



## 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.

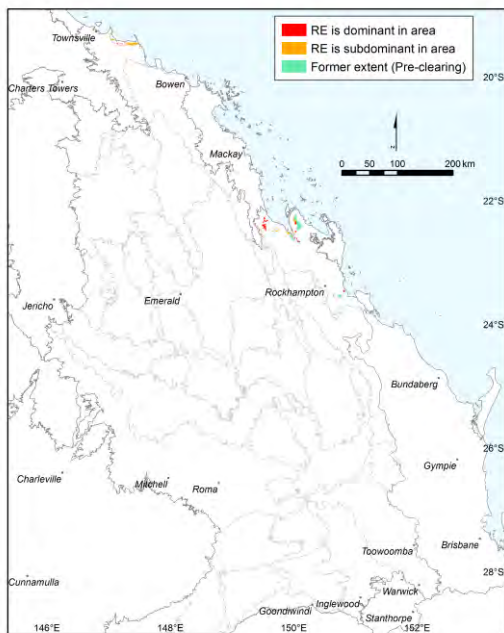
While every effort has been made to ensure the information presented is as reliable as possible, the State of Queensland accepts no liability and gives no assurance in respect of its accuracy and shall not be liable for any loss or damage arising from its use.

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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**Sporobolus virginicus grassland on marine clay plains**



David Halford

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 35,003 17,575 50%

Species\_recorded: Total: 60; woody: 6; ground: 54; Avg. spp./site: 13.0; std dev.: 3.7, 6 site(s)

Basal area: 0

Structural formation: Open-tussock grassland: 50%; closed-tussock grassland: 33%; tussock grassland: 17%, 6 site(s)

Representative\_sites 17581, 19066, 26405, 36845, 40713, 53134.

**Stratum: Shrub 1**

Height avg. = 1.7m, range 1-2.5m, 3 sites

Crown cover avg. = 3.7%, range 2.0-5.0%, 3 sites

Frequent species (cover, frequency): *Aegiceras corniculatum* (1, 17%), *Avicennia marina* (4, 17%), *Ceriops australis* (1, 17%), *Lumnitzera racemosa* (17%), *Myoporum acuminatum* (1, 17%), *Neptunia major* (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: Ground**

Height avg. = 0.3m, range 0.1-0.7m, 6 sites

PFC avg. = 61.0%, range 33-99%, 6 sites

*Dominant species (relative cover, frequency): Sporobolus virginicus (65, 83%), Cyperus scariosus (21, 33%), Cynodon dactylon\* (13, 33%), Tecticornia indica (12, 50%), Fimbristylis polytrichoides (11, 50%)*

*Frequent species (cover, frequency): GRAMINOIDS: Sporobolus virginicus (38, 83%), Fimbristylis polytrichoides (5, 50%), Chloris inflata\* (1, 33%), Cynodon dactylon\* (8, 33%), Cyperus scariosus (21, 33%), Eriochloa crebra (33%), Chrysopogon fallax (1, 17%), Cyperus polystachyos (17%), Cyperus subulatus (17%), Cyperus victoriensis (17%), Dichanthium fecundum (5, 17%), Digitaria brownii (17%), Digitaria indet. (10, 17%), Diplachne fusca\* (17%), Diplachne fusca var. fusca (17%), Echinochloa colona\* (17%), Eriochloa pseudoacrotricha (25, 17%), Eulalia aurea (5, 17%), Fimbristylis ferruginea (17%), Panicum decompositum var. tenuius (17%), Poaceae indet. (17%), Urochloa pubigera (17%)*

*FORBS: Sphaeromorphaea indet. (50%), Suaeda australis (2, 50%), Tecticornia indica (7, 50%), Eclipta prostrata\* (1, 33%), Limonium solanderi (1, 33%), Aeschynomene indica (17%), Alternanthera denticulata (17%), Alternanthera denticulata var. micrantha (17%), Amaranthus interruptus (2, 17%), Camptacra barbata (17%), Cyanthillium cinereum (17%), Emilia sonchifolia\* (17%), Enchylaena tomentosa (17%), Euphorbia indet. (1, 17%), Gomphrena celosioides\* (17%), Macroptilium lathyroides\* (17%), Maireana microphylla (17%), Neptunia gracilis (17%), Opuntia stricta\* (1, 17%), Portulaca bicolor (17%), Portulaca filifolia (17%), Portulaca indet. (2, 17%), Pterocaulon redolens (17%), Sarcocornia quinqueflora subsp. quinqueflora (8, 17%), Sclerolaena muricata (1, 17%), Sesbania cannabina (17%), Sesbania cannabina var. cannabina (17%), Sesuvium portulacastrum (1, 17%), Sida indet. (17%), Sida rhombifolia\* (1, 17%), Stachytarpheta jamaicensis\* (17%), Zornia indet. (17%)*

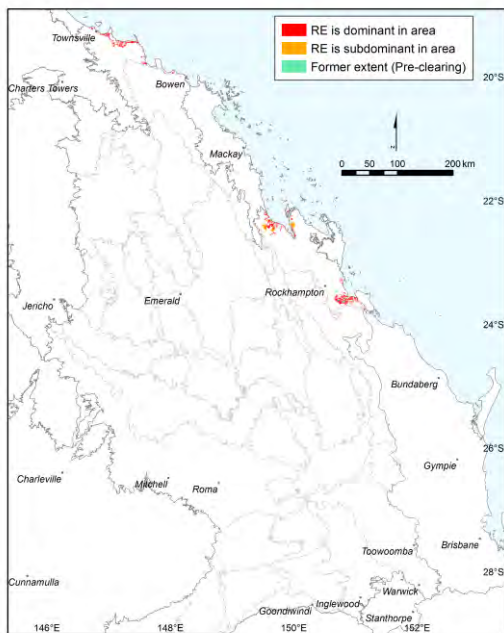
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Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 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

Bare mud flats on marine clay plains



Annie Kelly

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 81,063 76,158 94%

Species\_recorded: Total: 5; woody: 0; ground: 5; Avg. spp./site: 3.0; std dev.: 0.0, 1 site(s)

Basal area: 0

Structural formation: Open succulent shrubland: 100%, 2 site(s)

Representative\_sites 44882, 58374.

**Stratum: Ground**

Height avg. = 0.1m, 1 site

PFC avg. = 4.0%, 1 site

Dominant species (relative cover, frequency): *Tecticornia indica* (96, 100%), *Sesuvium portulacastrum* (2, 100%), *Limonium solanderi* (2, 100%)

Frequent species (cover, frequency): GRAMINOIDS:

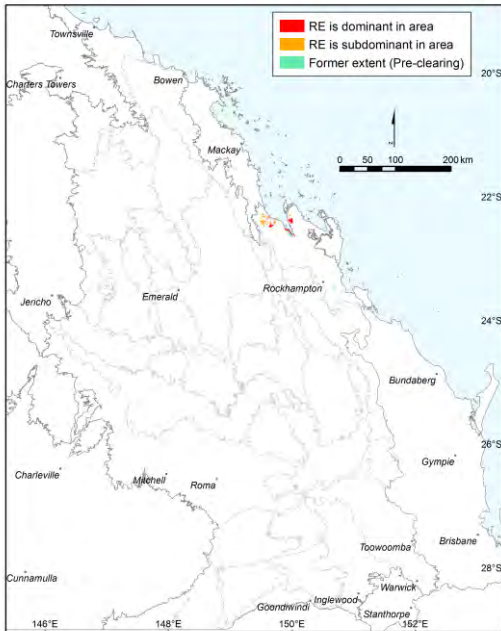
FORBS: *Limonium solanderi* (100%), *Sesuvium portulacastrum* (100%), *Tecticornia indica* (5, 100%)

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.

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Samphire forbland on marine clay plains



Andrew Franks

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 18,906 15,768 83%

Species\_recorded: Total: 25; woody: 4; ground: 21; Avg. spp./site: 7.3; std dev.: 3.9, 6 site(s)

Basal area: 0

Structural formation: Succulent shrubland: 67%; open succulent shrubland: 33%, 6 site(s)

Representative\_sites 14827, 17591, 26404, 36844, 40750, 52294.

**Stratum: Tree 1**

Height avg. = 5.0m, 1 site

Crown cover avg. = 2.0%, 1 site

Frequent species (cover, frequency): *Avicennia marina subsp. australasica* (17%), *Melaleuca viridiflora* (2, 17%)

**Stratum: Shrub 1**

Height avg. = 1.5m, 1 site

Crown cover avg. = 0.0%, range 0.0-0.0%, 2 sites

Frequent species (cover, frequency): *Avicennia marina subsp. australasica* (17%), *Lumnitzera racemosa* (17%), *Melaleuca viridiflora* (17%), *Thespesia populnea* (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. = 0.2m, range 0.05-0.3m, 5 sites

PFC avg. = 39.8%, range 9-80%, 6 sites

*Dominant species (relative cover, frequency): Tecticornia pergranulata subsp. queenslandica (50, 83%), Tecticornia indica (23, 83%), Sporobolus virginicus (16, 50%), Fimbristylis polytrichoides (13, 67%), Suaeda australis (4, 83%)*

*Frequent species (cover, frequency): GRAMINOIDS: Fimbristylis polytrichoides (5, 67%), Sporobolus virginicus (8, 50%), Chloris divaricata (17%), Cyperus indet. (17%), Eriochloa procera (17%), Fimbristylis ferruginea (17%), Sporobolus australasicus (17%)*

*FORBS: Suaeda australis (3, 83%), Tecticornia indica (7, 83%), Tecticornia pergranulata subsp. queenslandica (12, 83%), Limonium solanderi (1, 33%), Aeschynomene indica (17%), Atriplex muelleri (5, 17%), Eclipta prostrata\* (17%), Enchylaena tomentosa (17%), Macroptilium atropurpureum\* (17%), Sesbania cannabina (1, 17%), Sesuvium portulacastrum (5, 17%), Tecticornia halocnemoides (51, 17%), Tecticornia indica subsp. julacea (15, 17%), Tecticornia indica subsp. leiostachya (17%)*

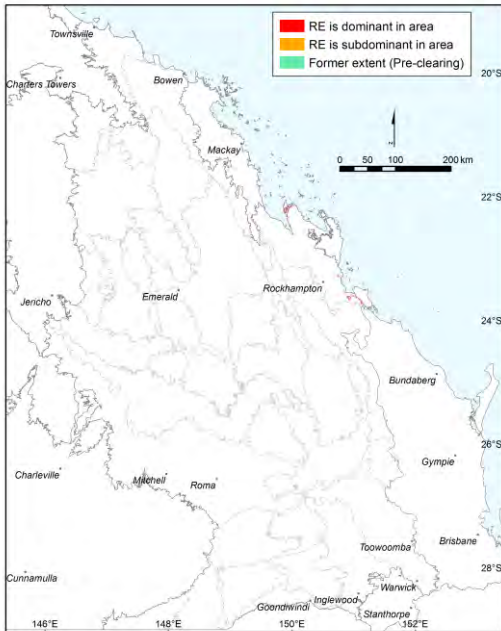
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Rhizophora spp. open forest on marine clay plains



Rhonda Melzer

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 12,140 12,101 100%

Species\_recorded: Total: 4; woody: 3; ground: 2; Avg. spp./site: 4.0; std dev.: 0.0, 1 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: 50%; low closed-forest: 50%, 2 site(s)

Representative\_sites 17580, 37166.

Stratum: Tree 1

Height avg. = 7.5m, range 6-9m, 2 sites

Crown cover avg. = 50.0%, range 10.0-90.0%, 2 sites

Dominant species (relative cover, frequency): *Rhizophora stylosa* (100, 50%), *Avicennia marina subsp. australasica* (100, 50%)

Frequent species (cover, frequency): *Avicennia marina subsp. australasica* (10, 50%), *Rhizophora stylosa* (90, 50%)

Stratum: Tree 2

Height avg. = 5.0m, 1 site

Crown cover avg. = 15.0%, 1 site

Dominant species (relative cover, frequency): *Rhizophora stylosa* (100, 50%)

Frequent species (cover, frequency): *Rhizophora stylosa* (15, 50%)

Stratum: Shrub 1

Height avg. = 1.2m, range 0.7-1.6m, 2 sites

Crown cover avg. = 27.5%, range 5.0-50.0%, 2 sites

Dominant species (relative cover, frequency): *Aegiceras corniculatum* (90, 50%), *Rhizophora stylosa* (53, 100%), *Avicennia marina subsp. australasica* (4, 50%)

Frequent species (cover, frequency): *Rhizophora stylosa* (4, 100%), *Aegiceras corniculatum* (45, 50%), *Avicennia marina subsp. australasica* (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: Ground****Height avg. = 0.1m, 1 site****PFC avg. = 30.0%, 1 site***Dominant species (relative cover, frequency): Suaeda australis (83, 100%), Rhizophora stylosa (17, 100%)**Frequent species (cover, frequency): GRAMINOIDS:**FORBS: Rhizophora stylosa (5, 100%), Suaeda australis (25, 100%)*

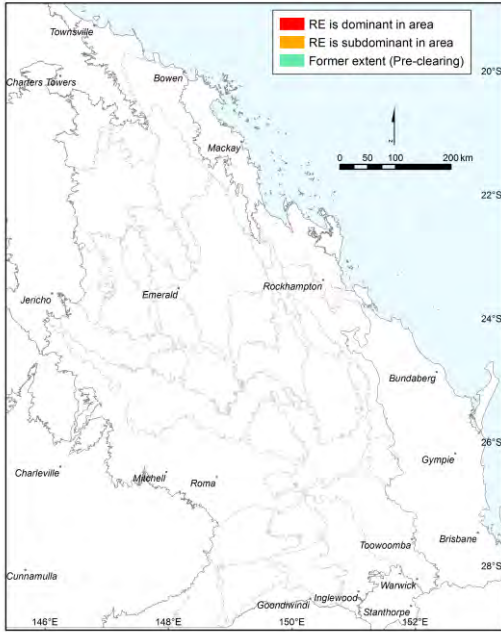
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Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 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

Avicennia marina low open shrubland to closed forest on marine clay plains



Rhonda Melzer

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 8,023 7,664 96%

Species\_recorded: Total: 16; woody: 10; ground: 6; Avg. spp./site: 10.0; std dev.: 0.0, 1 site(s)

Basal area: Avg./site: 1.7 m<sup>2</sup>/ha, range: 1.0 - 2 m<sup>2</sup>/ha, std. deviation: 0 m<sup>2</sup>/ha, 3 site(s)

Structural formation: Tall shrubland: 25%; shrubland: 25%; low open-woodland: 25%; low open-forest: 25%, 4 site(s)

Representative\_sites 17086, 17510, 17529, 26565.

Stratum: Tree 1

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

Crown cover avg. = 8.8%, range 5.0-15.0%, 4 sites

Dominant species (relative cover, frequency): *Avicennia marina* (93, 100%), *Excoecaria agallocha* (29, 25%)

Frequent species (cover, frequency): *Avicennia marina* (9, 100%), *Excoecaria agallocha* (2, 25%)

Stratum: Tree 2

Height avg. = 2.0m, range 2-2m, 2 sites

Crown cover avg. = 33.0%, range 6.0-60.0%, 2 sites

Dominant species (relative cover, frequency): *Lumnitzera littorea* (33, 25%), *Bruguiera gymnorhiza* (33, 25%), *Rhizophora stylosa* (33, 50%), *Avicennia marina* (33, 25%), *Osbornia octodonta* (17, 25%)

Frequent species (cover, frequency): *Rhizophora stylosa* (11, 50%), *Aegiceras corniculatum* (10, 25%), *Amyema mackayensis* (25%), *Avicennia marina* (20, 25%), *Bruguiera gymnorhiza* (2, 25%), *Lumnitzera littorea* (2, 25%), *Osbornia octodonta* (10, 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.

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**Stratum: Shrub 1**

Height avg. = 1.8m, range 0.5-4m, 4 sites

Crown cover avg. = 15.0%, range 2.0-35.0%, 4 sites

*Dominant species (relative cover, frequency): Clerodendrum inerme (100, 25%), Rhizophora stylosa (75, 25%), Avicennia marina (64, 75%), Ceriops tagal (33, 25%)*

*Frequent species (cover, frequency): Avicennia marina (16, 75%), Ceriops tagal (5, 25%), Clerodendrum inerme (2, 25%), Rhizophora stylosa (6, 25%)*

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**Stratum: Shrub 2**

Height avg. = 0.6m, 1 site

Crown cover avg. = 7.0%, 1 site

*Dominant species (relative cover, frequency): Rhizophora stylosa (71, 25%), Avicennia marina (14, 25%), Aegiceras corniculatum (14, 25%)*

*Frequent species (cover, frequency): Aegiceras corniculatum (1, 25%), Avicennia marina (1, 25%), Rhizophora stylosa (5, 25%)*

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**Stratum: Ground**

Height avg. = 0.3m, 1 site

PFC avg. = 14.0%, 1 site

*Dominant species (relative cover, frequency): Tecticornia pergranulata subsp. queenslandica (36, 100%), Sporobolus virginicus (36, 100%), Tecticornia indica (14, 100%), Suaeda australis (14, 100%)*

*Frequent species (cover, frequency): GRAMINOIDS: Sporobolus virginicus (5, 100%)*

*FORBS: Suaeda australis (2, 100%), Tecticornia indica (2, 100%), Tecticornia pergranulata subsp. queenslandica (5, 100%)*

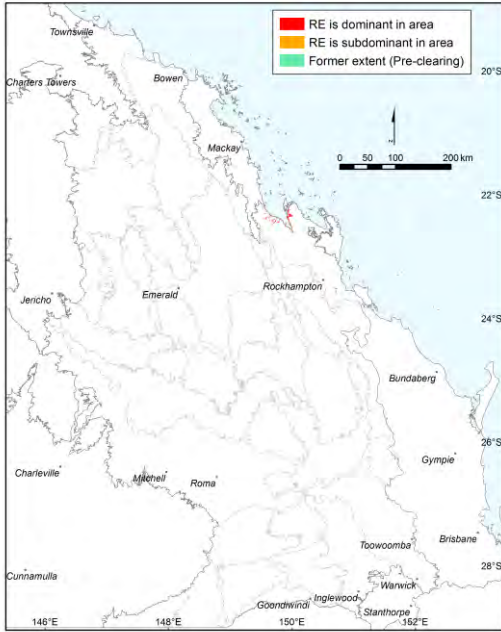
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Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 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

**Ceriops australis, +/- Avicennia marina open forest on marine clay plains**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 15,487 15,466 100%

Species\_recorded: Total: 9; woody: 8; ground: 3; Avg. spp./site: 9.0; std dev.: 0.0, 1 site(s)

Basal area: Avg./site: 13.0 m<sup>2</sup>/ha, range: 13.0 - 13 m<sup>2</sup>/ha, std. deviation: 0 m<sup>2</sup>/ha, 1 site(s)

Structural formation: Low closed-forest: 100%, 1 site(s)

Representative\_sites 26410.

**Stratum: Tree 1**

Height avg. = 7.0m, 1 site

Crown cover avg. = 90.0%, 1 site

Dominant species (relative cover, frequency): *Ceriops tagal* (89, 100%), *Lumnitzera racemosa* (6, 100%), *Bruguiera exaristata* (4, 100%), *Avicennia marina* (1, 100%)

Frequent species (cover, frequency): *Avicennia marina* (1, 100%), *Bruguiera exaristata* (4, 100%), *Ceriops tagal* (80, 100%), *Clerodendrum inerme* (100%), *Excoecaria agallocha* (100%), *Lumnitzera racemosa* (5, 100%), *Rhizophora stylosa* (100%)

**Stratum: Shrub 1**

Height avg. = 3.0m, 1 site

Crown cover avg. = 4.0%, 1 site

Dominant species (relative cover, frequency): *Aegialitis annulata* (100, 100%)

Frequent species (cover, frequency): *Aegialitis annulata* (4, 100%)

**Stratum: Ground**

Height avg. = 0.3m, 1 site

PFC avg. = 1.0%, 1 site

Dominant species (relative cover, frequency): *Avicennia marina* (77, 100%), *Ceriops tagal* (15, 100%), *Xylocarpus moluccensis* (8, 100%)

Frequent species (cover, frequency): GRAMINOIDS:

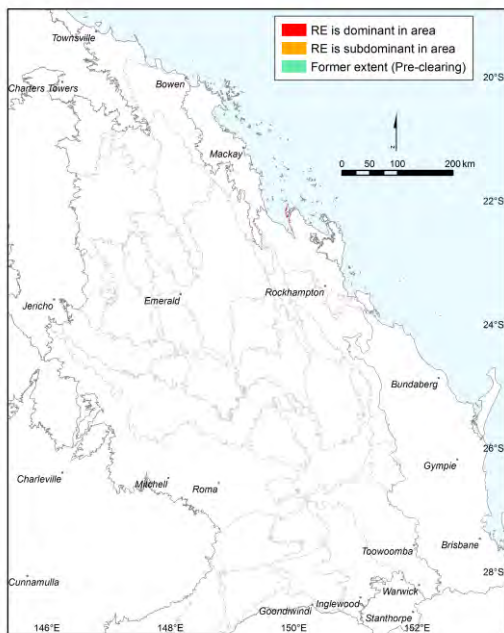
FORBS: *Avicennia marina* (1, 100%), *Ceriops tagal* (100%), *Xylocarpus moluccensis* (100%)

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

Mixed (mangrove) species low closed forest on marine clay plains



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 8,264 8,239 100%

Species\_recorded: Total: 7; woody: 5; ground: 3; Avg. spp./site: 5.0; std dev.: 1.0, 2 site(s)

Basal area: Avg./site: 3.0 m<sup>2</sup>/ha, range: 3.0 - 3 m<sup>2</sup>/ha, std. deviation: 0 m<sup>2</sup>/ha, 1 site(s)

Structural formation: Shrubland: 100%, 2 site(s)

Representative\_sites 17582, 17590.

**Stratum: Shrub 1**

Height avg. = 2.3m, range 1.5-3m, 2 sites

Crown cover avg. = 17.5%, range 10.0-25.0%, 2 sites

Dominant species (relative cover, frequency): *Aegiceras corniculatum* (80, 50%), *Rhizophora stylosa* (40, 50%), *Avicennia marina subsp. australasica* (40, 100%)

Frequent species (cover, frequency): *Avicennia marina subsp. australasica* (6, 100%), *Aegiceras corniculatum* (20, 50%), *Rhizophora stylosa* (4, 50%)

**Stratum: Shrub 2**

Height avg. = 1.1m, range 0.7-1.5m, 2 sites

Crown cover avg. = 47.5%, range 15.0-80.0%, 2 sites

Dominant species (relative cover, frequency): *Ceriops australis* (63, 50%), *Aegiceras corniculatum* (53, 100%), *Avicennia marina subsp. australasica* (19, 50%), *Osbornia octodonta* (13, 50%)

Frequent species (cover, frequency): *Aegiceras corniculatum* (10, 100%), *Avicennia marina subsp. australasica* (15, 50%), *Ceriops australis* (50, 50%), *Osbornia octodonta* (10, 50%)

**Stratum: Ground**

Height avg. = 0.2m, range 0.1-0.3m, 2 sites

PFC avg. = 3.0%, range 2-4%, 2 sites

Dominant species (relative cover, frequency): *Aegiceras corniculatum* (75, 50%), *Suaeda australis* (60, 100%), *Sporobolus virginicus* (5, 50%)

Frequent species (cover, frequency): GRAMINOIDS: *Sporobolus virginicus* (50%)

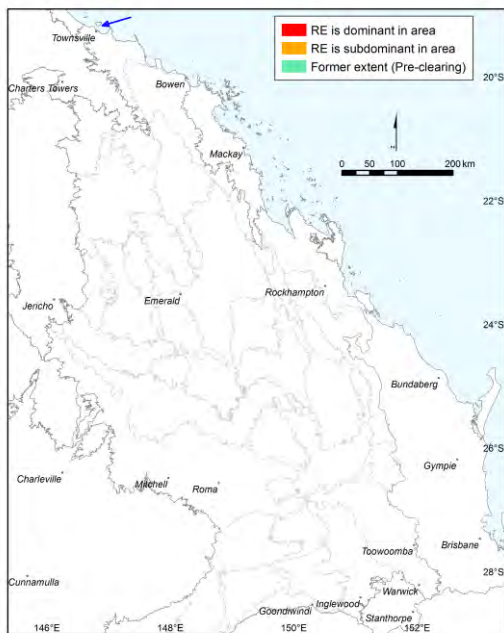
FORBS: *Suaeda australis* (2, 100%), *Aegiceras corniculatum* (3, 50%)

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 tessellaris woodland on flat coastal dunes**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 568 395 70%

Species\_recorded: Total: 34; woody: 11; ground: 25; Avg. spp./site: 26.0; std dev.: 0.0, 1 site(s)

Basal area: Avg./site: 5.0 m<sup>2</sup>/ha, range: 1.0 - 9 m<sup>2</sup>/ha, std. deviation: 4 m<sup>2</sup>/ha, 2 site(s)

Structural formation: Open-woodland: 50%; low woodland: 50%, 2 site(s)

Representative\_sites 19049, 37167.

**Stratum: Tree 1**

Height avg. = 12.0m, range 9-15m, 2 sites

Crown cover avg. = 23.5%, range 17.0-30.0%, 2 sites

Dominant species (relative cover, frequency): *Corymbia tessellaris* (75, 100%), *Corymbia clarksoniana* (50, 50%), *Pleiogynium timorense* (1, 50%)

Frequent species (cover, frequency): *Corymbia tessellaris* (16, 100%), *Corymbia clarksoniana* (15, 50%), *Pleiogynium timorense* (50%)

**Stratum: Tree 2**

Height avg. = 5.5m, range 4-7m, 2 sites

Crown cover avg. = 6.0%, range 0.0-12.0%, 2 sites

Dominant species (relative cover, frequency): *Acacia leptostachya* (83, 50%), *Pandanus cookii* (40, 100%), *Ziziphus mauritiana*\* (13, 50%), *Planchonia careya* (13, 50%), *Corymbia tessellaris* (13, 50%)

Frequent species (cover, frequency): *Pandanus cookii* (1, 100%), *Acacia leptostachya* (10, 50%), *Corymbia tessellaris* (50%), *Planchonia careya* (50%), *Ziziphus mauritiana*\* (50%)

**Stratum: Tree 3**

Height avg. = 3.0m, 1 site

Crown cover avg. = 0.0%, 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

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**Stratum: Shrub 1**

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

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

*Dominant species (relative cover, frequency):* *Persoonia falcata* (91, 50%), *Sida cordifolia*\* (83, 50%), *Jasminum didymum subsp. racemosum* (9, 50%), *Ficus opposita* (8, 50%), *Corymbia tessellaris* (8, 50%)

*Frequent species (cover, frequency):* *Corymbia tessellaris* (50%), *Ficus opposita* (50%), *Jasminum didymum subsp. racemosum* (50%), *Persoonia falcata* (1, 50%), *Sida cordifolia*\* (1, 50%)

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**Stratum: Shrub 2**

Height avg. = 0.5m, 1 site

Crown cover avg. = 0.0%, 1 site

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**Stratum: Ground**

Height avg. = 0.6m, 1 site

PFC avg. = 35.0%, 1 site

*Dominant species (relative cover, frequency):* *Bothriochloa pertusa*\* (43, 100%), *Chloris gayana*\* (43, 100%), *Euphorbia hirta*\* (3, 100%), *Ocimum americanum*\* (3, 100%), *Malvastrum americanum* (3, 100%)

*Frequent species (cover, frequency):* GRAMINOIDS: *Bothriochloa pertusa*\* (15, 100%), *Chloris gayana*\* (15, 100%), *Digitaria ciliaris*\* (100%)

FORBS: *Acanthospermum hispidum*\* (100%), *Achyranthes aspera* (100%), *Amaranthus interruptus* (100%), *Commelina ensifolia* (100%), *Crotalaria goreensis*\* (100%), *Crotalaria montana* (100%), *Cyanthillium cinereum* (100%), *Euphorbia hirta*\* (1, 100%), *Galactia tenuiflora var. lucida* (100%), *Macroptilium lathyroides*\* (100%), *Malvastrum americanum* (1, 100%), *Marsilea hirsuta* (100%), *Ocimum americanum*\* (1, 100%), *Planchonia careya* (100%), *Senna occidentalis*\* (100%), *Sida cordifolia*\* (100%), *Tridax procumbens*\* (100%), *Trifolium indet.* (100%)

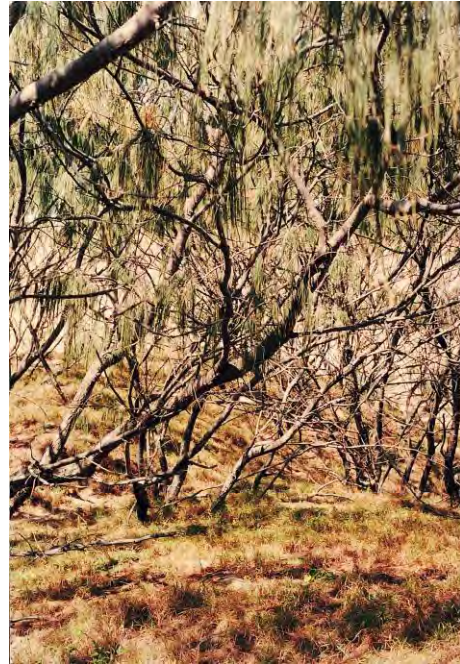
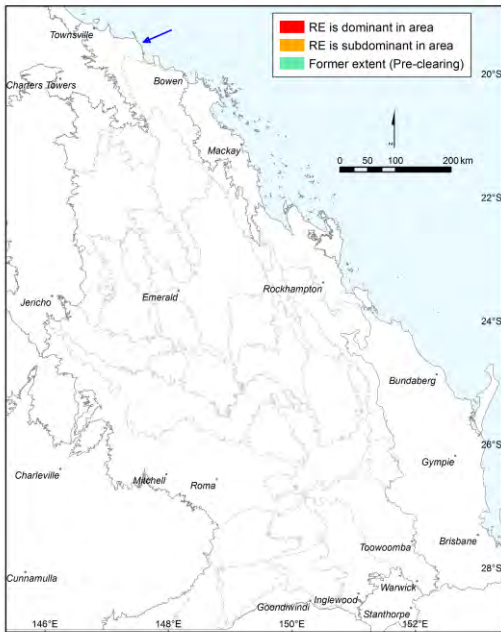
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Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 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

**Complex of *Spinifex sericeus*, *Ipomoea pes-caprae* subsp. *brasiliensis* and *Casuarina equisetifolia* grassland and hermland on fore dunes**



Rhonda Meizer

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 2,090 1,892 91%

Species\_recorded: Total: 18; woody: 6; ground: 14; Avg. spp./site: 14.0; std dev.: 3.0, 2 site(s)

Basal area: Avg./site: 6.0 m<sup>2</sup>/ha, range: 4.0 - 8 m<sup>2</sup>/ha, std. deviation: 2 m<sup>2</sup>/ha, 2 site(s)

Structural formation: Low woodland: 100%, 2 site(s)

Representative\_sites 58314, 58315.

