri* (13%), *Parsonsia rotata* (13%), *Parsonsia straminea* (13%), *Phyllanthus microcladus* (13%), *Pleogyne australis* (13%), *Polyscias elegans* (13%), *Psychotria daphnoides* (13%), *Pyrrosia confluens* (13%), *Solanum furfuraceum* (13%), *Stephania renifolia* (13%), *Tarenna indet.* (1, 13%), *Trema tomentosa* (13%), *Ventilago pubiflora* (13%), *Vitex lignum-vitae* (13%), *Xylosma terrae-reginae* (13%)

**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Shrub 2**

Height avg. = 1.9m, range 0.8-3m, 3 sites

Crown cover avg. = 18.3%, range 5.0-30.0%, 3 sites

Dominant species (relative cover, frequency): *Murraya ovatifoliolata* (37, 25%), *Flueggea leucopyrus* (5, 25%), *Solanum seafortianum\** (4, 25%), *Carissa ovata* (3, 38%), *Alyxia ruscifolia* (1, 25%)

Frequent species (cover, frequency): *Carissa ovata* (38%), *Alyxia ruscifolia* (25%), *Flueggea leucopyrus* (1, 25%), *Murraya ovatifoliolata* (10, 25%), *Solanum seafortianum\** (25%), *Acalypha eremorum* (1, 13%), *Aidia racemosa* (13%), *Alchornea ilicifolia* (13%), *Breynia oblongifolia* (13%), *Capparis ornans* (13%), *Cassytha pubescens* (13%), *Cynanchum viminale* subsp. *brunonianum* (13%), *Deeringia amaranthoides* (13%), *Denhamia pittosporoides* subsp. *pittosporoides* (13%), *Dioscorea transversa* (13%), *Erythroxylum australe* (13%), *Everistia vacciniifolia* forma *vacciniifolia* (13%), *Glossocarya hemiderma* (1, 13%), *Grewia latifolia* (13%), *Hibiscus heterophyllus* (1, 13%), *Hovea longipes* (5, 13%), *Jasminum didymum* subsp. *racemosum* (1, 13%), *Lantana camara\** (13%), *Macrozamia miquelii* (13%), *Mallotus claoxyloides* (5, 13%), *Marsdenia microlepis* (13%), *Melodorum leichhardtii* (5, 13%), *Micromelum minutum* (13%), *Pandorea pandorana* (13%), *Passiflora suberosa\** (13%), *Pleogyne australis* (13%), *Rivina humilis\** (3, 13%), *Secamone elliptica* (13%), *Smilax australis* (13%), *Solanum stelligerum* (3, 13%), *Tinospora smilacina* (13%), *Trophis scandens* subsp. *scandens* (13%), *Turraea pubescens* (13%)

**Stratum: Ground**

Height avg. = 0.4m, range 0.1-0.65m, 8 sites

PFC avg. = 25.0%, range 5-55%, 8 sites

Dominant species (relative cover, frequency): *Gahnia aspera* (22, 25%), *Rivina humilis\** (21, 63%), *Ancistrachne uncinulata* (21, 88%), *Oplismenus aemulus* (16, 88%), *Coatesia paniculata* (12, 25%)

Frequent species (cover, frequency): GRAMINOIDS: *Ancistrachne uncinulata* (3, 88%), *Oplismenus aemulus* (7, 88%), *Cyperus gracilis* (75%), *Ottochloa gracillima* (5, 50%), *Aristida gracilipes* (25%), *Chloris truncata* (25%), *Dinebra decipiens* (25%), *Gahnia aspera* (2, 25%), *Megathyrus maximus\** (1, 25%), *Scleria brownii* (25%), *Chrysopogon sylvaticus* (13%), *Cymbopogon refractus* (13%), *Digitaria minima* (13%), *Enteropogon ramosus* (13%), *Enteropogon unispiceus* (2, 13%), *Panicum effusum* (13%), *Paspalidium criniforme* (13%), *Setaria oplismenoides* (13%)

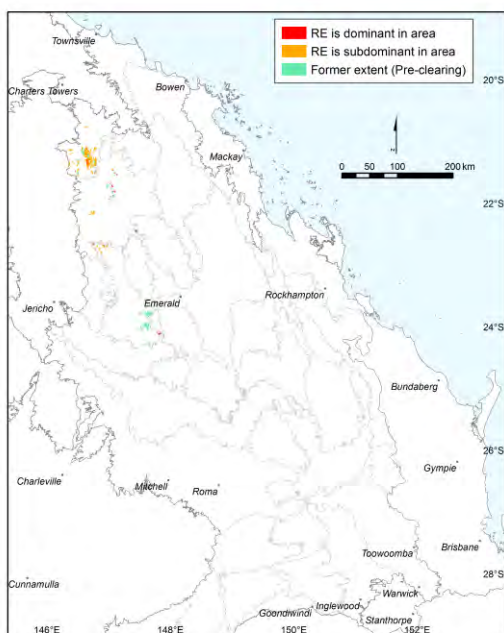
FORBS: *Geitonoplesium cymosum* (75%), *Pseuderanthemum variabile* (63%), *Rivina humilis\** (10, 63%), *Solanum seafortianum\** (1, 63%), *Glossocarya hemiderma* (2, 50%), *Lantana montevidensis\** (50%), *Pandorea pandorana* (50%), *Plumbago zeylanica* (1, 50%), *Adiantum hispidulum* (38%), *Breynia oblongifolia* (38%), *Cissus oblonga* (38%), *Croton acronychioides* (38%), *Deeringia amaranthoides* (1, 38%), *Desmodium brachypodum* (38%), *Dioscorea transversa* (38%), *Doryopteris concolor* (38%), *Erigeron sumatrensis\** (38%), *Harnieria hygrophiloides* (38%), *Jasminum didymum* subsp. *racemosum* (38%), *Jasminum simplicifolium* subsp. *australiense* (1, 38%), *Lantana camara\** (38%), *Murraya ovatifoliolata* (1, 38%), *Nyssanthus diffusa* (1, 38%), *Pellaea nana* (38%), *Secamone elliptica* (38%), *Smilax australis* (38%), *Solanum stelligerum* (38%), *Abutilon oxycarpum* (25%), *Alyxia ruscifolia* (1, 25%), *Backhousia angustifolia* (25%), *Carissa ovata* (25%), *Coatesia paniculata* (1, 25%), *Diplocyclos palmatus* subsp. *palmatus* (25%), *Everistia vacciniifolia* var. *vacciniifolia* (25%), *Grewia latifolia* (25%), *Hoya australis* subsp. *australis* (2, 25%), *Melodorum leichhardtii* (2, 25%), *Nicotiana forsteri* (25%), *Parsonsia lanceolata* (25%), *Psychotria daphnoides* (25%), *Rhynchosia acuminatissima* (25%), *Abutilon oxycarpum* var. *oxycarpum* (2, 13%), *Acalypha capillipes* (13%), *Acalypha eremorum* (13%), *Aneilema acuminatum* (1, 13%), *Aristolochia pubera* (13%), *Arytera divaricata* (13%), *Bidens bipinnata\** (13%), *Brachychiton rupestris* (13%), *Bursaria incana* (13%), *Capparis arborea* (13%), *Cayratia acris* (13%), *Chamaecrista rotundifolia* var. *rotundifolia\** (13%), *Cheilanthes tenuifolia* (13%), *Cissus reniformis* (1, 13%), *Cleistanthus cunninghamii* (13%), *Clematicissus opaca* (13%), *Crassocephalum crepidioides\** (13%), *Croton phebaloides* (13%), *Cyanthillium cinereum* (13%), *Cynanchum viminale* subsp. *brunonianum* (13%), *Dendrocnide photinophylla* (13%), *Desmodium gunnii* (13%), *Dianella caerulea* (13%), *Diospyros fasciculosa* (13%), *Diospyros geminata* (13%), *Emilia sonchifolia\** (13%), *Erythroxylum australe* (13%), *Everistia vacciniifolia* forma *vacciniifolia* (13%), *Gynura drymophila* (13%), *Lomandra multiflora* subsp. *multiflora* (13%), *Macrozamia miquelii* (13%), *Mallotus claoxyloides* (2, 13%), *Malvastrum americanum* (13%), *Malvastrum americanum* var. *americanum\** (13%), *Marsdenia micradenia* (13%), *Marsdenia pleiadenia* (13%), *Micromelum minutum* (1, 13%), *Olearia canescens* subsp. *discolor* (13%), *Pandorea floribunda* (13%), *Parsonsia plaesiophylla* (13%), *Parsonsia velutina* (13%), *Passiflora aurantia* (1, 13%), *Passiflora aurantia* var. *aurantia* (1, 13%), *Peperomia blanda* var. *floribunda* (13%), *Phyllanthus gunnii* (13%), *Pittosporum viscidum* (13%), *Plectranthus graveolens* (13%), *Pleogyne australis* (13%), *Praxelis clematidea\** (13%), *Psydrax odorata* subsp. *australiana* (13%), *Pteris tremula* (13%), *Pyrrosia confluens* (13%), *Pyrrosia rupestris* (13%), *Senna surattensis* (13%), *Sigesbeckia orientalis* (13%), *Solanum nigrum* subsp. *nigrum\** (13%), *Solanum nodiflorum\** (13%), *Stephania renifolia* (13%), *Tinospora smilacina* (13%), *Trema tomentosa* (13%), *Trophis scandens* subsp. *scandens* (1, 13%), *Vitex melicopea* (13%), *Zehneria cunninghamii* (13%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Eucalyptus thozetiana, Acacia harpophylla woodland on old sedimentary rocks with varying degrees of metamorphism and folding**



**Pre-clearing area (ha), remnant area (ha) and per cent remaining:** 31,211 14,799 47%

**Species recorded:** Total: 62; woody: 22; ground: 40; Avg. spp./site: 19.5; std dev.: 5.5, 2 site(s)

**Basal area:** Avg./site: 10.8 m<sup>2</sup>/ha, range: 6.5 - 14 m<sup>2</sup>/ha, std. deviation: 3 m<sup>2</sup>/ha, 3 site(s)

**Structural formation:** Woodland: 67%; open-woodland: 33%, 3 site(s)

**Representative sites** 19013, 28798, 55874.

**Stratum: Tree 1**

**Height avg. = 22.3m, range 18-25m, 3 sites**  
**Crown cover avg. = 23.3%, range 8.0-40.0%, 3 sites**

*Dominant species (relative cover, frequency): Eucalyptus thozetiana (96, 100%), Eucalyptus exserta (11, 33%)*

*Frequent species (cover, frequency): Eucalyptus thozetiana (23, 100%), Acacia catenulata (33%), Eucalyptus exserta (3, 33%), Flindersia dissosperma (33%)*

**Stratum: Tree 2**

**Height avg. = 9.2m, range 7.5-10m, 3 sites**  
**Crown cover avg. = 8.7%, range 1.0-20.0%, 3 sites**

*Dominant species (relative cover, frequency): Acacia harpophylla (100, 33%), Eucalyptus thozetiana (94, 67%), Flueggea leucopyrus (6, 33%), Eremophila mitchellii (6, 33%)*

*Frequent species (cover, frequency): Eucalyptus thozetiana (3, 67%), Acacia harpophylla (20, 33%), Eremophila mitchellii (33%), Flueggea leucopyrus (33%)*

**Stratum: Tree 3**

**Height avg. = 6.0m, 1 site**  
**Crown cover avg. = 1.0%, 1 site**

*Dominant species (relative cover, frequency): Eucalyptus thozetiana (53, 33%), Eremophila mitchellii (26, 33%), Phyllanthus virgatus (5, 33%), Geijera parviflora (5, 33%), Flindersia dissosperma (5, 33%)*

*Frequent species (cover, frequency): Dodonaea viscosa (33%), Eremophila mitchellii (1, 33%), Eucalyptus thozetiana (1, 33%), Flindersia dissosperma (33%), Geijera parviflora (33%), Phyllanthus virgatus (33%)*

**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Shrub 1**

Height avg. = 2.2m, range 1.25-2.8m, 3 sites

Crown cover avg. = 16.3%, range 3.0-39.0%, 3 sites

Dominant species (relative cover, frequency): *Eremophila mitchellii* (56, 100%), *Acacia sparsiflora* (29, 33%), *Erythroxylum australe* (20, 33%), *Eucalyptus thozetiana* (15, 67%), *Carissa ovata* (12, 100%)

Frequent species (cover, frequency): *Carissa ovata* (1, 100%), *Eremophila mitchellii* (11, 100%), *Eucalyptus thozetiana* (67%), *Acacia sparsiflora* (1, 33%), *Alphitonia pomaderroides* (33%), *Atalaya hemiglauca* (33%), *Capparis lasiantha* (2, 33%), *Carissa lanceolata* (2, 33%), *Erythroxylum australe* (8, 33%), *Everistia vacciniifolia forma crassa* (33%), *Opuntia stricta\** (33%), *Phyllanthus indet.* (33%), *Santalum lanceolatum* (33%), *Senna indet.* (33%)

**Stratum: Shrub 2**

Height avg. = 0.4m, 1 site

Crown cover avg. = 7.0%, 1 site

Dominant species (relative cover, frequency): *Carissa ovata* (39, 33%), *Carissa lanceolata* (24, 33%), *Capparis lasiantha* (20, 33%), *Acacia catenulata* (11, 33%), *Flueggea leucopyrus* (7, 33%)

Frequent species (cover, frequency): *Acacia catenulata* (1, 33%), *Capparis lasiantha* (2, 33%), *Carissa lanceolata* (2, 33%), *Carissa ovata* (3, 33%), *Flueggea leucopyrus* (1, 33%)

**Stratum: Ground**

Height avg. = 0.3m, range 0.1-0.5m, 2 sites

PFC avg. = 18.5%, range 17-20%, 2 sites

Dominant species (relative cover, frequency): *Sporobolus australasicus* (98, 50%), *Arundinella nepalensis* (72, 50%), *Cenchrus ciliaris\** (24, 50%), *Desmodium indet.* (1, 50%), *Jasminum didymum subsp. lineare* (1, 50%)

Frequent species (cover, frequency): GRAMINOIDS: *Aristida indet.* (50%), *Arundinella nepalensis* (13, 50%), *Cenchrus ciliaris\** (4, 50%), *Eriachne mucronata* (50%), *Paspalidium caespitosum* (50%), *Paspalidium gracile* (50%), *Sporobolus australasicus* (19, 50%), *Sporobolus creber* (50%)

FORBS: *Alternanthera indet.* (50%), *Cheilanthes sieberi* (50%), *Desmodium indet.* (50%), *Jasminum didymum subsp. lineare* (50%), *Sida rohlenae* (50%)

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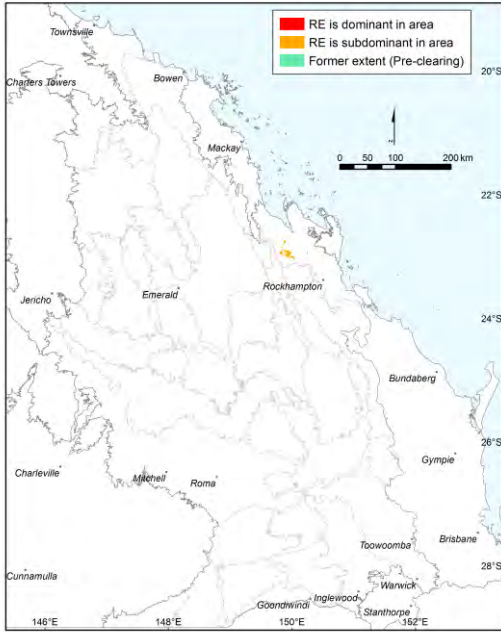
Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus



Semi-evergreen vine thicket on serpentinite



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 1,894 1,635 86%

Species\_recorded: Total: 87; woody: 67; ground: 28; Avg. spp./site: 66.0; std dev.: 0.0, 1 site(s)

Basal area: Avg./site: 27.5 m<sup>2</sup>/ha, range: 27.5 - 28 m<sup>2</sup>/ha, std. deviation: 0 m<sup>2</sup>/ha, 1 site(s)

Structural formation: Low closed-forest: 50%; closed-forest: 50%, 2 site(s)

Representative\_sites 17661, 41035.

**Stratum: Emergent**

Height avg. = 19.0m, 1 site

Crown cover avg. = 10.0%, 1 site

Dominant species (relative cover, frequency): *Brachychiton rupestris* (79, 50%), *Gyrocarpus americanus subsp. americanus* (16, 50%), *Alstonia constricta* (2, 50%), *Alphitonia excelsa* (2, 50%), *Acacia fasciculifera* (2, 50%)

Frequent species (cover, frequency): *Acacia fasciculifera* (50%), *Alphitonia excelsa* (50%), *Alstonia constricta* (50%), *Brachychiton rupestris* (5, 50%), *Gyrocarpus americanus subsp. americanus* (1, 50%)

**Stratum: Tree 1**

Height avg. = 12.0m, range 11-13m, 2 sites

Crown cover avg. = 32.5%, range 15.0-50.0%, 2 sites

Dominant species (relative cover, frequency): *Geijera salicifolia* (44, 50%), *Backhousia kingii* (43, 100%), *Flindersia australis* (30, 50%), *Drypetes deplanchei* (8, 100%), *Grevillea helmsiae* (7, 100%)

Frequent species (cover, frequency): *Backhousia kingii* (15, 100%), *Drypetes deplanchei* (1, 100%), *Flindersia collina* (100%), *Grevillea helmsiae* (3, 100%), *Owenia venosa* (100%), *Polyscias elegans* (100%), *Acacia fasciculifera* (50%), *Euroschinus falcatus* (50%), *Flindersia australis* (5, 50%), *Geijera salicifolia* (8, 50%), *Gossia bidwillii* (50%), *Harpullia pendula* (1, 50%), *Melia azedarach* (50%), *Planchonella cotinifolia* (50%), *Psydrax oleifolia* (50%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Tree 2**

Height avg. = 5.0m, range 5-5m, 2 sites

Crown cover avg. = 35.0%, range 35.0-35.0%, 2 sites

*Dominant species (relative cover, frequency): Gossia bidwillii (30, 50%), Croton insularis (18, 100%), Flindersia australis (8, 50%), Exocarpos latifolius (8, 50%), Erythroxylum sp. (Splityard Creek L.Pedley 5360) (8, 50%)*

*Frequent species (cover, frequency): Croton insularis (5, 100%), Notelaea microcarpa (1, 100%), Strychnos psilosperma (100%), Alchornea ilicifolia (50%), Alphitonia excelsa (50%), Alstonia constricta (50%), Austrosteenisia blackii var. blackii (50%), Brachychiton rupestris (50%), Canavalia papuana (50%), Capparis arborea (1, 50%), Cayratia acris (50%), Cayratia trifolia (50%), Cissus oblonga (1, 50%), Claoxylon tenerifolium subsp. tenerifolium (50%), Cupaniopsis wadsworthii (50%), Cyclophyllum coprosmoides (1, 50%), Cynanchum viminalis subsp. brunonianum (50%), Diospyros humilis (50%), Drypetes deplanchei (50%), Erythroxylum sp. (Splityard Creek L.Pedley 5360) (3, 50%), Exocarpos latifolius (3, 50%), Flindersia australis (3, 50%), Gossia bidwillii (10, 50%), Grevillea helmsiae (50%), Jasminum simplicifolium subsp. australiense (50%), Mallotus claoxylodes (50%), Micromelum minutum (50%), Psydrax oleifolia (50%), Terminalia porphyrocarpa (50%), Tetrastigma nitens (1, 50%), Turraea pubescens (50%)*

**Stratum: Shrub 1**

Height avg. = 1.1m, range 1-1.2m, 2 sites

Crown cover avg. = 7.5%, range 5.0-10.0%, 2 sites

*Dominant species (relative cover, frequency): Croton insularis (19, 50%), Alchornea ilicifolia (15, 50%), Murraya ovatifoliolata (11, 100%), Alyxia ruscifolia (7, 50%), Carissa ovata (7, 100%)*

*Frequent species (cover, frequency): Antirhea putaminosa (100%), Breynia oblongifolia (100%), Carissa ovata (1, 100%), Melodorum leichhardtii (1, 100%), Murraya ovatifoliolata (1, 100%), Turraea pubescens (100%), Acacia fasciculifera (50%), Alchornea ilicifolia (2, 50%), Alstonia constricta (1, 50%), Alyxia ruscifolia (1, 50%), Anisomeles indet. (50%), Backhousia kingii (50%), Bridelia leichhardtii (50%), Cissus oblonga (1, 50%), Croton insularis (3, 50%), Cyclophyllum coprosmoides (50%), Cynanchum viminalis subsp. australe (50%), Deeringia amaranthoides (50%), Diospyros geminata (50%), Drypetes deplanchei (50%), Euroschinus falcatus (50%), Exocarpos latifolius (50%), Geijera salicifolia (50%), Glossocarya hemiderma (50%), Gossia bidwillii (50%), Gyrocarpus americanus subsp. americanus (50%), Homalium alnifolium (50%), Lantana camara\* (50%), Notelaea microcarpa (50%), Pavetta australiensis (50%), Pavetta australiensis var. australiensis (50%), Phytolacca octandra\* (50%), Planchonella cotinifolia (50%), Psychotria daphnoides var. angustifolia (50%), Psydrax odorata subsp. australiana (1, 50%), Senna occidentalis\* (50%), Solanum seaforthianum\* (50%), Solanum stelligerum (50%), Strychnos psilosperma (50%), Tinospora smilacina (50%), Trema tomentosa var. aspera (50%), Wrightia saligna (50%)*

**Stratum: Ground**

Height avg. = 0.1m, 1 site

PFC avg. = 1.0%, 1 site

*Dominant species (relative cover, frequency): Dysphania carinata (5, 100%), Ancistrachne uncinulata (5, 100%), Anisomeles indet. (5, 100%), Capparis arborea (5, 100%), Cayratia acris (5, 100%)*

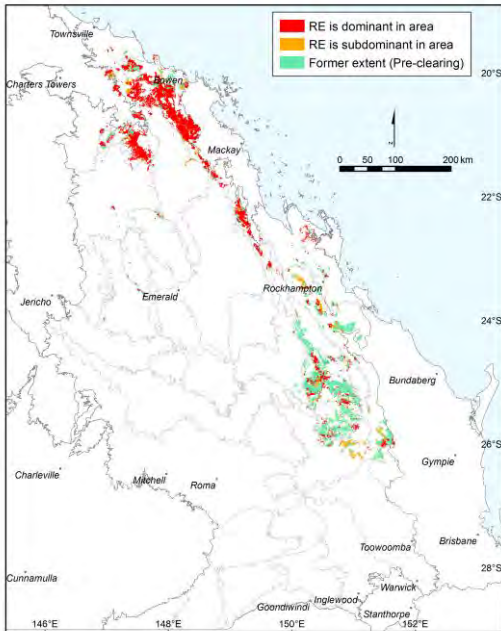
*Frequent species (cover, frequency): GRAMINOIDS: Ancistrachne uncinulata (100%), Cyperus enervis (100%)  
FORBS: Abutilon oxycarpum var. oxycarpum (100%), Anisomeles indet. (100%), Capparis arborea (100%), Cayratia acris (100%), Cayratia trifolia (100%), Cheilanthes sieberi subsp. sieberi (100%), Chenopodium indet. (100%), Cissus oblonga (100%), Deeringia amaranthoides (100%), Dysphania carinata (100%), Einadia indet. (100%), Gomphocarpus physocarpus\* (100%), Parsonsia plaesiophylla (100%), Passiflora suberosa\* (100%), Pittosporum spinescens (100%), Pterocaulon serrulatum (100%), Senna sophera (100%), Sida cordifolia\* (100%), Solanum furfuraceum (100%), Tinospora smilacina (100%)*

**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Eucalyptus crebra woodland on igneous rocks**



Annie Kelly

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 1,347,742 811,573 60%

Species\_recorded: Total: 397; woody: 109; ground: 316; Avg. spp./site: 30.6; std dev.: 12.4, 22 site(s)

Basal area: Avg./site: 11.4 m<sup>2</sup>/ha, range: 3.0 - 40 m<sup>2</sup>/ha, std. deviation: 8 m<sup>2</sup>/ha, 38 site(s)

Structural formation: Woodland: 53%; open-woodland: 42%; low open-woodland: 5%, 38 site(s)

Representative\_sites 14845, 15929, 16640, 16857, 16865, 17029, 17036, 17082, 17464, 17465, 17467, 17472, 17474, 17480, 17497, 17601, 17611, 17616, 17618, 17620, 17621, 19041, 19042, 19067, 19083, 19088, 19089, 19096, 19097, 19098, 19110, 19235, 19260, 19267, 28725, 40882, 40884, 59075.

**Stratum: Emergent**

Height avg. = 24.0m, 1 site

Crown cover avg. = 6.1%, 1 site

Frequent species (cover, frequency): *Corymbia tessellaris* (6, 3%)

**Stratum: Tree 1**

Height avg. = 15.8m, range 8-23m, 38 sites

Crown cover avg. = 23.2%, range 7.0-79.2%, 38 sites

Dominant species (relative cover, frequency): *Eucalyptus crebra* (80, 97%), *Corymbia erythrophloia* (29, 45%)

Frequent species (cover, frequency): *Eucalyptus crebra* (17, 97%), *Corymbia erythrophloia* (6, 45%), *Corymbia dallachiana* (1, 16%), *Eucalyptus melanophloia* (9, 16%), *Corymbia clarksoniana* (11, 5%), *Acacia disparrima* subsp. *disparrima* (11, 3%), *Allocasuarina luehmannii* (3%), *Brachychiton populneus* (1, 3%), *Bursaria incana* (5, 3%), *Callitris glaucophylla* (10, 3%), *Corymbia tessellaris* (3%), *Eucalyptus exserta* (1, 3%), *Eucalyptus persistens* (1, 3%), *Eucalyptus tereticornis* (2, 3%), *Melaleuca viridiflora* (3%), *Pleiogynium timorense* (2, 3%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Tree 2**

Height avg. = 9.8m, range 4-15m, 20 sites

Crown cover avg. = 7.9%, range 1.0-35.0%, 22 sites

Dominant species (relative cover, frequency): *Eucalyptus crebra* (66, 39%)

Frequent species (cover, frequency): *Eucalyptus crebra* (4, 39%), *Corymbia erythrophloia* (3, 18%), *Corymbia clarksoniana* (1, 8%), *Alphitonia excelsa* (3, 5%), *Bursaria incana* (2, 5%), *Corymbia dallachiana* (1, 5%), *Acacia aulacocarpa* (5, 3%), *Acacia disparrima subsp. disparrima* (5, 3%), *Acacia salicina* (1, 3%), *Angophora leiocarpa* (5, 3%), *Brachychiton populneus* (2, 3%), *Callitris glaucophylla* (5, 3%), *Corymbia indet.* (1, 3%), *Diospyros humilis* (1, 3%), *Erythrina vespertilio* (3%), *Eucalyptus melanophloia* (18, 3%), *Eucalyptus platyphylla* (3, 3%), *Euroschinus falcatus* (3%), *Euroschinus falcatus var. angustifolius* (3, 3%), *Geijera salicifolia* (3%), *Lophostemon suaveolens* (2, 3%), *Petalostigma pubescens* (1, 3%), *Planchonia careya* (3, 3%), *Psydrax oleifolia* (10, 3%)

**Stratum: Tree 3**

Height avg. = 5.8m, range 3.5-8m, 9 sites

Crown cover avg. = 3.9%, range 0.0-12.0%, 10 sites

Frequent species (cover, frequency): *Eucalyptus crebra* (1, 11%), *Alphitonia excelsa* (2, 5%), *Acacia aulacocarpa* (2, 3%), *Acacia disparrima subsp. disparrima* (5, 3%), *Acacia fasciculifera* (3%), *Allocasuarina luehmannii* (4, 3%), *Breynia oblongifolia* (1, 3%), *Bursaria incana* (1, 3%), *Callitris glaucophylla* (2, 3%), *Casuarina cristata* (2, 3%), *Corymbia clarksoniana* (4, 3%), *Eucalyptus melanophloia* (4, 3%), *Geijera salicifolia* (1, 3%), *Lophostemon confertus* (3%), *Petalostigma pubescens* (2, 3%), *Xanthorrhoea johnsonii* (3, 3%)

**Stratum: Shrub 1**

Height avg. = 2.1m, range 1-4m, 31 sites

Crown cover avg. = 7.8%, range 0.0-71.0%, 34 sites

Dominant species (relative cover, frequency): *Eucalyptus crebra* (39, 29%), *Alphitonia excelsa* (19, 21%)

Frequent species (cover, frequency): *Eucalyptus crebra* (1, 29%), *Alphitonia excelsa* (1, 21%), *Grewia retusifolia* (16%), *Corymbia erythrophloia* (13%), *Petalostigma pubescens* (4, 13%), *Sida hackettiana* (1, 13%), *Acacia disparrima subsp. disparrima* (2, 11%), *Carissa ovata* (1, 11%), *Hibiscus heterophyllus* (1, 11%), *Lantana camara\** (3, 11%), *Turraea pubescens* (3, 11%), *Acacia leiocalyx subsp. leiocalyx* (2, 8%), *Breynia oblongifolia* (8%), *Bursaria incana* (1, 8%), *Corymbia dallachiana* (8%), *Planchonia careya* (1, 8%), *Acacia indet.* (5%), *Alectryon connatus* (1, 5%), *Allocasuarina luehmannii* (1, 5%), *Bursaria spinosa subsp. spinosa* (5%), *Capparis canescens* (5%), *Coelospermum reticulatum* (5%), *Eremophila bignoniiflora* (5%), *Geijera parviflora* (5%), *Geijera salicifolia* (1, 5%), *Grewia latifolia* (1, 5%), *Indigofera pratensis* (1, 5%), *Melaleuca viridiflora* (5%), *Myoporum acuminatum* (5%), *Notelaea microcarpa* (5%), *Psydrax odorata* (1, 5%), *Santalum lanceolatum* (2, 5%), *Vachellia bidwillii* (36, 5%), *Acacia crassa* (2, 3%), *Acacia fasciculifera* (3%), *Acacia humifusa* (3%), *Acacia implexa* (3%), *Acacia leptostachya* (3%), *Acacia maidenii* (3%), *Acacia nesophila* (3%), *Acacia pustula* (3%), *Acacia salicina* (3%), *Albizia canescens* (1, 3%), *Alectryon diversifolius* (2, 3%), *Alstonia constricta* (1, 3%), *Archidendropsis basalica* (2, 3%), *Atalaya hemiglauca* (3%), *Brachychiton acerifolius* (3%), *Brachychiton populneus* (3%), *Breynia cernua* (3%), *Bridelia tomentosa* (10, 3%), *Capparis indet.* (3%), *Cassia brewsteri* (1, 3%), *Cassia tomentella* (2, 3%), *Cryptostegia grandiflora\** (1, 3%), *Denhamia disperma* (3%), *Denhamia oleaster* (2, 3%), *Diospyros geminata* (2, 3%), *Dodonaea viscosa* (10, 3%), *Elaeodendron australe var. integrifolium* (3%), *Erythrina vespertilio* (2, 3%), *Erythroxylum australe* (1, 3%), *Eucalyptus exserta* (3%), *Eucalyptus platyphylla* (3%), *Eucalyptus tereticornis* (3%), *Flueggea leucopyrus* (3%), *Flueggea virosa subsp. melanthesoides* (3%), *Glochidion indet.* (1, 3%), *Grewia indet.* (3%), *Grewia scabrella* (5, 3%), *Hibiscus meraukensis* (3%), *Jasminum didymum subsp. lineare* (1, 3%), *Larsenaikia jardinei* (3%), *Lophostemon confertus* (1, 3%), *Macrozamia miquelii* (5, 3%), *Mallotus philippensis* (1, 3%), *Opuntia stricta\** (1, 3%), *Opuntia tomentosa\** (3%), *Persoonia falcata* (3%), *Salsola australis* (1, 3%), *Tephrosia astragaloides* (2, 3%), *Triumfetta rhomboidea\** (3%), *Urena lobata\** (3%), *Vachellia farnesiana\** (3%), *Waltheria indica* (3%), *Xanthorrhoea johnsonii* (4, 3%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Shrub 2**

Height avg. = 1.2m, range 0.7-2m, 8 sites

Crown cover avg. = 6.4%, range 1.0-30.0%, 9 sites

*Frequent species (cover, frequency): Eucalyptus crebra (8%), Grewia latifolia (1, 8%), Carissa ovata (2, 5%), Acacia deanei (1, 3%), Acacia disparrima subsp. disparrima (3, 3%), Acacia nesophila (3%), Alphitonia excelsa (3%), Breynia oblongifolia (3%), Capparis canescens (3%), Clerodendrum floribundum (3%), Corymbia erythrophloia (3%), Cryptostegia grandiflora\* (3%), Cycas media (3, 3%), Gomphocarpus physocarpus\* (3%), Grewia retusifolia (3%), Lantana camara\* (5, 3%), Macrozamia miquelii (8, 3%), Murraya ovatifoliolata (3%), Persoonia falcata (3%), Sida cordifolia\* (30, 3%), Sida hackettiana (3%), Stachytarpheta jamaicensis\* (3%)*

**Stratum: Ground**

Height avg. = 0.6m, range 0.01-1.5m, 21 sites

PFC avg. = 49.5%, range 7-90%, 22 sites

*Dominant species (relative cover, frequency): Bothriochloa pertusa\* (56, 32%), Themeda triandra (33, 55%), Heteropogon contortus (17, 59%), Cymbopogon refractus (13, 36%), Cenchrus ciliaris\* (13, 23%)*

*Frequent species (cover, frequency): GRAMINOIDS: Heteropogon contortus (7, 59%), Themeda triandra (17, 55%), Panicum effusum (1, 41%), Cymbopogon refractus (9, 36%), Melinis repens\* (1, 36%), Bothriochloa pertusa\* (23, 32%), Scleria mackaviensis (27%), Cenchrus ciliaris\* (7, 23%), Fimbristylis dichotoma (1, 23%), Chrysopogon fallax (1, 18%), Enneapogon lindleyanus (2, 18%), Abildgaardia ovata (14%), Aristida gracilipes (4, 14%), Bothriochloa decipiens (8, 14%), Bothriochloa decipiens var. decipiens (7, 14%), Cyperus fulvus (14%), Cyperus gracilis (2, 14%), Cyperus indet. (1, 14%), Eragrostis indet. (1, 14%), Panicum indet. (14%), Paspalidium gracile (14%), Scleria brownii (1, 14%), Aristida calycina (5, 9%), Aristida indet. (2, 9%), Aristida personata (5, 9%), Aristida queenslandica var. dissimilis (3, 9%), Arundinella nepalensis (7, 9%), Eragrostis brownii (10, 9%), Heteropogon triticeus (3, 9%), Paspalidium distans (13, 9%), Paspalidium indet. (2, 9%)*

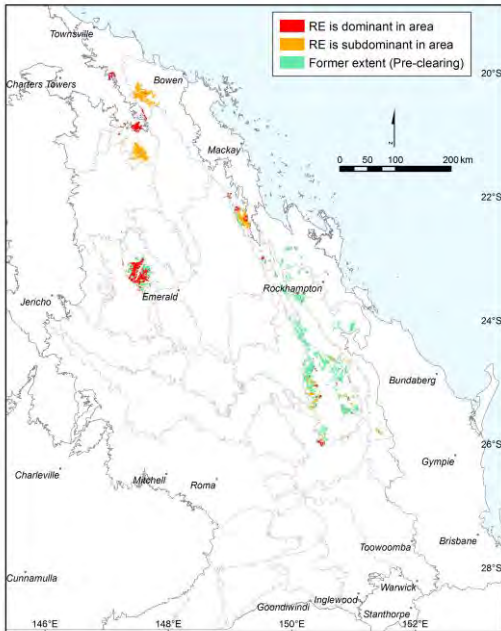
*FORBS: Cyathillium cinereum (59%), Phyllanthus virgatus (55%), Rostellularia adscendens (36%), Evolvulus alsinoides (32%), Galactia tenuiflora (27%), Grewia latifolia (1, 27%), Chamaecrista absus var. absus (23%), Eustrephus latifolius (23%), Indigofera pratensis (23%), Rhynchosia minima (1, 23%), Crotalaria montana (18%), Euphorbia indet. (18%), Grewia retusifolia (1, 18%), Pterocaulon redolens (18%), Sida hackettiana (18%), Spermacoce brachystema (18%), Spermacoce multicaulis (18%), Tephrosia juncea (18%), Alphitonia excelsa (14%), Apowollastonia spilanthis (14%), Breynia oblongifolia (1, 14%), Brunoniella acaulis (14%), Cheilanthes sieberi (14%), Dianella caerulea (14%), Dianella indet. (1, 14%), Emilia sonchifolia\* (1, 14%), Glycine indet. (1, 14%), Glycine tabacina (1, 14%), Indigofera linnaei (14%), Lomandra longifolia (14%), Pterocaulon indet. (14%), Stylosanthes guianensis\* (1, 14%), Stylosanthes indet. (14%), Stylosanthes scabra\* (4, 14%), Zornia indet. (14%), Achyranthes aspera (9%), Alysicarpus ovalifolius\* (9%), Chamaecrista indet. (9%), Chrysocephalum apiculatum (9%), Coelospermum reticulatum (9%), Commelina diffusa (9%), Desmodium campylocaulon (1, 9%), Eremophila debilis (9%), Galactia tenuiflora var. lucida (2, 9%), Glycine tomentella (3, 9%), Indigofera hirsuta (3, 9%), Indigofera linifolia (2, 9%), Ipomoea polymorpha (1, 9%), Lobelia indet. (9%), Melhania oblongifolia (9%), Murdannia graminea (9%), Opercularia diphylla (9%), Oxalis perennans (9%), Parsonsia lanceolata (9%), Peripleura hispidula var. setosa (2, 9%), Praxelis clematidea\* (3, 9%), Solanum ellipticum (9%), Tephrosia filipes (1, 9%), Vittadinia sulcata (9%), Wahlenbergia gracilis (3, 9%)*

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Eucalyptus melanophloia woodland on igneous rocks**



Annie Kelly

**Pre-clearing area (ha), remnant area (ha) and per cent remaining:** 455,169 185,247 41%

**Species\_recorded:** Total: 104; woody: 9; ground: 95; Avg. spp./site: 38.3; std dev.: 3.9, 3 site(s)

**Basal area:** Avg./site: 10.5 m<sup>2</sup>/ha, range: 5.0 - 17 m<sup>2</sup>/ha, std. deviation: 5 m<sup>2</sup>/ha, 4 site(s)

**Structural formation:** Woodland: 75%; low open-woodland: 25%, 4 site(s)

**Representative\_sites** 13969, 16596, 16862, 17652.

**Stratum: Tree 1**

**Height avg. = 14.3m, range 7-20m, 4 sites**  
**Crown cover avg. = 26.0%, range 11.0-38.0%, 4 sites**

*Dominant species (relative cover, frequency): Eucalyptus melanophloia (82, 100%), Corymbia erythrophloia (28, 50%), Alphitonia excelsa (9, 25%), Eucalyptus crebra x E. melanophloia (9, 25%)*

*Frequent species (cover, frequency): Eucalyptus melanophloia (21, 100%), Corymbia erythrophloia (9, 50%), Alphitonia excelsa (1, 25%), Eucalyptus crebra x E. melanophloia (3, 25%)*

**Stratum: Shrub 1**

**Height avg. = 1.8m, range 1-2.5m, 3 sites**  
**Crown cover avg. = 2.7%, range 1.0-5.0%, 3 sites**

*Dominant species (relative cover, frequency): Acacia leiocalyx subsp. leiocalyx (100, 25%), Grewia latifolia (71, 25%), Eucalyptus melanophloia (54, 50%), Hibiscus heterophyllus (7, 25%), Eremophila mitchellii (7, 25%)*

*Frequent species (cover, frequency): Eucalyptus melanophloia (1, 50%), Acacia leiocalyx subsp. leiocalyx (5, 25%), Cassia brewsteri (25%), Eremophila mitchellii (25%), Grewia latifolia (1, 25%), Hibiscus heterophyllus (25%)*

**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Ground**

Height avg. = 0.5m, range 0.45-0.6m, 3 sites

PFC avg. = 66.7%, range 40-90%, 3 sites

*Dominant species (relative cover, frequency):* *Aristida personata* (38, 33%), *Tripogon loliiformis* (31, 33%), *Eragrostis brownii* (31, 33%), *Heteropogon contortus* (25, 100%), *Themeda triandra* (19, 67%)

*Frequent species (cover, frequency): GRAMINOIDS:* *Cymbopogon refractus* (4, 100%), *Heteropogon contortus* (13, 100%), *Arundinella nepalensis* (5, 67%), *Chloris divaricata* (67%), *Cyperus gracilis* (2, 67%), *Themeda triandra* (17, 67%), *Abildgaardia ovata* (33%), *Aristida calycina* var. *calycina* (1, 33%), *Aristida personata* (35, 33%), *Aristida queenslandica* (33%), *Bothriochloa bladhii* subsp. *bladhii* (33%), *Bothriochloa bladhii* subsp. *glabra*\* (2, 33%), *Bothriochloa decipiens* var. *decipiens* (5, 33%), *Cymbopogon queenslandicus* (33%), *Cyperus fulvus* (33%), *Cyperus polystachyos* (33%), *Digitaria bicornis* (33%), *Digitaria hystrichoides* (33%), *Echinopogon ovatus* (33%), *Enneapogon lindleyanus* (33%), *Eragrostis brownii* (20, 33%), *Eragrostis leptocarpa* (33%), *Eragrostis sororia* (33%), *Eulalia aurea* (33%), *Fimbristylis dichotoma* (33%), *Melinis repens*\* (4, 33%), *Panicum decompositum* (5, 33%), *Panicum effusum* (33%), *Panicum simile* (1, 33%), *Paspalidium caespitosum* (33%), *Sporobolus creber* (33%), *Tripogon loliiformis* (20, 33%)

*FORBS:* *Sida hackettiana* (100%), *Brunoniella australis* (67%), *Cheilanthes sieberi* (67%), *Cyanthillium cinereum* (67%), *Dianella caerulea* (67%), *Murdannia graminea* (67%), *Oxalis perennans* (67%), *Phyllanthus virgatus* (67%), *Rhynchosia minima* (67%), *Boerhavia dominii* (33%), *Breynia oblongifolia* (33%), *Calotis cuneata* (33%), *Cheilanthes distans* (33%), *Chrysocephalum apiculatum* (33%), *Commelina* *indet.* (33%), *Desmodium rhytidophyllum* (33%), *Desmodium varians* (33%), *Drosera* *indet.* (33%), *Einadia hastata* (33%), *Eremophila debilis* (33%), *Euphorbia psammogeton* (33%), *Eustrephus latifolius* (33%), *Evolvulus alsinoides* (33%), *Glossocardia bidens* (33%), *Glycine tabacina* (33%), *Glycine tomentella* (33%), *Goodenia* *indet.* (33%), *Haloragis heterophylla* (33%), *Hypericum gramineum* (33%), *Indigofera* *indet.* (33%), *Jacksonia scoparia* (33%), *Lagenophora gracilis* (33%), *Lepidium africanum*\* (33%), *Leucopogon trichostylus* (33%), *Lobelia purpurascens* (33%), *Malvastrum americanum* var. *americanum*\* (33%), *Marsdenia viridiflora* (33%), *Mentha satuireioides* (33%), *Opuntia stricta*\* (33%), *Opuntia tomentosa*\* (33%), *Oxalis* *indet.* (33%), *Portulaca oleracea*\* (33%), *Psydrax odorata* forma *buxifolia* (33%), *Pterocaulon redolens* (33%), *Rostellularia adscendens* (33%), *Rostellularia adscendens* subsp. *adscendens* (33%), *Solanum nemophilum* (33%), *Sonchus oleraceus*\* (33%), *Stackhousia muricata* (33%), *Tephrosia filipes* (33%), *Verbena litoralis*\* (33%), *Veronica plebeia* (33%), *Vittadinia sulcata* (33%), *Zornia muriculata* (33%)

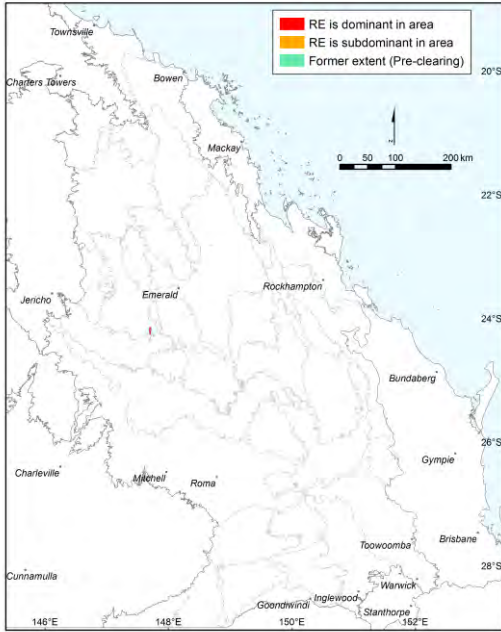
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**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Eucalyptus melanophloia and/or E. orgadophila +/- Corymbia erythrophloia woodland**



Annie Kelly

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 4,495 3,481 77%

Species\_recorded: Total: 10; woody: 3; ground: 7; Average species per site and standard deviation not available

Basal area: Avg./site: 8.0 m<sup>2</sup>/ha, range: 8.0 - 8 m<sup>2</sup>/ha, std. deviation: 0 m<sup>2</sup>/ha, 1 site(s)

Structural formation: Woodland: 100%, 1 site(s)

Representative\_sites 16896.

**Stratum: Tree 1**

Height avg. = 18.0m, 1 site

Crown cover avg. = 20.0%, 1 site

Dominant species (relative cover, frequency): *Eucalyptus orgadophila* (100, 100%)

Frequent species (cover, frequency): *Eucalyptus orgadophila* (20, 100%)

**Stratum: Tree 2**

Height avg. = 8.0m, 1 site

Crown cover avg. = 10.0%, 1 site

Dominant species (relative cover, frequency): *Eucalyptus melanophloia* (60, 100%), *Eucalyptus orgadophila* (20, 100%), *Corymbia erythrophloia* (20, 100%)

Frequent species (cover, frequency): *Corymbia erythrophloia* (2, 100%), *Eucalyptus melanophloia* (6, 100%), *Eucalyptus orgadophila* (2, 100%)

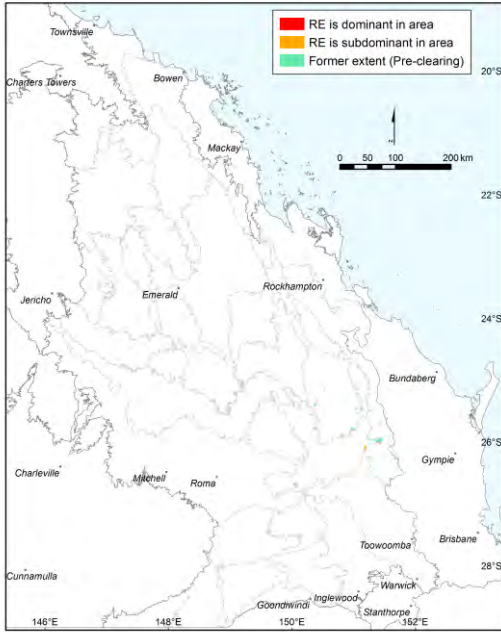
Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus



**Eucalyptus moluccana woodland**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 4,160 879 21%

Species\_recorded: Total: 28; woody: 3; ground: 25; Avg. spp./site: 28.0; std dev.: 0.0, 1 site(s)

Basal area: Avg./site: 15.0 m<sup>2</sup>/ha, range: 15.0 - 15 m<sup>2</sup>/ha, std. deviation: 0 m<sup>2</sup>/ha, 1 site(s)

Structural formation: Woodland: 100%, 1 site(s)

Representative\_sites 16576.

**Stratum: Tree 1**

Height avg. = 20.0m, 1 site

Crown cover avg. = 35.0%, 1 site

Dominant species (relative cover, frequency): *Eucalyptus moluccana* (86, 100%), *Eucalyptus crebra* (14, 100%)

Frequent species (cover, frequency): *Eucalyptus crebra* (5, 100%), *Eucalyptus moluccana* (30, 100%)

**Stratum: Tree 2**

Height avg. = 6.0m, 1 site

Crown cover avg. = 3.0%, 1 site

Dominant species (relative cover, frequency): *Eucalyptus moluccana* (97, 100%), *Eucalyptus crebra* (3, 100%)

Frequent species (cover, frequency): *Eucalyptus crebra* (100%), *Eucalyptus moluccana* (4, 100%)

**Stratum: Shrub 1**

Height avg. = 1.8m, 1 site

Crown cover avg. = 2.0%, 1 site

Dominant species (relative cover, frequency): *Acacia leiocalyx subsp. leiocalyx* (91, 100%), *Eucalyptus moluccana* (9, 100%)

Frequent species (cover, frequency): *Acacia leiocalyx subsp. leiocalyx* (1, 100%), *Eucalyptus moluccana* (100%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Ground**

Height avg. = 0.3m, 1 site

PFC avg. = 55.0%, 1 site

*Dominant species (relative cover, frequency): Eragrostis spartinoides (14, 100%), Chloris truncata (14, 100%), Cyperus gracilis (11, 100%), Panicum simile (11, 100%), Eragrostis sororia (11, 100%)*

*Frequent species (cover, frequency): GRAMINOIDS: Aristida calycina (2, 100%), Carex inversa (100%), Chloris truncata (10, 100%), Cymbopogon refractus (5, 100%), Cyperus fulvus (2, 100%), Cyperus gracilis (8, 100%), Digitaria hystrioides (100%), Dinebra decipiens var. decipiens (100%), Eragrostis sororia (8, 100%), Eragrostis spartinoides (10, 100%), Fimbristylis dichotoma (5, 100%), Heteropogon contortus (5, 100%), Melinis repens\* (2, 100%), Panicum simile (8, 100%), Paspalidium indet. (100%), Tragus australianus (100%)*

*FORBS: Alphitonia excelsa (100%), Callitris glaucophylla (100%), Evolvulus alsinoides (2, 100%), Glycine microphylla (100%), Murdannia graminea (100%), Notoleptopus decaisnei (100%), Opuntia stricta\* (100%), Phyllanthus virgatus (100%), Sida trichopoda (2, 100%)*

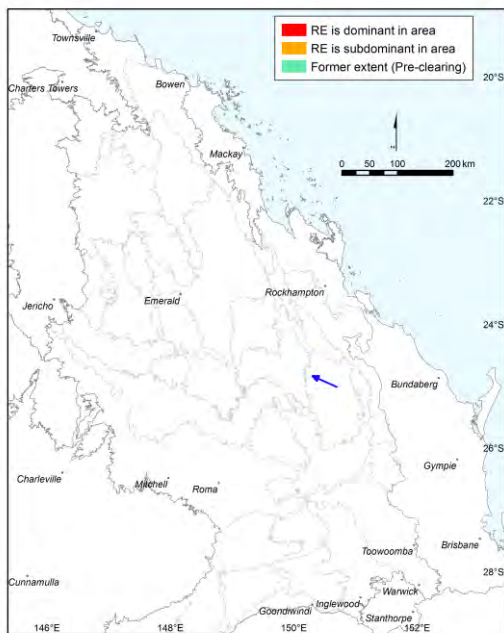
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Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

Dichanthium grassland +/- scattered E. melanophloia, E. orgadophila or Corymbia erythrophloia



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 5,502 216 4%

Species\_recorded: Total: 37; woody: 3; ground: 34; Avg. spp./site: 15.0; std dev.: 0.0, 2 site(s)

Basal area: Avg./site: 8.0 m<sup>2</sup>/ha, range: 8.0 - 8 m<sup>2</sup>/ha, std. deviation: 0 m<sup>2</sup>/ha, 1 site(s)

Structural formation: Woodland: 33%; tussock grassland: 33%; open-tussock grassland: 33%, 3 site(s)

Representative\_sites 17496, 19082, 19100.