**Stratum: Tree 1**

Height avg. = 4.0m, range 3.9-4m, 2 sites

Crown cover avg. = 22.5%, range 20.0-25.0%, 2 sites

Dominant species (relative cover, frequency): *Casuarina equisetifolia* subsp. *incana* (100, 100%)

Frequent species (cover, frequency): *Casuarina equisetifolia* subsp. *incana* (23, 100%)

**Stratum: Shrub 1**

Height avg. = 1.6m, range 1.4-1.8m, 2 sites

Crown cover avg. = 3.5%, range 2.0-5.0%, 2 sites

Dominant species (relative cover, frequency): *Pandanus tectorius* (38, 50%), *Casuarina equisetifolia* subsp. *incana* (33, 100%), *Helianthus argophyllus*\* (29, 100%), *Excoecaria agallocha* (19, 50%), *Hibiscus tiliaceus* (8, 50%)

Frequent species (cover, frequency): *Casuarina equisetifolia* subsp. *incana* (1, 100%), *Erigeron sumatrensis*\* (100%), *Helianthus argophyllus*\* (1, 100%), *Excoecaria agallocha* (1, 50%), *Hibiscus tiliaceus* (50%), *Pandanus tectorius* (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: Ground****Height avg. = 0.4m, range 0.3-0.5m, 2 sites****PFC avg. = 67.5%, range 60-75%, 2 sites**

*Dominant species (relative cover, frequency): Sporobolus virginicus (43, 100%), Eragrostis interrupta (33, 100%), Vigna marina subsp. marina (10, 100%), Spinifex sericeus (9, 100%), Erigeron sumatrensis\* (2, 100%)*

*Frequent species (cover, frequency): GRAMINOIDS: Eragrostis interrupta (20, 100%), Melinis repens\* (1, 100%), Spinifex sericeus (5, 100%), Sporobolus virginicus (33, 100%), Chloris virgata\* (2, 50%)*

*FORBS: Erigeron sumatrensis\* (1, 100%), Helianthus argophyllus\* (100%), Praxelis clematidea\* (100%), Sonchus oleraceus\* (1, 100%), Vigna marina subsp. marina (8, 100%), Erigeron pusillus\* (50%), Passiflora foetida\* (1, 50%), Sesuvium portulacastrum (50%), Solanum opacum (50%)*

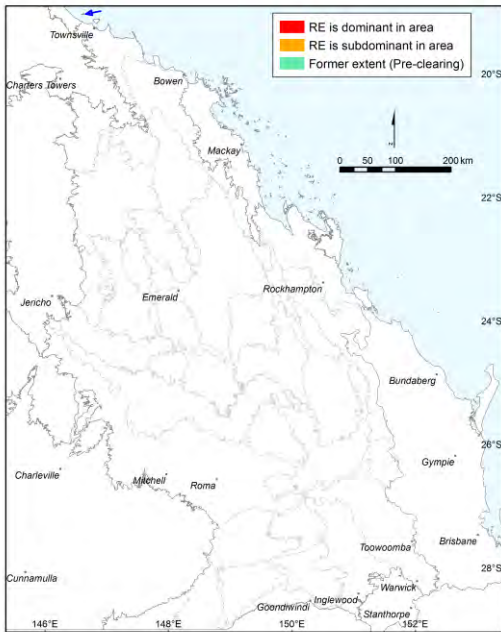
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Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 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

**Grassland with *Heteropogon triticeus*, various other grasses and herbaceous spp. Includes narrow prostrate strandline vegetation**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 42 42 100%

Species\_recorded: Total: 13; woody: 1; ground: 12; Avg. spp./site: 13.0; std dev.: 0.0, 1 site(s)

Basal area: 0

Structural formation: Tussock grassland: 100%, 1 site(s)

Representative\_sites 26134.

**Stratum: Shrub 1**

Height avg. = 2.4m, 1 site

Crown cover avg. = 4.0%, 1 site

Dominant species (relative cover, frequency): *Clerodendrum floribundum* (100, 100%)

Frequent species (cover, frequency): *Clerodendrum floribundum* (4, 100%)

**Stratum: Ground**

Height avg. = 0.5m, 1 site

PFC avg. = 53.0%, 1 site

Dominant species (relative cover, frequency): *Themeda triandra* (69, 100%), *Heteropogon triticeus* (19, 100%), *Cajanus reticulatus* (7, 100%), *Tridax procumbens*\* (2, 100%), *Flemingia parviflora* (2, 100%)

Frequent species (cover, frequency): GRAMINOIDS: *Heteropogon triticeus* (10, 100%), *Themeda triandra* (37, 100%)  
 FORBS: *Cajanus reticulatus* (4, 100%), *Euphorbia bifida* (100%), *Evolvulus alsinoides* (100%), *Flemingia parviflora* (1, 100%), *Glycine tomentella* (100%), *Indigofera linifolia* (100%), *Ipomoea pes-caprae* subsp. *brasiliensis* (100%), *Rhynchosia minima* (100%), *Rostellularia adscendens* var. *hispida* (100%), *Tridax procumbens*\* (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

Microphyll vine forest ("beach scrub") on sandy beach ridges and dune swales



Annie Kelly

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 2,933 2,513 86%

Species\_recorded: Total: 244; woody: 184; ground: 99; Avg. spp./site: 43.4; std dev.: 11.2, 20 site(s)

Basal area: Avg./site: 19.2 m<sup>2</sup>/ha, range: 4.0 - 42 m<sup>2</sup>/ha, std. deviation: 14 m<sup>2</sup>/ha, 7 site(s)

Structural formation: Low open-forest: 5%; low closed-forest: 5%; unrecorded: 91%, 22 site(s)

Representative\_sites 17085, 17087, 26408, 26558, 27826, 27832, 27834, 27836, 27838, 27839, 27840, 27841, 27842, 28029, 36833, 40729, 52296, 52854, 53634, 53654, 53655, 53656.

**Stratum: Emergent**

Height avg. = 13.3m, range 10-18m, 8 sites  
 Crown cover avg. = 5.3%, range 0.0-10.0%, 8 sites

Frequent species (cover, frequency): *Ficus rubiginosa* (1, 9%), *Mimusops elengi* (4, 9%), *Pleiogynium timorensis* (4, 9%), *Brachychiton australis* (8, 5%), *Corymbia tessellaris* (5, 5%), *Eucalyptus tereticornis* (1, 5%), *Falcataria toona* (5, 5%), *Ficus rubiginosa forma rubiginosa* (2, 5%), *Ficus virens var. virens* (5, 5%), *Ganophyllum falcatum* (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: Tree 1**

Height avg. = 8.4m, range 4-15m, 21 sites

Crown cover avg. = 57.7%, range 35.0-100.0%, 21 sites

*Dominant species (relative cover, frequency): Mimusops elengi (17, 73%), Pleiogygium timorense (16, 91%), Diospyros geminata (16, 86%), Drypetes deplanchei (14, 91%), Sersalisia sericea (14, 41%)*

*Frequent species (cover, frequency): Drypetes deplanchei (8, 91%), Pleiogygium timorense (9, 91%), Diospyros geminata (9, 86%), Mimusops elengi (8, 73%), Cupaniopsis anacardioides (4, 64%), Capparis sepiaria (1, 50%), Polyalthia nitidissima (3, 50%), Trophis scandens subsp. scandens (1, 50%), Alectryon connatus (1, 45%), Ficus rubiginosa (2, 45%), Sersalisia sericea (7, 41%), Celtis paniculata (27%), Celtis philippensis (1, 27%), Exocarpos latifolius (3, 27%), Ganophyllum falcatum (4, 27%), Acacia oraria (4, 23%), Alphitonia excelsa (2, 23%), Brachychiton australis (1, 23%), Geijera salicifolia (1, 23%), Gyrocarpus americanus (3, 23%), Jasminum simplicifolium subsp. australiense (1, 23%), Terminalia muelleri (2, 23%), Aidia racemosa (18%), Amorphospermum antilogum (2, 18%), Elaeodendron melanocarpum (4, 18%), Pachygone ovata (18%), Denhamia disperma (2, 14%), Fitzalania heteropetala (1, 14%), Olea paniculata (1, 14%), Parsonsia lanceolata (14%), Pisonia aculeata (14%), Secamone elliptica (14%), Sterculia quadrifida (1, 14%), Acacia disparrima subsp. disparrima (9%), Amyema congener (9%), Canarium australicum var. australicum (28, 9%), Chionanthus ramiflorus (10, 9%), Cissus repens (9%), Corymbia tessellaris (2, 9%), Cryptocarya triplinervis (3, 9%), Cynanchum viminale subsp. brunonianum (9%), Euroschinus falcatus var. falcatus (3, 9%), Gossia bidwillii (9%), Lysiphyllum hookeri (9%), Mallotus discolor (1, 9%), Melodorum leichhardtii (9%), Millettia pinnata (39, 9%), Psydrax odorata (9%), Psydrax odorata subsp. australiana (9%), Tamarindus indica\* (9%), Terminalia porphyrocarpa (1, 9%), Xylosma ovata (4, 9%), Acacia leptocarpa (3, 5%), Acacia salicina (5, 5%), Aglaia elaeagnoidea (5%), Alyxia spicata (2, 5%), Bridelia exaltata (5%), Bridelia leichhardtii (5%), Capparis arborea (5%), Carissa ovata (5, 5%), Cissus oblonga (1, 5%), Cochlospermum gillivraei (1, 5%), Croton arnhemicus (8, 5%), Cryptostegia grandiflora\* (1, 5%), Dendrobium discolor (5%), Dendrophthoe curvata (5%), Dendrophthoe glabrescens (1, 5%), Denhamia oleaster (15, 5%), Ehretia membranifolia (5%), Eugenia reinwardtiana (5, 5%), Euroschinus falcatus (5%), Euroschinus falcatus var. angustifolius (1, 5%), Ficus microcarpa (5, 5%), Ficus virens (5, 5%), Ficus virens var. virens (5%), Glossocarya hemiderma (5%), Gymnanthera oblonga (1, 5%), Hibiscus tiliaceus (3, 5%), Hoya australis subsp. australis (5%), Jasminum didymum subsp. didymum (1, 5%), Litsea glutinosa (2, 5%), Livistona decora (5%), Lysiana spathulata subsp. parvifolia (5%), Mallotus philippensis (5, 5%), Melaleuca viridiflora (5%), Memecylon pauciflorum (5%), Micromelum minutum (2, 5%), Momordica charantia\* (1, 5%), Morinda citrifolia (1, 5%), Myrsine variabilis (3, 5%), Neolitsea brassii (4, 5%), Pandorea pandorana (5%), Petalostigma pubescens (5%), Pittosporum ferrugineum subsp. ferrugineum (5%), Pittosporum ferrugineum subsp. linifolium (5%), Planchonella cotinifolia (5%), Planchonia careya (5%), Psydrax attenuata (1, 5%), Sarcophilus indet. (5%), Tabernaemontana orientalis (1, 5%), Tinospora smilacina (5%), Turraea pubescens (3, 5%), Viscum articulatum (5%)*

**Stratum: Tree 2**

Height avg. = 6.3m, range 4.5-8m, 11 sites

Crown cover avg. = 24.6%, range 5.0-65.0%, 11 sites

*Dominant species (relative cover, frequency): Sersalisia sericea (32, 32%), Polyalthia nitidissima (27, 23%), Acacia oraria (10, 23%), Gossia bidwillii (9, 27%), Mimusops elengi (9, 23%)*

*Frequent species (cover, frequency): Sersalisia sericea (6, 32%), Alectryon connatus (27%), Celtis paniculata (1, 27%), Gossia bidwillii (1, 27%), Acacia oraria (1, 23%), Alphitonia excelsa (1, 23%), Elaeodendron melanocarpum (23%), Mimusops elengi (1, 23%), Polyalthia nitidissima (11, 23%), Aidia racemosa (5, 18%), Croton arnhemicus (3, 14%), Cynanchum viminale subsp. brunonianum (14%), Diospyros geminata (5, 14%), Drypetes deplanchei (5, 14%), Exocarpos latifolius (2, 14%), Parsonsia plaesiophylla (14%), Pisonia aculeata (14%), Canarium australicum (9%), Capparis sepiaria (3, 9%), Celtis philippensis (9%), Cupaniopsis anacardioides (2, 9%), Jasminum simplicifolium subsp. australiense (9%), Notelaea microcarpa (9%), Pandorea pandorana (9%), Secamone elliptica (9%), Terminalia muelleri (1, 9%), Acacia flavescens (5%), Amorphospermum antilogum (1, 5%), Cissus reniformis (5%), Cryptocarya triplinervis (40, 5%), Denhamia disperma (5%), Dinosperma erythrococcum (1, 5%), Fitzalania heteropetala (5%), Ganophyllum falcatum (2, 5%), Geijera salicifolia (5%), Glossocarya hemiderma (1, 5%), Glycosmis trifoliata (1, 5%), Harpullia hillii (5%), Micromelum minutum (1, 5%), Millettia pinnata (5%), Myrsine variabilis (5%), Neolitsea brassii (20, 5%), Pachygone ovata (5%), Psydrax odorata subsp. australiana (2, 5%), Sarcophilus indet. (5%), Timonius timon var. timon (5%), Trophis scandens subsp. scandens (2, 5%)*

**Stratum: Tree 3**

Height avg. = 5.0m, 1 site

Crown cover avg. = 20.0%, 1 site

*Frequent species (cover, frequency): Aidia racemosa (5, 5%), Diospyros geminata (5, 5%), Gossia bidwillii (5, 5%), Tabernaemontana orientalis (5, 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: Shrub 1**

Height avg. = 2.6m, range 1-5.5m, 21 sites

Crown cover avg. = 34.3%, range 3.0-65.0%, 21 sites

Dominant species (relative cover, frequency): *Eugenia reinwardtiana* (27, 59%), *Carissa ovata* (17, 59%), *Polyalthia nitidissima* (14, 27%), *Diospyros geminata* (13, 32%), *Sersalisia sericea* (12, 36%)

Frequent species (cover, frequency): *Exocarpos latifolius* (3, 77%), *Carissa ovata* (5, 59%), *Eugenia reinwardtiana* (9, 59%), *Jasminum didymum subsp. didymum* (50%), *Cupaniopsis anacardioides* (1, 45%), *Capparis sepiaria* (1, 41%), *Alphitonia excelsa* (1, 36%), *Clerodendrum floribundum* (36%), *Elaeodendron melanocarpum* (2, 36%), *Micromelum minutum* (36%), *Sersalisia sericea* (4, 36%), *Tabernaemontana orientalis* (1, 36%), *Trophis scandens subsp. scandens* (1, 36%), *Croton arnhemicus* (5, 32%), *Diospyros geminata* (6, 32%), *Drypetes deplanchei* (4, 32%), *Alyxia ruscifolia* (27%), *Cynanchum viminale subsp. brunonianum* (27%), *Denhamia disperma* (1, 27%), *Geijera salicifolia* (27%), *Glycosmis trifoliata* (27%), *Jasminum simplicifolium subsp. australiense* (1, 27%), *Lantana camara\** (1, 27%), *Phyllanthus novae-hollandiae* (3, 27%), *Polyalthia nitidissima* (6, 27%), *Psydrax odorata* (27%), *Secamone elliptica* (27%), *Pavetta australiensis var. australiensis* (2, 23%), *Pleiogynium timorense* (23%), *Psydrax odorata subsp. australiana* (1, 23%), *Antidesma parvifolium* (18%), *Deeringia amaranthoides* (18%), *Melodorum leichhardtii* (1, 18%), *Murraya ovatifoliolata* (6, 18%), *Myrsine variabilis* (18%), *Notelaea microcarpa* (18%), *Pachygone ovata* (18%), *Abrus precatorius subsp. precatorius* (14%), *Alectryon connatus* (1, 14%), *Breynia oblongifolia* (14%), *Cyclophyllum coprosmoides* (14%), *Gossia bidwillii* (14%), *Ixora queenslandica* (4, 14%), *Pandorea pandorana* (14%), *Petalostigma pubescens* (1, 14%), *Pittosporum spinescens* (3, 14%), *Premna dallachiana* (14%), *Psychotria daphnoides* (1, 14%), *Strychnos psilosperma* (7, 14%), *Tephrosia brachyodon var. brachyodon* (14%), *Turraea pubescens* (1, 14%), *Xylosma ovata* (1, 14%), *Acacia salicina* (3, 9%), *Acronychia laevis* (9%), *Aglaia elaeagnoidea* (1, 9%), *Alyxia spicata* (2, 9%), *Bridelia leichhardtii* (9%), *Canarium australianum* (9%), *Capparis lucida* (9%), *Capparis ornans* (9%), *Celtis philippensis* (3, 9%), *Chionanthus ramiflorus* (1, 9%), *Dodonaea viscosa subsp. burmanniana* (1, 9%), *Ficus rubiginosa* (9%), *Flueggea virosa subsp. melanthesoides* (9%), *Gymnanthera oblonga* (9%), *Mallotus discolor* (9%), *Mimusops elengi* (9%), *Olea paniculata* (1, 9%), *Opuntia tomentosa\** (1, 9%), *Pandanus cookii* (9%), *Passiflora aurantia var. aurantia* (9%), *Persoonia falcata* (9%), *Sarcocochilus indet.* (9%), *Senna gaudichaudii* (9%), *Abutilon theophrasti\** (5, 5%), *Acacia leptocarpa* (1, 5%), *Acacia oraria* (1, 5%), *Acronychia pauciflora* (5%), *Alstonia constricta* (1, 5%), *Amorphospermum antilogum* (1, 5%), *Bruguiera exaristata* (5%), *Canarium australianum var. australianum* (5%), *Cassipoua pubescens* (5%), *Celtis paniculata* (5%), *Cerriops australis* (5%), *Cissus oblonga* (5%), *Cissus reniformis* (5%), *Clerodendrum inerme* (2, 5%), *Clerodendrum longiflorum var. glabrum* (5%), *Coelospermum reticulatum* (5%), *Colubrina asiatica* (5%), *Croton phebaloides* (5, 5%), *Cyclophyllum coprosmoides var. coprosmoides* (5%), *Dendrobium discolor* (5%), *Denhamia oleaster* (10, 5%), *Diospyros humilis* (8, 5%), *Dodonaea viscosa* (1, 5%), *Ehretia membranifolia* (1, 5%), *Elaeodendron australe var. integrifolium* (5%), *Erythroxylum australe* (5%), *Ficus opposita* (5%), *Fitzalania heteropetala* (3, 5%), *Flueggea leucopyrus* (2, 5%), *Ganophyllum falcatum* (1, 5%), *Hoya australis subsp. australis* (1, 5%), *Jasminum didymum subsp. racemosum* (5%), *Larsenaikia ochreatea* (5%), *Leucaena leucocephala\** (5%), *Lithomyrtus obtusa* (3, 5%), *Litsea glutinosa* (1, 5%), *Lysiphylum hookeri* (5, 5%), *Mallotus philippensis* (15, 5%), *Marsdenia viridiflora* (5%), *Morinda citrifolia* (3, 5%), *Myrsine crassifolia* (5%), *Pandanus spiralis* (5%), *Pandanus tectorius* (5%), *Parsonia lanceolata* (1, 5%), *Parsonia plaesiophylla* (5%), *Passiflora aurantia* (5%), *Passiflora suberosa\** (5%), *Pavetta australiensis* (1, 5%), *Pittosporum ferrugineum subsp. ferrugineum* (5%), *Planchonia careya* (1, 5%), *Psychotria polioSTEMMA* (5%), *Psydrax attenuata* (5%), *Psydrax odorata forma australiana* (5%), *Solanum seafortianum\** (5%), *Sophora tomentosa subsp. australis* (5%), *Sterculia quadrifida* (5%), *Terminalia porphyrocarpa* (5%), *Timonius timon var. timon* (1, 5%), *Trema tomentosa* (3, 5%), *Vitex trifolia* (5%), *Vitex trifolia var. trifolia* (5%), *Wikstroemia indica* (5%)

**Stratum: Shrub 2**

Height avg. = 1.4m, range 1-1.8m, 5 sites

Crown cover avg. = 9.0%, range 0.0-27.0%, 5 sites

Frequent species (cover, frequency): *Abutilon albescens* (1, 14%), *Diospyros geminata* (1, 9%), *Alectryon connatus* (1, 5%), *Carissa ovata* (13, 5%), *Croton phebaloides* (1, 5%), *Cupaniopsis anacardioides* (5%), *Deeringia amaranthoides* (2, 5%), *Denhamia disperma* (5%), *Drypetes deplanchei* (5%), *Elaeodendron melanocarpum* (1, 5%), *Exocarpos latifolius* (5%), *Glycosmis trifoliata* (5%), *Hypoestes floribunda* (10, 5%), *Jasminum simplicifolium subsp. australiense* (5%), *Melodinus australis* (5%), *Mimusops elengi* (5%), *Polyalthia nitidissima* (5%), *Psychotria fitzalanii* (2, 5%), *Psydrax odorata subsp. australiana* (5%), *Trophis scandens subsp. scandens* (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. = 0.5m, range 0.1-1m, 18 sites

PFC avg. = 5.7%, range 0-20%, 19 sites

*Dominant species (relative cover, frequency):* *Ancistrachne uncinulata* (15, 55%), *Plumbago zeylanica* (12, 30%), *Cyperus indet.* (11, 35%), *Abrus precatorius* subsp. *precatorius* (8, 25%), *Jasminum didymum* subsp. *didymum* (8, 45%)

*Frequent species (cover, frequency):* GRAMINOIDS: *Ancistrachne uncinulata* (55%), *Cyperus indet.* (35%), *Bulbostylis barbata* (15%), *Aristida holathera* var. *holathera* (4, 10%), *Aristida indet.* (1, 10%), *Cenchrus ciliaris*\* (1, 10%), *Digitaria diminuta* (10%), *Megathyrsus maximus* var. *coloratus*\* (3, 10%), *Melinis repens*\* (10%), *Setaria surgens* (10%)

FORBS: *Jasminum didymum* subsp. *didymum* (1, 45%), *Plumbago zeylanica* (30%), *Abrus precatorius* subsp. *precatorius* (25%), *Carissa ovata* (1, 20%), *Deeringia amaranthoides* (1, 20%), *Passiflora aurantia* var. *aurantia* (20%), *Stephania japonica* var. *discolor* (20%), *Drypetes deplanchei* (15%), *Hypoestes floribunda* (15%), *Jasminum simplicifolium* subsp. *australiense* (3, 15%), *Passiflora foetida*\* (15%), *Passiflora suberosa*\* (1, 15%), *Secamone elliptica* (15%), *Trophis scandens* subsp. *scandens* (15%), *Achyranthes aspera* (1, 10%), *Capparis sepiaria* (1, 10%), *Crotalaria medicaginea* (10%), *Diospyros geminata* (1, 10%), *Diplocyclos palmatus* subsp. *palmatus* (10%), *Pleiogynium timorense* (10%), *Solanum seaforthianum*\* (10%), *Stachytarpheta jamaicensis*\* (3, 10%), *Tinospora smilacina* (1, 10%)

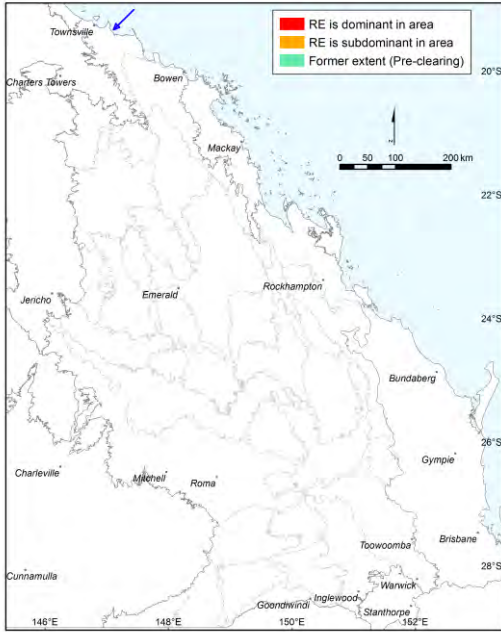
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**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with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

Lagoons in coastal dune swales



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 31 24 77%

Species\_recorded: Total: 8; woody: 3; ground: 5; Avg. spp./site: 8.0; std dev.: 0.0, 1 site(s)

Basal area: Avg./site: 3.0 m<sup>2</sup>/ha, range: 3.0 - 3 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 26407.

**Stratum: Tree 1**

Height avg. = 15.0m, 1 site

Crown cover avg. = 40.0%, 1 site

Dominant species (relative cover, frequency): *Melaleuca viridiflora* (59, 100%), *Nauclea orientalis* (40, 100%), *Livistona decora* (1, 100%)

Frequent species (cover, frequency): *Livistona decora* (1, 100%), *Melaleuca viridiflora* (24, 100%), *Nauclea orientalis* (16, 100%)

**Stratum: Ground**

PFC avg. = 18.0%, 1 site

Dominant species (relative cover, frequency): *Nymphaea gigantea* (55, 100%), *Persicaria attenuata* (44, 100%), *Momordica charantia*\* (1, 100%), *Eleocharis dulcis* (1, 100%), *Cyperus indet.* (1, 100%)

Frequent species (cover, frequency): GRAMINOIDS: *Cyperus indet.* (100%), *Eleocharis dulcis* (100%)

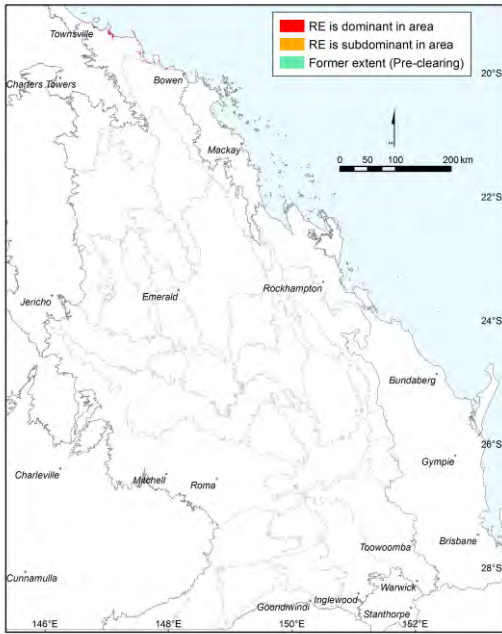
FORBS: *Momordica charantia*\* (100%), *Nymphaea gigantea* (10, 100%), *Persicaria attenuata* (8, 100%)

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

**Corymbia-Melaleuca woodland complex of beach ridges and swales**



**Pre-clearing area (ha), remnant area (ha) and per cent remaining:** 19,832 12,853 65%

**Species recorded:** Total: 89; woody: 38; ground: 56; Avg. spp./site: 28.8; std dev.: 6.0, 4 site(s)

**Basal area:** Avg./site: 7.1 m<sup>2</sup>/ha, range: 4.0 - 10 m<sup>2</sup>/ha, std. deviation: 3 m<sup>2</sup>/ha, 4 site(s)

**Structural formation:** Woodland: 75%; open-forest: 25%, 4 site(s)

**Representative sites** 19035, 19046, 19051, 26409.

**Stratum: Tree 1**

**Height avg. = 17.0m, range 14-20m, 4 sites**  
**Crown cover avg. = 36.5%, range 21.0-70.0%, 4 sites**

*Dominant species (relative cover, frequency): Eucalyptus platyphylla (96, 50%), Corymbia tessellaris (46, 75%), Acacia crassicaarpa (34, 25%), Canarium australianum (22, 25%), Livistona decora (11, 25%)*

*Frequent species (cover, frequency): Corymbia tessellaris (18, 75%), Eucalyptus platyphylla (28, 50%), Acacia crassicaarpa (25, 25%), Canarium australianum (16, 25%), Celtis paniculata (2, 25%), Livistona decora (3, 25%)*

**Stratum: Tree 2**

**Height avg. = 10.5m, range 8-12m, 4 sites**  
**Crown cover avg. = 18.3%, range 8.0-23.0%, 4 sites**

*Dominant species (relative cover, frequency): Melaleuca dealbata (50, 50%), Premna serratifolia (49, 25%), Acacia flavescens (42, 25%), Planchonia careya (32, 50%), Terminalia muelleri (22, 50%)*

*Frequent species (cover, frequency): Corymbia tessellaris (50%), Melaleuca dealbata (4, 50%), Pandanus cookii (50%), Planchonia careya (6, 50%), Pleiogynium timorense (50%), Terminalia muelleri (3, 50%), Acacia crassicaarpa (25%), Acacia flavescens (10, 25%), Alphitonia excelsa (3, 25%), Canarium australianum var. australianum (25%), Clerodendrum floribundum (25%), Corymbia clarksoniana (25%), Drypetes deplanchei (2, 25%), Eucalyptus platyphylla (25%), Jasminum simplicifolium subsp. australiense (25%), Melaleuca viridiflora (25%), Morinda citrifolia (25%), Premna serratifolia (10, 25%), Timonius timon var. timon (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 3**

Height avg. = 4.0m, 1 site

Crown cover avg. = 40.0%, 1 site

*Dominant species (relative cover, frequency):* *Exocarpos latifolius* (33, 25%), *Morinda citrifolia* (24, 25%), *Jasminum simplicifolium subsp. australiense* (14, 25%), *Canarium australianum* (14, 25%), *Clerodendrum floribundum* (9, 25%)

*Frequent species (cover, frequency):* *Acacia crassicarpa* (25%), *Canarium australianum* (6, 25%), *Clerodendrum floribundum* (4, 25%), *Cupaniopsis anacardioides* (25%), *Diospyros geminata* (25%), *Exocarpos latifolius* (14, 25%), *Jasminum simplicifolium subsp. australiense* (6, 25%), *Litsea glutinosa* (2, 25%), *Morinda citrifolia* (10, 25%)

**Stratum: Shrub 1**

Height avg. = 3.3m, range 1-4m, 4 sites

Crown cover avg. = 1.5%, range 1.0-2.0%, 4 sites

*Dominant species (relative cover, frequency):* *Pleiogynium timorense* (83, 25%), *Acacia holosericea* (67, 25%), *Jasminum simplicifolium subsp. australiense* (47, 25%), *Atractocarpus fitzalanii subsp. fitzalanii* (38, 25%), *Lantana camara\** (16, 75%)

*Frequent species (cover, frequency):* *Lantana camara\** (1, 75%), *Pandanus cookii* (50%), *Planchonia careya* (50%), *Abrus precatorius subsp. precatorius* (1, 25%), *Acacia flavescens* (25%), *Acacia holosericea* (1, 25%), *Alphitonia excelsa* (25%), *Atractocarpus fitzalanii subsp. fitzalanii* (1, 25%), *Clerodendrum floribundum* (25%), *Corymbia tessellaris* (25%), *Cynanchum viminalis subsp. brunonianum* (25%), *Ficus opposita* (25%), *Geijera salicifolia* (25%), *Jasminum didymum subsp. racemosum* (25%), *Jasminum simplicifolium subsp. australiense* (2, 25%), *Larsenaikia ochreatea* (25%), *Livistona decora* (25%), *Planchonella pohlmaniana* (25%), *Pleiogynium timorense* (1, 25%), *Polyalthia nitidissima* (25%)

**Stratum: Shrub 2**

Height avg. = 1.9m, range 1.2-2.5m, 3 sites

Crown cover avg. = 0.7%, range 0.0-1.0%, 3 sites

*Dominant species (relative cover, frequency):* *Livistona decora* (50, 25%), *Cupaniopsis anacardioides* (50, 25%), *Planchonia careya* (33, 25%), *Pandanus cookii* (33, 25%), *Melaleuca dealbata* (33, 25%)

*Frequent species (cover, frequency):* *Cupaniopsis anacardioides* (25%), *Ficus opposita* (25%), *Lantana camara\** (25%), *Livistona decora* (25%), *Macaranga tanarius* (25%), *Melaleuca dealbata* (25%), *Pandanus cookii* (25%), *Planchonia careya* (25%)

**Stratum: Ground**

Height avg. = 1.0m, range 0.8-1m, 4 sites

PFC avg. = 26.0%, range 5-53%, 4 sites

*Dominant species (relative cover, frequency):* *Bothriochloa pertusa\** (94, 25%), *Mesosphaerum suaveolens\** (67, 25%), *Stephania japonica var. timoriensis* (56, 25%), *Tridax procumbens\** (19, 25%), *Imperata cylindrica* (19, 25%)

*Frequent species (cover, frequency):* GRAMINOIDS: *Heteropogon contortus* (50%), *Melinis repens\** (50%), *Perotis rara* (1, 50%), *Aristida holathera var. holathera* (5, 25%), *Bothriochloa indet.* (25%), *Bothriochloa pertusa\** (50, 25%), *Bulbostylis barbata* (1, 25%), *Cenchrus echinatus\** (25%), *Chloris gayana\** (25%), *Cyperus scaber* (25%), *Heteropogon triticeus* (25%), *Imperata cylindrica* (5, 25%), *Megathyrsus maximus\** (25%), *Schizachyrium pseudeulalia* (25%), *Setaria surgens* (25%), *Sporobolus jacquemontii\** (25%), *Sporobolus pyramidalis\** (1, 25%), *Urochloa subquadripara\** (25%)

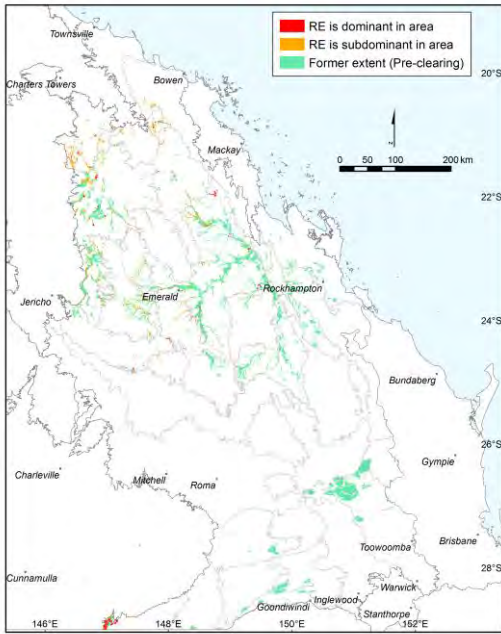
FORBS: *Sida cordifolia\** (75%), *Crotalaria goreensis\** (50%), *Flemingia parviflora* (1, 50%), *Passiflora suberosa\** (50%), *Stachytarpheta jamaicensis\** (1, 50%), *Abrus precatorius subsp. precatorius* (25%), *Acanthospermum hispidum\** (2, 25%), *Achyranthes aspera* (1, 25%), *Breynia oblongifolia* (25%), *Clitoria ternatea\** (25%), *Convolvulaceae indet.* (25%), *Cucumis althaeoides* (25%), *Cyanthillium cinereum* (25%), *Desmodium campylocaulon* (25%), *Dianella caerulea* (25%), *Dianella caerulea var. vannata* (25%), *Dianella indet.* (25%), *Euphorbia indet.* (25%), *Euphorbia mitchelliana* (25%), *Exocarpos latifolius* (25%), *Flueggea virosa subsp. melanthesoides* (25%), *Glycine latifolia* (1, 25%), *Jasminum didymum* (1, 25%), *Lantana camara\** (1, 25%), *Macaranga tanarius* (25%), *Macroptilium atropurpureum\** (25%), *Mesosphaerum suaveolens\** (15, 25%), *Plectranthus indet.* (5, 25%), *Pleiogynium timorense* (1, 25%), *Senna indet.* (25%), *Sida acuta\** (25%), *Sida hackettiana* (25%), *Sida spinosa\** (25%), *Solanum seaforthianum\** (25%), *Stephania japonica var. timoriensis* (1, 25%), *Stictocardia tiliifolia* (25%), *Tridax procumbens\** (5, 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 harpophylla and/or Casuarina cristata open forest on alluvial plains



Don Butler

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 778,179 79,646 10%

Species\_recorded: Total: 139; woody: 41; ground: 109; Avg. spp./site: 21.6; std dev.: 5.2, 7 site(s)

Basal area: Avg./site: 13.3 m<sup>2</sup>/ha, range: 8.0 - 22 m<sup>2</sup>/ha, std. deviation: 4 m<sup>2</sup>/ha, 13 site(s)

Structural formation: Open-forest: 46%; woodland: 31%; open-woodland: 23%, 13 site(s)

Representative\_sites 16837, 16912, 17083, 17181, 17227, 17235, 17244, 17304, 17593, 19242, 19245, 19252, 58114.

Stratum: Emergent

Height avg. = 15.0m, 1 site

Crown cover avg. = 10.0%, 1 site

Frequent species (cover, frequency): *Eucalyptus coolabah* (10, 8%)

Stratum: Tree 1

Height avg. = 15.1m, range 10-22m, 13 sites

Crown cover avg. = 32.7%, range 7.0-65.0%, 13 sites

Dominant species (relative cover, frequency): *Acacia harpophylla* (75, 85%), *Eucalyptus coolabah* (37, 23%), *Casuarina cristata* (30, 38%), *Terminalia oblongata subsp. oblongata* (18, 23%)

Frequent species (cover, frequency): *Acacia harpophylla* (26, 85%), *Casuarina cristata* (11, 38%), *Eucalyptus coolabah* (10, 23%), *Terminalia oblongata subsp. oblongata* (2, 23%), *Eucalyptus cambageana* (20, 15%), *Brachychiton rupestris* (1, 8%), *Eucalyptus populnea* (8%), *Lysiphyllum carronii* (5, 8%), *Lysiphyllum hookeri* (8%), *Melaleuca bracteata* (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. = 7.8m, range 4-12m, 8 sites

Crown cover avg. = 18.3%, range 5.0-30.0%, 8 sites

Dominant species (relative cover, frequency): *Acacia harpophylla* (80, 23%), *Lysiphyllum carronii* (48, 23%)

Frequent species (cover, frequency): *Acacia harpophylla* (14, 23%), *Lysiphyllum carronii* (4, 23%), *Casuarina cristata* (3, 15%), *Geijera parviflora* (13, 15%), *Lysiphyllum hookeri* (6, 15%), *Acacia salicina* (5, 8%), *Alectryon diversifolius* (1, 8%), *Alectryon oleifolius subsp. elongatus* (8%), *Brachychiton rupestris* (1, 8%), *Bridelia leichhardtii* (1, 8%), *Capparis lasiantha* (1, 8%), *Denhamia oleaster* (8%), *Diospyros humilis* (8%), *Elatostachys xylocarpa* (1, 8%), *Eremophila mitchellii* (5, 8%), *Melaleuca bracteata* (5, 8%), *Notelaea microcarpa* (5, 8%), *Opuntia tomentosa\** (8%), *Planchonella cotinifolia var. pubescens* (1, 8%), *Psyrdrax odorata* (8%), *Psyrdrax odorata forma buxifolia* (8%), *Santalum lanceolatum* (8%), *Terminalia oblongata subsp. oblongata* (10, 8%)

**Stratum: Tree 3**

Height avg. = 4.0m, range 3-5m, 2 sites

Crown cover avg. = 6.5%, range 1.0-12.0%, 2 sites

Frequent species (cover, frequency): *Acacia harpophylla* (3, 8%), *Alectryon diversifolius* (2, 8%), *Capparis lasiantha* (8%), *Diospyros humilis* (2, 8%), *Elatostachys xylocarpa* (8%), *Eremophila mitchellii* (21, 8%), *Exocarpos latifolius* (1, 8%), *Pittosporum spinescens* (3, 8%)

**Stratum: Shrub 1**

Height avg. = 1.9m, range 1-6m, 11 sites

Crown cover avg. = 13.3%, range 1.0-40.0%, 12 sites

Dominant species (relative cover, frequency): *Geijera parviflora* (67, 23%), *Acacia harpophylla* (31, 46%), *Carissa ovata* (28, 46%), *Alectryon diversifolius* (22, 62%), *Lysiphyllum hookeri* (18, 23%)

Frequent species (cover, frequency): *Alectryon diversifolius* (2, 62%), *Acacia harpophylla* (2, 46%), *Carissa ovata* (8, 46%), *Terminalia oblongata subsp. oblongata* (1, 31%), *Geijera parviflora* (14, 23%), *Lysiphyllum hookeri* (1, 23%), *Apophyllum anomalum* (1, 15%), *Casuarina cristata* (1, 15%), *Diospyros humilis* (4, 15%), *Eremophila deserti* (3, 15%), *Eremophila mitchellii* (4, 15%), *Lysiphyllum carronii* (1, 15%), *Acacia salicina* (1, 8%), *Alectryon oleifolius subsp. elongatus* (1, 8%), *Alphitonia excelsa* (1, 8%), *Atalaya hemiglauca* (8%), *Brachychiton rupestris* (1, 8%), *Breynia oblongifolia* (1, 8%), *Capparis lasiantha* (1, 8%), *Citrus glauca* (8%), *Clematicissus opaca* (8%), *Ehretia membranifolia* (8%), *Eremophila bignoniiflora* (8%), *Eremophila maculata* (1, 8%), *Geijera salicifolia* (1, 8%), *Opuntia tomentosa\** (8%), *Pittosporum spinescens* (8%), *Psyrdrax odorata* (1, 8%), *Sida cordifolia\** (20, 8%)

**Stratum: Shrub 2**

Height avg. = 1.5m, 1 site

Crown cover avg. = 5.0%, 1 site

Frequent species (cover, frequency): *Lysiphyllum hookeri* (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, 7 sites

PFC avg. = 25.4%, range 3-60%, 7 sites

*Dominant species (relative cover, frequency): Paspalidium caespitosum (36, 43%), Sclerolaena tetracuspis (23, 43%), Carissa ovata (20, 43%), Alectryon diversifolius (19, 43%), Parthenium hysterophorus\* (10, 43%)*

*Frequent species (cover, frequency): GRAMINOIDS: Cyperus indet. (57%), Paspalidium caespitosum (13, 43%), Sporobolus caroli (1, 43%), Echinochloa colona\* (29%), Enteropogon acicularis (29%), Paspalidium jubiflorum (1, 29%), Ancistrachne uncinulata (14%), Aristida gracilipes (15, 14%), Cenchrus ciliaris\* (14%), Dinebra decipiens (14%), Dinebra decipiens var. decipiens (10, 14%), Eleocharis pallens (1, 14%), Enneapogon indet. (14%), Enteropogon ramosus (2, 14%), Eragrostis leptostachya (14%), Eriochloa procera (2, 14%), Eriochloa pseudoacrotricha (14%), Heteropogon contortus (14%), Iseilema vaginiflorum (1, 14%), Megathyrsus maximus\* (14%), Panicum indet. (14%), Panicum queenslandicum (14%), Paspalidium globoideum (14%), Paspalidium indet. (14%), Sporobolus creber (2, 14%), Sporobolus disjunctus (1, 14%), Sporobolus elongatus (14%)*

*FORBS: Capparis lasiantha (57%), Abutilon oxycarpum (43%), Alectryon diversifolius (4, 43%), Carissa ovata (1, 43%), Parthenium hysterophorus\* (1, 43%), Sclerolaena tetracuspis (7, 43%), Abutilon oxycarpum var. oxycarpum (29%), Brunoniella australis (29%), Salsola australis (2, 29%), Abutilon guineense\* (14%), Acacia harpophylla (1, 14%), Alternanthera denticulata (14%), Alternanthera nodiflora (14%), Amaranthus macrocarpus (14%), Asteraceae indet. (1, 14%), Boerhavia burbidgeana (14%), Boerhavia indet. (14%), Bryophyllum delagoense\* (14%), Cayratia indet. (1, 14%), Clematicissus opaca (14%), Commelina ensifolia (14%), Commelina lanceolata (14%), Cynanchum viminale (3, 14%), Duma florulenta (1, 14%), Einadia nutans subsp. linifolia (14%), Einadia nutans subsp. nutans (14%), Enchylaena tomentosa var. tomentosa (14%), Geijera parviflora (14%), Goodenia indet. (14%), Heliotropium indicum\* (14%), Heliotropium ovalifolium (14%), Jasminum didymum subsp. racemosum (14%), Lysiphyllum carronii (14%), Malvaceae indet. (14%), Melhania oblongifolia (14%), Oxalis indet. (14%), Parsonsia indet. (14%), Pittosporum spinescens (14%), Plectranthus graveolens (14%), Portulaca oleracea\* (14%), Rhagodia spinescens (14%), Rorippa eustylis (14%), Rostellularia adscendens (14%), Sclerolaena muricata var. muricata (14%), Senecio tuberculatus (14%), Sesbania cannabina (14%), Sida indet. (14%), Sida spinosa\* (14%), Solanum stelligerum (14%), Terminalia oblongata subsp. oblongata (14%), Verbena litoralis\* (14%)*

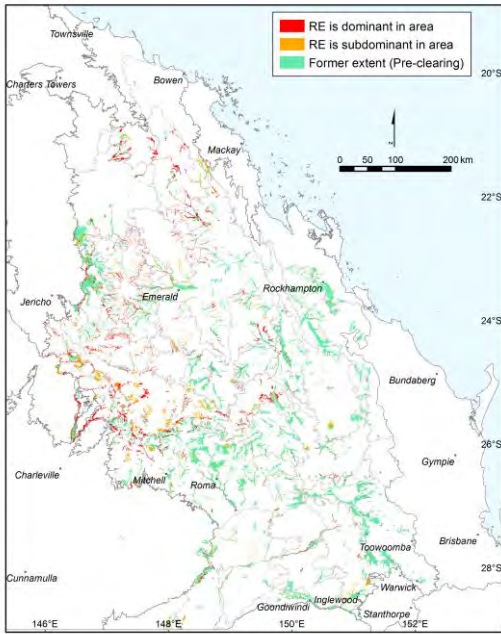
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**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with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

**Eucalyptus populnea woodland on alluvial plains**



Teresa Eyre

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 1,934,590 513,456 27%

Species\_recorded: Total: 345; woody: 54; ground: 315; Avg. spp./site: 34.9; std dev.: 8.7, 22 site(s)

Basal area: Avg./site: 11.6 m<sup>2</sup>/ha, range: 3.5 - 23 m<sup>2</sup>/ha, std. deviation: 5 m<sup>2</sup>/ha, 28 site(s)

Structural formation: Woodland: 68%; open-forest: 18%; open-woodland: 14%, 28 site(s)

Representative\_sites 14236, 14631, 16561, 16567, 16602, 16609, 16613, 16743, 16765, 16776, 16841, 16882, 16884, 16887, 16941, 17278, 17399, 17517, 17545, 17575, 17607, 17636, 17678, 19027, 19148, 19197, 42266, 58155.

**Stratum: Tree 1**

Height avg. = 17.4m, range 11-26m, 28 sites

Crown cover avg. = 33.4%, range 8.0-72.0%, 28 sites

Dominant species (relative cover, frequency): *Eucalyptus populnea* (96, 100%)

Frequent species (cover, frequency): *Eucalyptus populnea* (32, 100%), *Eucalyptus camaldulensis* (5, 7%), *Eucalyptus crebra* (1, 7%), *Acacia harpophylla* (4%), *Amyema indet.* (4%), *Amyema pendula subsp. longifolia* (4%), *Brachychiton populneus* (4%), *Casuarina cristata* (5, 4%), *Corymbia clarksoniana* (2, 4%), *Cymbidium canaliculatum* (4%), *Eremophila mitchellii* (4%), *Eucalyptus melanophloia* (15, 4%), *Eucalyptus tereticornis* (4, 4%)

**Stratum: Tree 2**

Height avg. = 9.9m, range 5-16m, 17 sites

Crown cover avg. = 5.6%, range 0.0-15.0%, 17 sites

Dominant species (relative cover, frequency): *Eucalyptus populnea* (79, 54%)

Frequent species (cover, frequency): *Eucalyptus populnea* (5, 54%), *Eremophila mitchellii* (2, 14%), *Geijera parviflora* (2, 7%), *Acacia conferta* (2, 4%), *Acacia excelsa* (4%), *Acacia harpophylla* (4, 4%), *Casuarina cristata* (2, 4%), *Eucalyptus tereticornis* (2, 4%), *Grevillea striata* (2, 4%), *Lysiphylum carronii* (4%), *Opuntia tomentosa\** (1, 4%), *Ventilago viminalis* (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. = 3.5m, range 2.5-5m, 5 sites

Crown cover avg. = 4.8%, range 1.0-15.0%, 6 sites

*Frequent species (cover, frequency): Eucalyptus populnea (1, 14%), Eremophila mitchellii (3, 7%), Acacia fasciculifera (1, 4%), Acacia salicina (4, 4%), Atalaya hemiglauca (1, 4%), Callitris glaucophylla (1, 4%), Cassia brewsteri (1, 4%), Casuarina cristata (3, 4%), Citrus glauca (1, 4%), Geijera parviflora (6, 4%), Grevillea striata (4, 4%), Psydrax oleifolia (4%), Vachellia farnesiana\* (2, 4%)*

**Stratum: Shrub 1**

Height avg. = 2.6m, range 0.5-6m, 21 sites

Crown cover avg. = 5.6%, range 0.0-30.0%, 21 sites

*Dominant species (relative cover, frequency): Eremophila mitchellii (58, 46%), Eucalyptus populnea (36, 25%)*

*Frequent species (cover, frequency): Eremophila mitchellii (6, 46%), Eucalyptus populnea (1, 25%), Geijera parviflora (2, 18%), Acacia salicina (1, 14%), Atalaya hemiglauca (1, 14%), Eremophila deserti (14%), Erythroxylum australe (11%), Acacia crassa (7%), Acacia excelsa (2, 7%), Alectryon diversifolius (7%), Alectryon oleifolius (7%), Capparis lasiantha (7%), Dodonaea viscosa (3, 7%), Grevillea striata (1, 7%), Psydrax oleifolia (7%), Acacia conferta (2, 4%), Acacia decora (1, 4%), Acacia harpophylla (2, 4%), Acacia oswaldii (3, 4%), Corymbia clarksoniana (4%), Eremophila glabra subsp. glabra (4%), Ficus opposita (4%), Grewia retusifolia (4%), Hakea chordophylla (4%), Indigofera indet. (4%), Lysiphillum carronii (4%), Opuntia indet. (4%), Opuntia stricta\* (4%), Opuntia tomentosa\* (1, 4%), Owenia acidula (4%), Owenia venosa (1, 4%), Pimelea neoanglica (4%), Salsola australis (4%), Sida hackettiana (1, 4%), Tephrosia indet. (4%), Terminalia oblongata subsp. oblongata (4%), Ventilago viminalis (4%), Zieria smithii (4%)*

**Stratum: Shrub 2**

Height avg. = 1.4m, range 0.8-2.2m, 4 sites

Crown cover avg. = 15.3%, range 0.0-60.0%, 4 sites

*Frequent species (cover, frequency): Eremophila mitchellii (5, 11%), Alectryon diversifolius (4%), Citrus glauca (4%), Dodonaea viscosa (4%), Maireana microphylla (4%), Psydrax oleifolia (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. = 0.4m, range 0.05-1m, 22 sites

PFC avg. = 46.1%, range 10-90%, 22 sites

*Dominant species (relative cover, frequency):* *Chloris ventricosa* (23, 23%), *Aristida calycina* var. *calycina* (23, 23%), *Chloris divaricata* (19, 23%), *Cenchrus ciliaris*\* (18, 55%), *Dichanthium sericeum* (18, 23%)

*Frequent species (cover, frequency): GRAMINOIDS:* *Cyperus gracilis* (3, 64%), *Cenchrus ciliaris*\* (9, 55%), *Chrysopogon fallax* (1, 50%), *Cymbopogon refractus* (1, 45%), *Enteropogon acicularis* (1, 41%), *Heteropogon contortus* (9, 41%), *Bothriochloa decipiens* (4, 32%), *Panicum effusum* (1, 32%), *Themeda triandra* (4, 32%), *Eragrostis lacunaria* (1, 27%), *Sporobolus caroli* (1, 27%), *Aristida calycina* var. *calycina* (4, 23%), *Aristida personata* (2, 23%), *Chloris divaricata* (9, 23%), *Chloris ventricosa* (11, 23%), *Dichanthium sericeum* (10, 23%), *Enneapogon intermedius* (1, 23%), *Eragrostis sororia* (23%), *Melinis repens*\* (23%), *Sporobolus creber* (23%), *Bothriochloa decipiens* var. *decipiens* (3, 18%), *Chloris truncata* (5, 18%), *Enteropogon ramosus* (8, 18%), *Eriochloa pseudoacrotricha* (1, 18%), *Paspalidium caespitosum* (5, 18%), *Tragus australianus* (1, 18%), *Aristida calycina* (2, 14%), *Aristida* indet. (4, 14%), *Aristida ramosa* (9, 14%), *Austrostipa verticillata* (14%), *Digitaria hystrioides* (1, 14%), *Eremochloa bimaculata* (2, 14%), *Eulalia aurea* (14%), *Fimbristylis dichotoma* (14%), *Panicum decompositum* (1, 14%), *Panicum simile* (14%), *Paspalidium gracile* (14%), *Urochloa foliosa* (2, 14%), *Bothriochloa bladhii* (1, 9%), *Bothriochloa bladhii* subsp. *bladhii* (1, 9%), *Cyperus fulvus* (9%), *Dichanthium sericeum* subsp. *sericeum* (1, 9%), *Digitaria brownii* (1, 9%), *Dinebra decipiens* (1, 9%), *Enneapogon gracilis* (9%), *Enneapogon* indet. (2, 9%), *Enneapogon lindleyanus* (3, 9%), *Enneapogon polyphyllus* (1, 9%), *Enneapogon virens* (9%), *Eragrostis brownii* (9%), *Eragrostis cilianensis*\* (9%), *Eragrostis elongata* (1, 9%), *Eragrostis leptostachya* (16, 9%), *Eriochloa crebra* (9%), *Leptochloa digitata* (9%), *Megathyrus maximus*\* (9%), *Sporobolus elongatus* (1, 9%)

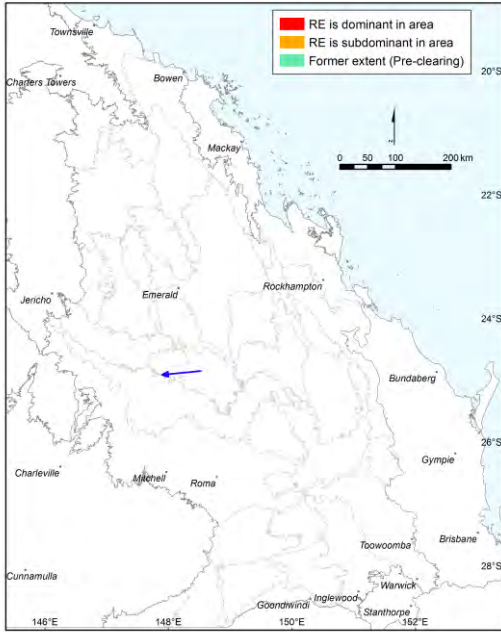
*FORBS:* *Eremophila debilis* (64%), *Sida hackettiana* (2, 55%), *Brunoniella australis* (41%), *Opuntia stricta*\* (41%), *Euphorbia drummondii* (36%), *Evolvulus alsinoides* (36%), *Boerhavia dominii* (32%), *Cyanthillium cinereum* (32%), *Malvastrum americanum* var. *americanum*\* (1, 32%), *Phyllanthus virgatus* (27%), *Achyranthes aspera* (1, 23%), *Neptunia gracilis* (23%), *Rhynchosia minima* (23%), *Sida rhombifolia*\* (1, 23%), *Alternanthera nana* (18%), *Carissa ovata* (1, 18%), *Einadia nutans* subsp. *linifolia* (5, 18%), *Euphorbia dallachyana* (18%), *Gomphrena celosioides*\* (18%), *Maireana microphylla* (18%), *Nyssanthus erecta* (18%), *Parthenium hysterophorus*\* (3, 18%), *Portulaca oleracea*\* (18%), *Pseuderanthemum variabile* (18%), *Salsola australis* (18%), *Sclerolaena birchii* (1, 18%), *Vittadinia sulcata* (18%), *Abutilon oxycarpum* (14%), *Brennia oblongifolia* (14%), *Capparis lasiantha* (1, 14%), *Chrysocephalum apiculatum* (14%), *Desmodium varians* (14%), *Einadia hastata* (1, 14%), *Enchylaena tomentosa* (14%), *Glandularia aristigera*\* (1, 14%), *Glycine tabacina* (14%), *Hibiscus sturtii* (14%), *Jasminum didymum* (14%), *Melhantha oblongifolia* (14%), *Murdannia graminea* (14%), *Nyssanthus diffusa* (1, 14%), *Opuntia tomentosa*\* (14%), *Peripleura hispidula* (1, 14%), *Pterocaulon redolens* (14%), *Sida* indet. (14%), *Stackhousia muricata* (14%), *Vittadinia pustulata* (14%), *Wahlenbergia gracilis* (14%), *Bidens pilosa*\* (9%), *Calotis cuneata* (2, 9%), *Calotis lappulacea* (9%), *Clematicissus opaca* (9%), *Desmodium rhytidophyllum* (9%), *Erigeron bonariensis*\* (9%), *Galactia tenuiflora* (9%), *Glossocardia bidens* (9%), *Grewia latifolia* (9%), *Indigofera* indet. (1, 9%), *Lepidium africanum*\* (9%), *Marsdenia viridiflora* (9%), *Parsonia lanceolata* (9%), *Portulaca pilosa*\* (9%), *Psydrax oleifolia* (9%), *Rhagodia spinescens* (9%), *Rostellularia adscendens* (9%), *Sclerolaena muricata* (9%), *Sida cordifolia*\* (9%), *Sida pleiantha* (9%), *Sida rohlenae* (9%), *Sida* sp. (Musselbrook M.B.Thomas+ MRS437) (9%), *Sida spinosa*\* (9%), *Sida trichopoda* (9%), *Sonchus oleraceus*\* (9%), *Tribulus terrestris* (9%), *Tricoryne elatior* (9%), *Verbena* indet. (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 conica woodland**



**Pre-clearing area (ha), remnant area (ha) and per cent remaining:** 1,060 641 60%

**Species recorded:** Total: 34; woody: 11; ground: 23; Avg. spp./site: 17.5; std dev.: 2.5, 2 site(s)

**Basal area:** Avg./site: 14.5 m<sup>2</sup>/ha, range: 14.0 - 15 m<sup>2</sup>/ha, std. deviation: 1 m<sup>2</sup>/ha, 2 site(s)

**Structural formation:** Woodland: 100%, 2 site(s)

**Representative sites** 16946, 17541.

**Stratum: Tree 1**

**Height avg. = 18.0m, range 15-21m, 2 sites**  
**Crown cover avg. = 36.5%, range 35.0-38.0%, 2 sites**

*Dominant species (relative cover, frequency): Eucalyptus conica (57, 100%), Eucalyptus chloroclada (24, 50%), Angophora floribunda (18, 50%), Eucalyptus populnea (13, 50%), Angophora leiocarpa (13, 50%)*

*Frequent species (cover, frequency): Eucalyptus conica (21, 100%), Allocasuarina luehmannii (50%), Angophora floribunda (7, 50%), Angophora leiocarpa (5, 50%), Callitris glaucophylla (2, 50%), Eucalyptus chloroclada (9, 50%), Eucalyptus melanophloia (4, 50%), Eucalyptus populnea (5, 50%)*

**Stratum: Tree 2**

**Height avg. = 12.0m, 1 site**  
**Crown cover avg. = 30.0%, 1 site**

*Dominant species (relative cover, frequency): Callitris glaucophylla (67, 50%), Eucalyptus chloroclada (23, 50%), Eucalyptus conica (10, 50%)*

*Frequent species (cover, frequency): Callitris glaucophylla (20, 50%), Eucalyptus chloroclada (7, 50%), Eucalyptus conica (3, 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 3**

Height avg. = 8.0m, 1 site

Crown cover avg. = 10.0%, 1 site

Dominant species (relative cover, frequency): *Acacia jucunda* (60, 50%), *Callitris glaucophylla* (40, 50%)

Frequent species (cover, frequency): *Acacia jucunda* (6, 50%), *Callitris glaucophylla* (4, 50%)

**Stratum: Shrub 1**

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

Crown cover avg. = 5.0%, range 2.0-8.0%, 2 sites

Dominant species (relative cover, frequency): *Callitris glaucophylla* (63, 50%), *Eucalyptus melanophloia* (50, 50%), *Eucalyptus conica* (50, 50%), *Styphelia viridis* (13, 50%), *Acacia jucunda* (13, 50%)

Frequent species (cover, frequency): *Acacia deanei* (1, 50%), *Acacia jucunda* (1, 50%), *Callitris glaucophylla* (5, 50%), *Eucalyptus conica* (1, 50%), *Eucalyptus melanophloia* (1, 50%), *Styphelia viridis* (1, 50%)

**Stratum: Ground**

Height avg. = 0.4m, range 0.2-0.5m, 2 sites

PFC avg. = 57.5%, range 55-60%, 2 sites

Dominant species (relative cover, frequency): *Dichanthium sericeum* (82, 50%), *Cymbopogon refractus* (63, 50%), *Chloris divaricata* (18, 50%), *Eragrostis brownii* (9, 50%), *Aristida personata* (8, 50%)

Frequent species (cover, frequency): GRAMINOIDS: *Ancistrachne uncinulata* (1, 50%), *Aristida indet.* (1, 50%), *Aristida personata* (5, 50%), *Aristida ramosa* (50%), *Chloris divaricata* (10, 50%), *Cymbopogon refractus* (35, 50%), *Dichanthium sericeum* (49, 50%), *Eragrostis brownii* (5, 50%), *Gahnia aspera* (1, 50%)

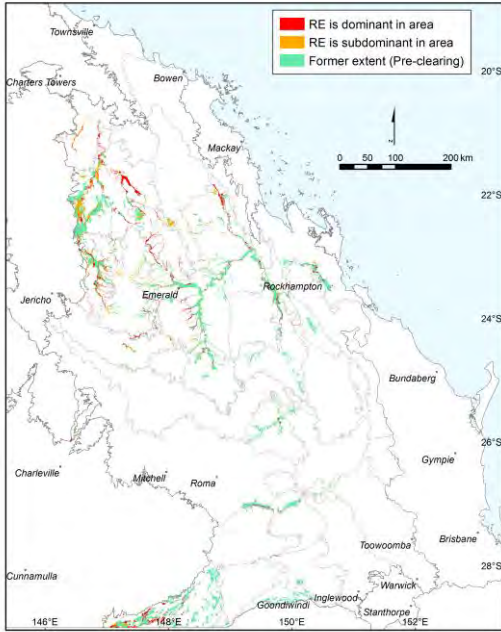
FORBS: *Ajuga australis* (1, 50%), *Brunoniella australis* (50%), *Calotis lappulacea* (50%), *Cheilanthes sieberi* (1, 50%), *Chrysocephalum apiculatum* (2, 50%), *Desmodium varians* (1, 50%), *Dipteracanthus australasicus* (50%), *Euphorbia drummondii* (1, 50%), *Glycine tabacina* (1, 50%), *Jasminum didymum* (1, 50%), *Oxalis indet.* (1, 50%), *Sida corrugata* (50%), *Sida hackettiana* (1, 50%), *Viola indet.* (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

**Eucalyptus coolabah woodland on alluvial plains**



John Neldner

**Pre-clearing area (ha), remnant area (ha) and per cent remaining:** 894,392 257,697 29%

**Species recorded:** Total: 341; woody: 68; ground: 299; Avg. spp./site: 28.4; std dev.: 9.7, 21 site(s)

**Basal area:** Avg./site: 13.8 m<sup>2</sup>/ha, range: 2.5 - 50 m<sup>2</sup>/ha, std. deviation: 9 m<sup>2</sup>/ha, 33 site(s)

**Structural formation:** Woodland: 53%; open-woodland: 26%; open-forest: 18%; unrecorded: 3%, 34 site(s)

**Representative sites** 2360, 16569, 16625, 16674, 16678, 16679, 16779, 16823, 16842, 16860, 16968, 17055, 17112, 17142, 17143, 17287, 17294, 17305, 17368, 17446, 17503, 17557, 17569, 17608, 17629, 17647, 17683, 19024, 19151, 19243, 28783, 28868, 28880, 36830.