**Stratum: Tree 1**

Height avg. = 19.0m, 1 site

Crown cover avg. = 28.0%, 1 site

Dominant species (relative cover, frequency): *Corymbia tessellaris* (100, 33%)

Frequent species (cover, frequency): *Corymbia tessellaris* (28, 33%)

**Stratum: Shrub 1**

Height avg. = 1.4m, range 1-1.8m, 2 sites

Crown cover avg. = 2.0%, range 2.0-2.0%, 2 sites

Dominant species (relative cover, frequency): *Vachellia farnesiana*\* (100, 33%), *Grewia retusifolia* (100, 33%)

Frequent species (cover, frequency): *Grewia retusifolia* (33%), *Vachellia farnesiana*\* (2, 33%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Ground****Height avg. = 0.7m, range 0.5-0.9m, 2 sites****PFC avg. = 22.5%, range 20-25%, 2 sites**

*Dominant species (relative cover, frequency):* *Cyperus bifax* (87, 50%), *Bothriochloa pertusa*\* (38, 100%), *Gomphrena celosioides*\* (10, 50%), *Cyperus squarrosus* (5, 50%), *Fimbristylis indet.* (5, 50%)

*Frequent species (cover, frequency): GRAMINOIDS:* *Bothriochloa pertusa*\* (8, 100%), *Cyperus bifax* (20, 50%), *Cyperus squarrosus* (1, 50%), *Dichanthium fecundum* (50%), *Eragrostis indet.* (50%), *Eriochloa procera* (50%), *Eulalia aurea* (50%), *Fimbristylis indet.* (1, 50%), *Ophiuros exaltatus* (50%)

*FORBS:* *Camptacra barbata* (50%), *Chamaecrista mimosoides* (50%), *Commelina indet.* (50%), *Glycine indet.* (50%), *Gomphrena celosioides*\* (2, 50%), *Hibiscus indet.* (50%), *Indigofera linnaei* (50%), *Ipomoea polymorpha* (50%), *Neptunia gracilis* (1, 50%), *Neptunia indet.* (50%), *Pimelea haematostachya* (50%), *Rhynchosia minima var. australis* (50%), *Sesbania indet.* (1, 50%), *Spermacoce indet.* (50%), *Vigna indet.* (50%), *Zornia muriculata subsp. angustata* (50%)

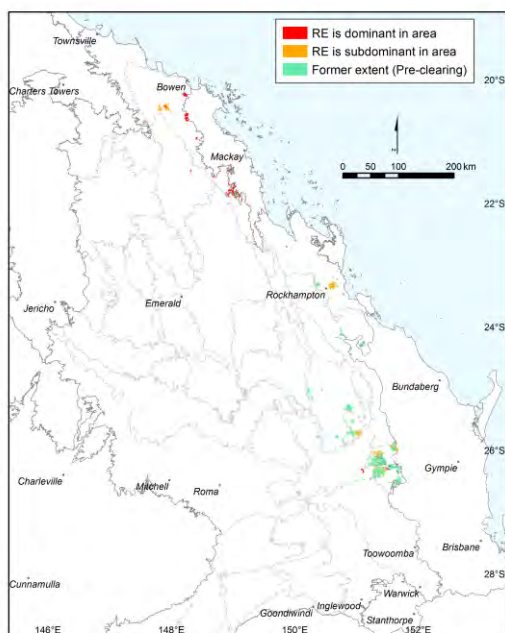
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**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Eucalyptus crebra, E. tereticornis, Angophora leiocarpa woodland on igneous rocks especially granite**



**Pre-clearing area (ha), remnant area (ha) and per cent remaining:** 158,098 55,734 35%

**Species\_recorded:** Total: 149; woody: 30; ground: 129; Avg. spp./site: 36.4; std dev.: 8.5, 5 site(s)

**Basal area:** Avg./site: 13.0 m<sup>2</sup>/ha, range: 8.5 - 20 m<sup>2</sup>/ha, std. deviation: 4 m<sup>2</sup>/ha, 8 site(s)

**Structural formation:** Woodland: 50%; open-woodland: 50%, 8 site(s)

**Representative\_sites** 14846, 15770, 15772, 15933, 16627, 16647, 16648, 19232.

**Stratum: Emergent**

Height avg. = 24.5m, 1 site

Crown cover avg. = 6.0%, 1 site

Frequent species (cover, frequency): *Eucalyptus tereticornis* (6, 13%)

**Stratum: Tree 1**

Height avg. = 16.3m, range 10-24.5m, 8 sites

Crown cover avg. = 21.8%, range 12.0-35.0%, 8 sites

Dominant species (relative cover, frequency): *Eucalyptus crebra* (38, 88%), *Eucalyptus tereticornis* (37, 75%), *Angophora leiocarpa* (36, 25%), *Corymbia clarksoniana* (34, 50%), *Eucalyptus melanophloia* (34, 25%)

Frequent species (cover, frequency): *Eucalyptus crebra* (9, 88%), *Eucalyptus tereticornis* (8, 75%), *Corymbia clarksoniana* (5, 50%), *Angophora leiocarpa* (11, 25%), *Corymbia tessellaris* (2, 25%), *Eucalyptus melanophloia* (10, 25%), *Angophora subvelutina* (13%), *Eucalyptus melliodora* (13%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Tree 2**

Height avg. = 10.9m, range 7-14.5m, 5 sites

Crown cover avg. = 12.9%, range 2.0-35.0%, 7 sites

Dominant species (relative cover, frequency): *Angophora leiocarpa* (47, 25%), *Eucalyptus melanophloia* (47, 25%), *Corymbia clarksoniana* (41, 63%), *Corymbia tessellaris* (28, 25%), *Eucalyptus tereticornis* (26, 63%)

Frequent species (cover, frequency): *Corymbia clarksoniana* (7, 63%), *Eucalyptus tereticornis* (1, 63%), *Eucalyptus crebra* (2, 50%), *Angophora leiocarpa* (11, 25%), *Corymbia tessellaris* (5, 25%), *Eucalyptus melanophloia* (2, 25%), *Angophora subvelutina* (3, 13%), *Drynaria rigidula* (13%)

**Stratum: Tree 3**

Crown cover avg. = 8.7%, range 2.0-12.0%, 3 sites

Dominant species (relative cover, frequency): *Corymbia clarksoniana* (44, 38%), *Petalostigma pubescens* (36, 25%), *Eucalyptus crebra* (26, 25%), *Angophora leiocarpa* (22, 25%)

Frequent species (cover, frequency): *Corymbia clarksoniana* (5, 38%), *Angophora leiocarpa* (3, 25%), *Eucalyptus crebra* (1, 25%), *Petalostigma pubescens* (3, 25%)

**Stratum: Shrub 1**

Height avg. = 2.9m, range 1.2-5m, 5 sites

Crown cover avg. = 5.5%, range 0.0-23.0%, 8 sites

Dominant species (relative cover, frequency): *Acacia leiocalyx subsp. leiocalyx* (50, 38%), *Eucalyptus melanophloia* (35, 25%), *Jacksonia scoparia* (34, 25%), *Petalostigma pubescens* (25, 38%), *Acacia implexa* (15, 25%)

Frequent species (cover, frequency): *Acacia leiocalyx subsp. leiocalyx* (8, 38%), *Eucalyptus crebra* (38%), *Petalostigma pubescens* (1, 38%), *Acacia implexa* (1, 25%), *Eucalyptus melanophloia* (1, 25%), *Eucalyptus tereticornis* (25%), *Jacksonia scoparia* (3, 25%), *Acacia maidenii* (13%), *Angophora leiocarpa* (2, 13%), *Corymbia clarksoniana* (1, 13%), *Corymbia tessellaris* (1, 13%), *Dodonaea viscosa subsp. viscosa* (2, 13%), *Exocarpos cupressiformis* (1, 13%), *Grewia retusifolia* (13%), *Lophostemon confertus* (13%), *Melaleuca nervosa* (13%), *Sida hackettiana* (1, 13%), *Xanthorrhoea glauca* (6, 13%), *Xanthorrhoea latifolia* (13%)

**Stratum: Shrub 2**

Height avg. = 1.2m, range 1.1-1.2m, 2 sites

Crown cover avg. = 3.5%, range 3.0-4.0%, 2 sites

Frequent species (cover, frequency): *Acacia maidenii* (13%), *Alphitonia excelsa* (13%), *Bridelia leichhardtii* (13%), *Diospyros geminata* (13%), *Eucalyptus tereticornis* (13%), *Gomphocarpus physocarpus\** (13%), *Hibiscus heterophyllus* (13%), *Macrozamia miquelii* (3, 13%), *Mallotus philippensis* (13%), *Planchonella pohlmiana* (13%), *Xanthorrhoea glauca* (4, 13%), *Xanthorrhoea latifolia* (1, 13%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Ground**

Height avg. = 0.4m, range 0.2-0.6m, 5 sites

PFC avg. = 43.6%, range 12-95%, 5 sites

*Dominant species (relative cover, frequency): Themeda triandra (23, 80%), Heteropogon contortus (21, 80%), Melinis repens\* (19, 80%), Arundinella nepalensis (10, 80%), Cymbopogon refractus (7, 60%)*

*Frequent species (cover, frequency): GRAMINOIDS: Arundinella nepalensis (3, 80%), Heteropogon contortus (5, 80%), Melinis repens\* (5, 80%), Themeda triandra (22, 80%), Cymbopogon refractus (2, 60%), Cyperus gracilis (1, 60%), Aristida calycina var. praealta (40%), Chrysopogon fallax (2, 40%), Cyperus fulvus (40%), Eragrostis spartinoides (1, 40%), Panicum simile (40%), Paspalidium distans (40%), Abildgaardia ovata (20%), Aristida calycina (20%), Aristida calycina var. calycina (20%), Aristida contorta (1, 20%), Aristida holathera var. holathera (2, 20%), Aristida indet. (20%), Aristida spuria (20%), Capillipedium spicigerum (20%), Chloris truncata (20%), Cymbopogon queenslandicus (5, 20%), Cyperus indet. (20%), Dichanthium sericeum subsp. sericeum (20%), Digitaria breviglumis (20%), Dinebra decipiens (1, 20%), Enneapogon intermedius (20%), Enneapogon polyphyllus (20%), Enteropogon indet. (20%), Eragrostis leptocarpa (1, 20%), Eragrostis sororia (25, 20%), Fimbristylis dichotoma (20%), Gahnia aspera (20%), Melinis minutiflora\* (5, 20%), Oplismenus aemulus (20%), Perotis rara (20%), Schizachyrium fragile (20%), Sporobolus creber (20%)*

*FORBS: Glycine tomentella (80%), Cyanthillium cinereum (60%), Opuntia stricta\* (60%), Alphitonia excelsa (40%), Cheilanthes sieberi (40%), Chrysocephalum apiculatum (1, 40%), Desmodium varians (40%), Glycine tabacina (40%), Lomandra leucocephala subsp. leucocephala (40%), Oxalis perennans (40%), Portulaca pilosa\* (40%), Wahlenbergia graniticola (1, 40%), Achyranthes aspera (20%), Alternanthera nana (20%), Anisomeles indet. (20%), Apowollastonia spilanthoides (20%), Brachychiton populneus (20%), Brachyscome microcarpa (20%), Breynia oblongifolia (20%), Brunoniella australis (20%), Cassinia laevis (20%), Centipeda minima (20%), Chamaecrista indet. (20%), Chamaecrista nomame var. nomame (20%), Clematicissus opaca (20%), Clerodendrum floribundum (20%), Commelina lanceolata (20%), Crotalaria montana (20%), Cupaniopsis parvifolia (20%), Cyclophyllum coprosmoides (20%), Desmodium rhytidophyllum (20%), Dianella brevipedunculata (20%), Dianella caerulea (20%), Dodonaea lanceolata (20%), Emilia sonchifolia\* (20%), Euechiton sphaericus (20%), Euphorbia drummondii (20%), Euphorbia indet. (20%), Eustrephus latifolius (20%), Evolvulus alsinoides (20%), Flemingia parviflora (20%), Galactia tenuiflora (20%), Glycine clandestina (20%), Glycine clandestina var. clandestina (20%), Gomphocarpus physocarpus\* (20%), Grewia latifolia (20%), Grewia retusifolia (20%), Hibiscus heterophyllus (20%), Indigofera hirsuta (20%), Indigofera pratensis (20%), Jasminum didymum (20%), Jasminum simplicifolium subsp. australiense (20%), Laxmannia gracilis (20%), Lobelia purpurascens (20%), Lomandra indet. (20%), Lomandra leucocephala (20%), Lomandra longifolia (20%), Macroptilium atropurpureum\* (20%), Melaleuca nervosa (20%), Murdannia graminea (20%), Peripleura hispidula var. hispidula (20%), Phyllanthus virgatus (20%), Richardia brasiliensis\* (20%), Rostellularia adscendens (20%), Secamone elliptica (20%), Sida cordifolia\* (20%), Sida indet. (20%), Solanum ellipticum (20%), Solanum stelligerum (20%), Spermacoce brachystema (20%), Spermacoce multicaulis (20%), Tephrosia rufula (20%), Vernonia indet. (20%), Waltheria indica (20%), Xanthorrhoea glauca (20%), Zornia muelleriana (20%)*

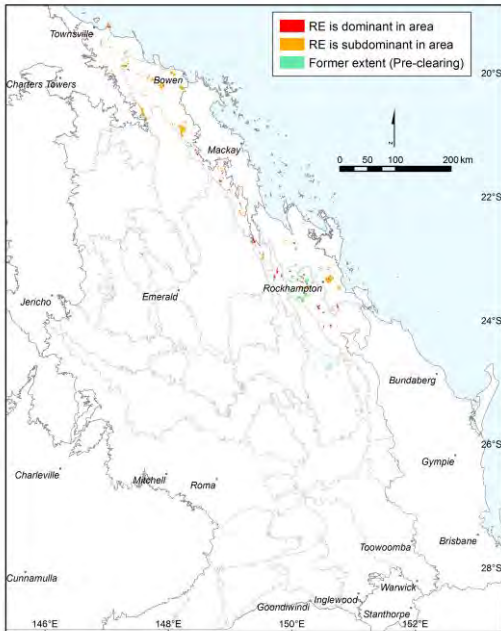
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**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

Semi-evergreen vine thicket and microphyll vine forest on igneous rocks



Annie Kelly

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 98,323 55,916 57%

Species\_recorded: Total: 168; woody: 117; ground: 65; Avg. spp./site: 43.4; std dev.: 10.5, 5 site(s)

Basal area: Avg./site: 16.5 m<sup>2</sup>/ha, range: 7.0 - 26 m<sup>2</sup>/ha, std. deviation: 10 m<sup>2</sup>/ha, 2 site(s)

Structural formation: Closed-forest: 67%; woodland: 17%; unrecorded: 17%, 6 site(s)

Representative\_sites 14843, 17081, 26556, 28941, 40684, 40704.

**Stratum: Emergent**

Height avg. = 25.0m, range 18-32m, 2 sites

Crown cover avg. = 3.5%, range 2.0-5.0%, 2 sites

Frequent species (cover, frequency): *Araucaria cunninghamii* var. *cunninghamii* (5, 17%), *Casuarina cristata* (17%), *Flindersia collina* (1, 17%)

**Stratum: Tree 1**

Height avg. = 13.7m, range 11-17m, 6 sites

Crown cover avg. = 65.7%, range 20.0-84.0%, 6 sites

Dominant species (relative cover, frequency): *Gyrocarpus americanus* (39, 33%), *Euroschinus falcatus* (19, 33%), *Drypetes deplanchei* (14, 33%), *Archidendropsis thozetiana* (11, 50%), *Terminalia porphyrocarpa* (11, 50%)

Frequent species (cover, frequency): *Brachychiton australis* (4, 67%), *Archidendropsis thozetiana* (5, 50%), *Terminalia porphyrocarpa* (8, 50%), *Drypetes deplanchei* (11, 33%), *Elattostachys xylocarpa* (1, 33%), *Euroschinus falcatus* (15, 33%), *Gyrocarpus americanus* (26, 33%), *Pleiogynium timorense* (2, 33%), *Polyscias elegans* (2, 33%), *Sterculia quadrifida* (1, 33%), *Acacia fasciculifera* (1, 17%), *Alectryon diversifolius* (2, 17%), *Araucaria cunninghamii* var. *cunninghamii* (80, 17%), *Bosistoia transversa* (1, 17%), *Croton insularis* (6, 17%), *Cupaniopsis anacardioides* (2, 17%), *Dinosperma melanophloia* (4, 17%), *Diospyros geminata* (1, 17%), *Dissiliaria muelleri* (45, 17%), *Eucalyptus crebra* (3, 17%), *Excoecaria dallachyana* (2, 17%), *Ficus rubiginosa* (4, 17%), *Flindersia collina* (6, 17%), *Geijera parviflora* (14, 17%), *Hernandia bivalvis* (17%), *Owenia venosa* (10, 17%), *Planchonella cotinifolia* (22, 17%), *Planchonella pohlmaniana* (1, 17%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus



**Stratum: Tree 2**

Height avg. = 6.9m, range 5-11m, 5 sites

Crown cover avg. = 15.7%, range 4.0-48.5%, 5 sites

Dominant species (relative cover, frequency): *Strychnos psilosperma* (24, 50%), *Gossia bidwillii* (24, 33%)

Frequent species (cover, frequency): *Strychnos psilosperma* (2, 50%), *Gossia bidwillii* (1, 33%), *Acacia disparrima* subsp. *disparrima* (17%), *Acronychia laevis* (1, 17%), *Alectryon diversifolius* (2, 17%), *Alphitonia excelsa* (1, 17%), *Apophyllum anomalum* (1, 17%), *Atalaya salicifolia* (1, 17%), *Canarium australianum* (2, 17%), *Capparis arborea* (17%), *Corymbia tessellaris* (1, 17%), *Croton insularis* (6, 17%), *Deeringia amaranthoides* (1, 17%), *Denhamia disperma* (17%), *Denhamia pittosporoides* subsp. *pittosporoides* (1, 17%), *Diospyros humilis* (1, 17%), *Drypetes deplanchei* (17%), *Elaeodendron australe* (1, 17%), *Everistia vacciniifolia* (1, 17%), *Excoecaria dallachyana* (2, 17%), *Ficus obliqua* (1, 17%), *Ficus virens* var. *virens* (1, 17%), *Flueggea leucopyrus* (1, 17%), *Geijera salicifolia* (1, 17%), *Hernandia bivalvis* (1, 17%), *Mallotus philippensis* (1, 17%), *Melia azedarach* (1, 17%), *Notelaea microcarpa* (1, 17%), *Pandanus cookii* (1, 17%), *Passiflora aurantia* (17%), *Petalostigma pubescens* (1, 17%), *Planchonella cotinifolia* (1, 17%), *Psydrax odorata* (1, 17%), *Terminalia porphyrocarpa* (3, 17%)

**Stratum: Tree 3**

Height avg. = 5.0m, range 4-6m, 2 sites

Crown cover avg. = 20.0%, range 5.0-35.0%, 2 sites

Frequent species (cover, frequency): *Acalypha eremorum* (1, 17%), *Actephila sessilifolia* (1, 17%), *Alyxia ruscifolia* (1, 17%), *Atalaya multiflora* (1, 17%), *Bursaria incana* (1, 17%), *Elaeodendron melanocarpum* (1, 17%), *Erythroxylum* sp. (*Splityard Creek L.Pedley 5360*) (1, 17%), *Euroschinus falcatus* (1, 17%), *Mallotus philippensis* (1, 17%), *Opuntia tomentosa*\* (1, 17%), *Pachygone ovata* (1, 17%), *Pleiogynium timorense* (1, 17%), *Sersalisia sericea* (1, 17%)

**Stratum: Shrub 1**

Height avg. = 1.8m, range 1-2.5m, 6 sites

Crown cover avg. = 14.2%, range 1.0-25.0%, 6 sites

Dominant species (relative cover, frequency): *Diospyros geminata* (25, 33%), *Psydrax odorata* (22, 33%), *Drypetes deplanchei* (17, 33%), *Jasminum simplicifolium* subsp. *australiense* (9, 33%), *Lantana camara*\* (8, 33%)

Frequent species (cover, frequency): *Carissa ovata* (50%), *Strychnos psilosperma* (1, 50%), *Abutilon oxycarpum* (1, 33%), *Acalypha eremorum* (33%), *Arytera divaricata* (33%), *Diospyros geminata* (3, 33%), *Drypetes deplanchei* (1, 33%), *Geijera salicifolia* (33%), *Jasminum simplicifolium* subsp. *australiense* (33%), *Lantana camara*\* (2, 33%), *Planchonella cotinifolia* (33%), *Psydrax odorata* (3, 33%), *Solanum seaforthianum*\* (2, 33%), *Abutilon micropetalum* (8, 17%), *Acronychia pauciflora* (17%), *Aidia racemosa* (1, 17%), *Alchornea ilicifolia* (17%), *Alyxia ruscifolia* (17%), *Capparis arborea* (17%), *Capparis loranthifolia* (17%), *Capparis mitchellii* (1, 17%), *Capparis sarmentosa* (1, 17%), *Clematicissus opaca* (1, 17%), *Cordyline murchisoniae* (1, 17%), *Croton acronychioides* (17%), *Deeringia amaranthoides* (1, 17%), *Dendrocnide photinophylla* (17%), *Dinosperma melanophloia* (17%), *Dockrillia bowmanii* (17%), *Drynaria sparsisora* (1, 17%), *Erythroxylum australe* (17%), *Eugenia reinwardtiana* (2, 17%), *Excoecaria dallachyana* (1, 17%), *Exocarpos latifolius* (17%), *Flueggea leucopyrus* (1, 17%), *Glossocarya hemiderma* (17%), *Gossia bidwillii* (17%), *Grewia scabrella* (17%), *Hibiscus sturtii* (1, 17%), *Hibiscus vitifolius* (1, 17%), *Medicosma cunninghamii* (17%), *Melodorum leichhardtii* (1, 17%), *Microsorium punctatum* (1, 17%), *Murraya ovatifoliolata* (17%), *Myrsine variabilis* (1, 17%), *Olearia canescens* (17%), *Pandorea pandorana* (17%), *Parsonsia longipetiolata* (17%), *Parsonsia velutina* (17%), *Phyllanthus novae-hollandiae* (2, 17%), *Pipturus argenteus* (1, 17%), *Platyserium veitchii* (1, 17%), *Plectranthus graveolens* (1, 17%), *Rivina humilis*\* (1, 17%), *Secamone elliptica* (17%), *Sida hackettiana* (1, 17%), *Solanum furfuraceum* (17%), *Streblus brunonianus* (1, 17%), *Tetrastigma nitens* (1, 17%), *Tinospora smilacina* (17%), *Turraea pubescens* (1, 17%)

**Stratum: Shrub 2**

Height avg. = 0.8m, range 0.7-0.8m, 2 sites

Crown cover avg. = 12.0%, range 6.0-18.0%, 2 sites

Dominant species (relative cover, frequency): *Rivina humilis*\* (61, 33%)

Frequent species (cover, frequency): *Rivina humilis*\* (5, 33%), *Malvastrum americanum* (17%), *Phyllanthus subcrenulatus* (17%), *Psychotria daphnoides* (17%), *Solanum seaforthianum*\* (3, 17%), *Teucrium* sp. (*Ormeau G.Leiper AQ476858*) (10, 17%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Ground**

Height avg. = 0.4m, range 0.3-0.5m, 5 sites

PFC avg. = 5.8%, range 4-8%, 5 sites

*Dominant species (relative cover, frequency):* *Ancistrachne uncinulata* (29, 60%), *Smilax australis* (10, 40%), *Solanum seaforthianum*\* (7, 40%), *Jasminum didymum* (5, 40%), *Oplismenus aemulus* (5, 60%)

*Frequent species (cover, frequency):* GRAMINOIDS: *Ancistrachne uncinulata* (1, 60%), *Oplismenus aemulus* (60%), *Aristida indet.* (5, 20%), *Cymbopogon refractus* (1, 20%), *Cyperus gracilis* (1, 20%), *Cyperus javanicus* (1, 20%), *Enteropogon unispiceus* (20%), *Eragrostis speciosa* (1, 20%), *Panicum trichoides* (1, 20%), *Paspalidium indet.* (20%), *Scleria brownii* (1, 20%), *Scleria mackaviensis* (1, 20%), *Setaria dielsii* (5, 20%), *Setaria indet.* (1, 20%)

FORBS: *Doryopteris concolor* (40%), *Jasminum didymum* (40%), *Jasminum didymum subsp. racemosum* (40%), *Smilax australis* (1, 40%), *Solanum seaforthianum*\* (40%), *Adiantum hispidulum* (20%), *Ageratum conyzoides*\* (20%), *Aneilema acuminatum* (20%), *Anisomeles indet.* (20%), *Aristolochia pubera var. pubera* (20%), *Austrosteenisia blackii* (20%), *Breynia oblongifolia* (20%), *Cheilanthes distans* (20%), *Cheilanthes sieberi* (20%), *Cissus oblonga* (20%), *Cissus repens* (1, 20%), *Clematicissus opaca* (20%), *Croton phebaloides* (20%), *Cynanchum viminalis* (1, 20%), *Dioscorea transversa* (20%), *Drypetes deplanchei* (20%), *Euphorbia hirta*\* (20%), *Flueggea leucopyrus* (20%), *Glossocarya hemiderma* (20%), *Hoya australis* (20%), *Legnephora moorei* (20%), *Malvastrum americanum* (20%), *Pandorea pandorana* (20%), *Pellaea paradoxa* (20%), *Phyllanthus novae-hollandiae* (20%), *Pleiogynium timorense* (20%), *Proiphys cunninghamii* (20%), *Pseuderanthemum variabile* (20%), *Psydrax odorata forma buxifolia* (20%), *Sarcochilus hillii* (20%), *Secamone elliptica* (20%), *Sida sp.* (Greenvale R.J.Fensham 1150) (20%), *Solanum furfuraceum* (20%), *Solanum indet.* (20%), *Solanum parvifolium* (20%), *Solanum stelligerum* (1, 20%), *Terminalia porphyrocarpa* (20%), *Teucrium sp.* (Ormeau G.Leiper AQ476858) (20%), *Trophis scandens subsp. scandens* (20%), *Turraea pubescens* (20%)

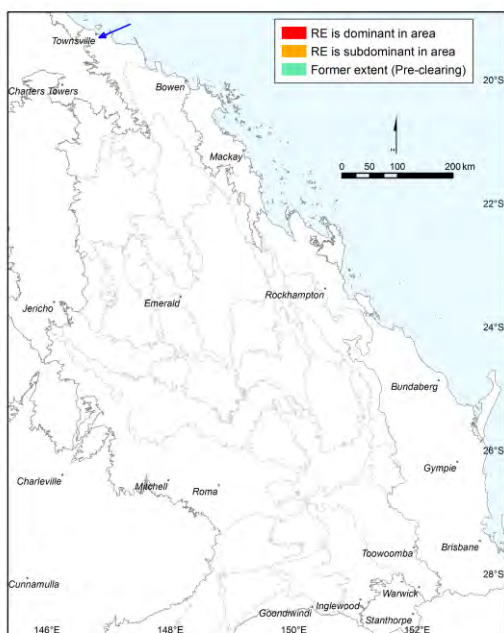
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**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Semi-evergreen vine thicket with open patches of *Acacia fasciculifera*, *Archidendropsis thozetiana*, *Pleiogynium timorense* and various other species**



**Pre-clearing area (ha), remnant area (ha) and per cent remaining:** 1,376 784 57%

**Species\_recorded:** Total: 129; woody: 96; ground: 72; Avg. spp./site: 69.7; std dev.: 4.9, 3 site(s)

**Basal area:** Avg./site: 25.7 m<sup>2</sup>/ha, range: 22.0 - 29 m<sup>2</sup>/ha, std. deviation: 3 m<sup>2</sup>/ha, 3 site(s)

**Structural formation:** Woodland: 67%; low open-forest: 33%, 3 site(s)

**Representative\_sites** 40982, 40984, 47353.

**Stratum: Emergent**

**Height avg. = 17.7m, range 15-20m, 3 sites**

**Crown cover avg. = 8.3%, range 5.0-10.0%, 3 sites**

*Dominant species (relative cover, frequency):* *Backhousia kingii* (90, 67%), *Pleiogynium timorense* (70, 33%), *Geijera salicifolia* (20, 33%), *Brachychiton rupestris* (15, 67%)

*Frequent species (cover, frequency):* *Backhousia kingii* (7, 67%), *Brachychiton rupestris* (2, 67%), *Geijera salicifolia* (2, 33%), *Pleiogynium timorense* (7, 33%)

**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Tree 1**

Height avg. = 12.2m, range 9.5-15m, 3 sites

Crown cover avg. = 41.7%, range 20.0-75.0%, 3 sites

*Dominant species (relative cover, frequency):* *Backhousia kingii* (64, 67%), *Alectryon subdentatus* (15, 33%), *Dendrocnide photinophylla* (13, 33%), *Dinosperma erythroccum* (13, 33%), *Brachychiton rupestris* (12, 33%)

*Frequent species (cover, frequency):* *Trophis scandens subsp. scandens* (1, 100%), *Austrosteenisia blackii var. blackii* (2, 67%), *Backhousia kingii* (16, 67%), *Diospyros geminata* (1, 67%), *Drypetes deplanchei* (1, 67%), *Jasminum simplicifolium subsp. australiense* (1, 67%), *Melodorum leichhardtii* (1, 67%), *Pleiogynium timorense* (67%), *Tinospora smilacina* (1, 67%), *Acronychia laevis* (1, 33%), *Alectryon connatus* (1, 33%), *Alectryon subdentatus* (3, 33%), *Atalaya salicifolia* (5, 33%), *Brachychiton australis* (2, 33%), *Brachychiton rupestris* (3, 33%), *Bridelia leichhardtii* (5, 33%), *Cissus oblonga* (4, 33%), *Coatesia paniculata* (1, 33%), *Cryptocarya triplinervis* (33%), *Dendrocnide photinophylla* (10, 33%), *Denhamia disperma* (8, 33%), *Denhamia pittosporoides subsp. pittosporoides* (2, 33%), *Dinosperma erythroccum* (10, 33%), *Diospyros fasciculosa* (1, 33%), *Dockrillia bowmanii* (33%), *Elaeodendron australe var. integrifolium* (33%), *Elattostachys bidwillii* (2, 33%), *Euroschinus falcatus var. falcatus* (5, 33%), *Excoecaria dallachyana* (2, 33%), *Gossia bidwillii* (1, 33%), *Owenia venosa* (1, 33%), *Parsonsia leichhardtii* (1, 33%), *Parsonsia velutina* (2, 33%), *Planchonella cotinifolia* (8, 33%), *Planchonella myrsinifolia* (1, 33%), *Pyrrosia confluens* (1, 33%), *Pyrrosia rupestris* (33%), *Secamone elliptica* (33%), *Sterculia quadrifida* (33%), *Tetrastigma nitens* (33%)