**Stratum: Tree 1**

**Height avg. = 18.0m, range 10-26m, 34 sites**  
**Crown cover avg. = 33.1%, range 3.0-74.0%, 34 sites**

*Dominant species (relative cover, frequency): Eucalyptus coolabah (94, 100%)*

*Frequent species (cover, frequency): Eucalyptus coolabah (31, 100%), Acacia harpophylla (3, 12%), Eucalyptus tereticornis (2, 12%), Eucalyptus populnea (5, 9%), Casuarina cristata (1, 6%), Corymbia tessellaris (1, 6%), Eucalyptus camaldulensis (3, 6%), Acacia cambagei (3%), Amyema congener (3%), Amyema quandang (3%), Eucalyptus melanophloia (1, 3%), Owenia acidula (3%), Terminalia oblongata subsp. oblongata (2, 3%)*

**Stratum: Tree 2**

**Height avg. = 9.0m, range 3.5-16m, 22 sites**  
**Crown cover avg. = 8.4%, range 0.0-25.0%, 22 sites**

*Dominant species (relative cover, frequency): Eucalyptus coolabah (75, 32%)*

*Frequent species (cover, frequency): Eucalyptus coolabah (6, 32%), Acacia salicina (3, 18%), Terminalia oblongata subsp. oblongata (3, 15%), Eremophila mitchellii (5, 9%), Alectryon oleifolius subsp. elongatus (2, 6%), Cymbidium canaliculatum (6%), Geijera parviflora (6, 6%), Melaleuca bracteata (3, 6%), Acacia cambagei (10, 3%), Acacia harpophylla (10, 3%), Acacia pendula (10, 3%), Alectryon oleifolius (2, 3%), Apophyllum anomalum (3%), Casuarina cristata (5, 3%), Casuarina cunninghamiana (5, 3%), Dodonaea viscosa (2, 3%), Eucalyptus tereticornis (3, 3%), Exocarpos aphyllus (3%), Lysiphyllum hookeri (10, 3%), Myoporum acuminatum (1, 3%), Psydrax oleifolia (1, 3%), Ventilago viminalis (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 3**

Height avg. = 4.5m, range 3-7m, 4 sites

Crown cover avg. = 3.5%, range 2.0-6.0%, 4 sites

*Frequent species (cover, frequency): Eucalyptus coolabah (2, 9%), Acacia salicina (3, 6%), Acacia pendula (2, 3%), Alectryon oleifolius subsp. elongatus (3%), Cassia brewsteri (1, 3%), Casuarina cristata (1, 3%)*

**Stratum: Shrub 1**

Height avg. = 2.5m, range 0.4-6m, 24 sites

Crown cover avg. = 7.5%, range 0.0-90.8%, 24 sites

*Dominant species (relative cover, frequency): Acacia salicina (41, 38%), Eucalyptus coolabah (25, 29%)*

*Frequent species (cover, frequency): Acacia salicina (1, 38%), Eucalyptus coolabah (29%), Lysiphillum carronii (15%), Vachellia farnesiana\* (15%), Acacia oswaldii (12%), Atalaya hemiglauc (12%), Cassia brewsteri (1, 9%), Geijera parviflora (3, 9%), Senna barclayana (9%), Casuarina cristata (12, 6%), Eremophila mitchellii (1, 6%), Lysiphillum hookeri (6%), Melaleuca bracteata (3, 6%), Myoporum acuminatum (2, 6%), Opuntia stricta\* (6%), Psydrax oleifolia (6%), Santalum lanceolatum (3, 6%), Terminalia oblongata subsp. oblongata (6%), Acacia excelsa (3%), Acacia harpophylla (1, 3%), Acacia pendula (1, 3%), Acacia stenophylla (3, 3%), Alectryon diversifolius (3%), Alectryon oleifolius (3%), Alectryon oleifolius subsp. elongatus (3%), Avicennia marina (84, 3%), Bidens pilosa\* (1, 3%), Bursaria spinosa subsp. spinosa (3%), Capparis lasiantha (1, 3%), Citrus glauca (1, 3%), Clematicissus opaca (1, 3%), Denhamia indet. (3%), Diospyros humilis (1, 3%), Dodonaea lanceolata (5, 3%), Duma florulenta (3%), Ehretia membranifolia (1, 3%), Eremophila bignoniiflora (2, 3%), Eremophila deserti (2, 3%), Eucalyptus tereticornis (3%), Excoecaria agallocha (16, 3%), Ficus opposita (3%), Grewia latifolia (2, 3%), Malvastrum americanum var. americanum\* (2, 3%), Notelaea microcarpa (1, 3%), Opuntia tomentosa\* (3%), Parkinsonia aculeata\* (3%), Parthenium hysterophorus\* (1, 3%), Pittosporum angustifolium (1, 3%), Psydrax forsteri (2, 3%), Psydrax johnsonii (2, 3%), Sesbania cannabina (3%), Sesbania cannabina var. cannabina (1, 3%), Ventilago viminalis (3%)*

**Stratum: Shrub 2**

Height avg. = 0.9m, range 0.75-1m, 2 sites

Crown cover avg. = 2.5%, range 0.0-5.0%, 2 sites

*Frequent species (cover, frequency): Capparis lasiantha (1, 3%), Carissa ovata (3, 3%), Enchylaena tomentosa (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: Ground**

Height avg. = 0.5m, range 0.15-1.2m, 19 sites

PFC avg. = 44.8%, range 6-94%, 21 sites

*Dominant species (relative cover, frequency):* *Cenchrus ciliaris*\* (22, 29%), *Paspalidium caespitosum* (18, 29%), *Dinebra decipiens* (9, 24%), *Enteropogon acicularis* (8, 33%), *Cyperus gracilis* (6, 29%)

*Frequent species (cover, frequency): GRAMINOIDS:* *Enteropogon acicularis* (3, 33%), *Heteropogon contortus* (1, 33%), *Cenchrus ciliaris*\* (13, 29%), *Cyperus gracilis* (3, 29%), *Paspalidium caespitosum* (4, 29%), *Dinebra decipiens* (2, 24%), *Leptochloa digitata* (3, 24%), *Panicum decompositum* (2, 24%), *Sporobolus caroli* (24%), *Cyperus exaltatus* (1, 19%), *Enteropogon ramosus* (2, 19%), *Eriochloa pseudoacrotricha* (5, 19%), *Eulalia aurea* (4, 19%), *Paspalidium jubiflorum* (3, 19%), *Bothriochloa bladhii* subsp. *bladhii* (2, 14%), *Chloris ventricosa* (8, 14%), *Dichanthium sericeum* (17, 14%), *Dichanthium sericeum* subsp. *sericeum* (2, 14%), *Eriochloa procera* (14%), *Megathyrsus maximus*\* (2, 14%), *Sporobolus mitchellii* (3, 14%), *Aristida leptopoda* (8, 10%), *Bothriochloa decipiens* (4, 10%), *Bothriochloa ewartiana* (12, 10%), *Chloris divaricata* (2, 10%), *Chrysopogon fallax* (1, 10%), *Cymbopogon refractus* (1, 10%), *Cyperus indet.* (10%), *Cyperus javanicus* (1, 10%), *Digitaria brownii* (9, 10%), *Echinochloa colona*\* (2, 10%), *Eleocharis acuta* (10%), *Eleocharis pallens* (1, 10%), *Eragrostis lacunaria* (10%), *Eriochloa crebra* (4, 10%), *Megathyrsus maximus* var. *pubiglumis*\* (10%), *Melinis repens*\* (1, 10%), *Panicum laevinode* (10%), *Paspalidium distans* (8, 10%), *Paspalidium gracile* (6, 10%), *Paspalidium indet.* (10%), *Sporobolus creber* (10%), *Thellungia advena* (1, 10%), *Themeda avenacea* (1, 10%)

*FORBS:* *Malvastrum americanum* var. *americanum*\* (1, 38%), *Eustrephus latifolius* (33%), *Brunoniella australis* (29%), *Parthenium hysterophorus*\* (3, 29%), *Achyranthes aspera* (24%), *Basilicum polystachyon* (1, 24%), *Duma florulenta* (2, 24%), *Einadia nutans* subsp. *linifolia* (24%), *Eremophila debilis* (24%), *Euphorbia drummondii* (1, 24%), *Rostellularia adscendens* (24%), *Senna barclayana* (24%), *Sida hackettiana* (24%), *Alternanthera nodiflora* (19%), *Bidens pilosa*\* (19%), *Sclerolaena muricata* (19%), *Abutilon oxycarpum* (14%), *Boerhavia dominii* (14%), *Calotis cuneata* (14%), *Capparis lasiantha* (14%), *Euphorbia dallachyana* (14%), *Glycine tabacina* (14%), *Marsilea drummondii* (3, 14%), *Oxalis corniculata*\* (14%), *Oxalis perennans* (14%), *Rhynchosia minima* (14%), *Tetragonia tetragonoides* (14%), *Abutilon fraseri* (10%), *Alectryon diversifolius* (10%), *Alternanthera denticulata* (1, 10%), *Atriplex muelleri* (10%), *Boerhavia indet.* (10%), *Camptacra barbata* (10%), *Citrus glauca* (10%), *Crotalaria indet.* (10%), *Cyanthillium cinereum* (10%), *Cymbidium canaliculatum* (10%), *Eclipta prostrata*\* (10%), *Enchylaena tomentosa* (1, 10%), *Euphorbia indet.* (10%), *Euphorbia psammogeton* (10%), *Glandularia aristigera*\* (10%), *Gomphrena celosioides*\* (10%), *Haloragis aspera* (10%), *Jasminum didymum* (10%), *Jasminum didymum* subsp. *didymum* (10%), *Jasminum didymum* subsp. *racemosum* (10%), *Lepidium africanum*\* (1, 10%), *Lomandra longifolia* (2, 10%), *Maireana microphylla* (10%), *Marsilea hirsuta* (10%), *Melhania oblongifolia* (10%), *Mimosa pudica*\* (10%), *Neptunia gracilis* (10%), *Passiflora foetida*\* (1, 10%), *Phyllanthus maderaspatensis* (10%), *Portulaca oleracea*\* (1, 10%), *Rhagodia spinescens* (3, 10%), *Salsola australis* (10%), *Sclerolaena tetracuspis* (10%), *Scoparia dulcis*\* (10%), *Sida indet.* (10%), *Sida spinosa*\* (10%), *Sida trichopoda* (10%), *Verbena indet.* (10%), *Verbena litoralis*\* (10%), *Wahlenbergia gracilis* (10%), *Zaleya galericulata* subsp. *galericulata* (10%)

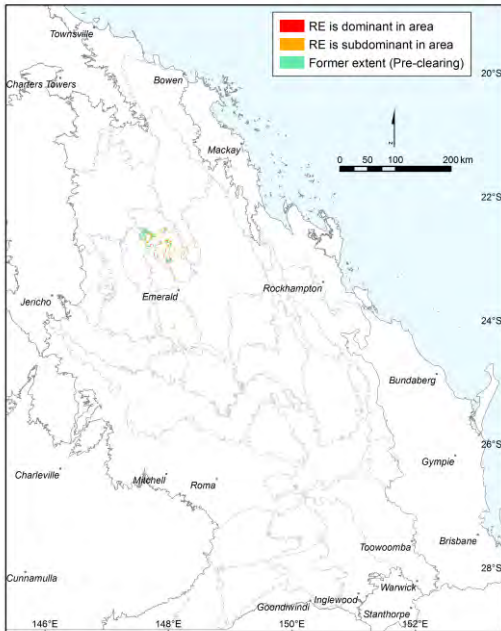
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**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with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

Melaleuca bracteata woodland on alluvial plains



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 17,655 11,043 63%

Species\_recorded: Total: 67; woody: 6; ground: 63; Avg. spp./site: 36.5; std dev.: 6.5, 2 site(s)

Basal area: Avg./site: 16.5 m<sup>2</sup>/ha, range: 16.0 - 17 m<sup>2</sup>/ha, std. deviation: 1 m<sup>2</sup>/ha, 2 site(s)

Structural formation: Open-woodland: 50%; low woodland: 50%, 2 site(s)

Representative\_sites 16966, 19032.

Stratum: Tree 1

Height avg. = 13.5m, range 9-18m, 2 sites

Crown cover avg. = 27.5%, range 15.0-40.0%, 2 sites

Dominant species (relative cover, frequency): *Melaleuca bracteata* (96, 100%), *Acacia salicina* (8, 50%)

Frequent species (cover, frequency): *Melaleuca bracteata* (26, 100%), *Acacia salicina* (3, 50%), *Corymbia tessellaris* (50%)

Stratum: Tree 2

Height avg. = 12.0m, 1 site

Crown cover avg. = 80.0%, 1 site

Dominant species (relative cover, frequency): *Melaleuca bracteata* (100, 50%)

Frequent species (cover, frequency): *Melaleuca bracteata* (80, 50%)

Stratum: Tree 3

Height avg. = 3.5m, 1 site

Crown cover avg. = 1.0%, 1 site

Dominant species (relative cover, frequency): *Melaleuca bracteata* (42, 50%), *Geijera parviflora* (42, 50%), *Ficus opposita* (8, 50%), *Erythroxylum australe* (8, 50%)

Frequent species (cover, frequency): *Erythroxylum australe* (50%), *Ficus opposita* (50%), *Geijera parviflora* (1, 50%), *Melaleuca bracteata* (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. = 1.5m, 1 site

Crown cover avg. = 20.0%, 1 site

Dominant species (relative cover, frequency): *Melaleuca bracteata* (95, 50%), *Acacia salicina* (5, 50%)

Frequent species (cover, frequency): *Acacia salicina* (1, 50%), *Melaleuca bracteata* (19, 50%)

**Stratum: Ground**

Height avg. = 0.7m, range 0.5-0.9m, 2 sites

PFC avg. = 60.0%, range 30-90%, 2 sites

Dominant species (relative cover, frequency): *Eriochloa pseudoacrotricha* (85, 50%), *Dichanthium sericeum* (62, 50%), *Panicum decompositum* var. *decompositum* (12, 50%), *Heteropogon contortus* (7, 100%), *Oxalis perennans* (4, 50%)

Frequent species (cover, frequency): GRAMINOIDS: *Heteropogon contortus* (5, 100%), *Melinis repens*\* (1, 100%), *Aristida latifolia* (50%), *Aristida leptopoda* (50%), *Bothriochloa bladhii* subsp. *bladhii* (1, 50%), *Bothriochloa erianthoides* (50%), *Chloris ventricosa* (50%), *Cyperus gracilis* (50%), *Dichanthium fecundum* (50%), *Dichanthium sericeum* (56, 50%), *Dichanthium sericeum* subsp. *sericeum* (50%), *Dinebra decipiens* (50%), *Enneapogon truncatus* (50%), *Eriochloa crebra* (50%), *Eriochloa pseudoacrotricha* (20, 50%), *Iseilema macratherum* (50%), *Panicum decompositum* (50%), *Panicum decompositum* var. *decompositum* (11, 50%), *Paspalidium globoideum* (50%), *Sarga leiocladum* (50%), *Sporobolus elongatus* (1, 50%), *Sporobolus indet.* (50%), *Themeda triandra* (50%)

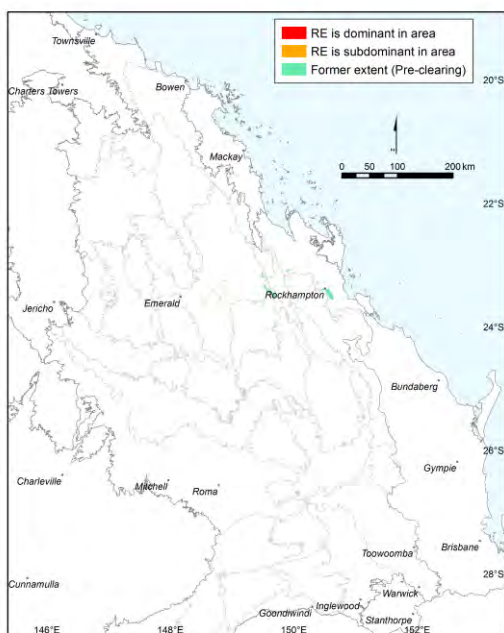
FORBS: *Rhynchosia minima* (100%), *Abutilon oxycarpum* (50%), *Acacia salicina* (50%), *Achyranthes aspera* (50%), *Ajuga australis* (1, 50%), *Alectryon oleifolius* subsp. *elongatus* (50%), *Bidens pilosa*\* (50%), *Brunoniella australis* (50%), *Capsicum annuum* var. *glabriusculum*\* (50%), *Convolvulus arvensis*\* (50%), *Crotalaria juncea*\* (50%), *Cullen tenax* (50%), *Cyanthillium cinereum* (50%), *Denhamia oleaster* (50%), *Eremophila debilis* (50%), *Erigeron bonariensis*\* (50%), *Euphorbia drummondii* (50%), *Eustrephus latifolius* (50%), *Geijera parviflora* (50%), *Haloragis aspera* (50%), *Indigofera linifolia* (50%), *Indigofera linnaei* (50%), *Ipomoea plebeia* (50%), *Lotus australis* (50%), *Malvastrum americanum* var. *americanum*\* (3, 50%), *Neptunia gracilis* (50%), *Opuntia stricta*\* (50%), *Oxalis perennans* (4, 50%), *Parsonsia indet.* (50%), *Parsonsia lanceolata* (50%), *Parthenium hysterophorus*\* (50%), *Polymeria indet.* (50%), *Sida atherophora* (50%), *Sida cordifolia*\* (50%), *Sida fibulifera* (1, 50%), *Sida rohlenae* (50%), *Sonchus oleraceus*\* (50%), *Vachellia farnesiana*\* (50%), *Verbena africana* (50%), *Vigna radiata* var. *sublobata* (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 coolabah woodland to open woodland with a sedge or grass understorey in back swamps and old channels**



**Pre-clearing area (ha), remnant area (ha) and per cent remaining: 4,794 844 18%**

**Species\_recorded: Total: 12; woody: 0; ground: 12; Avg. spp./site: 12.0; std dev.: 0.0, 1 site(s)**

**Basal area: 0**

**Structural formation: Forbland: 100%, 1 site(s)**

**Representative\_sites 36832.**

**Stratum: Ground**

**Height avg. = 0.4m, 1 site**

**PFC avg. = 77.0%, 1 site**

*Dominant species (relative cover, frequency): Marsilea mutica (29, 100%), Nymphaea gigantea (19, 100%), Najas indet. (14, 100%), Eleocharis dulcis (10, 100%), Aponogeton queenslandicus (9, 100%)*

*Frequent species (cover, frequency): GRAMINOIDS: Cynodon dactylon\* (1, 100%), Cyperus difformis (2, 100%), Eleocharis dulcis (8, 100%)*

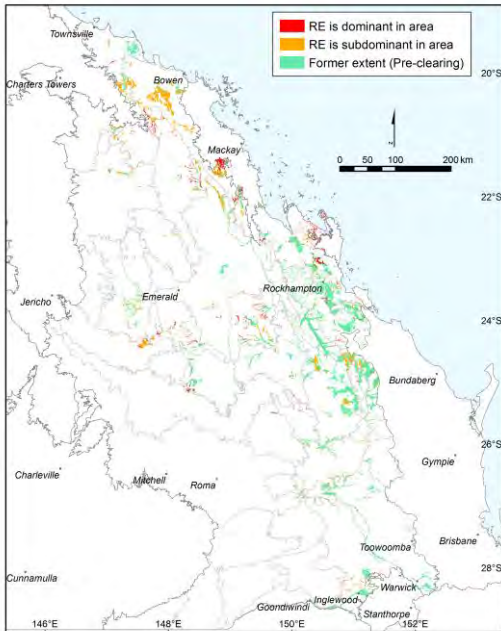
*FORBS: Aponogeton queenslandicus (7, 100%), Azolla pinnata (4, 100%), Ceratophyllum demersum (2, 100%), Eclipta prostrata\* (2, 100%), Ludwigia peploides subsp. montevidensis (1, 100%), Marsilea mutica (22, 100%), Najas indet. (11, 100%), Nymphaea gigantea (15, 100%), Ottelia ovalifolia subsp. ovalifolia (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 tereticornis and/or Eucalyptus spp. woodland on alluvial plains**



Annie Kelly

**Pre-clearing area (ha), remnant area (ha) and per cent remaining:** 685,082 180,879 26%

**Species\_recorded:** Total: 271; woody: 39; ground: 239; Avg. spp./site: 36.1; std dev.: 11.0, 14 site(s)

**Basal area:** Avg./site: 15.9 m<sup>2</sup>/ha, range: 10.0 - 25 m<sup>2</sup>/ha, std. deviation: 5 m<sup>2</sup>/ha, 14 site(s)

**Structural formation:** Woodland: 43%; open-woodland: 29%; tall woodland: 14%; open-forest: 14%, 14 site(s)

**Representative\_sites** 14015, 14107, 14223, 14235, 16565, 16587, 16588, 16601, 17144, 17372, 17592, 17677, 19012, 28797.

**Stratum: Emergent**

**Height avg. = 28.7m, range 26-32m, 3 sites**  
**Crown cover avg. = 8.0%, range 2.0-11.0%, 3 sites**

*Dominant species (relative cover, frequency): Eucalyptus tereticornis (76, 21%)*  
*Frequent species (cover, frequency): Eucalyptus tereticornis (5, 21%), Corymbia tessellaris (8, 7%), Cymbidium canaliculatum (7%)*

**Stratum: Tree 1**

**Height avg. = 23.4m, range 14-36m, 14 sites**  
**Crown cover avg. = 27.8%, range 15.0-55.0%, 14 sites**

*Dominant species (relative cover, frequency): Eucalyptus tereticornis (57, 93%), Corymbia tessellaris (29, 36%), Angophora subvelutina (26, 21%), Corymbia clarksoniana (10, 21%), Lophostemon suaveolens (5, 21%)*  
*Frequent species (cover, frequency): Eucalyptus tereticornis (15, 93%), Corymbia tessellaris (5, 36%), Angophora subvelutina (15, 21%), Corymbia clarksoniana (2, 21%), Lophostemon suaveolens (2, 21%), Angophora floribunda (10, 14%), Eucalyptus melanophloia (3, 14%), Eucalyptus populnea (12, 14%), Alstonia constricta (7%), Corymbia citriodora (3, 7%), Corymbia intermedia (22, 7%), Eucalyptus camaldulensis (24, 7%), Eucalyptus longirostrata (22, 7%), Planchonella cotinifolia (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. = 15.1m, range 6-25m, 7 sites

Crown cover avg. = 7.3%, range 3.0-10.0%, 8 sites

*Dominant species (relative cover, frequency): Corymbia tessellaris (50, 21%), Eucalyptus tereticornis (44, 36%), Angophora subvelutina (42, 21%), Lophostemon suaveolens (26, 21%)*

*Frequent species (cover, frequency): Eucalyptus tereticornis (4, 36%), Angophora subvelutina (3, 21%), Corymbia tessellaris (3, 21%), Lophostemon suaveolens (4, 21%), Eucalyptus melanophloia (2, 14%), Acacia salicina (1, 7%), Corymbia citriodora (2, 7%), Corymbia intermedia (2, 7%), Erythrina vespertilio (7%), Eucalyptus longirostrata (3, 7%), Eucalyptus populnea (2, 7%)*

**Stratum: Tree 3**

Height avg. = 4.3m, range 2-6m, 3 sites

Crown cover avg. = 2.0%, range 0.0-6.0%, 3 sites

*Dominant species (relative cover, frequency): Eucalyptus tereticornis (36, 21%)*

*Frequent species (cover, frequency): Eucalyptus tereticornis (21%), Acacia glaucocarpa (6, 7%), Acacia salicina (7%), Eucalyptus melanophloia (1, 7%)*

**Stratum: Shrub 1**

Height avg. = 1.9m, range 1-3m, 6 sites

Crown cover avg. = 4.3%, range 1.0-12.0%, 9 sites

*Dominant species (relative cover, frequency): Eucalyptus tereticornis (70, 21%), Acacia glaucocarpa (40, 21%)*

*Frequent species (cover, frequency): Acacia glaucocarpa (1, 21%), Eucalyptus tereticornis (1, 21%), Acacia disparrima subsp. disparrima (2, 14%), Alphitonia excelsa (14%), Acacia crassa subsp. longicoma (3, 7%), Acacia falcata (7%), Acacia leiocalyx subsp. leiocalyx (7%), Acacia maidenii (1, 7%), Angophora floribunda (1, 7%), Breynia oblongifolia (7%), Bursaria spinosa subsp. spinosa (7%), Capparis lasiantha (1, 7%), Carissa ovata (1, 7%), Cassia brewsteri (7%), Citrus glauca (7%), Denhamia cunninghamii (7%), Eucalyptus populnea (7%), Eustrephus latifolius (7%), Grewia latifolia (7%), Hibiscus divaricatus (7%), Lantana camara\* (7, 7%), Lophostemon suaveolens (7%), Mallotus philippensis (7%), Pittosporum angustifolium (7%), Senna occidentalis\* (7%), Sida hackettiana (9, 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 0.2-0.8m, 14 sites

PFC avg. = 61.6%, range 15-96%, 14 sites

Dominant species (relative cover, frequency): *Arundinella nepalensis* (26, 50%), *Melinis repens*\* (25, 29%), *Heteropogon contortus* (20, 71%), *Bothriochloa bladhii* subsp. *bladhii* (20, 29%), *Dinebra decipiens* (13, 21%)

Frequent species (cover, frequency): GRAMINOIDS: *Heteropogon contortus* (13, 71%), *Cyperus gracilis* (1, 64%), *Arundinella nepalensis* (19, 50%), *Cyperus fulvus* (1, 43%), *Themeda triandra* (3, 43%), *Dichanthium sericeum* (10, 36%), *Bothriochloa bladhii* subsp. *bladhii* (15, 29%), *Capillipedium spicigerum* (29%), *Chloris divaricata* (1, 29%), *Cymbopogon refractus* (6, 29%), *Dichanthium sericeum* subsp. *sericeum* (3, 29%), *Melinis repens*\* (15, 29%), *Panicum simile* (29%), *Sporobolus creber* (1, 29%), *Dinebra decipiens* (9, 21%), *Eragrostis leptostachya* (1, 21%), *Eragrostis sororia* (21%), *Fimbristylis dichotoma* (21%), *Imperata cylindrica* (1, 21%), *Panicum effusum* (1, 21%), *Scleria brownii* (1, 21%), *Aristida calycina* (5, 14%), *Aristida queenslandica* var. *queenslandica* (20, 14%), *Aristida ramosa* (3, 14%), *Bothriochloa decipiens* (8, 14%), *Bothriochloa ewartiana* (13, 14%), *Cenchrus ciliaris*\* (1, 14%), *Cynodon dactylon*\* (1, 14%), *Digitaria didactyla*\* (1, 14%), *Eragrostis elongata* (14%), *Eragrostis lacunaria* (1, 14%), *Paspalidium distans* (14%), *Paspalidium indet.* (10, 14%), *Sorghum nitidum* (2, 14%), *Sporobolus elongatus* (14%), *Alloteropsis semialata* (7%), *Aristida benthamii* var. *benthamii* (2, 7%), *Aristida calycina* var. *praealta* (7%), *Aristida indet.* (2, 7%), *Aristida jerichoensis* var. *subspinulifera* (7%), *Aristida personata* (7%), *Aristida queenslandica* (7%), *Aristida vagans* (1, 7%), *Austrostipa verticillata* (1, 7%), *Bothriochloa bladhii* (4, 7%), *Bothriochloa decipiens* var. *cloncurrrensensis* (25, 7%), *Bothriochloa decipiens* var. *decipiens* (7, 7%), *Capillipedium parviflorum* (2, 7%), *Chloris inflata*\* (7%), *Chloris truncata* (7%), *Chrysopogon fallax* (7%), *Chrysopogon filipes* (7%), *Cynodon dactylon* var. *dactylon*\* (5, 7%), *Cyperus aggregatus*\* (7%), *Cyperus bifax* (7%), *Cyperus indet.* (7%), *Dichanthium sericeum* subsp. *humilius* (7%), *Digitaria brownii* (7%), *Digitaria ciliaris*\* (7%), *Digitaria diffusa* (7%), *Digitaria hystrichoides* (7%), *Echinopogon ovatus* (7%), *Enteropogon acicularis* (3, 7%), *Enteropogon ramosus* (7%), *Entolasia stricta* (2, 7%), *Eragrostis brownii* (7%), *Eragrostis indet.* (8, 7%), *Eragrostis spartinoides* (7%), *Eriochloa crebra* (7%), *Eriochloa pseudoacrotricha* (7%), *Eulalia aurea* (3, 7%), *Heteropogon triticeus* (7%), *Juncus polyanthemus* (3, 7%), *Microlaena stipoides* var. *stipoides* (7%), *Oplismenus paniculatus* (1, 7%), *Panicum decompositum* (1, 7%), *Panicum decompositum* var. *decompositum* (7%), *Panicum indet.* (7%), *Panicum queenslandicum* (5, 7%), *Panicum queenslandicum* var. *queenslandicum* (7%), *Paspalidium gausum* (7%), *Paspalidium gracile* (7%), *Paspalidium rarum* (1, 7%), *Paspalum dilatatum*\* (7%), *Perotis rara* (7%), *Poaceae indet.* (7%), *Scleria sphaelata* (7%), *Setaria surgens* (1, 7%), *Sporobolus caroli* (2, 7%), *Urochloa foliosa* (7%), *Urochloa piligera* (7%)

FORBS: *Cyanthillium cinereum* (79%), *Sida hackettiana* (1, 64%), *Eustrephus latifolius* (50%), *Glycine tomentella* (43%), *Desmodium varians* (36%), *Malvastrum americanum* var. *americanum*\* (36%), *Alphitonia excelsa* (29%), *Euphorbia dallachyana* (1, 29%), *Oxalis corniculata*\* (1, 29%), *Oxalis perennans* (29%), *Wahlenbergia gracilis* (29%), *Abutilon oxycarpum* (21%), *Brunoniella australis* (21%), *Einadia hastata* (21%), *Eremophila debilis* (1, 21%), *Glycine clandestina* var. *clandestina* (21%), *Gomphocarpus physocarpus*\* (21%), *Goodenia glabra* (21%), *Grewia latifolia* (21%), *Lobelia purpurascens* (21%), *Lomandra multiflora* subsp. *multiflora* (21%), *Opuntia stricta*\* (21%), *Phyllanthus virgatus* (21%), *Pterocaulon indet.* (21%), *Sida cordifolia*\* (21%), *Sida rhombifolia*\* (21%), *Centipedia minima* (14%), *Cirsium vulgare*\* (14%), *Crotalaria mitchellii* (1, 14%), *Cyclospermum leptophyllum*\* (14%), *Dianella brevipedunculata* (14%), *Dichondra repens* (14%), *Emilia sonchifolia*\* (14%), *Erigeron sumatrensis*\* (14%), *Glycine tabacina* (14%), *Gomphrena celosioides*\* (14%), *Heliotropium amplexicaule*\* (14%), *Hydrocotyle acutiloba* (14%), *Indigofera indet.* (14%), *Lepidium africanum*\* (14%), *Malvastrum coromandelianum* subsp. *coromandelianum*\* (1, 14%), *Mentha satureioides* (14%), *Opuntia tomentosa*\* (14%), *Peripleura hispidula* var. *setosa* (14%), *Plectranthus parviflorus* (14%), *Rhynchosia minima* var. *minima* (3, 14%), *Richardia brasiliensis*\* (14%), *Senecio pinnatifolius* var. *pinnatifolius* (14%), *Sida* sp. (Musselbrook M.B.Thomas+ MRS437) (14%), *Sigesbeckia orientalis* (1, 14%), *Solanum nigrum* subsp. *nigrum*\* (14%), *Veronica plebeia* (14%), *Acacia podalyriifolia* (7%), *Achyranthes aspera* (7%), *Ajuga australis* (7%), *Alternanthera denticulata* (7%), *Alternanthera pungens*\* (7%), *Bidens pilosa*\* (7%), *Brachyscome indet.* (1, 7%), *Breynia oblongifolia* (7%), *Calotis lappulacea* (7%), *Calystegia marginata* (7%), *Camptacra barbata* (7%), *Cardiospermum grandiflorum*\* (2, 7%), *Cheilanthes distans* (7%), *Cheilanthes sieberi* (7%), *Chrysocephalum apiculatum* (7%), *Convolvulaceae indet.* (1, 7%), *Crotalaria montana* (7%), *Crotalaria montana* var. *exserta* (7%), *Crotalaria novae-hollandiae* (7%), *Cucumis althaeoides* (7%), *Cynoglossum australe* (7%), *Daucus glochidiatus* (7%), *Desmodium gunnii* (1, 7%), *Desmodium indet.* (7%), *Dianella longifolia* (7%), *Eucalyptus tereticornis* (7%), *Euphorbia bifida* (7%), *Euphorbia drummondii* (1, 7%), *Euphorbia hirta*\* (7%), *Evolvulus alsinoides* (7%), *Evolvulus alsinoides* var. *decumbens* (7%), *Galactia tenuiflora* var. *lucida* (7%), *Gamochaeta pensylvanica*\* (7%), *Geranium solanderi* var. *solanderi* (7%), *Goodenia rotundifolia* (7%), *Hibiscus sturtii* (7%), *Hibiscus sturtii* var. *sturtii* (7%), *Ipomoea indet.* (7%), *Ipomoea plebeia* (7%), *Lantana camara*\* (2, 7%), *Lespedeza juncea* subsp. *sericea* (7%), *Liliaceae indet.* (1, 7%), *Livistona decora* (7%), *Lobelia concolor* (7%), *Macroptilium lathyroides*\* (7%), *Malvastrum americanum* (7%), *Marsilea hirsuta* (2, 7%), *Medicago polymorpha*\* (2, 7%), *Melaleuca viminalis* (7%), *Murdannia graminea* (7%), *Myoporum acuminatum* (4, 7%), *Neptunia gracilis* (7%), *Ophioglossum indet.* (7%), *Ophioglossum reticulatum* (7%), *Oxalis indet.* (1, 7%), *Parsonia lanceolata* (7%), *Parsonia straminea* (1, 7%), *Parthenium hysterophorus*\* (1, 7%), *Passiflora foetida*\* (7%), *Peripleura hispidula* (7%), *Petalostigma pubescens* (7%), *Phyllanthus lacunarius* (7%), *Plantago debilis* (7%), *Polymeria calycina* (7%), *Portulaca pilosa*\* (7%), *Pseuderanthemum variabile* (7%), *Pteridium esculentum* (8, 7%), *Pterocaulon redolens* (1, 7%), *Raphanus raphanistrum*\* (7%), *Rostellularia adscendens* (7%), *Rubus parvifolius* (7%), *Rumex brownii* (7%), *Senna barclayana* (7%), *Sida atherophora* (7%), *Sida corrugata* (7%), *Sonchus oleraceus*\* (7%), *Spermacoce brachystema* (7%), *Sphaeromorphaea indet.* (7%), *Tephrosia filipes* (7%), *Trichodesma zeylanicum* (7%), *Tricoryne elatior* (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: 11.3.4

*Verbena indet.* (1, 7%), *Verbena litoralis*\* (7%), *Verbena macrostachya* (2, 7%), *Verbesina encelioides*\* (7%), *Vicia indet.* (7%), *Vigna lanceolata* (7%), *Vigna lanceolata var. lanceolata* (7%), *Wahlenbergia graniticola* (7%), *Wahlenbergia indet.* (7%), *Wikstroemia indica* (7%), *Xanthium occidentale*\* (7%), *Zornia dyctiocarpa var. dyctiocarpa* (7%), *Zornia muriculata subsp. muriculata* (1, 7%)

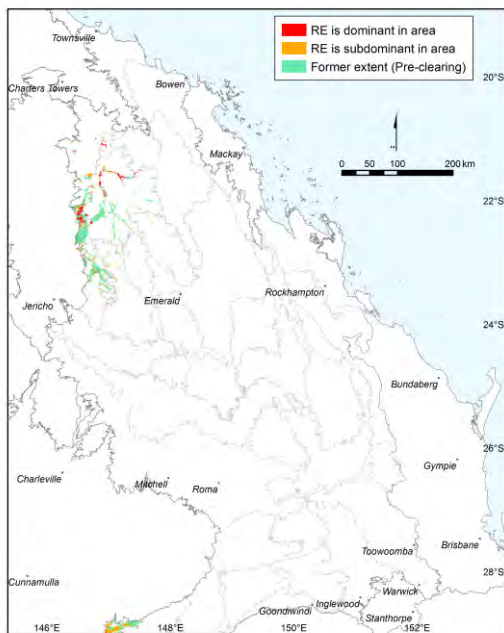
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Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 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

Acacia cambagei woodland on alluvial plains



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 164,394 54,262 33%

Species\_recorded: Total: 94; woody: 12; ground: 85; Avg. spp./site: 26.0; std dev.: 5.9, 4 site(s)

Basal area: Avg./site: 12.3 m<sup>2</sup>/ha, range: 8.0 - 24 m<sup>2</sup>/ha, std. deviation: 6 m<sup>2</sup>/ha, 5 site(s)

Structural formation: Low woodland: 80%; woodland: 20%, 5 site(s)

Representative\_sites 16872, 16883, 17125, 19152, 19180.