**Stratum: Tree 2**

Height avg. = 6.5m, range 4.5-8m, 3 sites

Crown cover avg. = 26.7%, range 10.0-40.0%, 3 sites

*Dominant species (relative cover, frequency):* *Coatesia paniculata* (33, 67%), *Backhousia kingii* (27, 67%), *Grevillea helmsiae* (16, 33%), *Cyclophyllum coprosmoides var. coprosmoides* (16, 33%), *Psydrax odorata forma australiana* (13, 67%)

*Frequent species (cover, frequency):* *Cissus oblonga* (1, 100%), *Melodorum leichhardtii* (100%), *Alstonia constricta* (67%), *Austrosteenisia blackii var. blackii* (67%), *Backhousia kingii* (9, 67%), *Coatesia paniculata* (13, 67%), *Croton insularis* (1, 67%), *Dockrillia bowmanii* (67%), *Euroschinus falcatus var. falcatus* (67%), *Gossia bidwillii* (67%), *Jasminum simplicifolium subsp. australiense* (1, 67%), *Parsonsia leichhardtii* (67%), *Parsonsia velutina* (67%), *Psydrax odorata forma australiana* (2, 67%), *Pyrrosia confluens var. confluens* (67%), *Secamone elliptica* (1, 67%), *Tinospora smilacina* (1, 67%), *Trophis scandens subsp. scandens* (1, 67%), *Acronychia laevis* (1, 33%), *Alectryon connatus* (2, 33%), *Alectryon tomentosus* (1, 33%), *Bridelia leichhardtii* (2, 33%), *Bursaria incana* (1, 33%), *Capparis arborea* (33%), *Cayratia acris* (1, 33%), *Croton acronychioides* (33%), *Cryptocarya triplinervis* (1, 33%), *Cyclophyllum coprosmoides var. coprosmoides* (2, 33%), *Denhamia disperma* (1, 33%), *Denhamia pittosporoides subsp. pittosporoides* (1, 33%), *Diospyros geminata* (1, 33%), *Drypetes deplanchei* (1, 33%), *Elaeodendron australe var. integrifolium* (33%), *Elattostachys bidwillii* (1, 33%), *Excoecaria dallachyana* (1, 33%), *Glossocarya hemiderma* (1, 33%), *Grevillea helmsiae* (2, 33%), *Hippocratea barbata* (33%), *Hoya australis subsp. australis* (1, 33%), *Marsdenia microlepis* (33%), *Notelaea microcarpa* (33%), *Parsonsia plaesiophylla* (1, 33%), *Parsonsia rotata* (33%), *Pavetta australiensis var. australiensis* (33%), *Planchonella myrsinifolia* (1, 33%), *Polyscias elegans* (33%), *Siphonodon australis* (1, 33%), *Smilax australis* (33%), *Solanum seaforthianum\** (3, 33%), *Sterculia quadrifida* (1, 33%), *Tetrastigma nitens* (33%), *Turraea pubescens* (1, 33%)

**Stratum: Tree 3**

Height avg. = 4.5m, 1 site

Crown cover avg. = 10.0%, 1 site

*Dominant species (relative cover, frequency):* *Croton acronychioides* (43, 33%), *Solanum seaforthianum\** (21, 33%), *Croton insularis* (21, 33%), *Strychnos pilosperma* (9, 33%), *Psydrax odorata subsp. australiana* (1, 33%)

*Frequent species (cover, frequency):* *Backhousia kingii* (33%), *Cissus oblonga* (33%), *Croton acronychioides* (5, 33%), *Croton insularis* (3, 33%), *Denhamia pittosporoides subsp. pittosporoides* (33%), *Gynochthodes canthoides* (33%), *Parsonsia leichhardtii* (33%), *Passiflora aurantia* (33%), *Psydrax odorata subsp. australiana* (33%), *Solanum seaforthianum\** (3, 33%), *Strychnos pilosperma* (1, 33%)

**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Shrub 1**

Height avg. = 1.8m, range 0.9-2.5m, 3 sites

Crown cover avg. = 31.7%, range 5.0-50.0%, 3 sites

Dominant species (relative cover, frequency): *Acalypha capillipes* (66, 67%), *Alyxia ruscifolia* (25, 67%), *Solanum stelligerum* (17, 33%), *Carissa ovata* (12, 33%), *Pavetta australiensis* var. *australiensis* (9, 33%)

Frequent species (cover, frequency): *Croton acronychioides* (2, 100%), *Acalypha capillipes* (28, 67%), *Alectryon connatus* (67%), *Alyxia ruscifolia* (3, 67%), *Backhousia kingii* (1, 67%), *Capparis arborea* (1, 67%), *Coatesia paniculata* (67%), *Drypetes deplanchei* (67%), *Exocarpos latifolius* (67%), *Gossia bidwillii* (67%), *Polyscias elegans* (67%), *Psydrax odorata* forma *australiana* (1, 67%), *Solanum furfuraceum* (67%), *Triflorensia ixoroides* (67%), *Turraea pubescens* (1, 67%), *Abutilon oxycarpum* (1, 33%), *Abutilon oxycarpum* var. *oxycarpum* (33%), *Acalypha eremorum* (33%), *Alyxia sharpei* (33%), *Bursaria incana* (33%), *Carissa ovata* (5, 33%), *Cayratia acris* (33%), *Clerodendrum floribundum* (33%), *Deeringia amaranthoides* (1, 33%), *Dioscorea transversa* (33%), *Elaeodendron australe* var. *integrifolium* (1, 33%), *Excoecaria dallachyana* (33%), *Geijera salicifolia* (33%), *Glossocarya hemiderma* (1, 33%), *Gynochthodes canthoides* (33%), *Hoya australis* (33%), *Hoya australis* subsp. *australis* (33%), *Jasminum simplicifolium* subsp. *australiense* (1, 33%), *Maclura cochinchinensis* (33%), *Marsdenia pleiadenia* (1, 33%), *Melodorum leichhardtii* (1, 33%), *Myrsine variabilis* (33%), *Notelaea microcarpa* (1, 33%), *Parsonsia leichhardtii* (1, 33%), *Parsonsia velutina* (33%), *Passiflora aurantia* var. *aurantia* (33%), *Pavetta australiensis* var. *australiensis* (1, 33%), *Phyllanthus microcladus* (33%), *Plectorrhiza tridentata* (33%), *Pleiogynium timorense* (33%), *Pleurostylia opposita* (33%), *Psychotria daphnoides* (33%), *Psydrax odorata* subsp. *australiana* (1, 33%), *Pyrrosia confluens* var. *confluens* (33%), *Sarcocylus hillii* (33%), *Secamone elliptica* (33%), *Solanum stelligerum* (1, 33%), *Strychnos psilosperma* (1, 33%), *Synostemon albiflorus* (33%), *Tinospora smilacina* (33%), *Trema tomentosa* (33%), *Vincetoxicum ovatum* (33%)

**Stratum: Ground**

Height avg. = 0.5m, range 0.2-0.9m, 3 sites

PFC avg. = 46.7%, range 20-60%, 3 sites

Dominant species (relative cover, frequency): *Ottochloa gracillima* (48, 33%), *Rivina humilis*\* (29, 100%), *Oplismenus aemulus* (16, 100%), *Commelina indet.* (16, 33%), *Tragia novae-hollandiae* (8, 33%)

Frequent species (cover, frequency): GRAMINOIDS: *Oplismenus aemulus* (6, 100%), *Ancistrachne uncinulata* (67%), *Cyperus gracilis* (67%), *Austrostipa ramosissima* (1, 33%), *Ottochloa gracillima* (30, 33%)

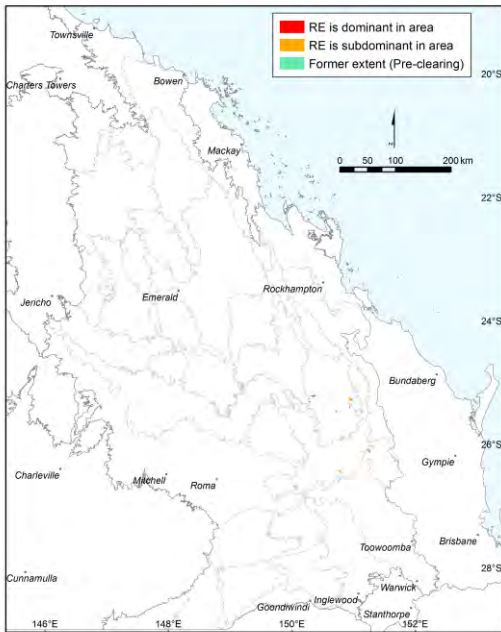
FORBS: *Aneilema acuminatum* (1, 100%), *Dioscorea transversa* (100%), *Diplocyclos palmatus* subsp. *palmatus* (100%), *Geitonoplesium cymosum* (100%), *Rivina humilis*\* (15, 100%), *Smilax australis* (100%), *Zehneria cunninghamii* (1, 100%), *Acalypha capillipes* (2, 67%), *Alectryon connatus* (67%), *Backhousia kingii* (2, 67%), *Capparis sarmentosa* (67%), *Cayratia clematidea* (67%), *Coatesia paniculata* (67%), *Deeringia amaranthoides* (67%), *Jasminum simplicifolium* subsp. *australiense* (67%), *Lantana camara*\* (67%), *Nyssanthus diffusa* (67%), *Parsonsia leichhardtii* (67%), *Parsonsia velutina* (67%), *Passiflora aurantia* var. *aurantia* (67%), *Pseuderanthemum variabile* (67%), *Sigesbeckia orientalis* (67%), *Solanum aviculare* (67%), *Solanum seaforthianum*\* (1, 67%), *Solanum stelligerum* (2, 67%), *Tinospora smilacina* (67%), *Triflorensia ixoroides* (67%), *Abutilon oxycarpum* var. *oxycarpum* (1, 33%), *Acalypha eremorum* (33%), *Alyxia ruscifolia* (33%), *Austrosteenisia blackii* var. *blackii* (1, 33%), *Brachychiton australis* (33%), *Carissa ovata* (33%), *Cissus oblonga* (33%), *Commelina indet.* (10, 33%), *Croton acronychioides* (3, 33%), *Cupaniopsis parvifolia* (33%), *Desmodium brachypodium* (33%), *Diospyros geminata* (33%), *Euroschinus falcatus* var. *falcatus* (33%), *Flindersia collina* (33%), *Geijera salicifolia* (33%), *Gynochthodes canthoides* (33%), *Hoya australis* (33%), *Hoya australis* subsp. *australis* (1, 33%), *Lantana montevidensis*\* (1, 33%), *Marsdenia pleiadenia* (33%), *Melodorum leichhardtii* (33%), *Microsorium punctatum* (33%), *Parsonsia plaesiophylla* (33%), *Passiflora aurantia* (33%), *Pellaea nana* (33%), *Plectranthus parviflorus* (33%), *Plumbago zeylanica* (1, 33%), *Proiphys cunninghamii* (33%), *Pseuderanthemum tenellum* (5, 33%), *Psychotria daphnoides* (33%), *Psydrax odorata* forma *australiana* (33%), *Secamone elliptica* (33%), *Solanum corifolium* (33%), *Solanum furfuraceum* (33%), *Stephania japonica* var. *discolor* (33%), *Tragia novae-hollandiae* (5, 33%), *Trophis scandens* subsp. *scandens* (33%), *Ventilago pubiflora* (33%), *Vincetoxicum ovatum* (33%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Corymbia spp., Lysicarpus angustifolius, Eucalyptus crebra, E. cloeziana open woodland on igneous rocks (granite)**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 5,976 5,255 88%

Species\_recorded: Total: 45; woody: 26; ground: 19; Avg. spp./site: 45.0; std dev.: 0.0, 1 site(s)

Basal area: Avg./site: 23.0 m<sup>2</sup>/ha, range: 23.0 - 23 m<sup>2</sup>/ha, std. deviation: 0 m<sup>2</sup>/ha, 1 site(s)

Structural formation: Open-forest: 100%, 1 site(s)

Representative\_sites 60759.

**Stratum: Tree 1**

Height avg. = 18.0m, 1 site

Crown cover avg. = 60.0%, 1 site

Dominant species (relative cover, frequency): *Lysicarpus angustifolius* (25, 100%), *Eucalyptus tenuipes* (25, 100%), *Eucalyptus crebra* (25, 100%), *Corymbia watsoniana* (12, 100%), *Corymbia trachyphloia* (10, 100%)

Frequent species (cover, frequency): *Corymbia trachyphloia* (6, 100%), *Corymbia watsoniana* (7, 100%), *Eucalyptus baileyana* (2, 100%), *Eucalyptus crebra* (15, 100%), *Eucalyptus tenuipes* (15, 100%), *Lysicarpus angustifolius* (15, 100%)

**Stratum: Tree 2**

Height avg. = 4.5m, 1 site

Crown cover avg. = 6.0%, 1 site

Dominant species (relative cover, frequency): *Lysicarpus angustifolius* (32, 100%), *Eucalyptus tenuipes* (32, 100%), *Corymbia watsoniana* (32, 100%), *Euroschinus falcatus* (2, 100%), *Corymbia trachyphloia* (2, 100%)

Frequent species (cover, frequency): *Corymbia trachyphloia* (100%), *Corymbia watsoniana* (2, 100%), *Eucalyptus tenuipes* (2, 100%), *Euroschinus falcatus* (100%), *Lysicarpus angustifolius* (2, 100%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Shrub 1**

Height avg. = 1.8m, 1 site

Crown cover avg. = 15.0%, 1 site

*Dominant species (relative cover, frequency):* *Jacksonia scoparia* (26, 100%), *Alphitonia excelsa* (13, 100%), *Acacia pustula* (13, 100%), *Acacia leptostachya* (13, 100%), *Lysicarpus angustifolius* (7, 100%)

*Frequent species (cover, frequency):* *Acacia leptostachya* (2, 100%), *Acacia pustula* (2, 100%), *Alphitonia excelsa* (2, 100%), *Bossiaea concolor* (100%), *Corymbia trachyphloia* (1, 100%), *Corymbia watsoniana* (1, 100%), *Eucalyptus baileyana* (100%), *Eucalyptus crebra* (1, 100%), *Eucalyptus tenuipes* (1, 100%), *Grevillea floribunda subsp. tenella* (100%), *Jacksonia scoparia* (4, 100%), *Lysicarpus angustifolius* (1, 100%), *Xanthorrhoea johnsonii* (100%), *Xylomelum cunninghamianum* (100%)

**Stratum: Shrub 2**

Height avg. = 0.5m, 1 site

Crown cover avg. = 6.0%, 1 site

*Dominant species (relative cover, frequency):* *Acacia pustula* (29, 100%), *Jacksonia scoparia* (7, 100%), *Acacia complanata* (7, 100%), *Alphitonia excelsa* (7, 100%), *Acacia buxifolia subsp. pubiflora* (7, 100%)

*Frequent species (cover, frequency):* *Acacia buxifolia subsp. pubiflora* (1, 100%), *Acacia complanata* (1, 100%), *Acacia conferta* (100%), *Acacia leptostachya* (100%), *Acacia pustula* (2, 100%), *Alphitonia excelsa* (1, 100%), *Capparis mitchellii* (100%), *Eucalyptus tenuipes* (100%), *Hibbertia indet.* (1, 100%), *Jacksonia scoparia* (1, 100%), *Macrozamia crassifolia* (100%), *Melichrus sp. (Isla Gorge P.Sharpe+ 601)* (1, 100%), *Notelaea pungens* (1, 100%), *Persoonia sericea* (100%), *Pimelea linifolia* (100%), *Platysace linearifolia* (100%), *Xanthorrhoea johnsonii* (100%)

**Stratum: Ground**

Height avg. = 0.5m, 1 site

PFC avg. = 39.0%, 1 site

*Dominant species (relative cover, frequency):* *Entolasia stricta* (56, 100%), *Aristida benthamii* (13, 100%), *Aristida calycina* (8, 100%), *Cymbopogon refractus* (8, 100%), *Cymbopogon oblectus* (5, 100%)

*Frequent species (cover, frequency):* GRAMINOIDS: *Aristida benthamii* (5, 100%), *Aristida calycina* (3, 100%), *Aristida vagans* (100%), *Cymbopogon oblectus* (2, 100%), *Cymbopogon refractus* (3, 100%), *Enneapogon robustissimus* (1, 100%), *Entolasia stricta* (22, 100%), *Eragrostis curvula\** (1, 100%), *Eremochloa bimaculata* (1, 100%), *Lepidosperma laterale* (100%)  
FORBS: *Cyanthillium cinereum* (100%), *Desmodium rhytidophyllum* (100%), *Glycine clandestina var. clandestina* (100%), *Lomandra filiformis subsp. filiformis* (1, 100%), *Lomandra leucocephala* (100%), *Lomandra multiflora subsp. multiflora* (100%), *Phyllanthus virgatus* (100%), *Rostellularia adscendens* (100%), *Solanum nemophilum* (1, 100%)

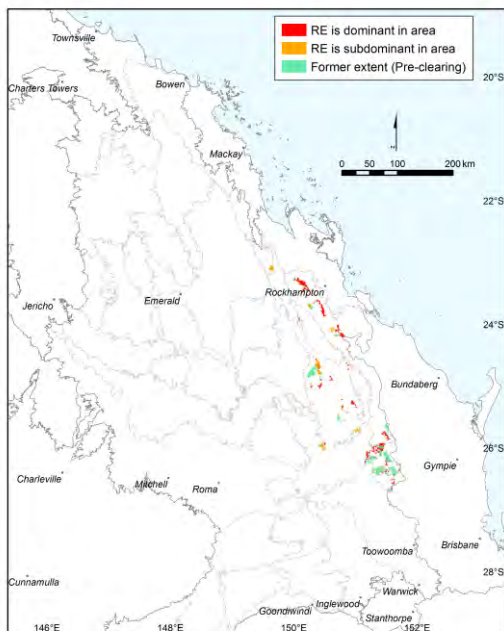
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**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Corymbia citriodora open forest on igneous rocks (granite)**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 134,817 73,822 55%

Species\_recorded: Total: 157; woody: 43; ground: 126; Avg. spp./site: 35.3; std dev.: 6.6, 3 site(s)

Basal area: Avg./site: 21.8 m<sup>2</sup>/ha, range: 9.5 - 33 m<sup>2</sup>/ha, std. deviation: 7 m<sup>2</sup>/ha, 15 site(s)

Structural formation: Woodland: 67%; open-forest: 20%; tall woodland: 13%, 15 site(s)

Representative\_sites 16642, 16643, 17463, 17466, 17479, 17481, 17600, 17614, 17615, 17633, 17634, 17641, 17643, 17644, 24674.

**Stratum: Emergent**

Height avg. = 25.0m, 1 site

Crown cover avg. = 5.0%, 1 site

Frequent species (cover, frequency): *Corymbia citriodora* (5, 7%)

**Stratum: Tree 1**

Height avg. = 25.5m, range 18-36m, 15 sites

Crown cover avg. = 38.9%, range 20.0-58.0%, 15 sites

Dominant species (relative cover, frequency): *Corymbia citriodora* (56, 67%), *Eucalyptus acmenoides* (38, 27%), *Eucalyptus crebra* (37, 80%)

Frequent species (cover, frequency): *Eucalyptus crebra* (14, 80%), *Corymbia citriodora* (22, 67%), *Eucalyptus acmenoides* (14, 27%), *Corymbia trachyphloia subsp. trachyphloia* (11, 20%), *Corymbia citriodora subsp. variegata* (15, 13%), *Corymbia erythrophloia* (4, 13%), *Eucalyptus exserta* (3, 13%), *Eucalyptus tereticornis* (13%), *Angophora leiocarpa* (18, 7%), *Brachychiton populneus* (7%), *Corymbia clarksoniana* (6, 7%), *Eucalyptus moluccana* (18, 7%), *Lophostemon suaveolens* (22, 7%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus



**Stratum: Tree 2**

Height avg. = 12.4m, range 4-22m, 13 sites

Crown cover avg. = 8.3%, range 0.0-30.0%, 13 sites

Dominant species (relative cover, frequency): *Eucalyptus crebra* (54, 40%), *Corymbia citriodora* (46, 33%)

Frequent species (cover, frequency): *Eucalyptus crebra* (7, 40%), *Corymbia citriodora* (3, 33%), *Corymbia clarksoniana* (1, 20%), *Eucalyptus acmenoides* (4, 20%), *Corymbia trachyphloia subsp. trachyphloia* (3, 13%), *Acacia aulacocarpa* (2, 7%), *Acacia crassa subsp. crassa* (7%), *Acacia leiocalyx subsp. leiocalyx* (2, 7%), *Acacia shirleyi* (5, 7%), *Angophora leiocarpa* (2, 7%), *Brachychiton populneus* (7%), *Corymbia citriodora subsp. variegata* (2, 7%), *Lophostemon suaveolens* (8, 7%)

**Stratum: Tree 3**

Height avg. = 4.7m, range 2-8m, 3 sites

Crown cover avg. = 6.0%, range 3.0-10.0%, 3 sites

Frequent species (cover, frequency): *Acacia leiocalyx subsp. leiocalyx* (10, 7%), *Eucalyptus crebra* (3, 7%), *Vachellia bidwillii* (5, 7%)

**Stratum: Shrub 1**

Height avg. = 1.8m, range 0.5-5m, 15 sites

Crown cover avg. = 5.3%, range 0.0-20.0%, 15 sites

Dominant species (relative cover, frequency): *Xanthorrhoea latifolia* (51, 33%), *Acacia leiocalyx subsp. leiocalyx* (41, 60%), *Alphitonia excelsa* (39, 40%)

Frequent species (cover, frequency): *Acacia leiocalyx subsp. leiocalyx* (2, 60%), *Alphitonia excelsa* (1, 40%), *Xanthorrhoea latifolia* (5, 33%), *Acacia flavescens* (4, 13%), *Corymbia citriodora* (1, 13%), *Jacksonia scoparia* (2, 13%), *Vachellia bidwillii* (1, 13%), *Acacia crassa subsp. crassa* (1, 7%), *Acacia decora* (2, 7%), *Acacia fasciculifera* (4, 7%), *Acacia loroloba* (1, 7%), *Acacia maidenii* (1, 7%), *Acacia striatifolia* (2, 7%), *Alectryon diversifolius* (7%), *Breynia oblongifolia* (7%), *Cassinia laevis* (1, 7%), *Coelospermum reticulatum* (7%), *Corymbia citriodora subsp. variegata* (2, 7%), *Ficus opposita* (7%), *Geijera parviflora* (7%), *Hibiscus splendens* (7%), *Lophostemon suaveolens* (1, 7%), *Petalostigma pubescens* (1, 7%), *Pittosporum spinescens* (1, 7%), *Pittosporum viscidum* (7%), *Psydrax odorata* (7%), *Solanum parvifolium* (7%)

**Stratum: Shrub 2**

Height avg. = 1.2m, range 0.9-2m, 4 sites

Crown cover avg. = 6.3%, range 1.0-12.0%, 4 sites

Frequent species (cover, frequency): *Coelospermum reticulatum* (1, 13%), *Macrozamia miquelii* (7, 13%), *Xanthorrhoea latifolia* (4, 13%), *Alphitonia excelsa* (1, 7%), *Carissa ovata* (1, 7%), *Corymbia citriodora subsp. variegata* (7%), *Denhamia cunninghamii* (1, 7%), *Hakea lorea* (7%), *Petalostigma pubescens* (7%), *Psydrax odorata* (1, 7%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Ground**

Height avg. = 0.4m, range 0.3-0.65m, 3 sites

PFC avg. = 30.3%, range 17-46%, 3 sites

*Dominant species (relative cover, frequency):* *Arundinella nepalensis* (53, 100%), *Heteropogon contortus* (22, 33%), *Cymbopogon refractus* (8, 100%), *Acacia leiocalyx subsp. leiocalyx* (8, 33%), *Bothriochloa decipiens var. decipiens* (7, 33%)

*Frequent species (cover, frequency):* GRAMINOIDS: *Arundinella nepalensis* (20, 100%), *Cymbopogon refractus* (2, 100%), *Aristida queenslandica var. queenslandica* (2, 67%), *Cyperus fulvus* (67%), *Cyperus gracilis* (67%), *Digitaria breviglumis* (1, 67%), *Eragrostis elongata* (1, 67%), *Panicum simile* (1, 67%), *Aristida calycina var. calycina* (2, 33%), *Aristida caput-medusae* (1, 33%), *Aristida lignosa* (33%), *Aristida spuria* (1, 33%), *Bothriochloa decipiens* (1, 33%), *Bothriochloa decipiens var. decipiens* (2, 33%), *Chrysopogon fallax* (33%), *Cynodon dactylon\** (33%), *Enneapogon lindleyanus* (33%), *Eragrostis cilianensis\** (33%), *Eragrostis leptostachya* (33%), *Eragrostis spartinoides* (1, 33%), *Fimbristylis dichotoma* (33%), *Heteropogon contortus* (6, 33%), *Melinis repens\** (33%), *Panicum effusum* (33%), *Sporobolus creber* (33%), *Themeda avenacea* (1, 33%), *Themeda triandra* (33%)

FORBS: *Cheilanthes sieberi* (100%), *Desmodium rhytidophyllum* (100%), *Alphitonia excelsa* (67%), *Brunoniella australis* (67%), *Chrysocephalum apiculatum* (67%), *Cyanthillium cinereum* (67%), *Glycine clandestina* (1, 67%), *Lomandra longifolia* (67%), *Acacia leiocalyx subsp. leiocalyx* (2, 33%), *Achyranthes aspera* (33%), *Aneilema acuminatum* (33%), *Capparis canescens* (33%), *Carissa ovata* (33%), *Crotalaria montana* (33%), *Denhamia bilocularis* (33%), *Desmodium varians* (33%), *Dianella longifolia var. longifolia* (33%), *Dianella revoluta* (33%), *Evolvulus alsinoides* (33%), *Glycine tabacina* (33%), *Hakea lorea* (33%), *Hardenbergia violacea* (1, 33%), *Hibiscus sturtii* (33%), *Jacksonia scoparia* (33%), *Laxmannia gracilis* (33%), *Lomandra confertifolia subsp. pallida* (2, 33%), *Lomandra filiformis* (33%), *Lomandra multiflora subsp. multiflora* (1, 33%), *Marsdenia indet.* (33%), *Murdannia graminea* (33%), *Opuntia stricta\** (33%), *Opuntia tomentosa\** (33%), *Phyllanthus virgatus* (33%), *Psydrax odorata* (2, 33%), *Rostellularia adscendens* (33%), *Spermacoce multicaulis* (33%), *Stackhousia viminea* (33%), *Tricoryne elatior* (33%), *Zornia muriculata* (33%)

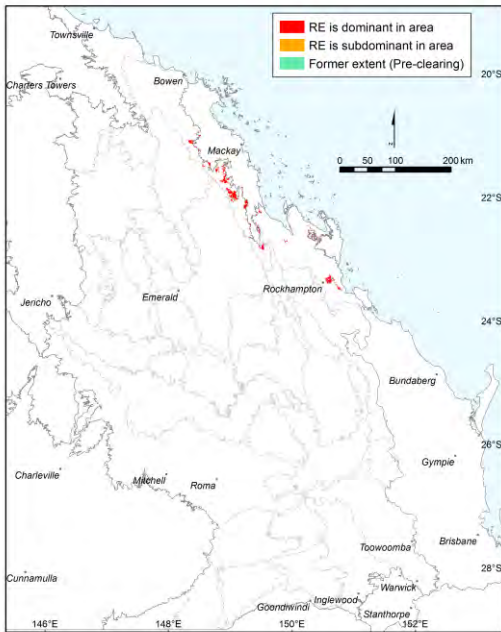
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**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Eucalyptus crebra +/- Corymbia citriodora and/or E. acmenoides +/- Lophostemon suaveolens woodland to open forest**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 80,619 69,820 87%

Species\_recorded: Total: 138; woody: 24; ground: 117; Avg. spp./site: 48.7; std dev.: 16.0, 3 site(s)

Basal area: Avg./site: 9.8 m<sup>2</sup>/ha, range: 5.0 - 19 m<sup>2</sup>/ha, std. deviation: 5 m<sup>2</sup>/ha, 5 site(s)

Structural formation: Woodland: 60%; tall woodland: 40%, 5 site(s)

Representative\_sites 14848, 17521, 17527, 24678, 24680.

**Stratum: Emergent**

Height avg. = 28.0m, 1 site

Crown cover avg. = 5.0%, 1 site

Frequent species (cover, frequency): *Corymbia citriodora* (15, 20%)

**Stratum: Tree 1**

Height avg. = 26.8m, range 20-37m, 5 sites

Crown cover avg. = 30.2%, range 20.0-45.0%, 5 sites

Dominant species (relative cover, frequency): *Corymbia citriodora* (64, 100%), *Eucalyptus crebra* (30, 100%)

Frequent species (cover, frequency): *Corymbia citriodora* (19, 100%), *Eucalyptus crebra* (8, 100%), *Acacia excelsa* subsp. *angusta* (20%), *Eucalyptus acmenoides* (4, 20%), *Eucalyptus exserta* (20%), *Eucalyptus populnea* (20%), *Euroschinus falcatus* (3, 20%)

**Stratum: Tree 2**

Height avg. = 14.5m, range 11-18m, 4 sites

Crown cover avg. = 3.5%, range 0.0-8.0%, 4 sites

Dominant species (relative cover, frequency): *Eucalyptus crebra* (71, 80%)

Frequent species (cover, frequency): *Eucalyptus crebra* (3, 80%), *Corymbia citriodora* (20%), *Eucalyptus exserta* (6, 20%), *Lophostemon suaveolens* (2, 20%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Tree 3**

Height avg. = 9.0m, 1 site

Crown cover avg. = 3.0%, 1 site

*Frequent species (cover, frequency): Eucalyptus crebra (1, 20%), Eucalyptus exserta (1, 20%), Lophostemon confertus (1, 20%)*

**Stratum: Shrub 1**

Height avg. = 3.0m, range 1.5-5m, 5 sites

Crown cover avg. = 2.4%, range 0.0-5.0%, 5 sites

*Dominant species (relative cover, frequency): Lophostemon confertus (44, 40%), Eucalyptus crebra (37, 40%)*

*Frequent species (cover, frequency): Eucalyptus crebra (1, 40%), Lophostemon confertus (1, 40%), Acacia crassa subsp. crassa (4, 20%), Acacia excelsa subsp. angusta (20%), Acacia glaucocarpa (20%), Acacia leiocalyx subsp. leiocalyx (2, 20%), Callicarpa pedunculata (20%), Capparis canescens (20%), Corymbia citriodora (20%), Cycas ophiolitica (1, 20%), Exocarpos cupressiformis (20%), Hibiscus heterophyllus (20%), Jacksonia scoparia (1, 20%), Lophostemon suaveolens (1, 20%), Mallotus philippensis (20%)*

**Stratum: Shrub 2**

Height avg. = 1.0m, range 1-1m, 2 sites

Crown cover avg. = 15.5%, range 6.0-25.0%, 2 sites

*Dominant species (relative cover, frequency): Macrozamia miquelii (28, 40%), Coelospermum reticulatum (14, 40%)*

*Frequent species (cover, frequency): Coelospermum reticulatum (2, 40%), Macrozamia miquelii (6, 40%), Acacia leiocalyx subsp. leiocalyx (1, 20%), Acacia maidenii (2, 20%), Corymbia citriodora (2, 20%), Lantana camara\* (1, 20%), Xanthorrhoea latifolia (10, 20%)*

**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Ground**

Height avg. = 0.3m, range 0.2-0.4m, 3 sites

PFC avg. = 13.7%, range 5-21%, 3 sites

*Dominant species (relative cover, frequency):* *Arundinella nepalensis* (23, 100%), *Bothriochloa decipiens* (17, 33%), *Scleria sphacelata* (17, 67%), *Cleistochloa subjuncea* (14, 67%), *Chrysopogon fallax* (9, 67%)

*Frequent species (cover, frequency):* GRAMINOIDS: *Arundinella nepalensis* (3, 100%), *Aristida caput-medusae* (1, 67%), *Chrysopogon fallax* (2, 67%), *Cleistochloa subjuncea* (1, 67%), *Cyperus gracilis* (2, 67%), *Panicum effusum* (67%), *Scleria sphacelata* (1, 67%), *Amphipogon strictus* (33%), *Aristida calycina* var. *calycina* (1, 33%), *Aristida jerichoensis* var. *subspinulifera* (33%), *Aristida personata* (33%), *Aristida queenslandica* var. *queenslandica* (33%), *Aristida ramosa* (1, 33%), *Aristida vagans* (33%), *Bothriochloa decipiens* (4, 33%), *Chloris ventricosa* (33%), *Cymbopogon bombycinus* (33%), *Cymbopogon refractus* (1, 33%), *Cyperus fulvus* (33%), *Dichanthium tenue* (33%), *Digitaria diffusa* (33%), *Dinebra decipiens* (33%), *Enneapogon lindleyanus* (1, 33%), *Eragrostis elongata* (33%), *Eragrostis leptostachya* (33%), *Eriachne* indet. (33%), *Gahnia aspera* (33%), *Heteropogon contortus* (33%), *Paspalidium criniforme* (33%), *Paspalidium distans* (33%), *Paspalidium gracile* (33%), *Schoenus kennyi* (33%), *Scleria brownii* (33%), *Sporobolus creber* (33%), *Sporobolus elongatus* (33%), *Themeda avenacea* (33%), *Themeda triandra* (33%)

FORBS: *Lomandra filiformis* (100%), *Brunoniella australis* (67%), *Cyanthillium cinereum* (67%), *Dianella revoluta* (67%), *Evolvulus alsinoides* (67%), *Laxmannia gracilis* (67%), *Lomandra multiflora* subsp. *multiflora* (67%), *Opuntia stricta*\* (67%), *Opuntia tomentosa*\* (67%), *Phyllanthus virgatus* (67%), *Psydrax oleifolia* (1, 67%), *Sida hackettiana* (67%), *Acacia aulacocarpa* (33%), *Acacia fasciculifera* (33%), *Acacia penninervis* (33%), *Achyranthes aspera* (33%), *Alphitonia excelsa* (33%), *Alternanthera nana* (33%), *Anisomeles* indet. (33%), *Atalaya hemiglaucula* (33%), *Boerhavia dominii* (33%), *Cayratia clematidea* (33%), *Chrysocephalum apiculatum* (33%), *Commelina diffusa* (33%), *Crotalaria montana* (33%), *Denhamia cunninghamii* (33%), *Desmodium brachypodium* (33%), *Desmodium rhytidophyllum* (33%), *Dianella brevipedunculata* (33%), *Dianella caerulea* (33%), *Dodonaea lanceolata* (33%), *Eremophila debilis* (33%), *Erigeron sumatrensis*\* (33%), *Eustrephus latifolius* (33%), *Exocarpos cupressiformis* (33%), *Ficus opposita* (33%), *Galactia tenuiflora* (33%), *Geijera parviflora* (33%), *Glossocardia bidens* (33%), *Glycine tabacina* (33%), *Gomphocarpus physocarpus*\* (33%), *Goodenia* indet. (33%), *Grewia latifolia* (33%), *Hakea lorea* (33%), *Hibiscus heterophyllus* (33%), *Hibiscus sturtii* (33%), *Jagera pseudorhus* (33%), *Jasminum didymum* subsp. *racemosum* (33%), *Lantana camara*\* (33%), *Lomandra longifolia* (33%), *Maireana microphylla* (33%), *Mallotus claoxyloides* (33%), *Malvastrum americanum* var. *americanum*\* (33%), *Marsdenia micradenia* (33%), *Marsdenia viridiflora* (33%), *Melhantha oblongifolia* (33%), *Melichrus erubescens* (33%), *Nyssanthes erecta* (33%), *Oxalis corniculata*\* (33%), *Passiflora suberosa*\* (33%), *Peripleura hispidula* (33%), *Petalostigma pubescens* (33%), *Pittosporum angustifolium* (33%), *Pseuderanthemum variabile* (33%), *Rhynchosia minima* (33%), *Rostellularia adscendens* (33%), *Sida* indet. (33%), *Solanum* indet. (33%), *Spermacoce brachystema* (33%), *Spermacoce* indet. (33%), *Stackhousia viminea* (33%), *Turraea pubescens* (33%)

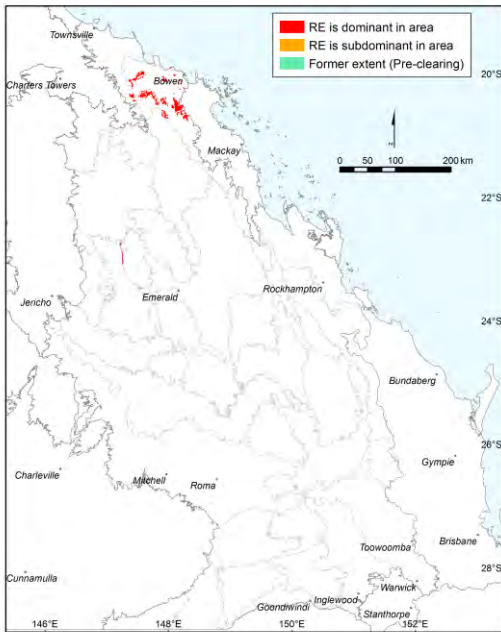
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**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Eucalyptus crebra woodland with patches of semi-evergreen vine thicket on igneous rocks (boulder-strewn hillsides)**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 91,523 86,515 95%

Species\_recorded: Total: 131; woody: 52; ground: 94; Avg. spp./site: 40.8; std dev.: 12.8, 4 site(s)

Basal area: Avg./site: 6.9 m<sup>2</sup>/ha, range: 5.0 - 11 m<sup>2</sup>/ha, std. deviation: 2 m<sup>2</sup>/ha, 4 site(s)

Structural formation: Woodland: 50%; open-woodland: 25%; low open-woodland: 25%, 4 site(s)

Representative\_sites 19064, 55736, 55795, 56254.

**Stratum: Emergent**

Height avg. = 11.0m, 1 site

Crown cover avg. = 0.0%, 1 site

Dominant species (relative cover, frequency): *Eucalyptus crebra* (100, 25%)

Frequent species (cover, frequency): *Eucalyptus crebra* (25%)

**Stratum: Tree 1**

Height avg. = 11.3m, range 7.9-13.1m, 4 sites

Crown cover avg. = 25.3%, range 13.0-35.0%, 4 sites

Dominant species (relative cover, frequency): *Eucalyptus crebra* (67, 100%), *Corymbia clarksoniana* (54, 25%), *Corymbia erythrophloia* (39, 25%), *Corymbia tessellaris* (17, 25%), *Brachychiton australis* (7, 50%)

Frequent species (cover, frequency): *Eucalyptus crebra* (15, 100%), *Brachychiton australis* (3, 50%), *Corymbia clarksoniana* (19, 25%), *Corymbia erythrophloia* (14, 25%), *Corymbia tessellaris* (6, 25%), *Euroschinus falcatus* var. *falcatus* (25%), *Gyrocarpus americanus* (25%), *Lysiphyllum hookeri* (1, 25%), *Pleiogynium timorense* (25%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Tree 2**

Height avg. = 4.5m, range 3.8-5.5m, 4 sites

Crown cover avg. = 7.0%, range 1.0-22.0%, 4 sites

Dominant species (relative cover, frequency): *Planchonia careya* (94, 25%), *Alphitonia excelsa* (40, 75%), *Euroschinus falcatus* var. *falcatus* (30, 25%), *Eucalyptus crebra* (20, 75%), *Drypetes deplanchei* (13, 50%)

Frequent species (cover, frequency): *Alphitonia excelsa* (3, 75%), *Eucalyptus crebra* (1, 75%), *Brachychiton australis* (1, 50%), *Drypetes deplanchei* (3, 50%), *Pittosporum spinescens* (2, 50%), *Pleiogynium timorense* (50%), *Terminalia muelleri* (50%), *Acacia spirorbis* subsp. *solandri* (1, 25%), *Corymbia clarksoniana* (3, 25%), *Cryptostegia grandiflora*\* (1, 25%), *Cupaniopsis anacardioides* (25%), *Cyclophyllum coprosmoides* (25%), *Denhamia disperma* (25%), *Erythroxylum australe* (2, 25%), *Euroschinus falcatus* var. *falcatus* (1, 25%), *Ficus rubiginosa* (25%), *Gyrocarpus americanus* subsp. *americanus* (25%), *Lysiphyllum hookeri* (25%), *Planchonella cotinifolia* (25%), *Planchonia careya* (2, 25%), *Psydrax odorata* (1, 25%)

**Stratum: Shrub 1**

Height avg. = 2.3m, range 0.7-3.5m, 4 sites

Crown cover avg. = 11.3%, range 4.0-15.0%, 4 sites

Dominant species (relative cover, frequency): *Desmodium* indet. (63, 25%), *Acacia omalophylla* (45, 25%), *Grewia latifolia* (39, 25%), *Eugenia reinwardtiana* (26, 25%), *Jasminum didymum* subsp. *racemosum* (23, 50%)

Frequent species (cover, frequency): *Alectryon connatus* (50%), *Alphitonia excelsa* (1, 50%), *Cajanus reticulatus* (50%), *Drypetes deplanchei* (50%), *Eucalyptus crebra* (50%), *Jasminum didymum* subsp. *racemosum* (2, 50%), *Planchonia careya* (1, 50%), *Acacia omalophylla* (1, 25%), *Acalypha eremorum* (25%), *Alectryon oleifolius* subsp. *elongatus* (2, 25%), *Atalaya rigida* (25%), *Brachychiton australis* (25%), *Carissa ovata* (25%), *Corymbia clarksoniana* (25%), *Corymbia dallachiana* (1, 25%), *Corymbia erythrophloia* (25%), *Croton phebaloides* (25%), *Cryptostegia grandiflora*\* (25%), *Desmodium* indet. (10, 25%), *Elattostachys bidwillii* (25%), *Eugenia reinwardtiana* (3, 25%), *Flueggea virosa* subsp. *melanthesoides* (25%), *Geijera salicifolia* (25%), *Glossocarya calcicola* (25%), *Grewia latifolia* (4, 25%), *Grewia retusifolia* (3, 25%), *Hibiscus* indet. (25%), *Indigofera* indet. (1, 25%), *Indigofera pratensis* (25%), *Jasminum didymum* subsp. *lineare* (25%), *Pittosporum spinescens* (3, 25%), *Psydrax odorata* (25%), *Senna coronilloides* (2, 25%), *Strychnos psilosperma* (25%), *Stylosanthes* indet. (1, 25%), *Stylosanthes scabra*\* (1, 25%), *Turraea pubescens* (25%), *Vachellia bidwillii* (25%)

**Stratum: Ground**

Height avg. = 0.6m, range 0.3-0.9m, 4 sites

PFC avg. = 38.8%, range 28-50%, 4 sites

Dominant species (relative cover, frequency): *Heteropogon contortus* (45, 100%), *Cymbopogon queenslandicus* (17, 50%), *Aristida gracilipes* (16, 25%), *Capillipedium spicigerum* (14, 25%), *Aristida ramosa* (12, 25%)

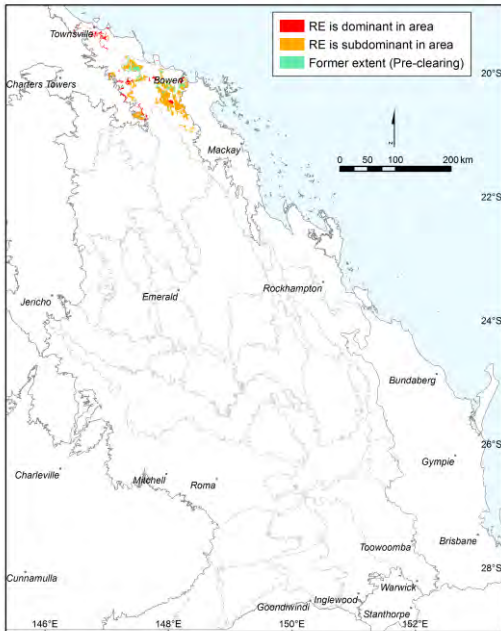
Frequent species (cover, frequency): GRAMINOIDS: *Heteropogon contortus* (12, 100%), *Scleria brownii* (1, 100%), *Ancistrachne uncinulata* (50%), *Cymbopogon queenslandicus* (8, 50%), *Cyperus gracilis* (50%), *Abildgaardia ovata* (1, 25%), *Alloteropsis semialata* (25%), *Aristida gracilipes* (8, 25%), *Aristida latifolia* (1, 25%), *Aristida personata* (25%), *Aristida ramosa* (4, 25%), *Bothriochloa bladhii* (3, 25%), *Bothriochloa ewartiana* (1, 25%), *Capillipedium spicigerum* (4, 25%), *Chrysopogon fallax* (1, 25%), *Cyperus fulvus* (25%), *Dichanthium fecundum* (3, 25%), *Dichanthium sericeum* (25%), *Enneapogon lindleyanus* (25%), *Enteropogon unispiceus* (1, 25%), *Eragrostis megalosperma* (25%), *Eulalia aurea* (2, 25%), *Heteropogon triticeus* (3, 25%), *Melinis repens*\* (25%), *Paspalidium gracile* (1, 25%), *Sarga plumosum* (1, 25%), *Schizachyrium* indet. (25%), *Sehima nervosum* (25%), *Setaria australiensis* (25%), *Sorghum nitidum* forma *nitidum* (5, 25%), *Themeda triandra* (25%)  
 FORBS: *Apowollastonia spilanthisoides* (50%), *Clematicissus opaca* (50%), *Cyanthillium cinereum* (50%), *Grewia retusifolia* (50%), *Melhantha oblongifolia* (2, 50%), *Sida hackettiana* (1, 50%), *Achyranthes aspera* (25%), *Alectryon connatus* (25%), *Alyxia ruscifolia* (25%), *Antidesma parvifolium* (25%), *Bidens bipinnata*\* (25%), *Chamaecrista absus* var. *absus* (3, 25%), *Chamaecrista concinna* (25%), *Cheilanthes distans* (25%), *Cissus repens* (25%), *Cleome viscosa* (25%), *Commelina diffusa* (25%), *Commelina ensifolia* (25%), *Coronidium lanuginosum* (25%), *Crotalaria calycina* (25%), *Crotalaria juncea*\* (25%), *Crotalaria medicaginea* (25%), *Croton phebaloides* (25%), *Cryptostegia grandiflora*\* (25%), *Cucumis* indet. (25%), *Cyclophyllum coprosmoides* (25%), *Desmodium brachypodium* (25%), *Dianella caerulea* (25%), *Dianella* indet. (25%), *Euphorbia mitchelliana* (1, 25%), *Euphorbia tannensis* subsp. *eremophila* (25%), *Evolvulus alsinoides* (25%), *Glossocarya calcicola* (25%), *Glycine curvata* (1, 25%), *Grewia latifolia* (25%), *Hibiscus meraukensis* (25%), *Hyptis capitata*\* (25%), *Indigofera hirsuta* (2, 25%), *Indigofera linifolia* (1, 25%), *Jasminum didymum* subsp. *lineare* (25%), *Lomandra filiformis* subsp. *filiformis* (25%), *Malvastrum americanum* (25%), *Parsonsia lanceolata* (25%), *Phyllanthus virgatus* (25%), *Psydrax odorata* (25%), *Pterocaulon redolens* (25%), *Pterocaulon serrulatum* (25%), *Pycnospora lutescens* (25%), *Rhynchosia minima* (25%), *Rhynchosia minima* var. *minima* (2, 25%), *Rostellularia adscendens* (25%), *Rostellularia adscendens* var. *hispida* (25%), *Seringia lanceolata* (25%), *Sida spinosa*\* (25%), *Solanum ellipticum* (25%), *Solanum* indet. (25%), *Spermacoce* indet. (25%), *Tephrosia juncea* (25%), *Trichodesma zeylanicum* var. *zeylanicum* (25%), *Uraria lagopodioides* (25%), *Vigna* sp. (Station Creek R.J.Lawn CQ3284) (25%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Eucalyptus platyphylla woodland on igneous rocks**



Adrian Borsboom

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 111,518 95,779 86%

Species\_recorded: Total: 96; woody: 34; ground: 90; Avg. spp./site: 34.8; std dev.: 1.8, 4 site(s)

Basal area: Avg./site: 12.5 m<sup>2</sup>/ha, range: 1.5 - 22 m<sup>2</sup>/ha, std. deviation: 8 m<sup>2</sup>/ha, 4 site(s)

Structural formation: Woodland: 50%; open-woodland: 25%; open-forest: 25%, 4 site(s)

Representative\_sites 19048, 55494, 55616, 55634.

**Stratum: Emergent**

Height avg. = 22.0m, 1 site

Crown cover avg. = 7.0%, 1 site

Dominant species (relative cover, frequency): *Eucalyptus drepanophylla* (100, 25%)

Frequent species (cover, frequency): *Eucalyptus drepanophylla* (8, 25%)

**Stratum: Tree 1**

Height avg. = 14.1m, range 13-15m, 4 sites

Crown cover avg. = 33.0%, range 7.0-58.0%, 4 sites

Dominant species (relative cover, frequency): *Corymbia clarksoniana* (38, 100%), *Eucalyptus platyphylla* (36, 100%), *Eucalyptus drepanophylla* (23, 75%), *Corymbia dallachiana* (9, 50%), *Cochlospermum gillivraei* (7, 25%)

Frequent species (cover, frequency): *Corymbia clarksoniana* (11, 100%), *Eucalyptus platyphylla* (15, 100%), *Eucalyptus drepanophylla* (8, 75%), *Corymbia dallachiana* (3, 50%), *Planchonia careya* (2, 50%), *Cochlospermum gillivraei* (1, 25%), *Eucalyptus portuensis* (2, 25%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus



**Stratum: Tree 2**

Height avg. = 6.0m, range 3.4-10m, 4 sites

Crown cover avg. = 8.8%, range 1.0-19.0%, 4 sites

*Dominant species (relative cover, frequency): Melaleuca viridiflora var. viridiflora (98, 25%), Albizia procera (39, 25%), Corymbia clarksoniana (26, 100%), Alphitonia excelsa (23, 25%), Planchonia careya (19, 75%)*

*Frequent species (cover, frequency): Corymbia clarksoniana (3, 100%), Planchonia careya (2, 75%), Eucalyptus platyphylla (1, 50%), Albizia procera (3, 25%), Alphitonia excelsa (5, 25%), Atractocarpus fitzalanii (25%), Canarium australianum var. australianum (25%), Chionanthus ramiflorus (1, 25%), Cochlospermum gillivraei (1, 25%), Corymbia dallachiana (25%), Eucalyptus drepanophylla (1, 25%), Glochidion lobocarpum (3, 25%), Larsenaikia ochreatea (25%), Livistona decora (25%), Macaranga tanarius (25%), Melaleuca indet. (25%), Melaleuca viridiflora var. viridiflora (8, 25%), Melia azedarach (25%), Tarenna dallachiana (3, 25%)*

**Stratum: Shrub 1**

Height avg. = 2.3m, range 1.4-4m, 4 sites

Crown cover avg. = 7.8%, range 1.0-24.0%, 4 sites

*Dominant species (relative cover, frequency): Grevillea parallela (52, 25%), Melaleuca viridiflora var. viridiflora (29, 25%), Lantana camara\* (26, 50%), Eucalyptus platyphylla (24, 50%), Alphitonia excelsa (18, 50%)*

*Frequent species (cover, frequency): Corymbia clarksoniana (75%), Planchonia careya (75%), Alphitonia excelsa (50%), Canarium australianum var. australianum (50%), Eucalyptus drepanophylla (50%), Eucalyptus platyphylla (7, 50%), Glochidion lobocarpum (3, 50%), Lantana camara\* (3, 50%), Acacia flavescens (2, 25%), Albizia procera (1, 25%), Aphyllodium biarticulatum (25%), Brucea javanica (2, 25%), Cycas media (25%), Eucalyptus portuensis (1, 25%), Euroschinus falcatus var. falcatus (25%), Grevillea parallela (1, 25%), Guioa acutifolia (5, 25%), Melaleuca viridiflora var. viridiflora (1, 25%), Melia azedarach (1, 25%), Pleiogynium timorense (25%), Urena lobata\* (25%)*

**Stratum: Shrub 2**

Height avg. = 1.2m, 1 site

Crown cover avg. = 1.0%, 1 site

*Dominant species (relative cover, frequency): Terminalia indet. (20, 25%), Tephrosia juncea (20, 25%), Tephrosia indet. (20, 25%), Erythrina vespertilio (20, 25%), Corymbia clarksoniana (20, 25%)*

*Frequent species (cover, frequency): Corymbia clarksoniana (25%), Erythrina vespertilio (25%), Tephrosia indet. (25%), Tephrosia juncea (25%), Terminalia indet. (25%)*

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Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Ground**

Height avg. = 0.7m, range 0.5-1m, 4 sites

PFC avg. = 35.3%, range 25-47%, 4 sites

*Dominant species (relative cover, frequency):* *Capillipedium spicigerum* (29, 25%), *Imperata cylindrica* (21, 75%), *Themeda triandra* (19, 100%), *Heteropogon contortus* (17, 100%), *Melinis repens*\* (17, 25%)

*Frequent species (cover, frequency): GRAMINOIDS:* *Heteropogon contortus* (5, 100%), *Themeda triandra* (8, 100%), *Heteropogon triticeus* (2, 75%), *Imperata cylindrica* (9, 75%), *Mnesithea rottboellioides* (5, 75%), *Capillipedium parviflorum* (5, 50%), *Sarga plumosum* (3, 50%), *Scleria brownii* (50%), *Aristida utilis* var. *utilis* (25%), *Bothriochloa* *indet.* (1, 25%), *Capillipedium spicigerum* (8, 25%), *Cymbopogon bombycinus* (25%), *Cyperus fulvus* (25%), *Digitaria parviflora* (25%), *Eragrostis brownii* (25%), *Fimbristylis dichotoma* (25%), *Megathyrsus maximus*\* (25%), *Melinis repens*\* (5, 25%), *Oplismenus aemulus* (25%), *Panicum effusum* (25%), *Schizachyrium fragile* (25%), *Setaria* *indet.* (25%), *Sporobolus creber* (25%), *Tetraria capillaris* (25%)

*FORBS:* *Galactia tenuiflora* (1, 75%), *Indigofera pratensis* (75%), *Brunoniella acaulis* subsp. *acaulis* (50%), *Chamaecrista mimosoides* (50%), *Cyanthillium cinereum* (50%), *Grewia retusifolia* (50%), *Lomandra filiformis* subsp. *filiformis* (50%), *Lomandra longifolia* (50%), *Melia azedarach* (50%), *Passiflora foetida*\* (50%), *Passiflora suberosa*\* (50%), *Praxelis clematidea*\* (50%), *Tephrosia juncea* (50%), *Thysanotus tuberosus* subsp. *tuberosus* (50%), *Tricoryne anceps* subsp. *pterocaulon* (50%), *Uraria lagopodioides* (1, 50%), *Urena lobata*\* (50%), *Acacia flavescens* (1, 25%), *Acacia leptocarpa* (25%), *Ageratum houstonianum*\* (25%), *Albizia procera* (25%), *Alphitonia excelsa* (25%), *Alysicarpus ovalifolius*\* (25%), *Anisomeles* *indet.* (25%), *Aphyllodium biarticulatum* (25%), *Blumea saxatilis* (25%), *Breynia oblongifolia* (25%), *Brucea javanica* (25%), *Buchnera linearis* (25%), *Callicarpa pedunculata* (25%), *Coelospermum paniculatum* var. *paniculatum* (25%), *Commelina lanceolata* (25%), *Corymbia dallachiana* (25%), *Crotalaria medicaginea* (25%), *Crotalaria montana* (25%), *Crotalaria pallida* var. *obovata*\* (25%), *Crotalaria sessiliflora* var. *anthylloides* (25%), *Curculigo ensifolia* var. *ensifolia* (25%), *Cycas media* (25%), *Dianella caerulea* var. *vannata* (25%), *Dianella* *indet.* (25%), *Diospyros geminata* (25%), *Eucalyptus platyphylla* (25%), *Euphorbia* *indet.* (25%), *Euphorbia mitchelliana* (25%), *Evolvulus alsinoides* (25%), *Flemingia lineata* (25%), *Flueggea virosa* subsp. *melanthesoides* (25%), *Glochidion lobocarpum* (25%), *Glycine tomentella* (25%), *Hibiscus* *indet.* (25%), *Ipomoea gracilis* (25%), *Jagera pseudorhus* (25%), *Jasminum didymum* (25%), *Larsenaikia ochreatea* (25%), *Lomandra multiflora* subsp. *multiflora* (25%), *Mallotus paniculatus* (25%), *Marsdenia microlepis* (25%), *Rhynchosia minima* (25%), *Rostellularia adscendens* (25%), *Sida cordifolia*\* (25%), *Stachytarpheta jamaicensis*\* (25%), *Stylosanthes scabra*\* (25%), *Zornia dyctiocarpa* var. *filifolia* (25%), *Zornia muriculata* subsp. *angustata* (25%)

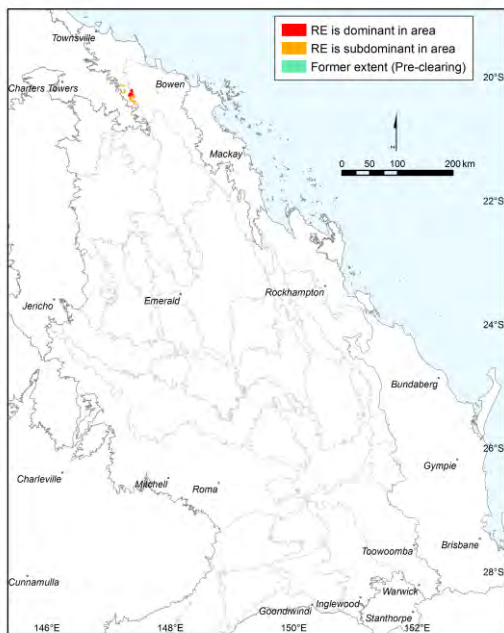
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**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Corymbia clarksoniana woodland on igneous rocks**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 9,772 9,184 94%

Species\_recorded: Total: 97; woody: 23; ground: 89; Avg. spp./site: 40.3; std dev.: 5.4, 3 site(s)

Basal area: Avg./site: 11.5 m<sup>2</sup>/ha, range: 9.5 - 15 m<sup>2</sup>/ha, std. deviation: 2 m<sup>2</sup>/ha, 3 site(s)

Structural formation: Woodland: 67%; open-forest: 33%, 3 site(s)

Representative\_sites 55576, 55594, 56234.