Stratum: Tree 1

Height avg. = 8.3m, range 5-12m, 5 sites

Crown cover avg. = 24.8%, range 18.0-36.0%, 5 sites

Dominant species (relative cover, frequency): *Acacia cambagei* (86, 100%), *Acacia harpophylla* (35, 40%)

Frequent species (cover, frequency): *Acacia cambagei* (21, 100%), *Acacia harpophylla* (9, 40%), *Santalum lanceolatum* (20%), *Terminalia oblongata* subsp. *oblongata* (20%)

Stratum: Tree 2

Height avg. = 4.0m, 1 site

Crown cover avg. = 0.0%, 1 site

Frequent species (cover, frequency): *Eremophila mitchellii* (20%), *Exocarpos aphyllus* (20%), *Geijera parviflora* (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. = 2.3m, range 0.75-5m, 5 sites

Crown cover avg. = 6.8%, range 2.0-15.0%, 5 sites

Dominant species (relative cover, frequency): *Eremophila mitchellii* (64, 80%), *Acacia cambagei* (44, 40%), *Terminalia oblongata* subsp. *oblongata* (27, 60%)

Frequent species (cover, frequency): *Eremophila mitchellii* (7, 80%), *Terminalia oblongata* subsp. *oblongata* (1, 60%), *Acacia cambagei* (2, 40%), *Acacia harpophylla* (20%), *Apophyllum anomalum* (20%), *Enchylaena tomentosa* (1, 20%), *Geijera salicifolia* (20%), *Harrisia martinii*\* (1, 20%), *Lysiphyllum carronii* (2, 20%), *Santalum lanceolatum* (20%)

**Stratum: Ground**

Height avg. = 0.7m, range 0.4-1m, 4 sites

PFC avg. = 13.8%, range 10-20%, 4 sites

Dominant species (relative cover, frequency): *Sclerolaena muricata* (45, 25%), *Hibiscus verdcourtii* (38, 25%), *Sclerolaena tetracuspis* (17, 25%), *Boerhavia pubescens* (17, 25%), *Trianthema triquetra* (17, 25%)

Frequent species (cover, frequency): GRAMINOIDS: *Cenchrus ciliaris*\* (1, 50%), *Sporobolus caroli* (2, 50%), *Aristida* indet. (25%), *Aristida jerichoensis* var. *subspinulifera* (25%), *Chloris ventricosa* (25%), *Cynodon dactylon*\* (25%), *Cyperus rotundus*\* (1, 25%), *Dactyloctenium radulans* (25%), *Enneapogon gracilis* (25%), *Enteropogon acicularis* (25%), *Enteropogon ramosus* (2, 25%), *Eragrostis lacunaria* (25%), *Iseilema vaginiflorum* (25%), *Paspalidium caespitosum* (25%), *Paspalidium constrictum* (2, 25%), *Paspalidium globoideum* (1, 25%), *Sporobolus australasicus* (1, 25%), *Tripogon loliiformis* (2, 25%), *Urochloa reptans* (25%)

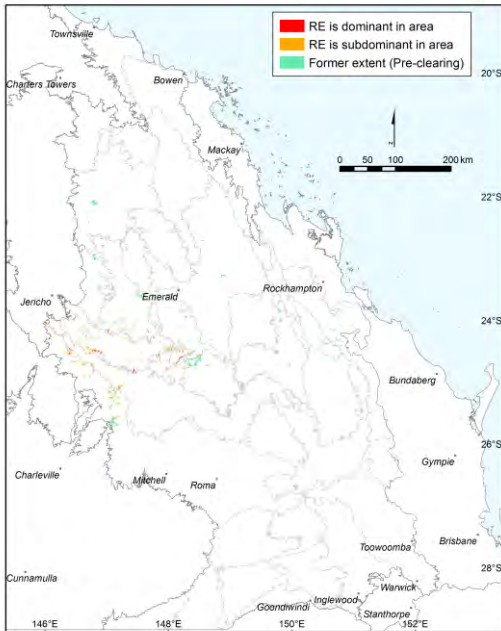
FORBS: *Enchylaena tomentosa* (2, 75%), *Carissa ovata* (50%), *Einadia nutans* subsp. *linifolia* (50%), *Malvastrum americanum* var. *americanum*\* (50%), *Parthenium hysterophorus*\* (50%), *Rhagodia spinescens* (2, 50%), *Salsola australis* (1, 50%), *Sesbania cannabina* (1, 50%), *Sida* indet. (50%), *Sida trichopoda* (50%), *Abelmoschus ficulneus* (25%), *Abutilon oxycarpum* (25%), *Abutilon oxycarpum* var. *subsagittatum* (25%), *Alternanthera nana* (25%), *Alternanthera nodiflora* (25%), *Amyema quandang* (25%), *Boerhavia dominii* (25%), *Boerhavia paludosa* (1, 25%), *Boerhavia pubescens* (4, 25%), *Cheilanthes distans* (25%), *Chenopodium desertorum* subsp. *anidiophyllum* (25%), *Commelina ensifolia* (25%), *Commelina lanceolata* (25%), *Cynanchum viminale* subsp. *brunonianum* (25%), *Dipteracanthus australasicus* (1, 25%), *Dissocarpus paradoxus* (25%), *Eremophila deserti* (25%), *Eremophila mitchellii* (25%), *Euphorbia hyssopifolia*\* (25%), *Euphorbia* indet. (25%), *Evolvulus alsinoides* (1, 25%), *Glinus lotoides* (25%), *Gomphrena humilis* (25%), *Harrisia martinii*\* (2, 25%), *Hibiscus meraukensis* (25%), *Hibiscus verdcourtii* (4, 25%), *Marsdenia australis* (25%), *Marsilea hirsuta* (25%), *Melhania oblongifolia* (25%), *Nicotiana megalosiphon* subsp. *megalosiphon* (1, 25%), *Phyllanthus maderaspatensis* (25%), *Pseuderanthemum variabile* (25%), *Ptilotus* indet. (25%), *Rhynchosia minima* (25%), *Sclerolaena bicornis* (1, 25%), *Sclerolaena bicornis* var. *horrida* (2, 25%), *Sclerolaena cuneata* (25%), *Sclerolaena* indet. (3, 25%), *Sclerolaena muricata* (9, 25%), *Sclerolaena tetracuspis* (4, 25%), *Sida fibulifera* (25%), *Sida rhombifolia*\* (25%), *Streptoglossa adscendens* (25%), *Tetragonia tetragonoides* (25%), *Trianthema triquetra* (4, 25%), *Tribulus terrestris* (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 woodland on alluvial plains**



Annie Kelly

**Pre-clearing area (ha), remnant area (ha) and per cent remaining:** 64,632 28,872 45%

**Species recorded:** Total: 73; woody: 10; ground: 64; Avg. spp./site: 28.0; std dev.: 7.0, 2 site(s)

**Basal area:** Avg./site: 9.0 m<sup>2</sup>/ha, range: 5.0 - 16 m<sup>2</sup>/ha, std. deviation: 5 m<sup>2</sup>/ha, 3 site(s)

**Structural formation:** Woodland: 67%; low woodland: 33%, 3 site(s)

**Representative sites** 16775, 16977, 17232.

**Stratum: Tree 1**

**Height avg. = 13.3m, range 7-18m, 3 sites**  
**Crown cover avg. = 26.3%, range 20.0-32.0%, 3 sites**

*Dominant species (relative cover, frequency): Eucalyptus melanophloia (86, 100%), Corymbia erythrophloia (21, 67%)*  
*Frequent species (cover, frequency): Eucalyptus melanophloia (23, 100%), Corymbia erythrophloia (6, 67%), Brachychiton populneus (33%), Corymbia tessellaris (33%)*

**Stratum: Shrub 1**

**Height avg. = 3.0m, range 2-4m, 2 sites**  
**Crown cover avg. = 2.5%, range 0.0-5.0%, 2 sites**

*Dominant species (relative cover, frequency): Acacia salicina (100, 33%), Acacia macradenia (56, 33%), Eucalyptus melanophloia (37, 33%), Indigofera australis (2, 33%), Clerodendrum floribundum (2, 33%)*  
*Frequent species (cover, frequency): Acacia longispicata (33%), Acacia macradenia (3, 33%), Acacia salicina (33%), Brachychiton populneus subsp. trilobus (33%), Clerodendrum floribundum (33%), Eucalyptus melanophloia (2, 33%), Indigofera australis (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. = 1.1m, range 0.75-1.5m, 2 sites

PFC avg. = 83.5%, range 67-100%, 2 sites

*Dominant species (relative cover, frequency): Themeda triandra (45, 50%), Cymbopogon refractus (42, 50%), Heteropogon contortus (35, 100%), Paspalidium criniforme (9, 50%), Melinis repens\* (6, 50%)*

*Frequent species (cover, frequency): GRAMINOIDS: Heteropogon contortus (33, 100%), Aristida gracilipes (50%), Bothriochloa bladhii subsp. bladhii (3, 50%), Bothriochloa decipiens var. cloncurrensis (3, 50%), Cenchrus ciliaris\* (50%), Cymbopogon refractus (28, 50%), Dichanthium sericeum (2, 50%), Iseilema vaginiflorum (50%), Melinis repens\* (6, 50%), Panicum effusum (50%), Panicum queenslandicum var. queenslandicum (50%), Paspalidium criniforme (6, 50%), Sorghum x alnum\* (50%), Themeda triandra (30, 50%)*

*FORBS: Rhynchosia minima (1, 100%), Asperula conferta (50%), Chrysocephalum apiculatum (50%), Cirsium vulgare\* (50%), Cullen tenax (50%), Cyanthillium cinereum (50%), Einadia nutans subsp. nutans (50%), Galactia tenuiflora (2, 50%), Geitonoplesium cymosum (50%), Glycine tabacina (50%), Indigofera linifolia (50%), Ipomoea plebeia (50%), Jasminum didymum subsp. lineare (50%), Malvastrum americanum var. americanum\* (2, 50%), Opuntia stricta\* (50%), Oxalis chnoodes (50%), Parthenium hysterophorus\* (6, 50%), Peripleura hispidula var. setosa (50%), Sesbania cannabina (50%), Sida atherophora (1, 50%), Sida hackettiana (50%), Sida rhombifolia\* (50%), Sigesbeckia australiensis (50%), Silybum marianum\* (50%), Solanum indet. (50%), Vachellia farnesiana\* (50%), Verbena indet. (50%), Verbena macrostachya (50%), Verbesina encelioides\* (50%), Wahlenbergia tumidifruca (50%)*

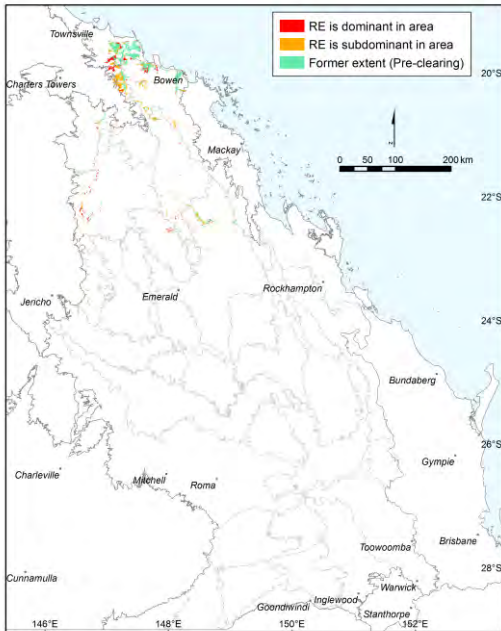
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Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 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

**Corymbia spp. woodland on alluvial plains**



Jesse Rowland

**Pre-clearing area (ha), remnant area (ha) and per cent remaining:** 138,427 62,050 45%

**Species recorded:** Total: 139; woody: 41; ground: 110; Avg. spp./site: 27.8; std dev.: 8.1, 6 site(s)

**Basal area:** Avg./site: 7.9 m<sup>2</sup>/ha, range: 3.0 - 16 m<sup>2</sup>/ha, std. deviation: 5 m<sup>2</sup>/ha, 5 site(s)

**Structural formation:** Woodland: 43%; open-woodland: 43%; tall open-woodland: 14%, 7 site(s)

**Representative sites** 2224, 2241, 16790, 17040, 19039, 19044, 19177.

**Stratum: Tree 1**

**Height avg. = 14.7m, range 11-22m, 6 sites**  
**Crown cover avg. = 18.2%, range 3.0-30.0%, 6 sites**

*Dominant species (relative cover, frequency): Corymbia dallachiana (59, 57%), Corymbia tessellaris (57, 71%), Corymbia clarksoniana (43, 57%)*

*Frequent species (cover, frequency): Corymbia tessellaris (10, 71%), Corymbia clarksoniana (7, 57%), Corymbia dallachiana (10, 57%), Cymbidium canaliculatum (14%), Eucalyptus coolabah (1, 14%), Eucalyptus crebra (1, 14%), Eucalyptus melanophloia (14%), Eucalyptus platyphylla (14%), Eucalyptus populnea (14%)*

**Stratum: Tree 2**

**Height avg. = 10.5m, range 5-18m, 4 sites**  
**Crown cover avg. = 2.0%, range 0.0-4.0%, 4 sites**

*Dominant species (relative cover, frequency): Corymbia dallachiana (51, 29%), Lysiphyllum carronii (36, 29%), Archidendropsis basaltica (8, 29%)*

*Frequent species (cover, frequency): Archidendropsis basaltica (29%), Corymbia dallachiana (29%), Lysiphyllum carronii (29%), Acacia excelsa (14%), Acacia salicina (3, 14%), Acacia sericophylla (14%), Alectryon oleifolius (14%), Atalaya hemiglauca (14%), Callitris glaucophylla (5, 14%), Eucalyptus melanophloia (3, 14%), Eucalyptus populnea (1, 14%), Grevillea striata (4, 14%), Hakea lorea (14%), Petalostigma pubescens (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. = 2.0m, range 1.2-4m, 6 sites

Crown cover avg. = 2.2%, range 0.0-8.0%, 6 sites

Dominant species (relative cover, frequency): *Acacia salicina* (38, 29%), *Opuntia tomentosa*\* (21, 43%), *Carissa ovata* (21, 43%)

Frequent species (cover, frequency): *Carissa ovata* (43%), *Opuntia tomentosa*\* (43%), *Acacia salicina* (29%), *Acacia excelsa* (14%), *Alphitonia excelsa* (1, 14%), *Capparis lasiantha* (14%), *Capparis loranthifolia* (14%), *Capparis umbonata* (14%), *Corymbia dallachiana* (14%), *Corymbia tessellaris* (1, 14%), *Cryptostegia grandiflora*\* (14%), *Eremophila mitchellii* (1, 14%), *Lantana camara*\* (8, 14%), *Pandorea pandorana* (14%), *Petalostigma pubescens* (1, 14%), *Psydrax attenuata* (14%), *Psydrax oleifolia* (1, 14%)

**Stratum: Shrub 2**

Height avg. = 1.0m, range 0.5-2m, 4 sites

Crown cover avg. = 2.0%, range 0.0-5.0%, 4 sites

Dominant species (relative cover, frequency): *Persoonia falcata* (27, 29%)

Frequent species (cover, frequency): *Persoonia falcata* (29%), *Acacia indet.* (14%), *Capparis loranthifolia* (14%), *Cassia brewsteri* (1, 14%), *Corymbia dallachiana* (14%), *Corymbia tessellaris* (2, 14%), *Grewia retusifolia* (3, 14%), *Malvastrum americanum* var. *stellatum* (1, 14%), *Parsonia lanceolata* (14%), *Sida cordifolia*\* (1, 14%), *Stachytarpheta jamaicensis*\* (14%), *Ziziphus mauritiana*\* (14%)

**Stratum: Ground**

Height avg. = 0.5m, range 0.2-1m, 6 sites

PFC avg. = 61.7%, range 20-83%, 6 sites

Dominant species (relative cover, frequency): *Bothriochloa pertusa*\* (77, 33%), *Cenchrus ciliaris*\* (53, 33%), *Heteropogon contortus* (21, 83%), *Melinis repens*\* (5, 50%), *Themeda triandra* (5, 50%)

Frequent species (cover, frequency): GRAMINOIDS: *Heteropogon contortus* (15, 83%), *Melinis repens*\* (1, 50%), *Themeda triandra* (3, 50%), *Aristida personata* (3, 33%), *Bothriochloa pertusa*\* (50, 33%), *Cenchrus ciliaris*\* (44, 33%), *Eragrostis sororia* (33%), *Panicum effusum* (1, 33%), *Aristida holathera* var. *holathera* (2, 17%), *Aristida indet.* (17%), *Aristida latifolia* (17%), *Aristida pruinosa* (5, 17%), *Bothriochloa bladhii* subsp. *glabra*\* (1, 17%), *Bothriochloa decipiens* var. *cloncurrrens* (5, 17%), *Bothriochloa decipiens* var. *decipiens* (1, 17%), *Bothriochloa ewartiana* (3, 17%), *Chloris divaricata* (17%), *Chloris gayana*\* (17%), *Chloris truncata* (17%), *Chloris ventricosa* (17%), *Cymbopogon refractus* (17%), *Cyperus gracilis* (12, 17%), *Digitaria ammophila* (17%), *Digitaria brownii* (17%), *Enneapogon polyphyllus* (17%), *Enteropogon indet.* (17%), *Enteropogon ramosus* (6, 17%), *Eragrostis lacunaria* (1, 17%), *Eriochloa indet.* (17%), *Eulalia aurea* (17%), *Fimbristylis dichotoma* (17%), *Heteropogon triticeus* (1, 17%), *Holcolemma dispar* (17%), *Megathyrus maximus*\* (1, 17%), *Panicum larcomanianum* (1, 17%), *Panicum queenslandicum* (17%), *Paspalidium caespitosum* (8, 17%), *Paspalidium constrictum* (17%), *Perotis rara* (3, 17%), *Sporobolus creber* (1, 17%), *Urochloa foliosa* (1, 17%), *Urochloa piligera* (17%)

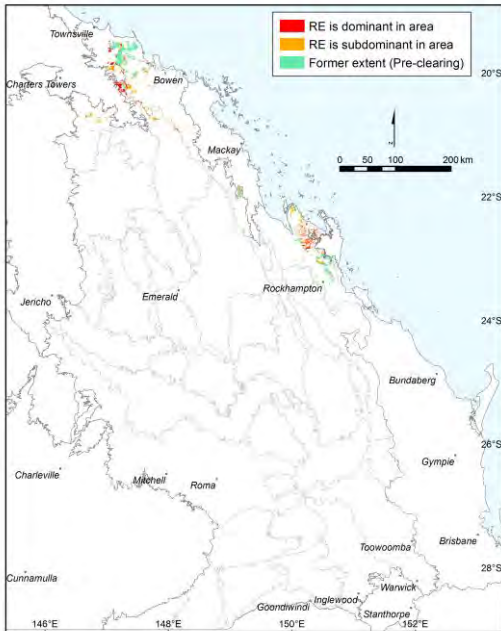
FORBS: *Achyranthes aspera* (33%), *Commelina indet.* (33%), *Neptunia gracilis* (1, 33%), *Pandorea pandorana* (33%), *Parsonia lanceolata* (33%), *Rhynchosia minima* (33%), *Sida acuta*\* (33%), *Solanum ellipticum* (33%), *Stylosanthes scabra*\* (33%), *Abutilon oxycarpum* (17%), *Acacia indet.* (17%), *Acacia salicina* (17%), *Alternanthera ficoidea*\* (17%), *Aphyllodium biarticulatum* (17%), *Boerhavia dominii* (17%), *Bonamia media* (17%), *Carissa ovata* (17%), *Chrysocephalum apiculatum* (17%), *Cirsium vulgare*\* (17%), *Coelospermum decipiens* (1, 17%), *Corymbia dallachiana* (15, 17%), *Crotalaria montana* (17%), *Cyanthillium cinereum* (17%), *Desmodium campylocaulon* (1, 17%), *Desmodium indet.* (17%), *Dianella indet.* (17%), *Dysphania carinata* (17%), *Einadia hastata* (17%), *Einadia nutans* (17%), *Euphorbia dallachiana* (17%), *Evolvulus alsinoides* (17%), *Glycine tabacina* (1, 17%), *Gomphrena celosoides*\* (17%), *Grevillea striata* (17%), *Grewia retusifolia* (17%), *Hibiscus sturtii* (5, 17%), *Indigofera linifolia* (17%), *Ipomoea polymorpha* (17%), *Jasminum didymum* subsp. *racemosum* (17%), *Maireana microphylla* (17%), *Malvastrum americanum* var. *americanum*\* (17%), *Melhantha oblongifolia* (17%), *Mitrasacme indet.* (17%), *Opuntia stricta*\* (17%), *Opuntia tomentosa*\* (17%), *Oxalis corniculata*\* (17%), *Phyllanthus fuernrohrii* (17%), *Polycarpha corymbosa* (17%), *Portulaca pilosa*\* (17%), *Rhynchosia minima* var. *australis* (17%), *Ruellia tuberosa*\* (17%), *Salsola australis* (17%), *Sida cordifolia*\* (17%), *Sida hackettiana* (17%), *Sida indet.* (17%), *Sida rhombifolia*\* (4, 17%), *Sida spinosa*\* (17%), *Stachytarpheta jamaicensis*\* (17%), *Stylosanthes guianensis*\* (17%), *Tribulus indet.* (17%), *Verbesina encelioides*\* (2, 17%), *Vittadinia pustulata* (17%), *Waltheria indica* (17%), *Zornia indet.* (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 platyphylla, Corymbia spp. woodland on alluvial plains**



Jesse Rowland

**Pre-clearing area (ha), remnant area (ha) and per cent remaining:** 143,147 62,526 44%

**Species\_recorded:** Total: 196; woody: 27; ground: 180; Avg. spp./site: 38.2; std dev.: 6.4, 9 site(s)

**Basal area:** Avg./site: 9.6 m<sup>2</sup>/ha, range: 3.5 - 19 m<sup>2</sup>/ha, std. deviation: 5 m<sup>2</sup>/ha, 9 site(s)

**Structural formation:** Woodland: 67%; open-woodland: 33%, 9 site(s)

**Representative\_sites** 14855, 17043, 19050, 40806, 58454, 58494, 59076, 59081, 59085.

**Stratum: Tree 1**

**Height avg. = 16.8m, range 10-27m, 9 sites**  
**Crown cover avg. = 29.3%, range 12.0-90.3%, 9 sites**

*Dominant species (relative cover, frequency): Eucalyptus platyphylla (83, 100%), Corymbia intermedia (14, 22%), Melaleuca viridiflora var. viridiflora (10, 22%), Lophostemon suaveolens (9, 44%)*

*Frequent species (cover, frequency): Eucalyptus platyphylla (25, 100%), Lophostemon suaveolens (2, 44%), Corymbia intermedia (5, 22%), Melaleuca viridiflora var. viridiflora (3, 22%), Corymbia clarksoniana (8, 11%), Eucalyptus crebra (8, 11%), Eucalyptus tereticornis subsp. tereticornis (3, 11%)*

**Stratum: Tree 2**

**Height avg. = 9.2m, range 7-12m, 6 sites**  
**Crown cover avg. = 8.3%, range 2.0-25.0%, 6 sites**

*Dominant species (relative cover, frequency): Melaleuca viridiflora var. viridiflora (69, 22%), Eucalyptus platyphylla (68, 56%), Lophostemon suaveolens (33, 22%), Corymbia dallachiana (11, 22%), Corymbia intermedia (10, 33%)*

*Frequent species (cover, frequency): Eucalyptus platyphylla (5, 56%), Corymbia intermedia (1, 33%), Corymbia dallachiana (1, 22%), Lophostemon suaveolens (3, 22%), Melaleuca viridiflora var. viridiflora (8, 22%), Acacia leiocalyx subsp. leiocalyx (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

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**Stratum: Tree 3**

Height avg. = 5.0m, 1 site

Crown cover avg. = 0.0%, 1 site

*Frequent species (cover, frequency): Lophostemon suaveolens (11%)*

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**Stratum: Shrub 1**

Height avg. = 2.4m, range 1-4m, 8 sites

Crown cover avg. = 2.1%, range 0.0-7.0%, 8 sites

*Dominant species (relative cover, frequency): Melaleuca viridiflora var. viridiflora (72, 33%), Planchonia careya (69, 33%), Eucalyptus platyphylla (31, 44%), Grewia retusifolia (22, 22%), Petalostigma pubescens (19, 22%)*

*Frequent species (cover, frequency): Eucalyptus platyphylla (44%), Melaleuca viridiflora var. viridiflora (4, 33%), Planchonia careya (2, 33%), Grewia retusifolia (22%), Petalostigma pubescens (22%), Acacia disparrima subsp. disparrima (11%), Alphitonia excelsa (11%), Corymbia dallachiana (11%), Corymbia tessellaris (11%), Cryptostegia grandiflora\* (11%), Grewia latifolia (1, 11%), Lophostemon suaveolens (11%), Melaleuca nervosa (11%), Ziziphus mauritiana\* (11%)*

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**Stratum: Shrub 2**

Height avg. = 1.1m, range 0.75-1.5m, 5 sites

Crown cover avg. = 1.1%, range 0.6-2.0%, 5 sites

*Dominant species (relative cover, frequency): Planchonia careya (57, 22%), Melaleuca viridiflora var. viridiflora (52, 22%), Eucalyptus platyphylla (15, 33%), Breynia oblongifolia (8, 22%)*

*Frequent species (cover, frequency): Eucalyptus platyphylla (33%), Breynia oblongifolia (22%), Melaleuca viridiflora var. viridiflora (1, 22%), Planchonia careya (22%), Carissa ovata (1, 11%), Cassia brewsteri (1, 11%), Coelospermum reticulatum (11%), Corymbia intermedia (11%), Corymbia tessellaris (11%), Cryptostegia grandiflora\* (11%), Lantana camara\* (11%), Lophostemon suaveolens (11%), Melaleuca nervosa (11%), Petalostigma pubescens (11%), Sida cordifolia\* (1, 11%), Sida hackettiana (1, 11%), Stylosanthes scabra\* (1, 11%)*

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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. = 0.8m, range 0.5-1.5m, 9 sites

PFC avg. = 59.8%, range 35-94%, 9 sites

Dominant species (relative cover, frequency): *Themeda triandra* (33, 78%), *Arundinella nepalensis* (27, 56%), *Heteropogon contortus* (21, 44%), *Dichanthium sericeum subsp. sericeum* (20, 22%), *Heteropogon triticeus* (15, 22%)

Frequent species (cover, frequency): GRAMINOIDS: *Themeda triandra* (20, 78%), *Eragrostis brownii* (5, 67%), *Fimbristylis dichotoma* (1, 67%), *Panicum effusum* (2, 67%), *Arundinella nepalensis* (17, 56%), *Heteropogon contortus* (17, 44%), *Capillipedium spicigerum* (33%), *Chrysopogon fallax* (2, 33%), *Eragrostis sororia* (2, 33%), *Fimbristylis ferruginea* (33%), *Imperata cylindrica* (6, 33%), *Paspalidium distans* (33%), *Paspalum scrobiculatum* (33%), *Sarga leiocladum* (3, 33%), *Cymbopogon refractus* (22%), *Cyperus diffiformis* (22%), *Cyperus fulvus* (22%), *Cyperus indet.* (22%), *Dichanthium sericeum subsp. sericeum* (8, 22%), *Echinochloa colona\** (22%), *Heteropogon triticeus* (10, 22%), *Alloteropsis semialata* (11%), *Aristida calycina* (5, 11%), *Aristida holathera var. holathera* (10, 11%), *Aristida queenslandica var. dissimilis* (11%), *Bothriochloa bladhii subsp. bladhii* (3, 11%), *Bothriochloa decipiens var. cloncurrrens* (11%), *Bothriochloa decipiens var. decipiens* (1, 11%), *Bothriochloa indet.* (1, 11%), *Bothriochloa pertusa\** (11%), *Capillipedium parviflorum* (11%), *Chloris divaricata* (11%), *Chloris virgata\** (1, 11%), *Cyperus distans* (2, 11%), *Cyperus iria* (11%), *Cyperus pulchellus* (11%), *Cyperus sesquiflorus\** (11%), *Dichanthium fecundum* (15, 11%), *Digitaria ramularis* (1, 11%), *Dinebra neesii* (11%), *Eleocharis philippinensis* (11%), *Eragrostis parviflora* (11%), *Eragrostis spartinoides* (11%), *Eragrostis tenuifolia\** (5, 11%), *Eriachne armitii* (5, 11%), *Eriochloa crebra* (11%), *Eriochloa procera* (11%), *Eriochloa pseudoacrotricha* (11%), *Fimbristylis microcarya* (1, 11%), *Leersia hexandra* (11%), *Lipocarpha microcephala* (11%), *Panicum decompositum* (1, 11%), *Panicum simile* (1, 11%), *Paspalum conjugatum\** (1, 11%), *Scleria novae-hollandiae* (11%), *Scleria sphacelata* (11%), *Sorghum nitidum forma aristatum* (1, 11%), *Sporobolus creber* (11%)

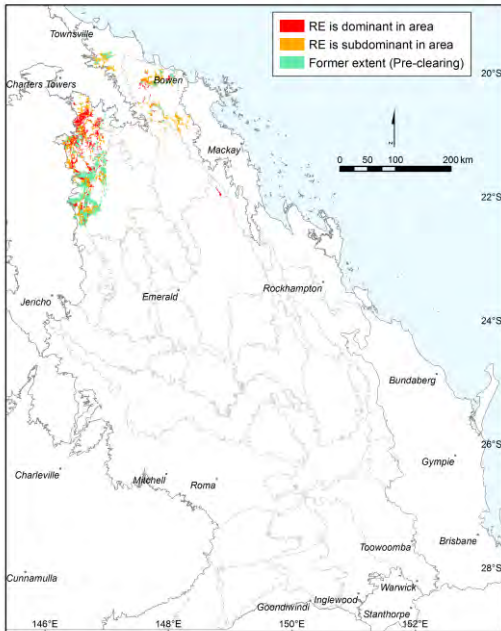
FORBS: *Cyanthillium cinereum* (89%), *Phyllanthus virgatus* (78%), *Crotalaria montana* (44%), *Ludwigia perennis* (44%), *Murdannia graminea* (44%), *Rostellularia adscendens* (44%), *Spermacoce brachystema* (44%), *Stylosanthes scabra\** (44%), *Flemingia parviflora* (2, 33%), *Galactia tenuiflora* (33%), *Mecardonia procumbens\** (33%), *Oldenlandia subulata* (33%), *Passiflora foetida\** (33%), *Sphaeromorphaea indet.* (33%), *Ageratum houstonianum\** (22%), *Alternanthera denticulata var. micrantha* (22%), *Alternanthera nana* (22%), *Apowollastonia spilanthis* (22%), *Brunoniella acaulis subsp. ciliata* (3, 22%), *Centipeda minima subsp. minima* (22%), *Chrysocephalum apiculatum* (22%), *Crinum indet.* (22%), *Dianella caerulea* (22%), *Dianella nervosa* (22%), *Eclipta prostrata\** (1, 22%), *Emilia sonchifolia\** (22%), *Emilia sonchifolia var. sonchifolia\** (22%), *Eustrephus latifolius* (22%), *Galactia tenuiflora forma sericea* (3, 22%), *Glycine tabacina* (22%), *Haloragis heterophylla* (1, 22%), *Lobelia stenophylla* (22%), *Ludwigia octovalvis* (4, 22%), *Melaleuca viridiflora var. viridiflora* (9, 22%), *Neptunia gracilis* (22%), *Oldenlandia galioides* (22%), *Planchonia careya* (1, 22%), *Pterocaulon indet.* (22%), *Ruellia tuberosa\** (22%), *Tephrosia juncea* (22%), *Velleia spathulata* (22%), *Aeschynomene brevifolia* (11%), *Alphitonia excelsa* (11%), *Alysicarpus aurantiacus* (1, 11%), *Asteraceae indet.* (11%), *Bidens pilosa\** (11%), *Blumea saxatilis* (11%), *Brenya oblongifolia* (11%), *Brunoniella acaulis subsp. acaulis* (1, 11%), *Calandrinia indet.* (11%), *Centipeda borealis* (1, 11%), *Chamaecrista nomame var. nomame* (11%), *Coelospermum reticulatum* (11%), *Commelina diffusa* (11%), *Crinum flaccidum* (11%), *Desmodium gangeticum* (3, 11%), *Desmodium muelleri* (11%), *Desmodium trichostachyum* (11%), *Desmodium varians* (11%), *Dianella longifolia* (11%), *Emilia sonchifolia var. javanica\** (11%), *Eremophila debilis* (11%), *Erigeron pusillus\** (11%), *Erigeron sumatrensis\** (11%), *Eriocaulon cinereum* (11%), *Eucalyptus crebra* (11%), *Eucalyptus platyphylla* (11%), *Euphorbia hyssopifolia\** (11%), *Evolvulus alsinoides* (11%), *Evolvulus alsinoides var. decumbens* (11%), *Glossocardia bidens* (11%), *Glycine clandestina* (11%), *Glycine clandestina var. clandestina* (11%), *Glycine indet.* (11%), *Glycine tomentella* (11%), *Gomphocarpus physocarpus\** (11%), *Gomphrena celosoides\** (11%), *Goodenia gracilis* (11%), *Hygrophila angustifolia* (11%), *Hypericum gramineum* (11%), *Indigofera hirsuta* (11%), *Indigofera trifoliata* (11%), *Lagenophora indet.* (11%), *Leucas lavandulifolia\** (11%), *Lindernia crustacea* (11%), *Lindernia tenuifolia* (11%), *Lobelia quadrangularis* (11%), *Lomandra longifolia* (11%), *Lophostemon suaveolens* (11%), *Malvastrum americanum var. americanum\** (11%), *Malvastrum coromandelianum subsp. coromandelianum\** (11%), *Mitracarpus hirtus\** (11%), *Neptunia monosperma* (11%), *Philydrum lanuginosum* (11%), *Phyllanthus minutiflorus* (11%), *Plectranthus scutellarioides* (11%), *Polygala isingii* (11%), *Portulaca oleracea\** (11%), *Portulaca pilosa\** (11%), *Praxelis clematidea\** (1, 11%), *Pterocaulon serrulatum* (11%), *Pycnospora lutescens* (11%), *Rhynchosia minima var. minima* (3, 11%), *Rostellularia adscendens var. adscendens* (11%), *Sauropus indet.* (11%), *Sida hackettiana* (1, 11%), *Sida indet.* (11%), *Sida rohlenae* (11%), *Sonchus oleraceus\** (11%), *Spermacoce multicaulis* (11%), *Sphaeromorphaea australis* (11%), *Stylosanthes guianensis\** (2, 11%), *Stylosanthes guianensis var. guianensis\** (11%), *Stylosanthes indet.* (1, 11%), *Tephrosia filipes* (11%), *Uraria picta* (11%), *Waltheria indica* (11%), *Zornia areolata* (11%), *Zornia dyctiocarpa* (11%), *Zornia indet.* (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

**Eucalyptus brownii woodland on alluvial plains**



Annie Kelly

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 259,717 167,584 65%

Species\_recorded: Total: 89; woody: 29; ground: 72; Avg. spp./site: 28.8; std dev.: 12.6, 4 site(s)

Basal area: Avg./site: 7.8 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: 50%; open-woodland: 50%, 4 site(s)

Representative\_sites 2673, 19081, 19141, 61376.

**Stratum: Tree 1**

Height avg. = 16.0m, range 12-18m, 4 sites

Crown cover avg. = 23.8%, range 11.0-45.0%, 4 sites

Dominant species (relative cover, frequency): *Eucalyptus brownii* (99, 100%), *Acacia argyrodendron* (6, 25%)

Frequent species (cover, frequency): *Eucalyptus brownii* (24, 100%), *Acacia argyrodendron* (3, 25%)

**Stratum: Tree 2**

Height avg. = 6.3m, range 4-10m, 3 sites

Crown cover avg. = 3.7%, range 1.0-8.0%, 3 sites

Dominant species (relative cover, frequency): *Eucalyptus brownii* (100, 25%), *Eremophila mitchellii* (56, 25%), *Lysiphillum carronii* (42, 25%), *Grevillea parallela* (34, 25%), *Cassia brewsteri* (21, 50%)

Frequent species (cover, frequency): *Cassia brewsteri* (50%), *Acacia excelsa* subsp. *excelsa* (25%), *Acacia holosericea* (25%), *Acacia salicina* (25%), *Acacia victoriae* subsp. *victoriae* (25%), *Atalaya hemiglauca* (25%), *Denhamia cunninghamii* (25%), *Eremophila mitchellii* (5, 25%), *Eucalyptus brownii* (1, 25%), *Grevillea parallela* (3, 25%), *Grevillea striata* (25%), *Lysiphillum carronii* (1, 25%), *Owenia acidula* (25%), *Petalostigma pubescens* (25%), *Ventilago viminalis* (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 3**

Height avg. = 3.5m, 1 site

Crown cover avg. = 2.0%, 1 site

Dominant species (relative cover, frequency): *Eucalyptus brownii* (100, 25%)

Frequent species (cover, frequency): *Eucalyptus brownii* (2, 25%)

**Stratum: Shrub 1**

Height avg. = 1.6m, range 1-2.5m, 4 sites

Crown cover avg. = 3.0%, range 0.0-5.0%, 4 sites

Dominant species (relative cover, frequency): *Flueggea leucopyrus* (93, 25%), *Carissa ovata* (31, 50%), *Lysiphylum carronii* (24, 25%), *Erythroxylum australe* (21, 50%), *Solanum indet.* (17, 25%)

Frequent species (cover, frequency): *Cassia brewsteri* (75%), *Atalaya hemiglaucula* (50%), *Carissa ovata* (2, 50%), *Ehretia membranifolia* (50%), *Erythroxylum australe* (1, 50%), *Petalostigma pubescens* (1, 50%), *Alphitonia excelsa* (25%), *Archidendropsis basaltica* (25%), *Breynia oblongifolia* (25%), *Eremophila mitchellii* (25%), *Eucalyptus brownii* (25%), *Eucalyptus crebra* (25%), *Flueggea leucopyrus* (5, 25%), *Grewia latifolia* (25%), *Grewia retusifolia* (25%), *Lysiphylum carronii* (1, 25%), *Psyrax indet.* (25%), *Senna artemisioides subsp. zygophylla* (25%), *Solanum indet.* (25%), *Ventilago viminalis* (25%)

**Stratum: Ground**

Height avg. = 0.5m, range 0.2-0.8m, 4 sites

PFC avg. = 24.8%, range 2-65%, 4 sites

Dominant species (relative cover, frequency): *Eragrostis speciosa* (61, 25%), *Aristida calycina var. calycina* (57, 25%), *Boerhavia indet.* (28, 25%), *Aristida jerichoensis var. subspinulifera* (24, 25%), *Cenchrus ciliaris\** (23, 50%)

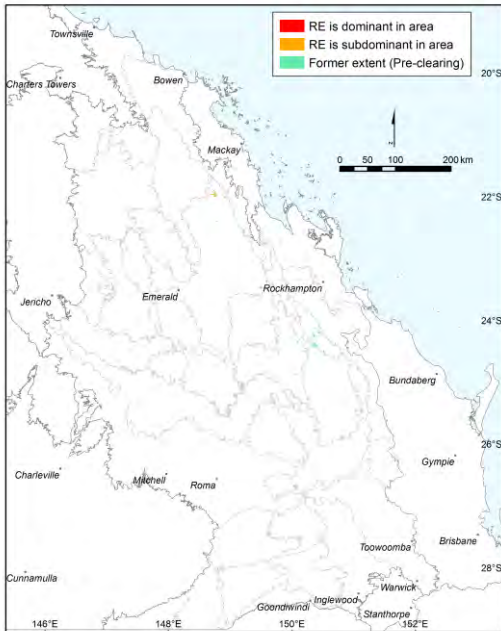
Frequent species (cover, frequency): GRAMINOIDS: *Fimbristylis dichotoma* (3, 75%), *Heteropogon contortus* (1, 75%), *Aristida calycina* (1, 50%), *Bothriochloa ewartiana* (1, 50%), *Cenchrus ciliaris\** (5, 50%), *Digitaria brownii* (50%), *Enteropogon ramosus* (1, 50%), *Aristida calycina var. calycina* (10, 25%), *Aristida jerichoensis* (10, 25%), *Aristida jerichoensis var. subspinulifera* (5, 25%), *Bothriochloa pertusa\** (1, 25%), *Bulbostylis barbata* (25%), *Chloris gayana\** (1, 25%), *Chrysopogon fallax* (2, 25%), *Cyperus exaltatus* (25%), *Cyperus fulvus* (25%), *Cyperus gracilis* (25%), *Dactyloctenium radulans* (25%), *Enteropogon unispiceus* (25%), *Eragrostis indet.* (25%), *Eragrostis lacunaria* (25%), *Eragrostis leptostachya* (25%), *Eragrostis speciosa* (40, 25%), *Melinis repens\** (25%), *Panicum effusum* (5, 25%)  
 FORBS: *Grewia latifolia* (1, 50%), *Phyllanthus virgatus* (50%), *Sida indet.* (1, 50%), *Abutilon oxycarpum* (1, 25%), *Acacia excelsa* (25%), *Acacia victoriae subsp. victoriae* (25%), *Acanthospermum hispidum\** (25%), *Achyranthes aspera* (25%), *Alternanthera indet.* (25%), *Boerhavia dominii* (25%), *Boerhavia indet.* (5, 25%), *Boerhavia sp. (St George A.Hill AQ399299)* (25%), *Breynia oblongifolia* (25%), *Carissa ovata* (1, 25%), *Chamaecrista absus var. absus* (25%), *Crotalaria verrucosa* (25%), *Cyanthillium cinereum* (25%), *Desmodium muelleri* (25%), *Dipteracanthus australasicus subsp. corynothecus* (25%), *Dysphania carinata* (25%), *Enchylaena tomentosa* (25%), *Euphorbia hyssopifolia\** (25%), *Euphorbia indet.* (25%), *Evolvulus alsinoides var. sericeus* (25%), *Flueggea leucopyrus* (25%), *Galactia tenuiflora* (25%), *Hibiscus indet.* (25%), *Ipomoea indet.* (25%), *Ipomoea polymorpha* (25%), *Jasminum didymum* (25%), *Jasminum didymum subsp. lineare* (25%), *Malvastrum americanum var. americanum\** (1, 25%), *Malvastrum indet.* (1, 25%), *Melhania oblongifolia* (25%), *Murdannia graminea* (25%), *Nyssanthus erecta* (25%), *Parsonia eucalyptophylla* (25%), *Parsonia lanceolata* (25%), *Portulaca oleracea\** (25%), *Portulaca pilosa\** (25%), *Pseuderanthemum variabile* (25%), *Rhynchosia minima var. minima* (25%), *Rostellularia adscendens* (25%), *Rostellularia adscendens var. adscendens* (25%), *Sida spinosa\** (1, 25%), *Waltheria indica* (25%), *Xenostegia tridentata* (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

Semi-evergreen vine thicket on alluvial plains



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 17,722 2,044 12%

Species\_recorded: Total: 135; woody: 88; ground: 55; Avg. spp./site: 61.0; std dev.: 0.8, 3 site(s)

Basal area: Avg./site: 20.7 m<sup>2</sup>/ha, range: 16.0 - 28 m<sup>2</sup>/ha, std. deviation: 5 m<sup>2</sup>/ha, 3 site(s)

Structural formation: Unrecorded: 100%, 3 site(s)

Representative\_sites 30049, 30051, 50494.

**Stratum: Emergent**

Height avg. = 24.3m, range 22-28m, 3 sites  
 Crown cover avg. = 6.7%, range 5.0-10.0%, 3 sites

Dominant species (relative cover, frequency): *Eucalyptus cambageana* (98, 33%), *Eucalyptus tereticornis* (50, 33%), *Acacia harpophylla* (50, 33%), *Terminalia oblongata subsp. oblongata* (25, 33%), *Eucalyptus moluccana* (20, 33%)

Frequent species (cover, frequency): *Brachychiton rupestris* (1, 67%), *Acacia fasciculifera* (2, 33%), *Acacia harpophylla* (2, 33%), *Eucalyptus cambageana* (5, 33%), *Eucalyptus crebra* (3, 33%), *Eucalyptus moluccana* (2, 33%), *Eucalyptus tereticornis* (5, 33%), *Terminalia oblongata subsp. oblongata* (1, 33%)

**Stratum: Tree 1**

Height avg. = 11.0m, range 10-12m, 3 sites  
 Crown cover avg. = 38.3%, range 30.0-50.0%, 3 sites

Dominant species (relative cover, frequency): *Acacia fasciculifera* (34, 67%), *Lysiphyllum hookeri* (20, 33%), *Barklya syringifolia* (14, 33%), *Cryptocarya triplinervis* (14, 33%), *Macropteranthes fitzalanii* (14, 33%)

Frequent species (cover, frequency): *Planchonella cotinifolia* (5, 100%), *Acacia fasciculifera* (13, 67%), *Elatostachys xylocarpa* (3, 67%), *Excoecaria dallachyana* (1, 67%), *Homalium alnifolium* (6, 67%), *Pleiogynium timorense* (3, 67%), *Alectryon connatus* (1, 33%), *Alectryon tomentosus* (1, 33%), *Alstonia constricta* (33%), *Apophyllum anomalum* (33%), *Austrosteenisia blackii var. blackii* (2, 33%), *Barklya syringifolia* (5, 33%), *Bridelia leichhardtii* (1, 33%), *Cissus oblonga* (33%), *Coatesia paniculata* (33%), *Cryptocarya triplinervis* (5, 33%), *Cupaniopsis anacardioides* (3, 33%), *Dinosperma erythrococtum* (33%), *Diospyros australis* (33%), *Diospyros humilis* (4, 33%), *Drypetes deplanchetii* (1, 33%), *Ehretia membranifolia* (3, 33%), *Elaeodendron melanocarpum* (33%), *Erythroxylum sp. (Splityard Creek L.Pedley 5360)* (33%), *Eucalyptus tereticornis* (1, 33%), *Geijera salicifolia* (33%), *Grevillea helmsiae* (33%), *Lysiphyllum hookeri* (6, 33%), *Macropteranthes fitzalanii* (5, 33%), *Melaleuca bracteata* (33%), *Melaleuca trichostachya* (1, 33%), *Melia azedarach* (1, 33%), *Mischocarpus anodontus* (33%), *Owenia venosa* (4, 33%), *Terminalia porphyrocarpa* (1, 33%), *Trophis scandens subsp. scandens* (3, 33%), *Ventilago pubiflora* (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: Tree 2**

Height avg. = 6.5m, range 6-7m, 2 sites

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

*Dominant species (relative cover, frequency):* *Streblus brunonianus* (46, 33%), *Bridelia leichhardtii* (28, 33%), *Homalium alnifolium* (24, 33%), *Erythroxylum sp. (Splityard Creek L.Pedley 5360)* (24, 33%), *Elattostachys xylocarpa* (24, 33%)

*Frequent species (cover, frequency):* *Diospyros humilis* (1, 67%), *Alstonia constricta* (33%), *Antirhea putaminosa* (33%), *Atalaya salicifolia* (33%), *Bouchardatia neurococca* (33%), *Bridelia leichhardtii* (2, 33%), *Capparis arborea* (33%), *Cupaniopsis anacardioides* (1, 33%), *Denhamia bilocularis* (33%), *Dockrillia bowmanii* (33%), *Elattostachys xylocarpa* (2, 33%), *Erythroxylum sp. (Splityard Creek L.Pedley 5360)* (2, 33%), *Homalium alnifolium* (2, 33%), *Mallotus philippensis* (33%), *Sicyos australis* (33%), *Streblus brunonianus* (3, 33%)

**Stratum: Shrub 1**

Height avg. = 2.8m, range 2.5-3.5m, 3 sites

Crown cover avg. = 4.3%, range 3.0-5.0%, 3 sites

*Dominant species (relative cover, frequency):* *Pittosporum spinescens* (67, 33%), *Cryptocarya triplinervis* (45, 33%), *Turraea pubescens* (28, 67%), *Acacia fasciculifera* (18, 33%), *Croton acronychioides* (18, 33%)

*Frequent species (cover, frequency):* *Acalypha eremorum* (67%), *Backhousia kingii* (67%), *Breynia oblongifolia* (67%), *Croton phebaloides* (67%), *Gossia bidwillii* (1, 67%), *Siphonodon australis* (67%), *Triflorensia australis* (67%), *Turraea pubescens* (3, 67%), *Acacia fasciculifera* (1, 33%), *Alchornea ilicifolia* (33%), *Alectryon diversifolius* (33%), *Antirhea putaminosa* (33%), *Baloghia inophylla* (33%), *Bouchardatia neurococca* (33%), *Bridelia leichhardtii* (33%), *Capparis arborea* (33%), *Capparis loranthifolia* (33%), *Carissa ovata* (33%), *Cassia tomentella* (33%), *Claoxylon tenerifolium* (33%), *Clerodendrum floribundum* (33%), *Croton acronychioides* (1, 33%), *Croton insularis* (33%), *Cryptocarya triplinervis* (3, 33%), *Cupaniopsis wadsworthii* (33%), *Denhamia pittosporoides subsp. pittosporoides* (33%), *Diospyros australis* (33%), *Diospyros geminata* (33%), *Diospyros humilis* (33%), *Ehretia membranifolia* (33%), *Elattostachys xylocarpa* (33%), *Everistia vacciniifolia* (33%), *Everistia vacciniifolia var. vacciniifolia* (33%), *Exocarpos latifolius* (33%), *Ficus opposita* (33%), *Flueggea leucopyrus* (33%), *Geijera parviflora* (33%), *Geijera salicifolia* (33%), *Grevillea helmsiae* (33%), *Lysiphillum hookeri* (33%), *Marsdenia lloydii* (33%), *Murraya ovatifoliolata* (33%), *Pittosporum spinescens* (3, 33%), *Psydrax odorata* (33%), *Solanum indet.* (33%), *Strychnos pilosperma* (33%)

**Stratum: Shrub 2**

Height avg. = 1.2m, 1 site

Crown cover avg. = 50.0%, 1 site

*Dominant species (relative cover, frequency):* *Acalypha eremorum* (80, 33%), *Turraea pubescens* (4, 33%), *Solanum stelligerum* (4, 33%), *Murraya ovatifoliolata* (4, 33%), *Diospyros humilis* (4, 33%)

*Frequent species (cover, frequency):* *Acalypha eremorum* (40, 33%), *Antirhea putaminosa* (2, 33%), *Diospyros humilis* (2, 33%), *Murraya ovatifoliolata* (2, 33%), *Plumbago zeylanica* (33%), *Senna barclayana* (33%), *Solanum stelligerum* (2, 33%), *Turraea pubescens* (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. = 0.5m, range 0.4-0.5m, 3 sites

PFC avg. = 30.0%, range 20-45%, 3 sites

*Dominant species (relative cover, frequency): Rivina humilis\** (76, 33%), *Teucrium indet.* (23, 33%), *Solanum stelligerum* (23, 33%), *Paspalidium criniforme* (23, 33%), *Abutilon oxycarpum* (20, 67%)

*Frequent species (cover, frequency): GRAMINOIDS: Aristida gracilipes* (67%), *Cyperus gracilis* (2, 67%), *Eragrostis lacunaria* (67%), *Ancistrachne uncinulata* (33%), *Enteropogon acicularis* (33%), *Enteropogon unispiceus* (33%), *Megathyrsus maximus\** (8, 33%), *Oplismenus aemulus* (33%), *Oplismenus imbecillis* (4, 33%), *Paspalidium criniforme* (5, 33%)

*FORBS: Jasminum didymum subsp. racemosum* (100%), *Sigesbeckia orientalis* (100%), *Abutilon oxycarpum* (5, 67%), *Ageratum houstonianum\** (67%), *Clematicissus opaca* (67%), *Marsdenia pleiadenia* (67%), *Melodorum leichhardtii* (67%), *Oxalis corniculata\** (2, 67%), *Parsonia lanceolata* (67%), *Solanum seaforthianum\** (67%), *Achyranthes aspera* (33%), *Adiantum hispidulum* (33%), *Aristolochia elegans\** (33%), *Breynia oblongifolia* (33%), *Cheilanthes indet.* (33%), *Corchorus indet.* (33%), *Cupaniopsis anacardioides* (1, 33%), *Deeringia amaranthoides* (33%), *Desmodium brachypodum* (33%), *Diplocyclos palmatus subsp. palmatus* (33%), *Einadia nutans* (33%), *Ficus opposita* (33%), *Geitonoplesium cymosum* (33%), *Gomphocarpus physocarpus\** (33%), *Jasminum simplicifolium subsp. australiense* (33%), *Lantana camara\** (33%), *Malvastrum americanum var. americanum\** (4, 33%), *Marsdenia lloydii* (33%), *Nicotiana forsteri* (33%), *Nicotiana indet.* (33%), *Nyssanthes diffusa* (33%), *Nyssanthes erecta* (33%), *Pandorea pandorana* (33%), *Passiflora aurantia var. aurantia* (33%), *Pleogyne australis* (33%), *Pseuderanthemum variabile* (33%), *Rivina humilis\** (35, 33%), *Senna barclayana* (33%), *Sicyos australis* (33%), *Solanum stelligerum* (5, 33%), *Sonchus oleraceus\** (33%), *Teucrium indet.* (5, 33%), *Tinospora smilacina* (33%), *Trophis scandens subsp. scandens* (2, 33%)

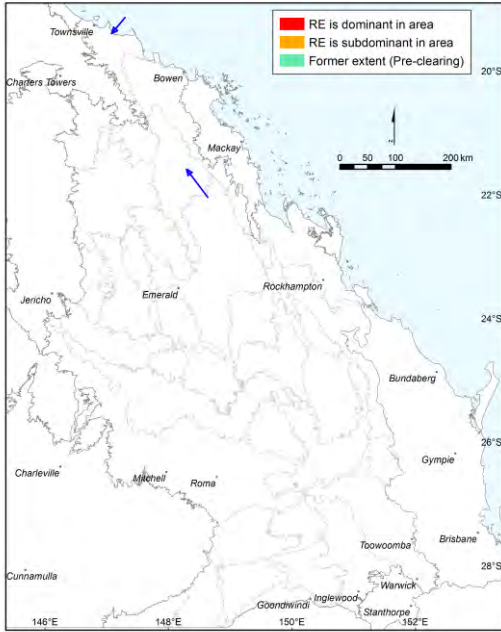
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Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 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

Melaleuca leucadendra, Livistona decora open forest



Pre-clearing area (ha), remnant area (ha) and per cent remaining:    589                    272                    46%

Species\_recorded:        Total: 21; woody: 10; ground: 13; Avg. spp./site: 21.0; std dev.: 0.0, 1 site(s)

Basal area:                Avg./site: 13.5 m<sup>2</sup>/ha, range: 13.5 - 14 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    19052.

**Stratum: Tree 1**

Height avg. = 23.0m, 1 site

Crown cover avg. = 48.0%, 1 site

Dominant species (relative cover, frequency): *Melaleuca leucadendra* (100, 100%)

Frequent species (cover, frequency): *Livistona indet.* (100%), *Melaleuca leucadendra* (48, 100%)

**Stratum: Tree 2**

Height avg. = 14.0m, 1 site

Crown cover avg. = 1.0%, 1 site

Dominant species (relative cover, frequency): *Nauclea orientalis* (50, 100%), *Melaleuca leucadendra* (50, 100%)

Frequent species (cover, frequency): *Melaleuca leucadendra* (100%), *Nauclea orientalis* (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. = 4.0m, 1 site

Crown cover avg. = 3.0%, 1 site

*Dominant species (relative cover, frequency): Pandanus indet. (37, 100%), Cryptostegia grandiflora\* (37, 100%), Terminalia muelleri (4, 100%), Premna serratifolia (4, 100%), Nauclea orientalis (4, 100%)*

*Frequent species (cover, frequency): Cryptostegia grandiflora\* (1, 100%), Cupaniopsis anacardioides (100%), Gymnanthera oblonga (100%), Livistona indet. (100%), Millettia pinnata (100%), Nauclea orientalis (100%), Pandanus indet. (1, 100%), Premna serratifolia (100%), Terminalia muelleri (100%)*

**Stratum: Shrub 2**

Height avg. = 3.0m, 1 site

Crown cover avg. = 1.0%, 1 site

*Dominant species (relative cover, frequency): Melaleuca leucadendra (77, 100%), Premna serratifolia (8, 100%), Pandanus indet. (8, 100%), Livistona indet. (8, 100%)*

*Frequent species (cover, frequency): Livistona indet. (100%), Melaleuca leucadendra (1, 100%), Pandanus indet. (100%), Premna serratifolia (100%)*

**Stratum: Ground**

Height avg. = 2.0m, 1 site

PFC avg. = 46.0%, 1 site

*Dominant species (relative cover, frequency): Poaceae indet. (32, 100%), Hymenachne amplexicaulis 'Olive'\* (32, 100%), Alternanthera ficoidea\* (32, 100%), Cryptostegia grandiflora\* (2, 100%)*

*Frequent species (cover, frequency): GRAMINOIDS: Cyperus alopecuroides (100%), Eriochloa indet. (100%), Hymenachne amplexicaulis 'Olive'\* (15, 100%), Poaceae indet. (15, 100%)*

*FORBS: Achyranthes aspera (100%), Ageratum houstonianum\* (100%), Alternanthera ficoidea\* (15, 100%), Cryptostegia grandiflora\* (1, 100%), Dendrophthoe vitellina (100%), Livistona indet. (100%), Loranthaceae indet. (100%), Trichosanthes subvelutina (100%), Vachellia farnesiana\* (100%)*

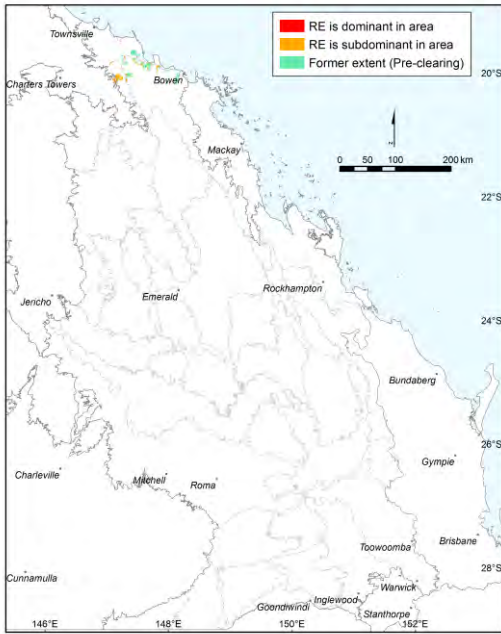
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Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 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

**Grevillea striata open woodland on coastal alluvial plains**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 8,353 3,106 37%

Species\_recorded: Total: 31; woody: 5; ground: 27; Avg. spp./site: 31.0; std dev.: 0.0, 1 site(s)

Basal area: Avg./site: 2.5 m<sup>2</sup>/ha, range: 2.5 - 3 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 19058.

**Stratum: Tree 1**

Height avg. = 12.0m, 1 site

Crown cover avg. = 20.0%, 1 site

Dominant species (relative cover, frequency): *Grevillea striata* (100, 100%)

Frequent species (cover, frequency): *Grevillea striata* (20, 100%)

**Stratum: Tree 2**

Height avg. = 5.0m, 1 site

Crown cover avg. = 2.0%, 1 site

Dominant species (relative cover, frequency): *Grevillea striata* (100, 100%)

Frequent species (cover, frequency): *Grevillea striata* (3, 100%)

**Stratum: Shrub 1**

Height avg. = 1.2m, 1 site

Crown cover avg. = 20.0%, 1 site

Dominant species (relative cover, frequency): *Sida acuta*\* (85, 100%), *Grevillea striata* (9, 100%), *Grewia retusifolia* (4, 100%), *Stylosanthes scabra*\* (1, 100%), *Eucalyptus platyphylla* (1, 100%)

Frequent species (cover, frequency): *Eucalyptus platyphylla* (100%), *Grevillea striata* (1, 100%), *Grewia retusifolia* (1, 100%), *Sida acuta*\* (10, 100%), *Stylosanthes scabra*\* (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. = 0.6m, 1 site

PFC avg. = 25.0%, 1 site

*Dominant species (relative cover, frequency): Bothriochloa pertusa\* (73, 100%), Eragrostis sororia (5, 100%), Asteraceae indet. (4, 100%), Panicum effusum (4, 100%), Gomphrena celosioides\* (2, 100%)*

*Frequent species (cover, frequency): GRAMINOIDS: Aristida spuria (1, 100%), Bothriochloa pertusa\* (20, 100%), Chrysopogon fallax (100%), Cyperus indet. (100%), Enteropogon unispiceus (100%), Eragrostis sororia (2, 100%), Eriachne obtusa (100%), Holcolemma dispar (100%), Panicum effusum (1, 100%), Paspalidium caespitosum (1, 100%), Sporobolus scabridus (100%)*

*FORBS: Asteraceae indet. (1, 100%), Cyanthillium cinereum (1, 100%), Dianella longifolia (100%), Eriocaulon indet. (100%), Euphorbia indet. (100%), Gomphrena celosioides\* (1, 100%), Grewia retusifolia (100%), Indigofera linnaei (100%), Neptunia gracilis (100%), Neptunia monosperma (100%), Ruellia tuberosa\* (100%), Sclerolaena ramulosa (100%), Sida hackettiana (100%), Sida spinosa\* (100%), Spermacoce brachystema (100%), Sphaeromorphaea indet. (100%)*

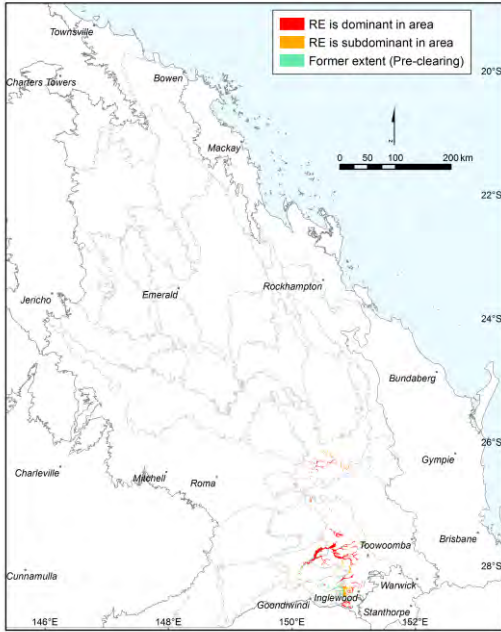
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Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 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 spp., Angophora spp., Callitris spp. woodland on alluvial plains**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 105,673 80,860 77%

Species\_recorded: Total: 136; woody: 32; ground: 116; Avg. spp./site: 32.5; std dev.: 13.2, 6 site(s)

Basal area: Avg./site: 22.3 m<sup>2</sup>/ha, range: 12.0 - 34 m<sup>2</sup>/ha, std. deviation: 7 m<sup>2</sup>/ha, 6 site(s)

Structural formation: Woodland: 33%; open-woodland: 33%; open-forest: 33%, 6 site(s)

Representative\_sites 16710, 16713, 16933, 16952, 40967, 58055.