**Stratum: Emergent**

Height avg. = 17.5m, 1 site

Crown cover avg. = 0.0%, 1 site

Dominant species (relative cover, frequency): *Corymbia clarksoniana* (100, 33%)

Frequent species (cover, frequency): *Corymbia clarksoniana* (1, 33%)

**Stratum: Tree 1**

Height avg. = 12.0m, range 11.4-12.5m, 3 sites

Crown cover avg. = 46.0%, range 35.0-62.0%, 3 sites

Dominant species (relative cover, frequency): *Corymbia clarksoniana* (75, 100%), *Eucalyptus crebra* (43, 33%), *Corymbia dallachiana* (15, 33%), *Corymbia tessellaris* (7, 67%)

Frequent species (cover, frequency): *Corymbia clarksoniana* (37, 100%), *Corymbia tessellaris* (4, 67%), *Canarium australianum* var. *australianum* (33%), *Corymbia dallachiana* (5, 33%), *Eucalyptus crebra* (16, 33%), *Livistona decora* (33%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Tree 2**

Height avg. = 4.9m, range 4.5-5.2m, 3 sites

Crown cover avg. = 7.0%, range 2.0-15.0%, 3 sites

Dominant species (relative cover, frequency): *Erythrina vespertilio* (52, 33%), *Corymbia clarksoniana* (51, 100%), *Planchonia careya* (37, 67%), *Eucalyptus crebra* (11, 33%), *Ficus opposita* (4, 33%)

Frequent species (cover, frequency): *Corymbia clarksoniana* (4, 100%), *Planchonia careya* (1, 67%), *Bursaria incana* (33%), *Canarium australianum* var. *australianum* (33%), *Erythrina vespertilio* (8, 33%), *Eucalyptus crebra* (2, 33%), *Ficus opposita* (33%)

**Stratum: Shrub 1**

Height avg. = 0.9m, range 0.4-1.2m, 3 sites

Crown cover avg. = 3.7%, range 0.0-7.0%, 3 sites

Dominant species (relative cover, frequency): *Larsenaikia ochreatea* (62, 33%), *Lantana camara*\* (23, 100%), *Corymbia clarksoniana* (19, 67%), *Canarium australianum* var. *australianum* (13, 33%), *Eucalyptus platyphylla* (13, 33%)

Frequent species (cover, frequency): *Lantana camara*\* (1, 100%), *Corymbia clarksoniana* (1, 67%), *Ficus opposita* (67%), *Atalaya hemiglauca* (33%), *Breynia oblongifolia* (33%), *Canarium australianum* var. *australianum* (1, 33%), *Clerodendrum floribundum* (33%), *Corymbia dallachiana* (33%), *Cryptostegia grandiflora*\* (33%), *Denhamia disperma* (33%), *Eucalyptus crebra* (33%), *Eucalyptus platyphylla* (33%), *Ficus rubiginosa* (33%), *Grevillea parallela* (33%), *Grewia retusifolia* (1, 33%), *Larsenaikia ochreatea* (5, 33%), *Livistona decora* (33%), *Planchonia careya* (33%), *Seringia lanceolata* (33%), *Tabernaemontana orientalis* (33%)

**Stratum: Ground**

Height avg. = 0.7m, range 0.5-0.8m, 3 sites

PFC avg. = 51.3%, range 37-65%, 3 sites

Dominant species (relative cover, frequency): *Bothriochloa decipiens* (69, 33%), *Heteropogon contortus* (39, 67%), *Themeda triandra* (18, 100%), *Sarga plumosum* (11, 33%), *Galactia tenuiflora forma sericea* (9, 33%)

Frequent species (cover, frequency): GRAMINOIDS: *Themeda triandra* (11, 100%), *Heteropogon contortus* (23, 67%), *Heteropogon triticeus* (3, 67%), *Imperata cylindrica* (67%), *Abildgaardia ovata* (33%), *Aristida gracilipes* (33%), *Arundinella nepalensis* (5, 33%), *Bothriochloa decipiens* (43, 33%), *Digitaria violascens*\* (2, 33%), *Eremochloa bimaculata* (2, 33%), *Fimbristylis dichotoma* (33%), *Megathyrsus maximus* var. *maximus*\* (1, 33%), *Melinis repens*\* (33%), *Mnesithea rottoellioides* (3, 33%), *Ophiuros exaltatus* (33%), *Oplismenus aemulus* (33%), *Paspalidium distans* (33%), *Sarga plumosum* (7, 33%), *Schizachyrium* indet. (2, 33%), *Scleria brownii* (33%), *Urochloa mosambicensis*\* (33%)

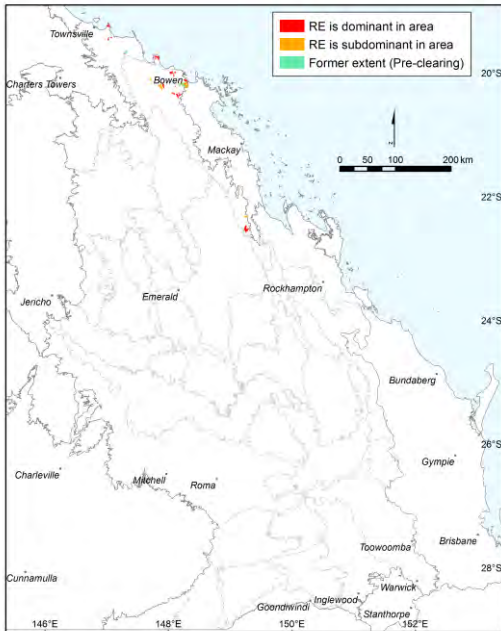
FORBS: *Cyanthillium cinereum* (100%), *Crotalaria medicaginea* (67%), *Eustrephus latifolius* (67%), *Ficus opposita* (67%), *Grewia retusifolia* (3, 67%), *Hyptis capitata*\* (67%), *Rhynchosia minima* var. *minima* (67%), *Sida hackettiana* (67%), *Spermacoce brachystema* (67%), *Tephrosia juncea* (67%), *Tridax procumbens*\* (67%), *Urania lagopodioides* (67%), *Vigna lanceolata* (67%), *Acanthospermum hispidum*\* (33%), *Ageratum houstonianum*\* (33%), *Apowollastonia spilanthis* (33%), *Brunoniella acaulis* (1, 33%), *Brunoniella acaulis* subsp. *acaulis* (33%), *Cajanus scarabaeoides* var. *scarabaeoides* (33%), *Canarium australianum* var. *australianum* (1, 33%), *Commelina diffusa* (33%), *Commelina ensifolia* (1, 33%), *Corchorus trilocularis* (33%), *Crotalaria* indet. (33%), *Crotalaria juncea*\* (33%), *Crotalaria pallida* var. *obovata*\* (1, 33%), *Denhamia disperma* (33%), *Desmodium gangeticum* (33%), *Desmodium heterocarpon* (33%), *Dianella caerulea* (33%), *Dianella longifolia* (33%), *Dianella longifolia* var. *longifolia* (33%), *Euphorbia hirta*\* (33%), *Flemingia lineata* (33%), *Flueggea virosa* subsp. *melanthesoides* (33%), *Galactia tenuiflora* (3, 33%), *Galactia tenuiflora forma sericea* (5, 33%), *Glycine tomentella* (33%), *Hibiscus meraukensis* (33%), *Indigofera australis* (33%), *Indigofera hirsuta* (33%), *Indigofera linifolia* (33%), *Indigofera linnaei* (33%), *Ipomoea* indet. (33%), *Jasminum didymum* subsp. *racemosum* (33%), *Lantana camara*\* (33%), *Larsenaikia ochreatea* (1, 33%), *Lomandra longifolia* (33%), *Neptunia dimorphantha* (33%), *Parthenium hysterophorus*\* (33%), *Passiflora foetida*\* (33%), *Phyllanthus virgatus* (33%), *Planchonia careya* (1, 33%), *Praxelis clematidea*\* (33%), *Rhynchosia minima* (33%), *Rostellularia adscendens* (33%), *Rostellularia adscendens* var. *hispida* (33%), *Seringia lanceolata* (1, 33%), *Sida cordifolia*\* (33%), *Sida rhombifolia*\* (33%), *Stephania japonica* var. *timoriensis* (33%), *Trichodesma zeylanicum* (33%), *Urena lobata*\* (33%), *Vigna* indet. (33%), *Waltheria indica* (33%), *Xanthium occidentale*\* (33%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Eucalyptus crebra, Corymbia spp., E. acmenoides woodland on igneous rocks. Coastal hills**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 24,606 21,242 86%

Species\_recorded: Total: 60; woody: 21; ground: 44; Avg. spp./site: 16.5; std dev.: 1.5, 2 site(s)

Basal area: Avg./site: 19.9 m<sup>2</sup>/ha, range: 14.5 - 30 m<sup>2</sup>/ha, std. deviation: 6 m<sup>2</sup>/ha, 4 site(s)

Structural formation: Woodland: 25%; open-woodland: 25%; open-shrubland: 25%; low woodland: 25%, 4 site(s)

Representative\_sites 17519, 19059, 19060, 26560.

**Stratum: Emergent**

Height avg. = 17.0m, 1 site

Crown cover avg. = 8.0%, 1 site

Dominant species (relative cover, frequency): *Eucalyptus acmenoides* (100, 25%)

Frequent species (cover, frequency): *Eucalyptus acmenoides* (8, 25%)

**Stratum: Tree 1**

Height avg. = 14.0m, range 9-21m, 3 sites

Crown cover avg. = 32.0%, range 26.0-40.0%, 3 sites

Dominant species (relative cover, frequency): *Eucalyptus acmenoides* (75, 50%), *Banksia integrifolia* (54, 25%), *Allocasuarina littoralis* (46, 25%), *Corymbia intermedia* (25, 50%)

Frequent species (cover, frequency): *Corymbia intermedia* (50%), *Eucalyptus acmenoides* (20, 50%), *Allocasuarina littoralis* (12, 25%), *Banksia integrifolia* (14, 25%)

**Stratum: Tree 2**

Height avg. = 14.0m, 1 site

Crown cover avg. = 15.0%, 1 site

Dominant species (relative cover, frequency): *Banksia integrifolia* (50, 50%), *Allocasuarina torulosa* (50, 25%), *Allocasuarina littoralis* (50, 25%)

Frequent species (cover, frequency): *Banksia integrifolia* (50%), *Allocasuarina littoralis* (25%), *Allocasuarina torulosa* (25%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Shrub 1**

Height avg. = 3.4m, range 1.5-6m, 4 sites

Crown cover avg. = 21.5%, range 1.0-42.0%, 4 sites

*Dominant species (relative cover, frequency):* *Acacia leptostachya* (71, 25%), *Xanthorrhoea latifolia* (60, 25%), *Allocasuarina littoralis* (55, 25%), *Eucalyptus acmenoides* (50, 25%), *Banksia integrifolia* (50, 25%)

*Frequent species (cover, frequency):* *Acacia leptostachya* (30, 25%), *Acacia simsii* (2, 25%), *Allocasuarina littoralis* (5, 25%), *Banksia integrifolia* (25%), *Clematicissus opaca* (25%), *Cochlospermum gillivraei* (2, 25%), *Corymbia intermedia* (4, 25%), *Drypetes deplanchei* (1, 25%), *Eucalyptus acmenoides* (25%), *Macrozamia miquelii* (10, 25%), *Melaleuca viridiflora* (25%), *Persoonia falcata* (5, 25%), *Planchonia careya* (1, 25%), *Psydrax saligna* (1, 25%), *Xanthorrhoea latifolia* (15, 25%)

**Stratum: Shrub 2**

Height avg. = 1.5m, range 1-2m, 2 sites

Crown cover avg. = 47.3%, range 38.0-63.0%, 3 sites

*Dominant species (relative cover, frequency):* *Xanthorrhoea indet.* (97, 25%), *Xanthorrhoea johnsonii* (73, 50%), *Cyclophyllum coprosmoides* (49, 25%), *Corymbia intermedia* (3, 25%), *Jasminum didymum* (2, 25%)

*Frequent species (cover, frequency):* *Allocasuarina littoralis* (50%), *Xanthorrhoea johnsonii* (41, 50%), *Banksia integrifolia* (1, 25%), *Corymbia intermedia* (1, 25%), *Cyclophyllum coprosmoides* (20, 25%), *Eucalyptus acmenoides* (25%), *Eucalyptus exserta* (25%), *Jasminum didymum* (1, 25%), *Melaleuca viridiflora* (25%), *Xanthorrhoea indet.* (37, 25%)

**Stratum: Ground**

Height avg. = 1.0m, range 1-1m, 2 sites

PFC avg. = 17.0%, range 16-18%, 2 sites

*Dominant species (relative cover, frequency):* *Xanthorrhoea indet.* (78, 50%), *Hibbertia indet.* (47, 100%), *Themeda avenacea* (5, 50%), *Dampiera indet.* (5, 50%), *Hibbertia cistoidea* (5, 50%)

*Frequent species (cover, frequency):* GRAMINOIDS: *Aristida indet.* (50%), *Gahnia indet.* (50%), *Ottochloa indet.* (50%), *Panicum indet.* (50%), *Themeda avenacea* (1, 50%)

FORBS: *Dodonaea indet.* (100%), *Hibbertia indet.* (8, 100%), *Pteridium esculentum* (100%), *Acrotriche aggregata* (50%), *Allocasuarina littoralis* (50%), *Banksia integrifolia* (50%), *Corymbia intermedia* (50%), *Crotalaria indet.* (50%), *Dampiera indet.* (1, 50%), *Dianella caerulea* (50%), *Eucalyptus acmenoides* (50%), *Euphorbia indet.* (50%), *Geitonoplesium cymosum* (50%), *Glochidion indet.* (50%), *Glycine indet.* (50%), *Gonocarpus indet.* (50%), *Hibbertia cistoidea* (1, 50%), *Lomandra multiflora subsp. multiflora* (50%), *Tricoryne indet.* (50%), *Xanthorrhoea indet.* (15, 50%)

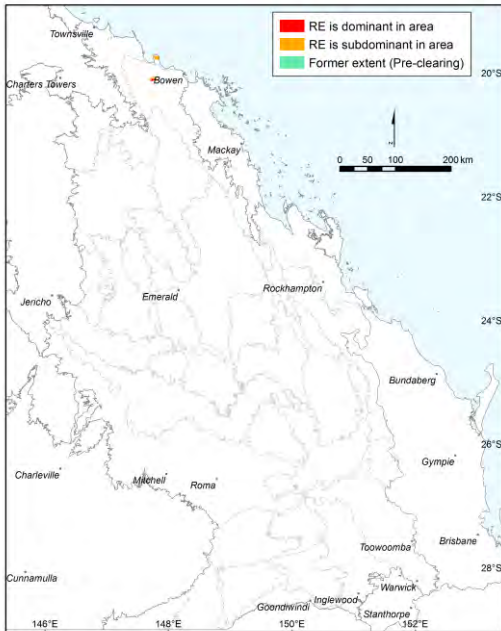
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**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

Lophostemon spp. woodland on igneous rocks. Coastal hills



Adrian Borsboom

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 3,134 3,092 99%

Species\_recorded: Total: 38; woody: 19; ground: 28; Avg. spp./site: 30.0; std dev.: 0.0, 1 site(s)

Basal area: Avg./site: 17.0 m<sup>2</sup>/ha, range: 17.0 - 17 m<sup>2</sup>/ha, std. deviation: 0 m<sup>2</sup>/ha, 1 site(s)

Structural formation: Closed-scrub: 50%; closed-heath: 50%, 2 site(s)

Representative\_sites 14844, 55135.

**Stratum: Emergent**

Height avg. = 7.8m, 1 site

Crown cover avg. = 18.0%, 1 site

Dominant species (relative cover, frequency): *Corymbia intermedia* (100, 50%)

Frequent species (cover, frequency): *Corymbia intermedia* (19, 50%)

**Stratum: Tree 1**

Height avg. = 4.5m, 1 site

Crown cover avg. = 98.0%, 1 site

Dominant species (relative cover, frequency): *Lophostemon confertus* (82, 50%), *Acacia aulacocarpa* (18, 50%)

Frequent species (cover, frequency): *Acacia aulacocarpa* (18, 50%), *Acacia leptocarpa* (50%), *Acacia leptostachya* (50%), *Eucalyptus portuensis* (50%), *Lophostemon confertus* (81, 50%)

**Stratum: Tree 2**

Height avg. = 3.3m, 1 site

Crown cover avg. = 10.0%, 1 site

Dominant species (relative cover, frequency): *Lophostemon confertus* (50, 50%), *Acacia aulacocarpa* (35, 50%), *Eucalyptus exserta* (15, 50%)

Frequent species (cover, frequency): *Acacia aulacocarpa* (4, 50%), *Eucalyptus exserta* (2, 50%), *Lophostemon confertus* (5, 50%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Shrub 1**

Height avg. = 1.9m, range 1.8-2m, 2 sites

Crown cover avg. = 59.0%, range 23.0-95.0%, 2 sites

Dominant species (relative cover, frequency): *Lophostemon confertus* (55, 100%), *Xanthorrhoea johnsonii* (39, 50%), *Acacia leptostachya* (13, 50%), *Acacia aulacocarpa* (10, 50%), *Eucalyptus exserta* (8, 100%)

Frequent species (cover, frequency): *Eucalyptus exserta* (8, 100%), *Lophostemon confertus* (46, 100%), *Acacia aulacocarpa* (2, 50%), *Acacia leptostachya* (3, 50%), *Alphitonia excelsa* (50%), *Canarium australianum* (50%), *Coelospermum reticulatum* (50%), *Denhamia disperma* (50%), *Diospyros geminata* (2, 50%), *Diospyros humilis* (50%), *Hibiscus divaricatus* (50%), *Lantana camara\** (50%), *Persoonia falcata* (50%), *Planchonia careya* (50%), *Psychotria fitzalanii* (50%), *Xanthorrhoea johnsonii* (10, 50%)

**Stratum: Shrub 2**

Height avg. = 1.0m, 1 site

Crown cover avg. = 30.0%, 1 site

Dominant species (relative cover, frequency): *Lophostemon confertus* (100, 50%)

Frequent species (cover, frequency): *Lophostemon confertus* (30, 50%)

**Stratum: Ground**

Height avg. = 0.8m, 1 site

PFC avg. = 10.0%, 1 site

Dominant species (relative cover, frequency): *Scleria sphacelata* (59, 100%), *Lomandra confertifolia subsp. pallida* (8, 100%), *Diospyros geminata* (8, 100%), *Lophostemon confertus* (8, 100%), *Enteropogon unispiceus* (2, 100%)

Frequent species (cover, frequency): GRAMINOIDS: *Enteropogon unispiceus* (100%), *Panicum mitchellii* (100%), *Scleria brownii* (100%), *Scleria sphacelata* (7, 100%)

FORBS: *Acacia leiocalyx subsp. leiocalyx* (100%), *Acronychia laevis* (100%), *Adiantum atroviride* (100%), *Breynia oblongifolia* (100%), *Clematicissus opaca* (100%), *Coelospermum reticulatum* (100%), *Diospyros geminata* (1, 100%), *Drypetes deplanchei* (100%), *Indigofera pratensis* (100%), *Lomandra confertifolia subsp. pallida* (1, 100%), *Lophostemon confertus* (1, 100%), *Parsonia lanceolata* (100%), *Passiflora aurantia var. aurantia* (100%), *Psychotria fitzalanii* (100%), *Smilax australis* (100%)

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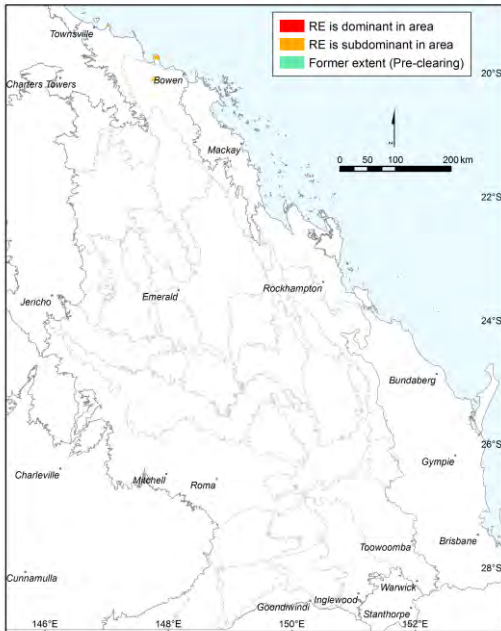
Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus



**Allocasuarina torulosa, Livistona decora woodland on igneous rocks. Coastal hills**



Adrian Borsboom

**Pre-clearing area (ha), remnant area (ha) and per cent remaining:** 2,441 2,400 98%

**Species\_recorded:** Total: 94; woody: 44; ground: 80; Avg. spp./site: 38.3; std dev.: 3.3, 3 site(s)

**Basal area:** Avg./site: 15.7 m<sup>2</sup>/ha, range: 12.0 - 21 m<sup>2</sup>/ha, std. deviation: 4 m<sup>2</sup>/ha, 3 site(s)

**Structural formation:** Woodland: 33%; open-forest: 33%; closed-forest: 33%, 3 site(s)

**Representative\_sites** 14881, 55114, 55514.

**Stratum: Emergent**

**Height avg. = 24.0m, 1 site**

**Crown cover avg. = 0.0%, 1 site**

*Dominant species (relative cover, frequency): Eucalyptus tereticornis (100, 33%)*

*Frequent species (cover, frequency): Eucalyptus tereticornis (1, 33%)*

**Stratum: Tree 1**

**Height avg. = 15.8m, range 11-20m, 3 sites**

**Crown cover avg. = 59.3%, range 25.0-93.0%, 3 sites**

*Dominant species (relative cover, frequency): Eucalyptus acmenoides (100, 33%), Corymbia intermedia (61, 67%), Eucalyptus portuensis (42, 33%), Eucalyptus tereticornis (29, 33%), Acacia leptocarpa (6, 33%)*

*Frequent species (cover, frequency): Corymbia intermedia (42, 67%), Acacia leptocarpa (2, 33%), Allocasuarina torulosa (33%), Corymbia tessellaris (33%), Eucalyptus acmenoides (25, 33%), Eucalyptus portuensis (16, 33%), Eucalyptus tereticornis (26, 33%), Livistona decora (33%)*

**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

**Frequent species:** Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Tree 2**

Height avg. = 10.3m, range 5-15m, 3 sites

Crown cover avg. = 17.7%, range 0.0-27.0%, 3 sites

Dominant species (relative cover, frequency): *Livistona decora* (98, 33%), *Eucalyptus acmenoides* (67, 33%), *Allocasuarina torulosa* (39, 100%), *Corymbia intermedia* (6, 100%)

Frequent species (cover, frequency): *Allocasuarina torulosa* (4, 100%), *Corymbia intermedia* (100%), *Eucalyptus acmenoides* (2, 33%), *Eucalyptus tereticornis* (33%), *Livistona decora* (25, 33%), *Schefflera actinophylla* (33%)

**Stratum: Shrub 1**

Height avg. = 2.1m, range 1.2-3m, 3 sites

Crown cover avg. = 18.7%, range 3.0-29.0%, 3 sites

Dominant species (relative cover, frequency): *Xanthorrhoea latifolia subsp. latifolia* (97, 33%), *Xanthorrhoea johnsonii* (64, 67%), *Trema tomentosa* (26, 33%), *Litsea fawcettiana* (8, 33%), *Toona ciliata* (8, 33%)

Frequent species (cover, frequency): *Acacia flavescens* (67%), *Allocasuarina torulosa* (67%), *Ficus opposita* (67%), *Lantana camara\** (67%), *Mallotus philippensis* (67%), *Neolitsea brassii* (67%), *Xanthorrhoea johnsonii* (17, 67%), *Acacia leptocarpa* (33%), *Acacia leptostachya* (33%), *Acronychia laevis* (33%), *Antidesma parvifolium* (33%), *Breynia oblongifolia* (33%), *Brucea javanica* (33%), *Canarium australasicum* (33%), *Canarium australianum var. australianum* (33%), *Clerodendrum longiflorum var. glabrum* (33%), *Denhamia disperma* (33%), *Diospyros geminata* (33%), *Eucalyptus portuensis* (33%), *Eucalyptus tereticornis* (33%), *Ficus rubiginosa forma rubiginosa* (33%), *Glochidion lobocarpum* (1, 33%), *Guioa acutifolia* (1, 33%), *Litsea fawcettiana* (3, 33%), *Livistona decora* (33%), *Lophostemon confertus* (33%), *Macaranga tanarius* (33%), *Mallotus nesophilus* (33%), *Persoonia falcata* (33%), *Pipturus argenteus* (33%), *Planchonia careya* (33%), *Schefflera actinophylla* (33%), *Tarenna dallachiana* (33%), *Tephrosia brachyodon var. brachyodon* (33%), *Toona ciliata* (3, 33%), *Trema tomentosa* (5, 33%), *Trema tomentosa var. tomentosa* (33%), *Trichodesma zeylanicum* (33%), *Xanthorrhoea latifolia subsp. latifolia* (3, 33%)