**Stratum: Emergent**

Height avg. = 18.0m, 1 site

Crown cover avg. = 2.0%, 1 site

Frequent species (cover, frequency): *Angophora leiocarpa* (17%), *Callitris glaucophylla* (17%), *Eucalyptus chloroclada* (2, 17%)

**Stratum: Tree 1**

Height avg. = 19.5m, range 16-23m, 6 sites

Crown cover avg. = 36.0%, range 15.0-69.0%, 6 sites

Dominant species (relative cover, frequency): *Angophora leiocarpa* (70, 50%), *Callitris glaucophylla* (48, 50%), *Allocasuarina luehmannii* (38, 33%), *Eucalyptus chloroclada* (17, 67%)

Frequent species (cover, frequency): *Eucalyptus chloroclada* (8, 67%), *Angophora leiocarpa* (13, 50%), *Callitris glaucophylla* (18, 50%), *Allocasuarina luehmannii* (24, 33%), *Angophora floribunda* (5, 17%), *Callitris glaucophylla* x *C. verrucosa* (25, 17%), *Melaleuca decora* (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: Tree 2**

Height avg. = 10.1m, range 2.5-15m, 5 sites

Crown cover avg. = 16.0%, range 5.0-30.0%, 5 sites

Dominant species (relative cover, frequency): *Callitris glaucophylla* x *C. verrucosa* (74, 50%), *Callitris glaucophylla* (33, 33%), *Eucalyptus chloroclada* (26, 50%), *Allocasuarina luehmannii* (22, 33%), *Angophora leiocarpa* (13, 33%)

Frequent species (cover, frequency): *Callitris glaucophylla* x *C. verrucosa* (17, 50%), *Eucalyptus chloroclada* (4, 50%), *Allocasuarina luehmannii* (3, 33%), *Angophora leiocarpa* (3, 33%), *Callitris glaucophylla* (4, 33%), *Jacksonia scoparia* (33%), *Angophora floribunda* (1, 17%), *Banksia integrifolia* (1, 17%), *Melaleuca decora* (1, 17%)

**Stratum: Shrub 1**

Height avg. = 2.0m, range 1-4m, 6 sites

Crown cover avg. = 8.5%, range 3.0-15.0%, 6 sites

Dominant species (relative cover, frequency): *Acacia conferta* (55, 50%), *Acacia neriifolia* (35, 33%), *Leucopogon biflorus* (15, 50%), *Xylomelum cunninghamianum* (14, 33%), *Melichrus urceolatus* (12, 33%)

Frequent species (cover, frequency): *Acacia conferta* (4, 50%), *Leucopogon biflorus* (1, 50%), *Acacia neriifolia* (3, 33%), *Jacksonia scoparia* (33%), *Melichrus urceolatus* (1, 33%), *Styphelia viridis* subsp. *breviflora* (33%), *Xylomelum cunninghamianum* (1, 33%), *Acacia polybotrya* (17%), *Acacia spectabilis* (1, 17%), *Allocasuarina littoralis* (17%), *Allocasuarina luehmannii* (2, 17%), *Brachychiton populneus* subsp. *populneus* (17%), *Callitris glaucophylla* (17%), *Callitris glaucophylla* x *C. verrucosa* (3, 17%), *Calytrix longiflora* (1, 17%), *Eucalyptus chloroclada* (17%), *Grevillea floribunda* subsp. *floribunda* (1, 17%), *Leptospermum polygalifolium* (17%), *Melichrus adpressus* (17%), *Opuntia tomentosa*\* (17%), *Persoonia cornifolia* (1, 17%), *Petalostigma pubescens* (2, 17%)

**Stratum: Shrub 2**

Height avg. = 1.5m, 1 site

Crown cover avg. = 21.0%, 1 site

Frequent species (cover, frequency): *Banksia integrifolia* subsp. *compar* (17%), *Boronia glabra* (1, 17%), *Brachyscome multifida* (2, 17%), *Calytrix longiflora* (2, 17%), *Dodonaea peduncularis* (17%), *Jacksonia scoparia* (17%), *Leucopogon biflorus* (1, 17%), *Leucopogon muticus* (15, 17%), *Styphelia viridis* (1, 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. = 0.6m, range 0.2-1m, 6 sites

PFC avg. = 39.5%, range 30-62%, 6 sites

*Dominant species (relative cover, frequency): Imperata cylindrica (46, 33%), Aristida personata (24, 33%), Eulalia aurea (19, 33%), Eragrostis spartinooides (18, 33%), Chrysocephalum apiculatum (11, 33%)*

*Frequent species (cover, frequency): GRAMINOIDS: Cymbopogon refractus (2, 83%), Aristida caput-medusae (50%), Fimbristylis dichotoma (2, 50%), Panicum effusum (50%), Aristida holathera var. holathera (1, 33%), Aristida jerichoensis var. jerichoensis (1, 33%), Aristida personata (11, 33%), Dinebra decipiens (33%), Eragrostis lacunaria (2, 33%), Eragrostis spartinooides (9, 33%), Eremochloa bimaculata (33%), Eulalia aurea (5, 33%), Imperata cylindrica (14, 33%), Aristida jerichoensis (5, 17%), Aristida leichhardtiana (5, 17%), Aristida muricata (2, 17%), Aristida queenslandica var. dissimilis (4, 17%), Aristida ramosa (17%), Arundinella nepalensis (17%), Bulbostylis barbata (17%), Cenchrus ciliaris\* (17%), Chrysopogon fallax (17%), Cyperus bifax (17%), Cyperus leiocaulon (8, 17%), Cyperus polystachyos (17%), Digitaria parviflora (17%), Enneapogon polyphyllus (17%), Eragrostis brownii (8, 17%), Eragrostis curvula\* (2, 17%), Eragrostis parviflora (17%), Juncus indet. (17%), Megathyrsus maximus\* (2, 17%), Paspalidium distans (17%), Rytidosperma tenuius (17%), Schizachyrium fragile (17%), Schizachyrium indet. (17%), Sporobolus indet. (5, 17%), Sporobolus mitchellii (17%), Themeda triandra (17%), Triraphis mollis (17%), Vulpia myuros\* (17%)*

*FORBS: Cyanthillium cinereum (50%), Cheilanthes sieberi subsp. sieberi (1, 33%), Chrysocephalum apiculatum (4, 33%), Dianella revoluta (33%), Laxmannia gracilis (1, 33%), Leucopogon biflorus (1, 33%), Lomandra multiflora subsp. multiflora (1, 33%), Melichrus adpressus (33%), Vittadinia pustulata (33%), Wahlenbergia indet. (33%), Acacia conferta (17%), Acacia deanei (17%), Acacia polybotrya (17%), Ajuga australis (17%), Angophora leiocarpa (17%), Brachyloma daphnoides (2, 17%), Brachyscome multifida (17%), Brunoniella australis (17%), Callitris glaucophylla x C. verrucosa (17%), Calotis cuneifolia (8, 17%), Calotis indet. (17%), Cassytha indet. (17%), Cheilanthes distans (3, 17%), Cheilanthes sieberi (3, 17%), Commelina diffusa (17%), Desmodium indet. (17%), Desmodium varians (17%), Dianella indet. (17%), Dianella longifolia (1, 17%), Dodonaea peduncularis (17%), Einadia nutans (17%), Einadia nutans subsp. linifolia (17%), Erigeron bonariensis\* (1, 17%), Erigeron canadensis\* (17%), Evolvulus alsinoides (17%), Glossocardia bidens (17%), Gompholobium foliolosum (17%), Goodenia glauca (17%), Goodenia hederacea (5, 17%), Harrisia martinii\* (17%), Hibbertia linearis var. obtusifolia (2, 17%), Hibbertia stricta (17%), Hypericum gramineum (17%), Leucopogon muticus (8, 17%), Lomandra indet. (17%), Lomandra laxa (17%), Lomandra leucocephala (17%), Lomandra leucocephala subsp. leucocephala (1, 17%), Lomandra longifolia (17%), Melichrus urceolatus (2, 17%), Opuntia stricta\* (17%), Opuntia tomentosa\* (17%), Oxalis radicata (17%), Patersonia glabrata (17%), Phyllanthus virgatus (1, 17%), Pimelea linifolia (17%), Platysace ericoides (1, 17%), Pomax umbellata (17%), Portulaca oleracea\* (17%), Ptilotus obovatus (1, 17%), Rhagodia spinescens (17%), Ricinocarpos linearifolius (17%), Rostellularia adscendens (3, 17%), Sauropus hirtellus (17%), Senecio pinnatifolius (17%), Sigesbeckia orientalis (17%), Solanum ellipticum (17%), Solanum esuriale (17%), Solanum nigrum subsp. nigrum\* (17%), Solanum nodiflorum\* (17%), Sphaeromorphaea indet. (17%), Styphelia viridis subsp. breviflora (17%), Vigna lanceolata (17%), Vittadinia sulcata (17%), Wahlenbergia gracilis (1, 17%)*

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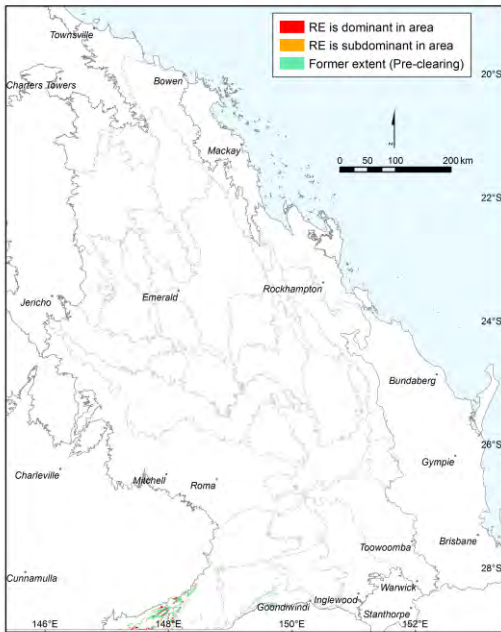
Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive 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 coolabah, Acacia stenophylla, Duma florulenta fringing open woodland on alluvial plains**



John Neldner

**Pre-clearing area (ha), remnant area (ha) and per cent remaining:** 89,595 23,868 27%

**Species\_recorded:** Total: 44; woody: 6; ground: 39; Avg. spp./site: 17.0; std dev.: 3.7, 3 site(s)

**Basal area:** Avg./site: 11.0 m<sup>2</sup>/ha, range: 7.0 - 15 m<sup>2</sup>/ha, std. deviation: 3 m<sup>2</sup>/ha, 4 site(s)

**Structural formation:** Open-woodland: 75%; woodland: 25%, 4 site(s)

**Representative\_sites** 16846, 17107, 17114, 17115.

**Stratum: Tree 1**

**Height avg. = 13.3m, range 11-18m, 4 sites**

**Crown cover avg. = 13.8%, range 10.0-15.0%, 4 sites**

*Dominant species (relative cover, frequency): Eucalyptus coolabah (97, 100%), Acacia harpophylla (13, 25%)*

*Frequent species (cover, frequency): Eucalyptus coolabah (15, 100%), Acacia harpophylla (2, 25%)*

**Stratum: Tree 2**

**Height avg. = 5.3m, range 4-7m, 4 sites**

**Crown cover avg. = 15.0%, range 5.0-40.0%, 4 sites**

*Dominant species (relative cover, frequency): Acacia stenophylla (99, 75%), Melaleuca bracteata (90, 25%), Eucalyptus coolabah (5, 50%), Eremophila bignoniiflora (2, 25%)*

*Frequent species (cover, frequency): Acacia stenophylla (17, 75%), Eucalyptus coolabah (1, 50%), Eremophila bignoniiflora (25%), Melaleuca bracteata (9, 25%)*

**Stratum: Shrub 1**

**Height avg. = 2.0m, range 1-3m, 2 sites**

**Crown cover avg. = 5.5%, range 1.0-10.0%, 2 sites**

*Dominant species (relative cover, frequency): Duma florulenta (95, 25%), Eremophila bignoniiflora (52, 50%)*

*Frequent species (cover, frequency): Eremophila bignoniiflora (1, 50%), Duma florulenta (10, 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 0.4-0.8m, 3 sites

PFC avg. = 38.3%, range 20-60%, 3 sites

*Dominant species (relative cover, frequency):* *Duma florulenta* (47, 67%), *Calotis scapigera* (28, 33%), *Cyperus indet.* (19, 67%), *Paspalidium jubiflorum* (15, 67%), *Eriochloa crebra* (15, 67%)

*Frequent species (cover, frequency):* GRAMINOIDS: *Cyperus indet.* (4, 67%), *Eriochloa crebra* (8, 67%), *Panicum decompositum* var. *tenuius* (1, 67%), *Paspalidium jubiflorum* (8, 67%), *Sporobolus mitchellii* (3, 67%), *Bothriochloa bladhii* (1, 33%), *Cyperaceae indet.* (2, 33%), *Juncus usitatus* (1, 33%), *Paspalidium gracile* (1, 33%), *Sporobolus caroli* (33%)

FORBS: *Duma florulenta* (20, 67%), *Einadia nutans* subsp. *linifolia* (3, 67%), *Euphorbia indet.* (1, 67%), *Marsilea drummondii* (1, 67%), *Asperula conferta* (1, 33%), *Boerhavia dominii* (1, 33%), *Calotis scapigera* (10, 33%), *Crinum flaccidum* (1, 33%), *Cyanthillium cinereum* (1, 33%), *Euphorbia drummondii* (1, 33%), *Glycine tabacina* (1, 33%), *Goodenia indet.* (1, 33%), *Laxmannia gracilis* (1, 33%), *Lobelia purpurascens* (1, 33%), *Minuria integerrima* (1, 33%), *Oxalis indet.* (1, 33%), *Phyllanthus virgatus* (1, 33%), *Polymeria pusilla* (1, 33%), *Sclerolaena muricata* var. *muricata* (1, 33%), *Sonchus oleraceus\** (1, 33%), *Verbena indet.* (1, 33%), *Wahlenbergia communis* (1, 33%)

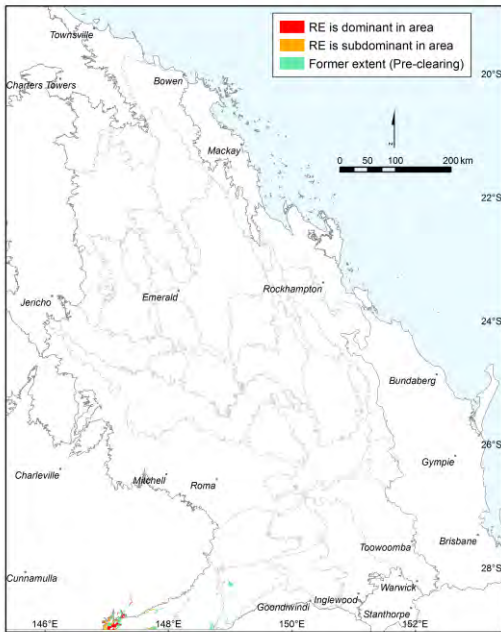
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**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with 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 largiflorens +/- Acacia cambagei +/- A. harpophylla woodland to low open woodland on alluvial plains**



John Neldner

**Pre-clearing area (ha), remnant area (ha) and per cent remaining:** 36,672 14,706 40%

**Species recorded:** Total: 95; woody: 19; ground: 76; Avg. spp./site: 32.0; std dev.: 7.4, 4 site(s)

**Basal area:** Avg./site: 14.9 m<sup>2</sup>/ha, range: 7.5 - 23 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** 17099, 17100, 17126, 28889.

**Stratum: Tree 1**

**Height avg. = 11.3m, range 10-13m, 4 sites**  
**Crown cover avg. = 31.0%, range 12.0-65.0%, 4 sites**

*Dominant species (relative cover, frequency):* *Acacia harpophylla* (60, 25%), *Eucalyptus largiflorens* (56, 100%), *Acacia cambagei* (20, 25%), *Eucalyptus coolabah* (20, 50%), *Eucalyptus populnea* (19, 50%)

*Frequent species (cover, frequency):* *Eucalyptus largiflorens* (19, 100%), *Eucalyptus coolabah* (4, 50%), *Eucalyptus populnea* (8, 50%), *Acacia cambagei* (5, 25%), *Acacia excelsa subsp. angusta* (5, 25%), *Acacia harpophylla* (15, 25%), *Corymbia tessellaris* (2, 25%)

**Stratum: Tree 2**

**Height avg. = 6.5m, range 4.5-8m, 3 sites**  
**Crown cover avg. = 4.0%, range 1.0-9.0%, 3 sites**

*Dominant species (relative cover, frequency):* *Casuarina cristata* (100, 25%), *Callitris glaucophylla* (100, 25%), *Citrus glauca* (70, 25%), *Eremophila mitchellii* (21, 25%), *Acacia excelsa subsp. angusta* (7, 25%)

*Frequent species (cover, frequency):* *Acacia excelsa subsp. angusta* (1, 25%), *Callitris glaucophylla* (1, 25%), *Casuarina cristata* (2, 25%), *Citrus glauca* (5, 25%), *Eremophila mitchellii* (2, 25%), *Geijera parviflora* (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 3**

Height avg. = 4.0m, range 4-4m, 2 sites

Crown cover avg. = 3.0%, range 1.0-5.0%, 2 sites

Dominant species (relative cover, frequency): *Eremophila mitchellii* (77, 25%), *Eremophila bignoniiflora* (50, 25%), *Acacia stenophylla* (50, 25%), *Psyrdrax oleifolia* (8, 25%), *Geijera parviflora* (8, 25%)

Frequent species (cover, frequency): *Acacia stenophylla* (25%), *Atalaya hemiglauca* (1, 25%), *Eremophila bignoniiflora* (25%), *Eremophila mitchellii* (5, 25%), *Geijera parviflora* (1, 25%), *Psyrdrax oleifolia* (1, 25%)

**Stratum: Shrub 1**

Height avg. = 1.5m, range 1-2m, 3 sites

Crown cover avg. = 5.3%, range 1.0-10.0%, 3 sites

Dominant species (relative cover, frequency): *Duma florulenta* (100, 25%), *Eremophila mitchellii* (62, 50%), *Myoporum acuminatum* (25, 25%), *Geijera parviflora* (25, 25%), *Callitris glaucophylla* (25, 25%)

Frequent species (cover, frequency): *Eremophila mitchellii* (5, 50%), *Callitris glaucophylla* (1, 25%), *Duma florulenta* (5, 25%), *Eremophila deserti* (25%), *Geijera parviflora* (1, 25%), *Myoporum acuminatum* (1, 25%)

**Stratum: Ground**

Height avg. = 0.6m, range 0.5-0.6m, 4 sites

PFC avg. = 37.5%, range 10-60%, 4 sites

Dominant species (relative cover, frequency): *Aristida ramosa* (33, 25%), *Aristida jerichoensis* (33, 25%), *Chloris divaricata* (26, 25%), *Dinebra decipiens* (23, 25%), *Sporobolus creber* (23, 25%)

Frequent species (cover, frequency): GRAMINOIDS: *Eragrostis lacunaria* (1, 100%), *Enteropogon acicularis* (1, 75%), *Sporobolus caroli* (1, 75%), *Cenchrus ciliaris*\* (1, 50%), *Chloris ventricosa* (1, 50%), *Paspalidium constrictum* (1, 50%), *Ancistrachne uncinata* (1, 25%), *Aristida caput-medusae* (25%), *Aristida jerichoensis* (10, 25%), *Aristida ramosa* (20, 25%), *Austrostipa scabra* (5, 25%), *Bothriochloa decipiens* (25%), *Bothriochloa decipiens* var. *decipiens* (10, 25%), *Chloris divaricata* (8, 25%), *Chloris truncata* (5, 25%), *Cyperus gracilis* (5, 25%), *Cyperus indet.* (2, 25%), *Dichanthium sericeum* (5, 25%), *Dinebra decipiens* (15, 25%), *Enneapogon gracilis* (10, 25%), *Eriochloa procera* (5, 25%), *Panicum buncei* (5, 25%), *Panicum decompositum* (1, 25%), *Paspalidium indet.* (1, 25%), *Sporobolus australasicus* (25%), *Sporobolus creber* (15, 25%)

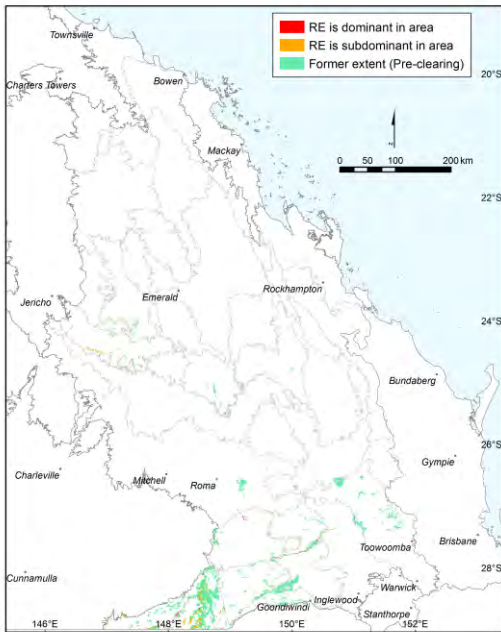
FORBS: *Boerhavia dominii* (75%), *Calotis cuneata* (75%), *Enchylaena tomentosa* (1, 75%), *Brunoniella australis* (1, 50%), *Crinum flaccidum* (50%), *Dendrophthoe glabrescens* (50%), *Einadia nutans* subsp. *linifolia* (1, 50%), *Nyssanthes erecta* (50%), *Opuntia aurantiaca*\* (1, 50%), *Rhagodia spinescens* (1, 50%), *Sclerolaena birchii* (50%), *Sida* sp. (Musselbrook M.B.Thomas+MRS437) (1, 50%), *Abutilon malvifolium* (1, 25%), *Abutilon oxycarpum* (25%), *Abutilon oxycarpum* var. *subsagittatum* (25%), *Asperula conferta* (1, 25%), *Bidens pilosa*\* (1, 25%), *Chrysocephalum apiculatum* (1, 25%), *Cyanthillium cinereum* (1, 25%), *Dissocarpus paradoxus* (25%), *Evolvulus alsinoides* var. *villosicalyx* (1, 25%), *Glandularia aristigera*\* (25%), *Glycine indet.* (25%), *Gomphrena celosioides*\* (1, 25%), *Hibiscus sturtii* (1, 25%), *Lomandra multiflora* subsp. *multiflora* (25%), *Maireana brevifolia* (25%), *Maireana decalvans* (1, 25%), *Maireana indet.* (25%), *Maireana microphylla* (25%), *Maireana triptera* (25%), *Malvastrum americanum* var. *americanum*\* (1, 25%), *Malvastrum indet.* (1, 25%), *Marsilea drummondii* (1, 25%), *Neptunia gracilis* (1, 25%), *Oxalis indet.* (1, 25%), *Phyllanthus indet.* (1, 25%), *Polymeria pusilla* (1, 25%), *Portulaca pilosa*\* (25%), *Rostellularia adscendens* var. *hispidata* (1, 25%), *Salsola australis* (2, 25%), *Sclerolaena bicornis* var. *horrida* (25%), *Sclerolaena cuneata* (2, 25%), *Sclerolaena tetracuspis* (1, 25%), *Sida indet.* (25%), *Solanum esuriale* (1, 25%), *Solanum tetrahectum* (25%), *Stemodia glabella* (1, 25%), *Vittadinia sulcata* (1, 25%), *Wahlenbergia communis* (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 populnea woodland with Acacia harpophylla and/or Casuarina cristata on alluvial plains**



Annie Kelly

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 259,439 34,403 13%

Species\_recorded: Total: 72; woody: 13; ground: 59; Avg. spp./site: 31.0; std dev.: 2.2, 3 site(s)

Basal area: Avg./site: 10.7 m<sup>2</sup>/ha, range: 7.0 - 14 m<sup>2</sup>/ha, std. deviation: 3 m<sup>2</sup>/ha, 3 site(s)

Structural formation: Open-woodland: 67%; low woodland: 33%, 3 site(s)

Representative\_sites 16715, 16774, 17108.

**Stratum: Emergent**

Height avg. = 12.0m, 1 site

Crown cover avg. = 1.0%, 1 site

Dominant species (relative cover, frequency): *Eucalyptus populnea* (100, 33%)

Frequent species (cover, frequency): *Eucalyptus populnea* (33%)

**Stratum: Tree 1**

Height avg. = 14.7m, range 9-19m, 3 sites

Crown cover avg. = 21.0%, range 13.0-34.0%, 3 sites

Dominant species (relative cover, frequency): *Casuarina cristata* (69, 33%), *Eucalyptus populnea* (61, 100%), *Acacia harpophylla* (41, 33%), *Eucalyptus coolabah* (6, 33%)

Frequent species (cover, frequency): *Eucalyptus populnea* (13, 100%), *Acacia harpophylla* (14, 33%), *Casuarina cristata* (9, 33%), *Eucalyptus coolabah* (1, 33%)

**Stratum: Tree 2**

Height avg. = 7.5m, range 7-8m, 2 sites

Crown cover avg. = 13.5%, range 2.0-25.0%, 2 sites

Dominant species (relative cover, frequency): *Eremophila mitchellii* (58, 67%), *Casuarina cristata* (25, 67%), *Geijera parviflora* (10, 67%), *Eucalyptus populnea* (8, 33%), *Opuntia tomentosa\** (4, 33%)

Frequent species (cover, frequency): *Casuarina cristata* (6, 67%), *Eremophila mitchellii* (9, 67%), *Geijera parviflora* (2, 67%), *Alectryon oleifolius subsp. elongatus* (33%), *Eucalyptus populnea* (2, 33%), *Opuntia tomentosa\** (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: Tree 3**

Height avg. = 3.0m, 1 site

Crown cover avg. = 10.0%, 1 site

Dominant species (relative cover, frequency): *Casuarina cristata* (100, 33%)

Frequent species (cover, frequency): *Casuarina cristata* (33%)

**Stratum: Shrub 1**

Height avg. = 4.0m, range 3-5m, 2 sites

Crown cover avg. = 14.0%, range 8.0-20.0%, 2 sites

Dominant species (relative cover, frequency): *Eremophila mitchellii* (57, 67%), *Acacia harpophylla* (37, 33%), *Geijera parviflora* (15, 67%), *Casuarina cristata* (14, 33%), *Grevillea parallela* (2, 33%)

Frequent species (cover, frequency): *Eremophila mitchellii* (8, 67%), *Geijera parviflora* (1, 67%), *Acacia harpophylla* (8, 33%), *Alstonia constricta* (33%), *Atalaya hemiglauca* (33%), *Casuarina cristata* (1, 33%), *Eucalyptus populnea* (33%), *Flindersia dissosperma* (1, 33%), *Grevillea parallela* (1, 33%)

**Stratum: Shrub 2**

Height avg. = 2.0m, 1 site

Crown cover avg. = 30.0%, 1 site

Dominant species (relative cover, frequency): *Eremophila mitchellii* (71, 33%), *Brachychiton populneus subsp. trilobus* (14, 33%), *Acacia harpophylla* (14, 33%)

Frequent species (cover, frequency): *Acacia harpophylla* (33%), *Brachychiton populneus subsp. trilobus* (33%), *Eremophila mitchellii* (1, 33%)

**Stratum: Ground**

Height avg. = 0.4m, range 0.3-0.5m, 3 sites

PFC avg. = 41.7%, range 30-60%, 3 sites

Dominant species (relative cover, frequency): *Aristida echinata* (35, 33%), *Paspalidium caespitosum* (27, 33%), *Ancistrachne uncinulata* (16, 67%), *Eragrostis setifolia* (13, 33%), *Chloris ventricosa* (12, 67%)

Frequent species (cover, frequency): GRAMINOIDS: *Cyperus gracilis* (2, 100%), *Sporobolus caroli* (2, 100%), *Ancistrachne uncinulata* (10, 67%), *Aristida ramosa* (1, 67%), *Cenchrus ciliaris\** (3, 67%), *Chloris divaricata* (2, 67%), *Chloris ventricosa* (7, 67%), *Enteropogon acicularis* (2, 67%), *Eragrostis lacunaria* (2, 67%), *Panicum effusum* (1, 67%), *Aristida caput-medusae* (1, 33%), *Aristida echinata* (15, 33%), *Bothriochloa indet.* (1, 33%), *Capillipedium spicigerum* (2, 33%), *Cymbopogon refractus* (33%), *Digitaria brownii* (33%), *Dinebra decipiens var. decipiens* (1, 33%), *Enneapogon avenaceus* (2, 33%), *Eragrostis setifolia* (8, 33%), *Megathyrsus maximus var. maximus\** (33%), *Panicum decompositum var. tenuius* (1, 33%), *Paspalidium caespitosum* (5, 33%), *Paspalidium constrictum* (5, 33%), *Sporobolus creber* (33%), *Sporobolus mitchellii* (33%), *Sporobolus scabridus* (1, 33%), *Tripogon loliiformis* (2, 33%), *Urochloa foliosa* (33%)

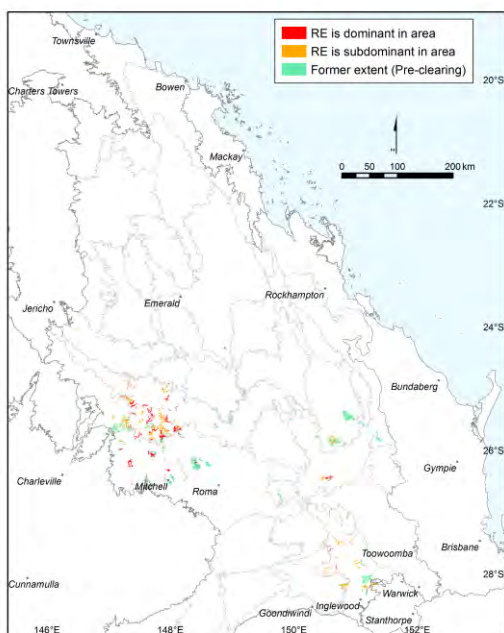
FORBS: *Maireana microphylla* (67%), *Vittadinia sulcata* (67%), *Abutilon oxycarpum* (33%), *Abutilon oxycarpum var. subsagittatum* (1, 33%), *Achyranthes aspera* (33%), *Alternanthera nana* (33%), *Brunonia australis* (1, 33%), *Capparis lasiantha* (1, 33%), *Carissa ovata* (33%), *Chrysocephalum apiculatum* (1, 33%), *Citrus glauca* (33%), *Cyanthillium cinereum* (33%), *Einadia nutans subsp. nutans* (33%), *Enchylaena tomentosa* (33%), *Evolvulus alsinoides* (1, 33%), *Glycine tomentella* (1, 33%), *Goodenia glabra* (33%), *Hibiscus sturtii* (1, 33%), *Jasminum didymum subsp. racemosum* (3, 33%), *Malvastrum americanum var. americanum\** (33%), *Nyssanthes erecta* (33%), *Oxalis indet.* (1, 33%), *Peripleura hispidula var. setosa* (2, 33%), *Pterocaulon indet.* (1, 33%), *Sclerolaena birchii* (1, 33%), *Sclerolaena muricata* (1, 33%), *Sclerolaena tetracuspis* (33%), *Sida everistiana* (1, 33%), *Sida hackettiana* (33%), *Sida sp.* (*Charters Towers E.J.Thompson+ CHA456*) (2, 33%), *Solanum ellipticum* (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

**Eucalyptus populnea, Callitris glaucophylla, Allocasuarina luehmannii shrubby woodland on alluvium**



**Pre-clearing area (ha), remnant area (ha) and per cent remaining: 141,018 79,672 56%**  
**Species\_recorded: Total: 104; woody: 20; ground: 89; Avg. spp./site: 57.5; std dev.: 9.5, 2 site(s)**  
**Basal area: Avg./site: 14.3 m<sup>2</sup>/ha, range: 12.5 - 16 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 16720, 40991.**