**Stratum: Shrub 2**

Height avg. = 1.5m, 1 site

Crown cover avg. = 10.0%, 1 site

Dominant species (relative cover, frequency): *Xanthorrhoea latifolia subsp. latifolia* (95, 33%), *Polyscias elegans* (1, 33%), *Eucalyptus acmenoides* (1, 33%), *Corymbia intermedia* (1, 33%), *Allocasuarina torulosa* (1, 33%)

Frequent species (cover, frequency): *Acacia maidenii* (33%), *Allocasuarina torulosa* (33%), *Corymbia intermedia* (33%), *Eucalyptus acmenoides* (33%), *Polyscias elegans* (33%), *Xanthorrhoea latifolia subsp. latifolia* (10, 33%)

**Stratum: Ground**

Height avg. = 1.0m, range 0.8-1.3m, 3 sites

PFC avg. = 53.7%, range 30-100%, 3 sites

Dominant species (relative cover, frequency): *Ottochloa nodosa* (82, 33%), *Panicum mitchellii* (41, 67%), *Imperata cylindrica* (23, 67%), *Xanthorrhoea latifolia subsp. latifolia* (9, 33%), *Scleria sphacelata* (9, 33%)

Frequent species (cover, frequency): GRAMINOIDS: *Imperata cylindrica* (8, 67%), *Panicum mitchellii* (12, 67%), *Chionachne cyathopoda* (33%), *Cymbopogon queenslandicus* (33%), *Cyperus haspan* (33%), *Entolasia stricta* (33%), *Gahnia aspera* (33%), *Heteropogon triticeus* (33%), *Lepidosperma laterale* (33%), *Oplismenus aemulus* (33%), *Oplismenus compositus* (33%), *Ottochloa nodosa* (90, 33%), *Scleria sphacelata* (2, 33%), *Tetraria capillaris* (33%), *Themeda triandra* (33%)

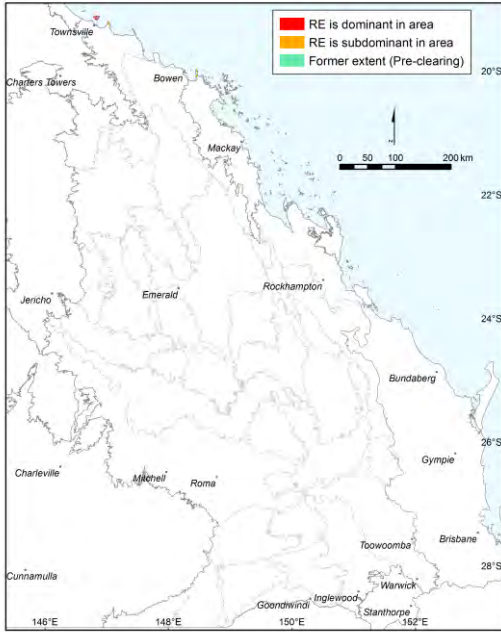
FORBS: *Adiantum atroviride* (1, 67%), *Anisomeles indet.* (67%), *Corymbia intermedia* (1, 67%), *Eustrephus latifolius* (1, 67%), *Lomandra longifolia* (2, 67%), *Passiflora aurantia var. aurantia* (67%), *Passiflora suberosa\** (67%), *Xanthorrhoea johnsonii* (3, 67%), *Acacia flavescens* (1, 33%), *Acacia leptocarpa* (33%), *Acianthus fornicatus* (33%), *Adiantum hispidulum var. hispidulum* (33%), *Allocasuarina torulosa* (33%), *Blechnum cartilagineum* (33%), *Breynia oblongifolia* (33%), *Brucea javanica* (33%), *Brunoniella australis* (33%), *Canarium australianum var. australianum* (33%), *Cassytha pubescens* (33%), *Chiloglottis sylvestris* (33%), *Cissus oblonga* (33%), *Clematicissus opaca* (33%), *Commelina diffusa* (33%), *Commelina ensifolia* (33%), *Corybas barbarae* (33%), *Cyanthillium cinereum* (33%), *Desmodium gunnii* (33%), *Desmodium rhytidophyllum* (33%), *Dianella caerulea* (33%), *Dianella caerulea var. assera* (1, 33%), *Dianella caerulea var. vannata* (33%), *Dioscorea transversa* (33%), *Emilia sonchifolia\** (33%), *Emilia sonchifolia var. sonchifolia\** (33%), *Erigeron sumatrensis\** (33%), *Eucalyptus acmenoides* (33%), *Gomphocarpus physocarpus\** (33%), *Homalanthus populifolius* (33%), *Hyptis capitata\** (33%), *Jasminum didymum subsp. racemosum* (33%), *Lagenophora gracilis* (33%), *Lantana camara\** (33%), *Livistona decora* (33%), *Lobelia purpurascens* (33%), *Lomandra multiflora subsp. multiflora* (33%), *Macaranga tanarius* (33%), *Macrozamia miquelii* (33%), *Mallotus philippensis* (33%), *Milletia pinnata* (33%), *Neolitsea brassii* (1, 33%), *Neolitsea brassii* (1, 33%), *Oxalis corniculata\** (33%), *Pandanus cookii* (33%), *Passiflora foetida\** (33%), *Passiflora subpeltata\** (33%), *Physalis peruviana\** (33%), *Plectranthus graveolens* (33%), *Pteridium esculentum* (5, 33%), *Pteris tremula* (33%), *Pterostylis revoluta* (33%), *Rubus probus* (33%), *Secamone elliptica* (33%), *Seringia lanceolata* (33%), *Smilax glycyphylla* (33%), *Trema tomentosa var. tomentosa* (33%), *Xanthorrhoea latifolia subsp. latifolia* (10, 33%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

Mixed low woodland to shrubland on igneous rocks. Coastal hills



Adrian Borsboom

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 4,085 4,072 100%

Species\_recorded: Total: 150; woody: 80; ground: 86; Avg. spp./site: 45.8; std dev.: 9.3, 4 site(s)

Basal area: Avg./site: 6.9 m<sup>2</sup>/ha, range: 3.0 - 17 m<sup>2</sup>/ha, std. deviation: 4 m<sup>2</sup>/ha, 7 site(s)

Structural formation: Low open-woodland: 29%; low open-forest: 29%; woodland: 14%; open-forest: 14%; low woodland: 14%, 7 site(s)

Representative\_sites 19063, 26112, 26555, 26561, 26566, 55021, 55414.

Stratum: Tree 1

Height avg. = 8.3m, range 6-11m, 7 sites

Crown cover avg. = 41.0%, range 4.0-76.0%, 7 sites

Dominant species (relative cover, frequency): *Lophostemon grandiflorus* subsp. *riparius* (58, 29%), *Corymbia tessellaris* (50, 57%), *Canarium australianum* (10, 29%), *Denhamia disperma* (9, 29%), *Cochlospermum gillivraei* (5, 86%)

Frequent species (cover, frequency): *Cochlospermum gillivraei* (4, 86%), *Corymbia tessellaris* (11, 57%), *Canarium australianum* (8, 29%), *Denhamia disperma* (3, 29%), *Lophostemon grandiflorus* subsp. *riparius* (27, 29%), *Acacia crassicaarpa* (5, 14%), *Acacia leptostachya* (30, 14%), *Acacia spirorbis* subsp. *solandri* (30, 14%), *Canarium australianum* var. *australianum* (5, 14%), *Eucalyptus drepanophylla* (4, 14%), *Eucalyptus exserta* (11, 14%), *Gossia bidwillii* (14%), *Jasminum didymum* subsp. *racemosum* (14%), *Lophostemon confertus* (10, 14%), *Lophostemon confertus* x *L. grandiflorus* (30, 14%), *Melaleuca viridiflora* (14%), *Melia azedarach* (14%), *Pandanus cookii* (14%), *Planchonia careya* (3, 14%), *Pleiogynium timorense* (15, 14%), *Psydrax saligna* (14%), *Terminalia muelleri* (5, 14%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Tree 2**

Height avg. = 5.6m, range 4.5-7m, 5 sites

Crown cover avg. = 12.6%, range 2.0-30.0%, 5 sites

Dominant species (relative cover, frequency): *Cochlospermum gillivraei* (47, 29%), *Alphitonia excelsa* (30, 43%), *Drypetes deplanchei* (28, 29%), *Larsenaikia ochreatea* (12, 29%), *Sterculia quadrifida* (7, 29%)

Frequent species (cover, frequency): *Alphitonia excelsa* (1, 43%), *Cochlospermum gillivraei* (14, 29%), *Denhamia disperma* (29%), *Drypetes deplanchei* (2, 29%), *Euroschinus falcatus* var. *falcatus* (29%), *Jasminum didymum* subsp. *racemosum* (29%), *Larsenaikia ochreatea* (4, 29%), *Psydrax saligna* (29%), *Sterculia quadrifida* (3, 29%), *Acacia leptocarpa* (14%), *Acacia leptostachya* (5, 14%), *Acacia simsii* (1, 14%), *Acacia spirorbis* subsp. *solandri* (14%), *Canarium australasicum* (14%), *Canarium australianum* var. *australianum* (2, 14%), *Clematicissus opaca* (14%), *Corymbia clarksoniana* (14%), *Corymbia tessellaris* (2, 14%), *Cupaniopsis anacardioides* (2, 14%), *Denhamia bilocularis* (14%), *Dioscorea transversa* (14%), *Diospyros geminata* (14%), *Eucalyptus drepanophylla* (14%), *Eucalyptus exserta* (1, 14%), *Euroschinus falcatus* var. *angustifolius* (1, 14%), *Falcataria toona* (1, 14%), *Ficus rubiginosa* forma *rubiginosa* (14%), *Geijera salicifolia* (14%), *Lophostemon grandiflorus* subsp. *riparius* (14%), *Melia azedarach* (14%), *Pandanus cookii* (14%), *Petalostigma pubescens* (14%), *Planchonia careya* (14%), *Pleiogynium timorense* (14%), *Psydrax odorata* (14%), *Smilax australis* (14%), *Tabernaemontana orientalis* (3, 14%), *Terminalia muelleri* (14%), *Ziziphus mauritiana*\* (14%)

**Stratum: Shrub 1**

Height avg. = 2.5m, range 1.2-4m, 7 sites

Crown cover avg. = 25.5%, range 8.0-56.0%, 7 sites

Dominant species (relative cover, frequency): *Mallotus philippensis* (39, 29%), *Larsenaikia ochreatea* (36, 43%), *Lantana camara*\* (26, 43%), *Alphitonia excelsa* (21, 43%), *Drypetes deplanchei* (11, 29%)

Frequent species (cover, frequency): *Tabernaemontana orientalis* (1, 57%), *Alphitonia excelsa* (6, 43%), *Exocarpos latifolius* (43%), *Flueggea virosa* subsp. *melanthesoides* (1, 43%), *Jasminum didymum* subsp. *racemosum* (1, 43%), *Lantana camara*\* (5, 43%), *Larsenaikia ochreatea* (4, 43%), *Canarium australasicum* (29%), *Cochlospermum gillivraei* (1, 29%), *Drypetes deplanchei* (1, 29%), *Geijera salicifolia* (2, 29%), *Indigofera pratensis* (29%), *Jasminum simplicifolium* subsp. *australiense* (1, 29%), *Mallotus philippensis* (21, 29%), *Planchonia careya* (1, 29%), *Acacia simsii* (1, 14%), *Acacia umbellata* (1, 14%), *Alectryon connatus* (2, 14%), *Antidesma parvifolium* (2, 14%), *Auranticarpa rhombifolia* (1, 14%), *Breynia oblongifolia* (14%), *Canarium australianum* var. *australianum* (1, 14%), *Canarium australianum* var. *glabrum* (2, 14%), *Capparis arborea* (1, 14%), *Cassytha filiformis* (1, 14%), *Coelospermum reticulatum* (14%), *Corymbia tessellaris* (1, 14%), *Cryptostegia grandiflora*\* (1, 14%), *Cupaniopsis anacardioides* (1, 14%), *Cyclophyllum coprosmoides* (1, 14%), *Denhamia disperma* (2, 14%), *Diospyros geminata* (1, 14%), *Ficus opposita* (1, 14%), *Ficus rubiginosa* forma *rubiginosa* (14%), *Flueggea leucopyrus* (1, 14%), *Glossocarya hemiderma* (1, 14%), *Gossia bidwillii* (1, 14%), *Jagera pseudorhus* (1, 14%), *Jasminum didymum* (2, 14%), *Lophostemon grandiflorus* subsp. *riparius* (2, 14%), *Melodorum leichhardtii* (1, 14%), *Pandanus cookii* (14%), *Persoonia falcata* (10, 14%), *Petalostigma pubescens* (1, 14%), *Pimelea sericostachya* (2, 14%), *Pittosporum ferrugineum* subsp. *ferrugineum* (1, 14%), *Pittosporum spinescens* (10, 14%), *Secamone elliptica* (1, 14%), *Sersalisia sericea* (14%), *Sida hackettiana* (2, 14%), *Stachytarpheta jamaicensis*\* (2, 14%), *Timonius timon* var. *timon* (14%), *Turraea pubescens* (2, 14%), *Ziziphus mauritiana*\* (14%)

**Stratum: Shrub 2**

Height avg. = 1.2m, 1 site

Crown cover avg. = 7.0%, 1 site

Frequent species (cover, frequency): *Alyxia spicata* (1, 14%), *Antidesma parvifolium* (1, 14%), *Clematicissus opaca* (14%), *Eugenia reinwardtiana* (5, 14%)

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Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Ground**

Height avg. = 0.3m, range 0.1-0.5m, 3 sites

PFC avg. = 39.5%, range 19-66%, 4 sites

*Dominant species (relative cover, frequency): Heteropogon contortus (44, 50%), Cymbopogon ambiguus (38, 50%), Sarga plumosum (23, 25%), Triodia stenostachya (19, 25%), Desmodium rhytidophyllum (18, 50%)*

*Frequent species (cover, frequency): GRAMINOIDS: Heteropogon triticeus (2, 75%), Cymbopogon ambiguus (9, 50%), Heteropogon contortus (28, 50%), Scleria brownii (1, 50%), Themeda triandra (4, 50%), Aristida holathera var. holathera (25%), Aristida latifolia (3, 25%), Arthragrostis deschampsoides (25%), Cyperus indet. (25%), Digitaria minima (25%), Enneapogon indet. (25%), Fimbristylis dichotoma (25%), Gahnia aspera (25%), Melinis repens\* (25%), Mnesithea rottboellioides (2, 25%), Paspalidium distans (25%), Sarga plumosum (12, 25%), Triodia stenostachya (10, 25%), Tripogon loliiformis (25%)*

*FORBS: Glycine indet. (75%), Passiflora foetida\* (1, 75%), Bidens bipinnata\* (1, 50%), Commelina diffusa (50%), Desmodium rhytidophyllum (4, 50%), Dianella caerulea (50%), Galactia tenuiflora (50%), Heliotropium peninsulare (50%), Hyptis capitata\* (50%), Indigofera pratensis (50%), Lantana camara\* (2, 50%), Rhynchosia minima (1, 50%), Stachytarpheta jamaicensis\* (1, 50%), Abelmoschus moschatus subsp. tuberosus (25%), Acacia simsii (25%), Adiantum hispidulum var. hispidulum (25%), Anisomeles indet. (25%), Aristolochia pubera (25%), Breynia oblongifolia (25%), Brunoniella acaulis (25%), Cajanus reticulatus (7, 25%), Cayratia trifolia (25%), Cheilanthes brownii (25%), Cheilanthes nudiuscula (25%), Cheilanthes sieberi subsp. sieberi (1, 25%), Cissus reniformis (25%), Clematicissus opaca (25%), Clerodendrum floribundum (25%), Commelina indet. (25%), Commelina lanceolata (25%), Corchorus aestuans (25%), Corymbia tessellaris (1, 25%), Cyathillium cinereum (25%), Eleutheranthera ruderalis\* (2, 25%), Euphorbia hirta\* (25%), Euphorbia indet. (25%), Euroschinus falcatus var. angustifolius (25%), Eustrephus latifolius (25%), Evolvulus alsinoides (25%), Grewia retusifolia (25%), Hibiscus vitifolius (25%), Hoya australis subsp. australis (25%), Indigofera hirsuta (25%), Jasminum didymum subsp. racemosum (1, 25%), Lomandra longifolia (3, 25%), Lophostemon grandiflorus subsp. riparius (1, 25%), Melhania oblongifolia (25%), Mesosphaerum suaveolens\* (1, 25%), Peripleura hispidula (25%), Phyllanthus indet. (25%), Pimelea sericostachya subsp. sericostachya (25%), Plectranthus indet. (2, 25%), Pseuderanthemum variabile (25%), Pterocaulon indet. (25%), Sida indet. (25%), Spermacoce brachystema (25%), Spermacoce multicaulis (25%), Stephania japonica (25%), Tacca leontopetaloides (25%), Tricoryne anceps subsp. anceps (25%), Turraea pubescens (1, 25%), Urena lobata\* (25%)*

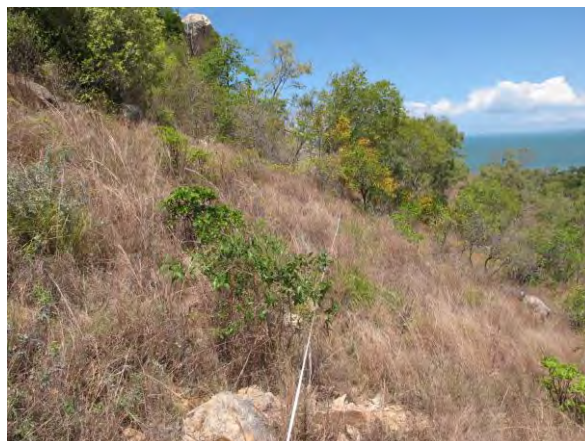
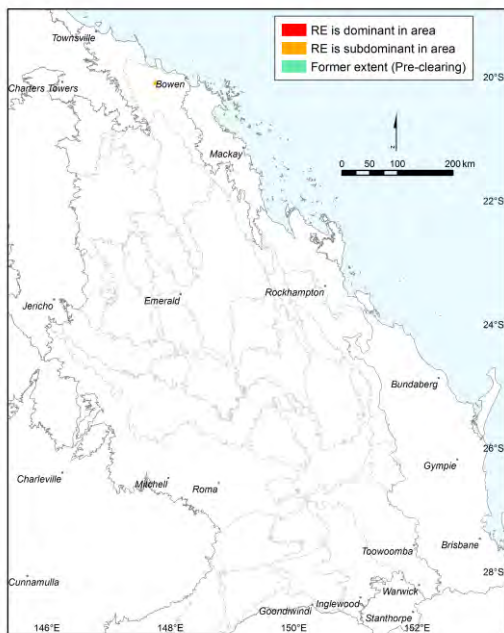
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Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

Acacia julifera shrubland +/- Eucalyptus drepanophylla



Adrian Borsboom

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 1,430 1,394 97%

Species\_recorded: Total: 14; woody: 6; ground: 8; Avg. spp./site: 14.0; std dev.: 0.0, 1 site(s)

Basal area: Avg./site: 8.0 m<sup>2</sup>/ha, range: 8.0 - 8 m<sup>2</sup>/ha, std. deviation: 0 m<sup>2</sup>/ha, 1 site(s)

Structural formation: Low woodland: 100%, 1 site(s)

Representative\_sites 19037.

**Stratum: Tree 1**

Height avg. = 10.0m, 1 site

Crown cover avg. = 36.0%, 1 site

Dominant species (relative cover, frequency): *Eucalyptus drepanophylla* (54, 100%), *Acacia julifera subsp. julifera* (46, 100%)

Frequent species (cover, frequency): *Acacia julifera subsp. julifera* (11, 100%), *Corymbia clarksoniana* (100%), *Eucalyptus drepanophylla* (13, 100%)

**Stratum: Tree 2**

Height avg. = 5.0m, 1 site

Crown cover avg. = 1.0%, 1 site

Dominant species (relative cover, frequency): *Eucalyptus drepanophylla* (50, 100%), *Acacia julifera subsp. julifera* (50, 100%)

Frequent species (cover, frequency): *Acacia julifera subsp. julifera* (100%), *Eucalyptus drepanophylla* (100%)

**Stratum: Shrub 1**

Height avg. = 2.0m, 1 site

Crown cover avg. = 10.0%, 1 site

Dominant species (relative cover, frequency): *Acacia julifera subsp. julifera* (89, 100%), *Petalostigma pubescens* (9, 100%), *Eucalyptus drepanophylla* (1, 100%), *Acanthaceae* indet. (1, 100%)

Frequent species (cover, frequency): *Acacia julifera subsp. julifera* (10, 100%), *Acanthaceae* indet. (100%), *Eucalyptus drepanophylla* (100%), *Petalostigma pubescens* (1, 100%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

## Technical Description

Regional ecosystem: 11.12.16a

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### Stratum: Shrub 2

Height avg. = 1.5m, 1 site

Crown cover avg. = 1.0%, 1 site

*Dominant species (relative cover, frequency): Terminalia indet. (33, 100%), Eucalyptus drepanophylla (33, 100%), Acacia julifera subsp. julifera (33, 100%)*

*Frequent species (cover, frequency): Acacia julifera subsp. julifera (100%), Eucalyptus drepanophylla (100%), Terminalia indet. (100%)*

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### Stratum: Ground

Height avg. = 1.0m, 1 site

PFC avg. = 5.0%, 1 site

*Dominant species (relative cover, frequency): Scleria sphacelata (43, 100%), Eriachne pallescens (43, 100%), Phyllanthus novae-hollandiae (2, 100%), Lomandra longifolia (2, 100%), Dodonaea lanceolata var. subsessilifolia (2, 100%)*

*Frequent species (cover, frequency): GRAMINOIDS: Digitaria diffusa (100%), Eriachne pallescens (2, 100%), Scleria sphacelata (2, 100%)*

*FORBS: Clematicissus opaca (100%), Coelospermum decipiens (100%), Dodonaea lanceolata var. subsessilifolia (100%), Lomandra longifolia (100%), Phyllanthus novae-hollandiae (100%)*

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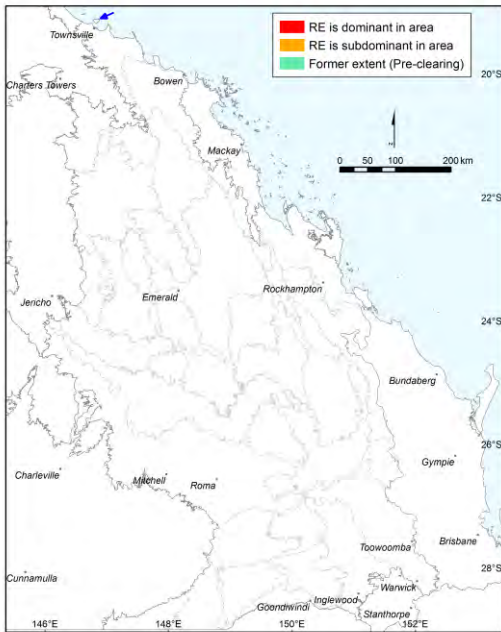
Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

1/03/2018

**Triodia stenostachya hummock grassland with scattered shrubs or trees or very open shrubland / low woodland**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 13 13 100%

Species\_recorded: Total: 17; woody: 13; ground: 4; Average species per site and standard deviation not available

Basal area: 0

Structural formation: Low open-woodland: 100%, 1 site(s)

Representative\_sites 26557.

**Stratum: Emergent**

Height avg. = 10.0m, 1 site

Crown cover avg. = 8.0%, 1 site

Dominant species (relative cover, frequency): *Araucaria cunninghamii* var. *cunninghamii* (100, 100%)

Frequent species (cover, frequency): *Araucaria cunninghamii* var. *cunninghamii* (8, 100%)

**Stratum: Tree 1**

Height avg. = 6.0m, 1 site

Crown cover avg. = 10.0%, 1 site

Dominant species (relative cover, frequency): *Cochlospermum gillivraei* (30, 100%), *Pandanus cookii* (20, 100%), *Corymbia tessellaris* (20, 100%), *Canarium australianum* (20, 100%), *Ficus rubiginosa* (10, 100%)

Frequent species (cover, frequency): *Canarium australianum* (2, 100%), *Cochlospermum gillivraei* (3, 100%), *Corymbia tessellaris* (2, 100%), *Ficus rubiginosa* (1, 100%), *Pandanus cookii* (2, 100%)

**Stratum: Shrub 1**

Height avg. = 2.0m, 1 site

Crown cover avg. = 11.0%, 1 site

Dominant species (relative cover, frequency): *Alphitonia excelsa* (45, 100%), *Pittosporum spinescens* (9, 100%), *Persoonia falcata* (9, 100%), *Mallotus philippensis* (9, 100%), *Geijera salicifolia* (9, 100%)

Frequent species (cover, frequency): *Alphitonia excelsa* (5, 100%), *Diospyros geminata* (1, 100%), *Ficus microcarpa* (1, 100%), *Geijera salicifolia* (1, 100%), *Mallotus philippensis* (1, 100%), *Persoonia falcata* (1, 100%), *Pittosporum spinescens* (1, 100%)

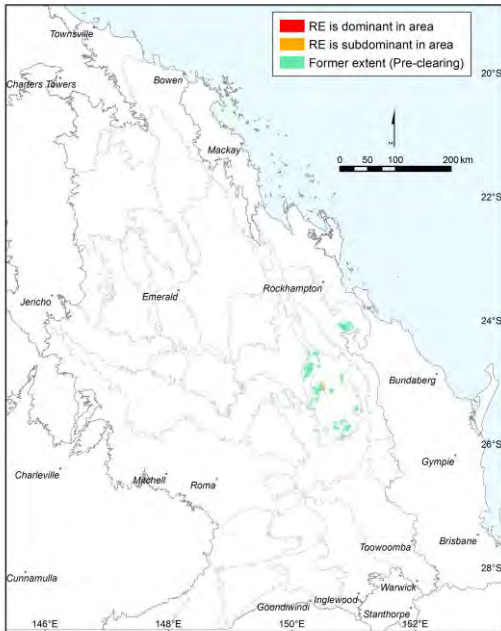
Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus



**Eucalyptus populnea woodland on igneous rocks. Colluvial lower slopes**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 59,258 2,272 4%

Species\_recorded: Total: 88; woody: 11; ground: 79; Avg. spp./site: 31.3; std dev.: 7.6, 4 site(s)

Basal area: Avg./site: 18.1 m<sup>2</sup>/ha, range: 15.0 - 21 m<sup>2</sup>/ha, std. deviation: 2 m<sup>2</sup>/ha, 4 site(s)

Structural formation: Woodland: 100%, 4 site(s)

Representative\_sites 14001, 16562, 16564, 16617.

**Stratum: Tree 1**

Height avg. = 18.0m, range 18-18m, 4 sites  
 Crown cover avg. = 33.0%, range 30.0-35.0%, 4 sites

Dominant species (relative cover, frequency): *Eucalyptus populnea* (85, 100%), *Eucalyptus melanophloia* (27, 50%), *Eucalyptus crebra* (2, 25%), *Acacia harpophylla* (2, 25%)

Frequent species (cover, frequency): *Eucalyptus populnea* (27, 100%), *Eucalyptus melanophloia* (6, 50%), *Acacia harpophylla* (1, 25%), *Eucalyptus crebra* (1, 25%)

**Stratum: Tree 2**

Height avg. = 9.5m, range 7-11m, 4 sites  
 Crown cover avg. = 6.5%, range 2.0-11.0%, 4 sites

Dominant species (relative cover, frequency): *Corymbia erythrophloia* (100, 25%), *Eucalyptus populnea* (75, 75%), *Eucalyptus melanophloia* (53, 25%), *Eucalyptus crebra* (11, 25%), *Corymbia tessellaris* (11, 25%)

Frequent species (cover, frequency): *Eucalyptus populnea* (6, 75%), *Corymbia erythrophloia* (5, 25%), *Corymbia tessellaris* (2, 25%), *Eucalyptus crebra* (2, 25%), *Eucalyptus melanophloia* (10, 25%)

**Stratum: Shrub 1**

Height avg. = 2.9m, range 1.2-4.5m, 3 sites  
 Crown cover avg. = 11.0%, range 5.0-19.0%, 3 sites

Dominant species (relative cover, frequency): *Eremophila deserti* (77, 25%), *Eremophila mitchellii* (55, 50%), *Geijera parviflora* (54, 50%), *Eucalyptus populnea* (1, 25%), *Eucalyptus melanophloia* (1, 25%)

Frequent species (cover, frequency): *Eremophila mitchellii* (10, 50%), *Geijera parviflora* (5, 50%), *Eremophila deserti* (7, 25%), *Eucalyptus melanophloia* (25%), *Eucalyptus populnea* (25%), *Opuntia stricta*\* (25%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Shrub 2**

Height avg. = 1.2m, 1 site

Crown cover avg. = 2.0%, 1 site

Dominant species (relative cover, frequency): *Eremophila mitchellii* (90, 25%), *Psydrax oleifolia* (10, 25%)

Frequent species (cover, frequency): *Eremophila mitchellii* (2, 25%), *Psydrax oleifolia* (25%)

**Stratum: Ground**

Height avg. = 0.3m, range 0.15-0.5m, 4 sites

PFC avg. = 36.0%, range 12-60%, 4 sites

Dominant species (relative cover, frequency): *Aristida calycina* var. *praealta* (34, 50%), *Chloris divaricata* (31, 50%), *Aristida personata* (25, 50%), *Chloris truncata* (20, 50%), *Melinis repens*\* (9, 25%)

Frequent species (cover, frequency): GRAMINOIDS: *Cymbopogon refractus* (1, 100%), *Cyperus gracilis* (1, 100%), *Bothriochloa decipiens* (3, 75%), *Aristida calycina* var. *calycina* (1, 50%), *Aristida calycina* var. *praealta* (8, 50%), *Aristida personata* (11, 50%), *Chloris divaricata* (12, 50%), *Chloris truncata* (10, 50%), *Chrysopogon fallax* (50%), *Digitaria hystrioides* (1, 50%), *Enneapogon intermedius* (2, 50%), *Enneapogon lindleyanus* (1, 50%), *Eragrostis elongata* (1, 50%), *Fimbristylis dichotoma* (50%), *Aristida caput-medusae* (25%), *Aristida queenslandica* var. *dissimilis* (1, 25%), *Aristida vagans* (25%), *Bothriochloa decipiens* var. *decipiens* (25%), *Cyperus fulvus* (25%), *Dichelachne micrantha* (25%), *Dinebra decipiens* var. *decipiens* (25%), *Enteropogon acicularis* (1, 25%), *Eragrostis lacunaria* (1, 25%), *Eragrostis leptostachya* (25%), *Eragrostis parviflora* (25%), *Eragrostis sororia* (2, 25%), *Eriochloa procera* (25%), *Melinis repens*\* (5, 25%), *Panicum effusum* (25%), *Panicum simile* (1, 25%), *Paspalidium caespitosum* (25%), *Paspalidium distans* (25%), *Scleria mackaviensis* (25%), *Sporobolus africanus*\* (25%), *Tragus australianus* (2, 25%)

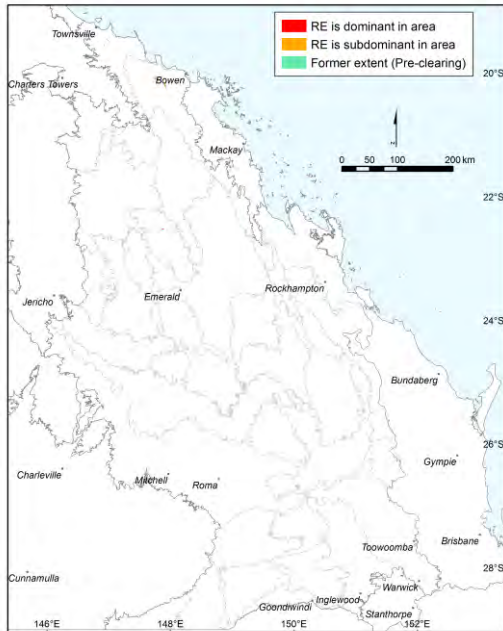
FORBS: *Nyssanthes diffusa* (75%), *Abutilon oxycarpum* (50%), *Brunoniella australis* (50%), *Cyanthillium cinereum* (2, 50%), *Desmodium varians* (50%), *Eremophila debilis* (50%), *Euphorbia drummondii* (50%), *Glycine tabacina* (50%), *Opuntia stricta*\* (50%), *Sida hackettiana* (50%), *Alectryon diversifolius* (25%), *Boerhavia dominii* (25%), *Calotis indet.* (25%), *Crotalaria montana* (25%), *Cymbidium canaliculatum* (25%), *Dianella brevipedunculata* (1, 25%), *Dichondra* sp. (Inglewood J.M.Dalby 86/93) (25%), *Einadia hastata* (25%), *Einadia nutans* subsp. *linifolia* (25%), *Eremophila mitchellii* (1, 25%), *Glossocardia bidens* (25%), *Glycine tomentella* (25%), *Hibiscus sturtii* (25%), *Indigofera indet.* (25%), *Jasminum didymum* subsp. *racemosum* (25%), *Lagenophora gracilis* (25%), *Lomandra confertifolia* subsp. *pallida* (25%), *Lomandra filiformis* (25%), *Malvastrum americanum* var. *americanum*\* (25%), *Nyssanthes erecta* (2, 25%), *Opuntia tomentosa*\* (25%), *Peripleura hispidula* var. *setosa* (25%), *Pittosporum angustifolium* (25%), *Portulaca australis* (25%), *Portulaca oleracea*\* (25%), *Portulaca pilosa*\* (25%), *Pseuderanthemum variabile* (25%), *Rhynchosia minima* (25%), *Rostellularia adscendens* (25%), *Senna artemisioides* (25%), *Sida cordifolia*\* (25%), *Sida spinosa*\* (25%), *Sida trichopoda* (25%), *Zornia muriculata* subsp. *muriculata* (25%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

Montane shrubland on igneous rocks



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 1,532 1,476 96%

Species\_recorded: Total: 34; woody: 11; ground: 30; Avg. spp./site: 23.5; std dev.: 3.5, 2 site(s)

Basal area: Avg./site: 1.0 m<sup>2</sup>/ha, range: 0.5 - 2 m<sup>2</sup>/ha, std. deviation: 1 m<sup>2</sup>/ha, 2 site(s)

Structural formation: Shrubland: 50%; open-heath: 50%, 2 site(s)

Representative\_sites 55714, 55734.

**Stratum: Shrub 1**

Height avg. = 1.3m, range 1.3-1.3m, 2 sites

Crown cover avg. = 43.5%, range 30.0-57.0%, 2 sites

Dominant species (relative cover, frequency): *Eucalyptus exserta* (46, 100%), *Xanthorrhoea johnsonii* (32, 100%), *Eucalyptus portuensis* (10, 100%), *Lantana camara*\* (6, 50%), *Melaleuca viridiflora* var. *viridiflora* (3, 100%)

Frequent species (cover, frequency): *Alphitonia excelsa* (100%), *Eucalyptus exserta* (20, 100%), *Eucalyptus portuensis* (6, 100%), *Euroschinus falcatus* var. *falcatus* (1, 100%), *Melaleuca viridiflora* var. *viridiflora* (1, 100%), *Xanthorrhoea johnsonii* (15, 100%), *Acacia spirorbis* subsp. *solandri* (1, 50%), *Eucalyptus paedoglauca* (50%), *Lantana camara*\* (2, 50%), *Larsenaikia ochreatea* (1, 50%), *Platyserium veitchii* (50%)

**Stratum: Ground**

Height avg. = 0.3m, range 0.3-0.3m, 2 sites

PFC avg. = 28.5%, range 13-44%, 2 sites

Dominant species (relative cover, frequency): *Themeda triandra* (64, 100%), *Xanthorrhoea johnsonii* (10, 100%), *Mnesithea rottboellioides* (8, 100%), *Eucalyptus exserta* (7, 50%), *Gahnia aspera* (4, 100%)

Frequent species (cover, frequency): GRAMINOIDS: *Arundinella nepalensis* (1, 100%), *Gahnia aspera* (1, 100%), *Mnesithea rottboellioides* (2, 100%), *Themeda triandra* (22, 100%), *Aristida queenslandica* var. *queenslandica* (50%), *Cymbopogon bombycinus* (50%), *Cymbopogon obtectus* (50%), *Eragrostis spartinooides* (50%), *Fimbristylis dichotoma* (50%), *Imperata cylindrica* (50%), *Panicum effusum* (50%), *Scleria levis* (50%)

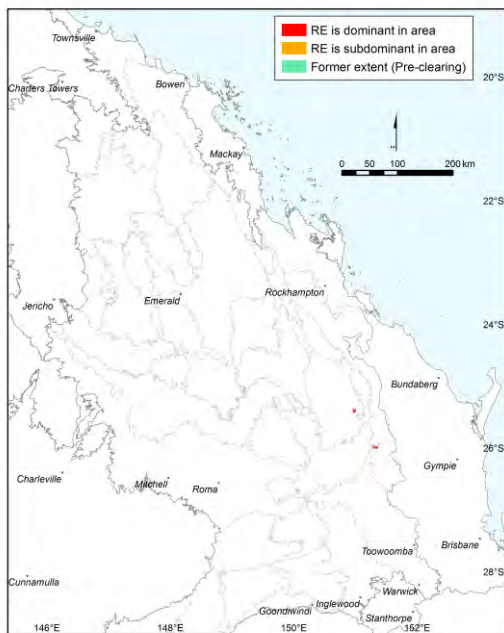
FORBS: *Dianella caerulea* (100%), *Lomandra confertifolia* subsp. *pallida* (100%), *Lomandra filiformis* subsp. *filiformis* (100%), *Spermacoe multicaulis* (100%), *Xanthorrhoea johnsonii* (4, 100%), *Adiantum atroviride* (50%), *Alphitonia excelsa* (50%), *Bryophyllum daigremontianum*\* (50%), *Cajanus confertiflorus* (50%), *Capparis arborea* (50%), *Cayratia trifolia* (50%), *Commelina diffusa* (50%), *Crotalaria brevis* (50%), *Eucalyptus exserta* (1, 50%), *Ficus rubiginosa* forma *rubiginosa* (50%), *Marsdenia microlepis* (50%), *Pityrogramma calomelanos* var. *calomelanos*\* (50%), *Psyrdrax odorata* forma *australiana* (50%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Corymbia spp., Eucalyptus baileyana, E. dura, E. exserta woodland on igneous rocks**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 5,349 4,691 88%

Species\_recorded: Total: 76; woody: 37; ground: 54; Avg. spp./site: 37.7; std dev.: 5.8, 3 site(s)

Basal area: Avg./site: 10.2 m<sup>2</sup>/ha, range: 3.5 - 14 m<sup>2</sup>/ha, std. deviation: 5 m<sup>2</sup>/ha, 3 site(s)

Structural formation: Woodland: 67%; open-woodland: 33%, 3 site(s)

Representative\_sites 16628, 59175, 59194.

**Stratum: Tree 1**

Height avg. = 8.0m, range 8-8m, 3 sites

Crown cover avg. = 16.7%, range 8.0-25.0%, 3 sites

Dominant species (relative cover, frequency): *Corymbia petalophylla* (79, 67%), *Eucalyptus pachycalyx* subsp. *waajensis* (39, 33%), *Corymbia watsoniana* (22, 33%), *Corymbia trachyphloia* (22, 33%), *Eucalyptus corynodes* (21, 67%)

Frequent species (cover, frequency): *Corymbia petalophylla* (12, 67%), *Eucalyptus corynodes* (5, 67%), *Corymbia trachyphloia* (4, 33%), *Corymbia watsoniana* (4, 33%), *Eucalyptus baileyana* (3, 33%), *Eucalyptus crebra* (33%), *Eucalyptus pachycalyx* subsp. *waajensis* (7, 33%)

**Stratum: Tree 2**

Height avg. = 4.3m, range 4-4.5m, 2 sites

Crown cover avg. = 4.5%, range 2.0-7.0%, 2 sites

Dominant species (relative cover, frequency): *Eucalyptus pachycalyx* subsp. *waajensis* (95, 33%), *Allocasuarina inophloia* (71, 33%), *Leptospermum neglectum* (14, 33%), *Petalostigma pubescens* (7, 33%), *Corymbia petalophylla* (7, 33%)

Frequent species (cover, frequency): *Allocasuarina inophloia* (5, 33%), *Corymbia petalophylla* (1, 33%), *Eucalyptus baileyana* (33%), *Eucalyptus pachycalyx* subsp. *waajensis* (2, 33%), *Leptospermum neglectum* (1, 33%), *Petalostigma pubescens* (1, 33%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Shrub 1**

Height avg. = 1.3m, range 0.6-2.5m, 3 sites

Crown cover avg. = 8.3%, range 1.0-20.0%, 3 sites

Dominant species (relative cover, frequency): *Eucalyptus corynodes* (100, 33%), *Xanthorrhoea johnsonii* (45, 33%), *Petalostigma pubescens* (24, 33%), *Acacia leptostachya* (24, 33%), *Platysace linearifolia* (15, 33%)

Frequent species (cover, frequency): *Allocasuarina inophloia* (1, 67%), *Acacia caroleae* (1, 33%), *Acacia complanata* (3, 33%), *Acacia leptostachya* (1, 33%), *Bossiaea rhombifolia* (33%), *Brachyloma daphnoides* (33%), *Corymbia petalophylla* (33%), *Daviesia villifera* (33%), *Eucalyptus corynodes* (33%), *Grevillea singuliflora* (33%), *Hakea benthamii* (2, 33%), *Hovea lorata* (33%), *Leptospermum neglectum* (1, 33%), *Leptospermum venustum* (33%), *Leucopogon flexifolius* (33%), *Lysicarpus angustifolius* (1, 33%), *Macrozamia crassifolia* (33%), *Melichrus sp. (Isla Gorge P.Sharpe+ 601)* (33%), *Mirbelia aotoides* (33%), *Persoonia sericea* (33%), *Petalostigma pubescens* (1, 33%), *Phyllota phyllicoides* (1, 33%), *Platysace linearifolia* (3, 33%), *Xanthorrhoea johnsonii* (9, 33%)

**Stratum: Shrub 2**

Height avg. = 0.9m, 1 site

Crown cover avg. = 22.0%, 1 site

Dominant species (relative cover, frequency): *Acacia leptostachya* (45, 33%), *Goodenia racemosa* (18, 33%), *Hovea lorata* (9, 33%), *Petalostigma pubescens* (4, 33%), *Persoonia sericea* (4, 33%)

Frequent species (cover, frequency): *Acacia caroleae* (1, 33%), *Acacia juncifolia* (33%), *Acacia leptostachya* (10, 33%), *Allocasuarina inophloia* (33%), *Alphitonia excelsa* (1, 33%), *Astrotricha biddulphiana* (1, 33%), *Daviesia wyattiana* (33%), *Dodonaea peduncularis* (1, 33%), *Eucalyptus baileyana* (1, 33%), *Goodenia racemosa* (4, 33%), *Hovea lorata* (2, 33%), *Jacksonia scoparia* (33%), *Persoonia sericea* (1, 33%), *Petalostigma pubescens* (1, 33%), *Pimelea linifolia subsp. linifolia* (33%), *Xanthorrhoea johnsonii* (1, 33%)

**Stratum: Ground**

Height avg. = 0.5m, range 0.4-0.5m, 3 sites

PFC avg. = 27.0%, range 15-41%, 3 sites

Dominant species (relative cover, frequency): *Triodia mitchellii* (44, 100%), *Aristida jerichoensis* (20, 33%), *Xanthorrhoea johnsonii* (14, 67%), *Entolasia stricta* (14, 67%), *Amphipogon carcinus var. scaber* (9, 33%)

Frequent species (cover, frequency): GRAMINOIDS: *Schoenus sparteus* (1, 100%), *Themeda triandra* (100%), *Triodia mitchellii* (13, 100%), *Cymbopogon oblectus* (67%), *Entolasia stricta* (2, 67%), *Eriachne pallescens* (67%), *Amphipogon carcinus var. scaber* (3, 33%), *Aristida benthamii var. benthamii* (2, 33%), *Aristida jerichoensis* (3, 33%), *Aristida jerichoensis var. jerichoensis* (1, 33%), *Aristida queenslandica* (1, 33%), *Aristida queenslandica var. queenslandica* (33%), *Caustis pentandra* (1, 33%), *Cymbopogon refractus* (33%), *Digitaria diminuta* (33%), *Eragrostis sororia* (33%), *Eragrostis spartanoides* (33%), *Panicum effusum* (33%)

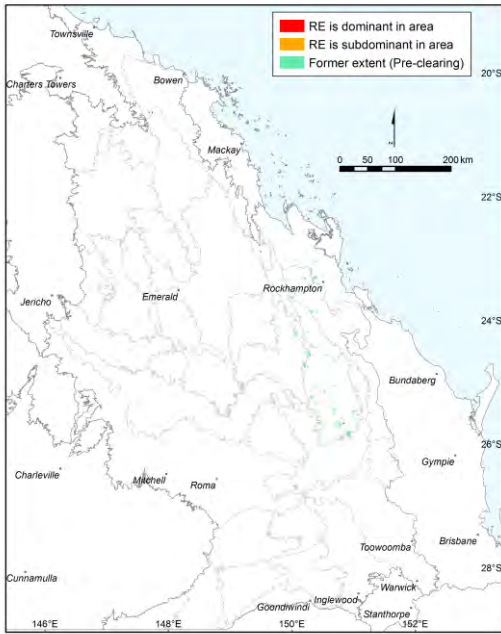
FORBS: *Dianella caerulea var. vannata* (100%), *Lomandra multiflora subsp. multiflora* (100%), *Pimelea linifolia subsp. linifolia* (100%), *Acacia caroleae* (67%), *Grevillea singuliflora* (67%), *Laxmannia gracilis* (67%), *Macrozamia crassifolia* (67%), *Melichrus sp. (Isla Gorge P.Sharpe+ 601)* (67%), *Platysace linearifolia* (1, 67%), *Xanthorrhoea johnsonii* (4, 67%), *Acacia juncifolia* (33%), *Acacia sparsiflora* (33%), *Allocasuarina inophloia* (33%), *Cheilanthes sieberi* (33%), *Chrysocephalum apiculatum* (33%), *Corymbia petalophylla* (33%), *Dampiera purpurea* (1, 33%), *Gompholobium pinnatum* (33%), *Gonocarpus indet.* (33%), *Grevillea floribunda* (33%), *Haemodorum austroqueenslandicum* (33%), *Hakea benthamii* (33%), *Hibbertia indet.* (33%), *Hovea angustissima* (33%), *Leptospermum venustum* (33%), *Lomandra filiformis* (33%), *Lomandra leucocephala* (33%), *Mirbelia aotoides* (33%), *Mirbelia pungens* (33%), *Persoonia sericea* (33%), *Phyllanthus virgatus* (33%), *Phyllota phyllicoides* (33%), *Pultenaea bracteata* (33%), *Pultenaea paleacea* (33%), *Stackhousia muricata* (33%), *Tricoryne elatior* (33%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

Acacia harpophylla open forest on igneous rocks. Colluvial lower slopes



Annie Kelly

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 72,572 6,505 9%

Species\_recorded: Total: 80; woody: 34; ground: 53; Avg. spp./site: 41.0; std dev.: 14.0, 2 site(s)

Basal area: Avg./site: 21.7 m<sup>2</sup>/ha, range: 13.0 - 27 m<sup>2</sup>/ha, std. deviation: 6 m<sup>2</sup>/ha, 3 site(s)

Structural formation: Woodland: 67%; open-forest: 33%, 3 site(s)

Representative\_sites 16598, 16615, 28727.

**Stratum: Emergent**

Height avg. = 20.5m, range 19-22m, 2 sites

Crown cover avg. = 9.5%, range 5.0-14.0%, 2 sites

Dominant species (relative cover, frequency): *Casuarina cristata* (100, 33%), *Acacia harpophylla* (100, 33%)

Frequent species (cover, frequency): *Acacia harpophylla* (5, 33%), *Casuarina cristata* (14, 33%)

**Stratum: Tree 1**

Height avg. = 14.3m, range 10-19m, 3 sites

Crown cover avg. = 43.3%, range 25.0-60.0%, 3 sites

Dominant species (relative cover, frequency): *Acacia harpophylla* (98, 67%), *Brachychiton rupestris* (30, 33%), *Acacia fasciculifera* (24, 33%), *Diospyros humilis* (17, 33%), *Elaeodendron australe* var. *integrifolium* (6, 33%)

Frequent species (cover, frequency): *Acacia harpophylla* (40, 67%), *Abutilon oxycarpum* (2, 33%), *Acacia fasciculifera* (8, 33%), *Alectryon diversifolius* (2, 33%), *Brachychiton rupestris* (10, 33%), *Coatesia paniculata* (2, 33%), *Diospyros humilis* (6, 33%), *Ehretia membranifolia* (2, 33%), *Elaeodendron australe* var. *integrifolium* (2, 33%), *Elattostachys xylocarpa* (33%), *Eucalyptus populnea* (2, 33%), *Flindersia collina* (1, 33%), *Geijera parviflora* (33%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

Naturalised species have an asterisk (\*) after the name. indet. after listed name = indeterminate species or genus

**Stratum: Tree 2**

Height avg. = 10.3m, range 5.5-15m, 2 sites

Crown cover avg. = 34.0%, range 13.0-55.0%, 2 sites

Dominant species (relative cover, frequency): *Acacia harpophylla* (88, 33%), *Planchonella cotinifolia* var. *pubescens* (53, 33%), *Croton insularis* (11, 33%), *Casuarina cristata* (9, 33%), *Coatesia paniculata* (8, 33%)

Frequent species (cover, frequency): *Acacia fasciculifera* (2, 33%), *Acacia harpophylla* (50, 33%), *Brachychiton populneus* (1, 33%), *Capparis loranthifolia* (1, 33%), *Casuarina cristata* (5, 33%), *Clematicissus opaca* (33%), *Coatesia paniculata* (2, 33%), *Croton insularis* (3, 33%), *Cyclophyllum coprosmoides* (1, 33%), *Diospyros humilis* (1, 33%), *Ehretia membranifolia* (1, 33%), *Elaeodendron australe* var. *integrifolium* (2, 33%), *Excoecaria dallachyana* (33%), *Flindersia collina* (1, 33%), *Gossia bidwillii* (33%), *Melaleuca lanceolata* (1, 33%), *Opuntia tomentosa*\* (1, 33%), *Planchonella cotinifolia* var. *pubescens* (14, 33%)

**Stratum: Tree 3**

Height avg. = 3.0m, 1 site

Crown cover avg. = 5.0%, 1 site

Dominant species (relative cover, frequency): *Acacia harpophylla* (100, 33%)

Frequent species (cover, frequency): *Acacia harpophylla* (5, 33%)

**Stratum: Shrub 1**

Height avg. = 4.1m, range 2.2-6m, 3 sites

Crown cover avg. = 22.7%, range 8.0-30.0%, 3 sites

Dominant species (relative cover, frequency): *Geijera parviflora* (71, 67%), *Acalypha eremorum* (34, 33%), *Abutilon oxycarpum* (21, 33%), *Acacia harpophylla* (15, 67%), *Alectryon diversifolius* (11, 100%)

Frequent species (cover, frequency): *Alectryon diversifolius* (2, 100%), *Acacia harpophylla* (5, 67%), *Geijera parviflora* (23, 67%), *Abutilon oxycarpum* (3, 33%), *Acalypha eremorum* (4, 33%), *Alstonia constricta* (1, 33%), *Bursaria spinosa* subsp. *spinosa* (1, 33%), *Capparis loranthifolia* (1, 33%), *Casuarina cristata* (3, 33%), *Denhamia bilocularis* (33%), *Elaeodendron australe* var. *integrifolium* (33%), *Eremophila mitchellii* (33%), *Jasminum simplicifolium* subsp. *australiense* (33%), *Melaleuca lanceolata* (2, 33%), *Opuntia tomentosa*\* (33%), *Parsonsia eucalyptophylla* (33%), *Pittosporum spinescens* (1, 33%), *Solanum seaforthianum*\* (33%)

**Stratum: Shrub 2**

Height avg. = 1.3m, range 0.6-2m, 2 sites

Crown cover avg. = 7.0%, range 2.0-12.0%, 2 sites

Dominant species (relative cover, frequency): *Carissa ovata* (54, 67%), *Geijera parviflora* (46, 33%), *Acacia harpophylla* (46, 33%)

Frequent species (cover, frequency): *Carissa ovata* (1, 67%), *Acacia harpophylla* (6, 33%), *Geijera parviflora* (6, 33%)

**Stratum: Ground**

Height avg. = 0.2m, range 0.1-0.2m, 2 sites

PFC avg. = 5.0%, range 5-5%, 2 sites

Dominant species (relative cover, frequency): *Abutilon oxycarpum* (37, 50%), *Paspalidium gracile* (28, 50%), *Einadia hastata* (16, 50%), *Calyptochloa gracillima* subsp. *gracillima* (13, 50%), *Solanum semiarmatum* (8, 50%)

Frequent species (cover, frequency): GRAMINOIDS: *Ancistrachne uncinulata* (1, 100%), *Aristida gracilipes* (1, 100%), *Cyperus gracilis* (1, 100%), *Enteropogon unispiceus* (100%), *Megathyrsus maximus*\* (100%), *Aristida calycina* var. *calycina* (1, 50%), *Aristida personata* (50%), *Austrostipa ramosissima* (1, 50%), *Calyptochloa gracillima* subsp. *gracillima* (1, 50%), *Chloris ventricosa* (50%), *Digitaria divaricatissima* (50%), *Enneapogon intermedius* (50%), *Enneapogon lindleyanus* (50%), *Oplismenus aemulus* (50%), *Paspalidium caespitosum* (50%), *Paspalidium distans* (1, 50%), *Paspalidium gracile* (6, 50%), *Scleria mackaviensis* (50%), *Sporobolus caroli* (50%)

FORBS: *Nyssanthes diffusa* (100%), *Abutilon oxycarpum* (8, 50%), *Alectryon diversifolius* (50%), *Brunoniella australis* (50%), *Capparis loranthifolia* (50%), *Cheilanthes distans* (50%), *Clematicissus opaca* (50%), *Cyanthillium cinereum* (50%), *Denhamia bilocularis* (50%), *Einadia hastata* (1, 50%), *Eustrephus latifolius* (50%), *Everistia vacciniifolia* (50%), *Glycine tabacina* (50%), *Jasminum didymum* (50%), *Opuntia stricta*\* (50%), *Oxalis perennans* (50%), *Phyllanthus virgatus* (50%), *Plectranthus parviflorus* (50%), *Sida spinosa*\* (50%), *Solanum ellipticum* (50%), *Solanum indet.* (50%), *Solanum seaforthianum*\* (50%), *Solanum semiarmatum* (1, 50%)

Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive sites used for ground stratum).

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species % (of comprehensive sites) are listed as either graminoid or forb.

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