**Stratum: Tree 1**

**Height avg. = 17.0m, range 16-18m, 2 sites**  
**Crown cover avg. = 50.5%, range 48.0-53.0%, 2 sites**

*Dominant species (relative cover, frequency): Eucalyptus crebra (76, 50%), Callitris glaucophylla (58, 100%), Eucalyptus populnea (8, 50%)*

*Frequent species (cover, frequency): Callitris glaucophylla (28, 100%), Cymbidium canaliculatum (50%), Eucalyptus crebra (41, 50%), Eucalyptus populnea (4, 50%)*

**Stratum: Tree 2**

**Height avg. = 8.0m, range 7-9m, 2 sites**  
**Crown cover avg. = 20.5%, range 10.0-31.0%, 2 sites**

*Dominant species (relative cover, frequency): Allocasuarina luehmannii (49, 100%), Callitris glaucophylla (25, 100%), Corymbia clarksoniana (22, 50%), Acacia neriifolia (19, 50%), Eucalyptus populnea (11, 50%)*

*Frequent species (cover, frequency): Allocasuarina luehmannii (13, 100%), Callitris glaucophylla (3, 100%), Acacia neriifolia (6, 50%), Corymbia clarksoniana (2, 50%), Eucalyptus crebra (50%), Eucalyptus populnea (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. = 1.9m, range 1.3-2.5m, 2 sites

Crown cover avg. = 9.5%, range 8.0-11.0%, 2 sites

Dominant species (relative cover, frequency): *Geijera parviflora* (58, 50%), *Acacia conferta* (52, 50%), *Acacia neriifolia* (21, 50%), *Eucalyptus crebra* (10, 50%), *Allocasuarina luehmannii* (10, 100%)

Frequent species (cover, frequency): *Ancistrachne uncinulata* (1, 50%), *Allocasuarina luehmannii* (1, 100%), *Acacia conferta* (6, 50%), *Acacia crassa* (50%), *Acacia neriifolia* (3, 50%), *Alphitonia excelsa* (50%), *Callitris glaucophylla* (1, 50%), *Capparis mitchellii* (1, 50%), *Citrus glauca* (50%), *Cryptandra longistaminea* (50%), *Denhamia cunninghamii* (50%), *Dodonaea triquetra* (50%), *Eucalyptus crebra* (1, 50%), *Geijera parviflora* (6, 50%), *Opuntia stricta*\* (50%), *Pimelea neoanglica* (50%), *Styphelia viridis* subsp. *breviflora* (50%)

**Stratum: Ground**

Height avg. = 0.5m, range 0.4-0.5m, 2 sites

PFC avg. = 71.0%, range 60-82%, 2 sites

Dominant species (relative cover, frequency): *Sigesbeckia orientalis* (21, 50%), *Gahnia aspera* (20, 50%), *Eragrostis curvula*\* (17, 50%), *Calotis cuneata* (14, 50%), *Aristida caput-medusae* (11, 50%)

Frequent species (cover, frequency): GRAMINOIDS: *Ancistrachne uncinulata* (1, 100%), *Austrostipa verticillata* (1, 100%), *Cymbopogon refractus* (1, 100%), *Dinebra decipiens* (3, 100%), *Panicum effusum* (1, 100%), *Aristida caput-medusae* (5, 50%), *Aristida indet.* (5, 50%), *Aristida personata* (50%), *Bothriochloa decipiens* (5, 50%), *Chloris ventricosa* (2, 50%), *Chrysopogon fallax* (50%), *Cyperus fulvus* (1, 50%), *Cyperus leiocaulon* (50%), *Digitaria brownii* (1, 50%), *Digitaria minima* (50%), *Digitaria parviflora* (1, 50%), *Enneapogon avenaceus* (1, 50%), *Enneapogon lindleyanus* (2, 50%), *Eragrostis curvula*\* (14, 50%), *Eragrostis sororia* (1, 50%), *Eriochloa procera* (50%), *Fimbristylis dichotoma* (50%), *Fimbristylis indet.* (1, 50%), *Gahnia aspera* (17, 50%), *Lepidosperma laterale* (50%), *Paspalidium albobillosum* (50%), *Paspalidium caespitosum* (1, 50%), *Paspalidium indet.* (1, 50%), *Rytidosperma indet.* (50%), *Scleria mackaviensis* (1, 50%), *Sporobolus creber* (50%), *Themeda triandra* (1, 50%), *Tragus australianus* (1, 50%), *Urochloa indet.* (2, 50%)

FORBS: *Brunoniella australis* (1, 100%), *Chrysocephalum apiculatum* (100%), *Dodonaea viscosa* (100%), *Glycine tabacina* (1, 100%), *Acacia crassa* (50%), *Acacia neriifolia* (1, 50%), *Alphitonia excelsa* (50%), *Alternanthera denticulata* (50%), *Anisomeles indet.* (50%), *Brachyscome microcarpa* (50%), *Brachyscome multifida* (50%), *Calotis cuneata* (11, 50%), *Calotis cuneifolia* (1, 50%), *Calotis lappulacea* (50%), *Cassinia laevis* (50%), *Cheilanthes distans* (50%), *Cheilanthes sieberi* (7, 50%), *Cheilanthes sieberi* subsp. *sieberi* (2, 50%), *Cryptandra amara* (50%), *Cryptandra armata* (50%), *Cullen tenax* (50%), *Cyanthillium cinereum* (1, 50%), *Desmodium brachypodum* (50%), *Desmodium varians* (50%), *Dichondra repens* (50%), *Dodonaea peduncularis* (2, 50%), *Dysphania melanocarpa* forma *melanocarpa* (50%), *Eremophila debilis* (1, 50%), *Erigeron canadensis*\* (50%), *Evolvulus alsinoides* (50%), *Hibiscus sturtii* (50%), *Hydrocotyle acutiloba* (50%), *Jacksonia scoparia* (50%), *Jasminum didymum* subsp. *racemosum* (50%), *Lomandra indet.* (50%), *Lomandra longifolia* (50%), *Lomandra multiflora* subsp. *multiflora* (50%), *Nyssanthus erecta* (1, 50%), *Opuntia tomentosa*\* (50%), *Parsonia eucalyptophylla* (50%), *Phyllanthus virgatus* (50%), *Plantago debilis* (50%), *Rostellularia adscendens* (50%), *Senecio pinnatifolius* var. *pinnatifolius* (50%), *Sida hackettiana* (50%), *Sigesbeckia orientalis* (17, 50%), *Solanum ellipticum* (50%), *Solanum parvifolium* subsp. *parvifolium* (1, 50%), *Sonchus oleraceus*\* (50%), *Styphelia viridis* subsp. *breviflora* (50%), *Swainsona queenslandica* (50%), *Tephrosia indet.* (50%), *Vittadinia sulcata* (50%), *Vittadinia tenuissima* (50%)

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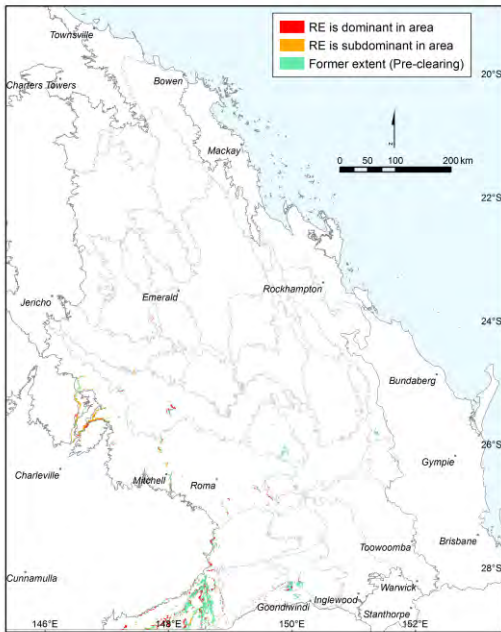
Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive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



**Callitris glaucophylla, Corymbia spp. and/or Eucalyptus melanophloia open forest to woodland on Cainozoic alluvial plains**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 237,954 91,925 39%

Species\_recorded: Total: 119; woody: 18; ground: 113; Avg. spp./site: 41.3; std dev.: 6.1, 4 site(s)

Basal area: Avg./site: 16.0 m<sup>2</sup>/ha, range: 15.0 - 18 m<sup>2</sup>/ha, std. deviation: 1 m<sup>2</sup>/ha, 4 site(s)

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

Representative\_sites 16719, 16759, 17091, 17102.

**Stratum: Emergent**

Height avg. = 20.0m, 1 site

Crown cover avg. = 1.0%, 1 site

Dominant species (relative cover, frequency): *Eucalyptus populnea* (100, 25%)

Frequent species (cover, frequency): *Eucalyptus populnea* (1, 25%)

**Stratum: Tree 1**

Height avg. = 14.5m, range 11-18m, 4 sites

Crown cover avg. = 21.3%, range 10.0-34.0%, 4 sites

Dominant species (relative cover, frequency): *Callitris glaucophylla* (62, 75%), *Eucalyptus populnea* (49, 75%), *Eucalyptus chloroclada* (23, 25%), *Eucalyptus melanophloia* (22, 25%), *Corymbia tessellaris* (6, 75%)

Frequent species (cover, frequency): *Callitris glaucophylla* (16, 75%), *Corymbia clarksoniana* (1, 75%), *Corymbia tessellaris* (2, 75%), *Eucalyptus populnea* (8, 75%), *Eucalyptus chloroclada* (8, 25%), *Eucalyptus melanophloia* (8, 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 2**

Height avg. = 6.1m, range 3.5-8m, 4 sites

Crown cover avg. = 7.8%, range 5.0-10.0%, 4 sites

*Dominant species (relative cover, frequency): Eucalyptus chloroclada (100, 25%), Callitris glaucophylla (47, 50%), Geijera parviflora (42, 50%), Atalaya hemiglauca (33, 25%), Petalostigma pubescens (30, 25%)*

*Frequent species (cover, frequency): Callitris glaucophylla (5, 50%), Geijera parviflora (4, 50%), Acacia excelsa subsp. angusta (1, 25%), Atalaya hemiglauca (2, 25%), Citrus glauca (1, 25%), Eremophila mitchellii (2, 25%), Eucalyptus chloroclada (3, 25%), Eucalyptus populnea (2, 25%), Petalostigma pubescens (3, 25%), Ventilago viminalis (1, 25%)*

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**Stratum: Tree 3**

Height avg. = 4.3m, range 3.5-5m, 2 sites

Crown cover avg. = 17.5%, range 15.0-20.0%, 2 sites

*Dominant species (relative cover, frequency): Eremophila mitchellii (99, 25%), Callitris glaucophylla (47, 25%), Citrus glauca (18, 25%), Ventilago viminalis (6, 25%), Opuntia tomentosa\* (6, 25%)*

*Frequent species (cover, frequency): Acacia excelsa subsp. angusta (1, 25%), Alectryon diversifolius (1, 25%), Callitris glaucophylla (8, 25%), Citrus glauca (3, 25%), Denhamia cunninghamii (1, 25%), Eremophila mitchellii (20, 25%), Eucalyptus populnea (1, 25%), Opuntia tomentosa\* (1, 25%), Petalostigma pubescens (25%), Psydrax oleifolia (25%), Ventilago viminalis (1, 25%)*

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**Stratum: Shrub 1**

Height avg. = 2.0m, range 1.5-3m, 3 sites

Crown cover avg. = 2.7%, range 1.0-5.0%, 3 sites

*Dominant species (relative cover, frequency): Callitris glaucophylla (58, 50%), Myoporum acuminatum (51, 50%), Opuntia tomentosa\* (16, 25%), Geijera parviflora (16, 25%), Citrus glauca (16, 25%)*

*Frequent species (cover, frequency): Callitris glaucophylla (3, 50%), Myoporum acuminatum (1, 50%), Acacia excelsa subsp. angusta (1, 25%), Alectryon diversifolius (1, 25%), Citrus glauca (1, 25%), Geijera parviflora (1, 25%), Opuntia tomentosa\* (1, 25%)*

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**Stratum: Shrub 2**

Height avg. = 0.8m, 1 site

Crown cover avg. = 30.0%, 1 site

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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 0.1-0.5m, 4 sites

PFC avg. = 42.5%, range 25-70%, 4 sites

*Dominant species (relative cover, frequency): Paspalidium caespitosum (26, 25%), Alloteropsis semialata (19, 25%), Perotis rara (13, 75%), Aristida jerichoensis var. subspinulifera (12, 25%), Cenchrus ciliaris\* (12, 100%)*

*Frequent species (cover, frequency): GRAMINOIDS: Cenchrus ciliaris\* (7, 100%), Enteropogon acicularis (1, 100%), Eragrostis lacunaria (2, 100%), Digitaria brownii (1, 75%), Panicum effusum (3, 75%), Perotis rara (5, 75%), Aristida caput-medusae (1, 50%), Aristida holathera var. holathera (50%), Chloris truncata (2, 50%), Chloris ventricosa (50%), Cyperus indet. (2, 50%), Dichanthium sericeum (3, 50%), Fimbristylis dichotoma (50%), Paspalidium distans (3, 50%), Sporobolus caroli (1, 50%), Alloteropsis semialata (15, 25%), Ancistrachne uncinulata (1, 25%), Aristida echinata (1, 25%), Aristida indet. (25%), Aristida jerichoensis var. subspinulifera (10, 25%), Aristida lignosa (4, 25%), Aristida personata (2, 25%), Austrostipa verticillata (2, 25%), Bulbostylis barbata (1, 25%), Cenchrus spinifex\* (3, 25%), Chrysopogon fallax (25%), Cymbopogon refractus (1, 25%), Cyperus fulvus (1, 25%), Cyperus gracilis (25%), Cyperus leiocaulon (25%), Digitaria longiflora (25%), Dinebra decipiens (25%), Enneapogon avenaceus (1, 25%), Enneapogon gracilis (2, 25%), Enneapogon polyphyllus (1, 25%), Enteropogon ramosus (25%), Eragrostiella indet. (25%), Eragrostis megalosperma (25%), Eragrostis microcarpa (25%), Eragrostis sororia (1, 25%), Heteropogon contortus (1, 25%), Megathyrsus maximus var. maximus\* (2, 25%), Paspalidium caespitosum (15, 25%), Paspalidium constrictum (5, 25%), Paspalidium globoideum (1, 25%), Rytidosperma bipartitum (1, 25%), Sarga leiocladum (1, 25%), Setaria dielsii (1, 25%), Setaria surgens (2, 25%), Sporobolus indet. (25%), Sporobolus jacquemontii\* (1, 25%), Thyridolepis xerophila (1, 25%), Tragus australianus (1, 25%), Triraphis mollis (25%)*

*FORBS: Boerhavia dominii (75%), Solanum ellipticum (75%), Alternanthera denticulata (50%), Lepidium africanum\* (50%), Nyssanthes erecta (1, 50%), Opuntia aurantiaca\* (1, 50%), Oxalis indet. (1, 50%), Rhagodia spinescens (1, 50%), Sclerolaena birchii (1, 50%), Solanum parvifolium (1, 50%), Vittadinia sulcata (50%), Abutilon fraseri (1, 25%), Abutilon malvifolium (1, 25%), Abutilon oxycarpum (25%), Bidens pilosa\* (25%), Brunoniella australis (1, 25%), Calotis cuneata (25%), Calotis cuneifolia (2, 25%), Calotis lappulacea (1, 25%), Capparis lasiantha (1, 25%), Chenopodium indet. (1, 25%), Corchorus indet. (25%), Cyanthillium cinereum (1, 25%), Desmodium brachypodium (1, 25%), Dianella caerulea (25%), Drosera indet. (25%), Dysphania carinata (25%), Einadia nutans (1, 25%), Enchylaena tomentosa (1, 25%), Eucalyptus populnea (25%), Euphorbia indet. (1, 25%), Euphorbia peplus\* (25%), Evolvulus alsinoides (1, 25%), Evolvulus alsinoides var. villosicalyx (1, 25%), Geijera parviflora (25%), Glycine tomentella (25%), Hydrocotyle acutiloba (25%), Hypoestes floribunda (25%), Jasminum didymum (2, 25%), Jasminum didymum subsp. lineare (1, 25%), Lomandra longifolia (25%), Maireana microphylla (1, 25%), Neptunia gracilis (1, 25%), Opuntia tomentosa\* (25%), Peripleura hispidula (25%), Phyllanthus indet. (1, 25%), Pseuderanthemum variabile (25%), Psydrax oleifolia (1, 25%), Pterocaulon redolens (25%), Sclerolaena muricata var. semiglabra (1, 25%), Sida indet. (1, 25%), Solanum esuriale (25%), Solanum indet. (1, 25%), Tetragonia tetragonoides (1, 25%), Verbena litoralis\* (1, 25%), Vittadinia cuneata var. hirsuta (1, 25%), Wahlenbergia communis (1, 25%), Wahlenbergia gracilis (1, 25%), Xanthium occidentale\* (25%)*

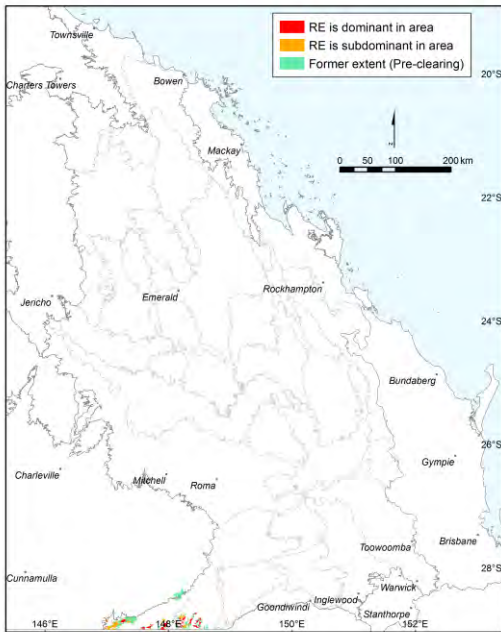
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Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 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

Forb and/or grassland +/- scattered *Atalaya hemiglauca*, *Flindersia maculosa*, *Acacia* spp. on alluvial plains



John Neldner

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 47,470 26,710 56%

Species\_recorded: Total: 59; woody: 12; ground: 48; Avg. spp./site: 38.0; std dev.: 6.0, 2 site(s)

Basal area: Avg./site: 3.5 m<sup>2</sup>/ha, range: 1.0 - 6 m<sup>2</sup>/ha, std. deviation: 3 m<sup>2</sup>/ha, 2 site(s)

Structural formation: Low open-woodland: 100%, 2 site(s)

Representative\_sites 17106, 17119.

**Stratum: Tree 1**

Height avg. = 7.5m, range 7-8m, 2 sites

Crown cover avg. = 6.0%, range 5.0-7.0%, 2 sites

Dominant species (relative cover, frequency): *Flindersia maculosa* (86, 100%), *Atalaya hemiglauca* (29, 50%)

Frequent species (cover, frequency): *Flindersia maculosa* (4, 100%), *Atalaya hemiglauca* (2, 50%)

**Stratum: Tree 2**

Height avg. = 4.0m, range 4-4m, 2 sites

Crown cover avg. = 3.0%, range 1.0-5.0%, 2 sites

Dominant species (relative cover, frequency): *Eremophila mitchellii* (100, 50%), *Atalaya hemiglauca* (100, 50%)

Frequent species (cover, frequency): *Atalaya hemiglauca* (1, 50%), *Eremophila mitchellii* (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. = 1.8m, range 1.5-2m, 2 sites

Crown cover avg. = 11.0%, range 5.0-17.0%, 2 sites

*Dominant species (relative cover, frequency):* *Pittosporum indet.* (57, 50%), *Eremophila mitchellii* (33, 50%), *Acacia victoriae subsp. victoriae* (33, 50%), *Acacia indet.* (29, 50%), *Senna circinnata* (16, 50%)

*Frequent species (cover, frequency):* *Acacia indet.* (5, 50%), *Acacia oswaldii* (1, 50%), *Acacia victoriae subsp. victoriae* (2, 50%), *Apophyllum anomalum* (1, 50%), *Capparis lasiantha* (2, 50%), *Eremophila mitchellii* (2, 50%), *Geijera parviflora* (50%), *Pittosporum indet.* (10, 50%), *Senna circinnata* (1, 50%), *Vachellia farnesiana\** (1, 50%)

**Stratum: Ground**

Height avg. = 0.5m, range 0.5-0.5m, 2 sites

PFC avg. = 45.0%, range 20-70%, 2 sites

*Dominant species (relative cover, frequency):* *Eulalia aurea* (13, 50%), *Maireana aphylla* (13, 50%), *Enteropogon acicularis* (12, 100%), *Rhagodia spinescens* (12, 100%), *Abutilon oxycarpum var. oxycarpum* (4, 50%)

*Frequent species (cover, frequency):* GRAMINOIDS: *Chloris ventricosa* (1, 100%), *Enneapogon polyphyllus* (100%), *Enteropogon acicularis* (8, 100%), *Panicum decompositum var. tenuius* (1, 100%), *Sporobolus actinocladius* (100%), *Sporobolus caroli* (1, 100%), *Tripogon loliformis* (1, 100%), *Aristida platychaeta* (50%), *Bothriochloa decipiens var. decipiens* (1, 50%), *Cenchrus ciliaris\** (1, 50%), *Cyperus victoriensis* (1, 50%), *Dinebra decipiens* (1, 50%), *Eragrostis indet.* (1, 50%), *Eragrostis leptocarpa* (1, 50%), *Eragrostis setifolia* (50%), *Eriochloa crebra* (2, 50%), *Eulalia aurea* (10, 50%), *Fimbristylis indet.* (1, 50%), *Paspalidium gracile* (50%), *Rytidosperma bipartitum* (1, 50%), *Sporobolus indet.* (1, 50%)

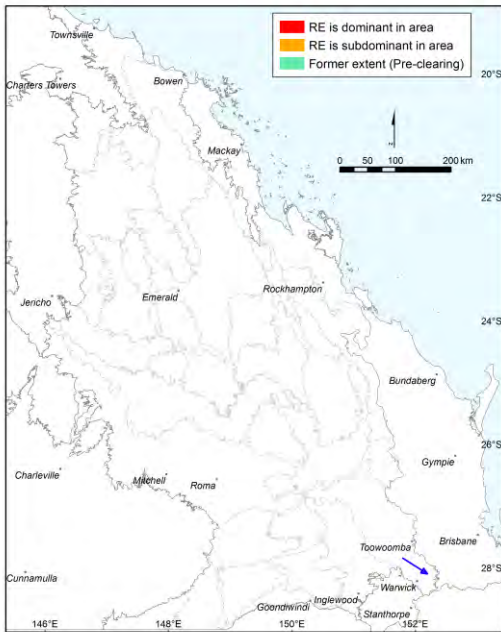
FORBS: *Boerhavia dominii* (100%), *Oxalis indet.* (100%), *Ptilotus nobilis subsp. semilanatus* (1, 100%), *Rhagodia spinescens* (8, 100%), *Salsola australis* (1, 100%), *Sclerolaena bicornis var. horrida* (100%), *Abutilon oxycarpum var. oxycarpum* (50%), *Brachyscome melanocarpa subsp. melanocarpa* (1, 50%), *Capparis lasiantha* (2, 50%), *Einadia nutans* (50%), *Euphorbia drummondii* (50%), *Hibiscus brachysiphonius* (50%), *Loranthaceae indet.* (50%), *Maireana aphylla* (10, 50%), *Malvastrum americanum var. americanum\** (1, 50%), *Marsilea drummondii* (1, 50%), *Medicago polymorpha\** (1, 50%), *Pimelea microcephala subsp. microcephala* (50%), *Portulaca oleracea\** (1, 50%), *Sclerolaena calcarata* (1, 50%), *Sclerolaena indet.* (1, 50%), *Sclerolaena muricata* (1, 50%), *Sclerolaena stelligera* (2, 50%), *Sclerolaena tricuspidata* (50%), *Sida indet.* (50%), *Solanum esuriale* (1, 50%), *Vittadinia sulcata* (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 conica, E. nobilis, E. tereticornis, Angophora floribunda woodland on alluvial plains. Basalt derived soils**



Annie Kelly

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 1,957 757 39%

Species\_recorded: Total: 25; woody: 2; ground: 23; Average species per site and standard deviation not available

Basal area: Avg./site: 13.0 m<sup>2</sup>/ha, range: 13.0 - 13 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 15790.

**Stratum: Tree 1**

Height avg. = 21.0m, 1 site

Crown cover avg. = 35.0%, 1 site

Dominant species (relative cover, frequency): *Eucalyptus nobilis* (54, 100%), *Angophora floribunda* (46, 100%)

Frequent species (cover, frequency): *Angophora floribunda* (16, 100%), *Eucalyptus nobilis* (19, 100%)

**Stratum: Tree 2**

Height avg. = 12.0m, 1 site

Crown cover avg. = 12.0%, 1 site

Dominant species (relative cover, frequency): *Angophora floribunda* (67, 100%), *Eucalyptus nobilis* (33, 100%)

Frequent species (cover, frequency): *Angophora floribunda* (8, 100%), *Eucalyptus nobilis* (4, 100%)

**Stratum: Tree 3**

Height avg. = 5.0m, 1 site

Crown cover avg. = 8.0%, 1 site

Dominant species (relative cover, frequency): *Angophora floribunda* (100, 100%)

Frequent species (cover, frequency): *Angophora floribunda* (8, 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. = 2.5m, 1 site****Crown cover avg. = 5.0%, 1 site***Dominant species (relative cover, frequency): Angophora floribunda (100, 100%)**Frequent species (cover, frequency): Angophora floribunda (5, 100%)*

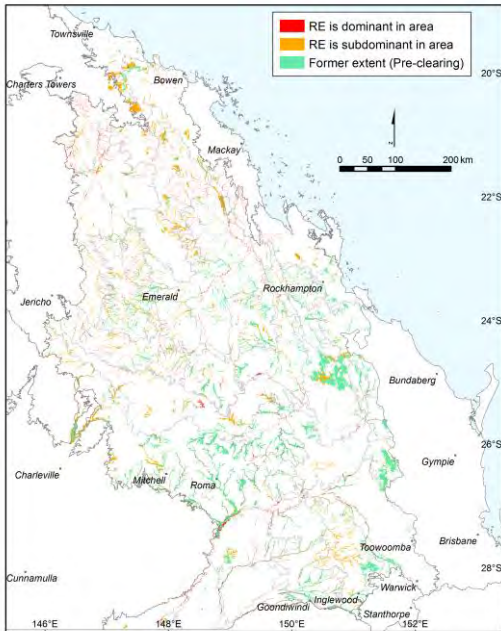
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Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 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 tereticornis or E. camaldulensis woodland fringing drainage lines**



Annie Kelly

**Pre-clearing area (ha), remnant area (ha) and per cent remaining: 685,740 430,808 63%**

**Species\_recorded: Total: 530; woody: 104; ground: 467; Avg. spp./site: 32.2; std dev.: 12.6, 38 site(s)**

**Basal area: Avg./site: 14.7 m<sup>2</sup>/ha, range: 2.0 - 38 m<sup>2</sup>/ha, std. deviation: 8 m<sup>2</sup>/ha, 46 site(s)**

**Structural formation: Woodland: 44%; open-forest: 23%; open-woodland: 21%; tall woodland: 6%; tall open-forest: 2%; low woodland: 2%; closed-forest: 2%, 48 site(s)**

**Representative\_sites 2459, 14146, 14164, 14595, 16233, 16236, 16590, 16608, 16623, 16641, 16677, 16724, 16736, 16751, 16787, 16795, 16867, 16877, 16936, 16958, 16967, 17094, 17133, 17155, 17260, 17385, 17400, 17482, 17654, 17682, 19112, 19113, 19210, 28778, 30413, 40910, 41705, 41715, 41915, 41916, 41975, 41995, 42015, 42016, 42190, 42194, 42237, 42264.**

**Stratum: Emergent**

**Height avg. = 23.9m, range 14-36m, 7 sites**

**Crown cover avg. = 5.0%, range 2.0-9.0%, 7 sites**

*Frequent species (cover, frequency): Eucalyptus tereticornis (6, 10%), Casuarina cunninghamiana (4, 2%), Cymbidium canaliculatum (2%), Eucalyptus camaldulensis (2, 2%)*

**Stratum: Tree 1**

**Height avg. = 22.1m, range 6-32m, 48 sites**

**Crown cover avg. = 34.9%, range 5.0-86.0%, 48 sites**

*Dominant species (relative cover, frequency): Eucalyptus camaldulensis (73, 46%), Eucalyptus tereticornis (61, 48%), Corymbia tessellaris (12, 21%)*

*Frequent species (cover, frequency): Eucalyptus tereticornis (23, 48%), Eucalyptus camaldulensis (25, 46%), Corymbia tessellaris (3, 21%), Angophora floribunda (15, 17%), Eucalyptus coolabah (15, 17%), Eucalyptus populnea (7, 10%), Casuarina cunninghamiana (10, 6%), Corymbia clarksoniana (4, 6%), Lophostemon suaveolens (1, 6%), Acacia salicina (1, 4%), Cymbidium canaliculatum (4%), Eucalyptus crebra (3, 4%), Melaleuca bracteata (47, 4%), Melaleuca leucadendra (27, 4%), Acacia stenophylla (7, 2%), Angophora leiocarpa (1, 2%), Angophora subvelutina (28, 2%), Callitris glaucophylla (10, 2%), Casuarina cunninghamiana subsp. cunninghamiana (8, 2%), Eucalyptus melanophloia (5, 2%), Livistona decora (2, 2%), Livistona nitida (25, 2%), Melaleuca fluviatilis (36, 2%), Melaleuca linariifolia (7, 2%), Melaleuca viminalis (12, 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. = 10.9m, range 4-20m, 37 sites

Crown cover avg. = 10.6%, range 0.0-40.0%, 37 sites

*Frequent species (cover, frequency): Eucalyptus camaldulensis (6, 19%), Acacia salicina (6, 15%), Acacia stenophylla (10, 15%), Eucalyptus coolabah (3, 15%), Eucalyptus tereticornis (2, 13%), Angophora floribunda (5, 8%), Corymbia tessellaris (3, 8%), Melaleuca trichostachya (7, 8%), Lophostemon suaveolens (2, 6%), Melaleuca bracteata (11, 6%), Callitris glaucophylla (9, 4%), Eucalyptus populnea (17, 4%), Livistona nitida (1, 4%), Melia azedarach (4%), Terminalia oblongata subsp. oblongata (1, 4%), Acacia fasciculifera (5, 2%), Acacia indet. (2, 2%), Acacia leiocalyx subsp. leiocalyx (1, 2%), Acacia ramiflora (2%), Alphitonia excelsa (2%), Angophora subvelutina (4, 2%), Backhousia angustifolia (2, 2%), Brachychiton australis (2%), Cassia brewsteri (2%), Casuarina cunninghamiana (1, 2%), Casuarina cunninghamiana subsp. cunninghamiana (10, 2%), Celtis sinensis\* (5, 2%), Cissus oblonga (2%), Corymbia erythrophloia (24, 2%), Dendrophthoe glabrescens (2%), Ficus fraseri (10, 2%), Geijera parviflora (15, 2%), Geijera salicifolia (4, 2%), Hakea lorea (2%), Lysiphylum hookeri (20, 2%), Lysiphylum indet. (20, 2%), Melaleuca fluviatilis (2, 2%), Melaleuca leucadendra (2%), Melaleuca linariifolia (7, 2%), Planchonella cotinifolia (1, 2%)*

**Stratum: Tree 3**

Height avg. = 6.9m, range 4-12m, 12 sites

Crown cover avg. = 11.0%, range 0.0-62.0%, 12 sites

*Frequent species (cover, frequency): Acacia salicina (1, 4%), Corymbia tessellaris (4%), Eucalyptus camaldulensis (1, 4%), Eucalyptus coolabah (2, 4%), Melaleuca linariifolia (4, 4%), Acacia excelsa (2%), Acacia leiocalyx subsp. leiocalyx (2, 2%), Alectryon diversifolius (2%), Angophora floribunda (2, 2%), Casuarina cunninghamiana subsp. cunninghamiana (3, 2%), Cymbidium canaliculatum (2%), Diospyros geminata (2%), Erythrina vespertilio (2%), Eucalyptus tereticornis (2%), Ficus coronata (6, 2%), Ficus opposita (7, 2%), Livistona nitida (4, 2%), Lysiphylum hookeri (50, 2%), Lysiphylum indet. (10, 2%), Macaranga tanarius (2%), Mallotus philippensis (3, 2%), Melaleuca fluviatilis (3, 2%), Melaleuca trichostachya (3, 2%), Melaleuca viminalis (4, 2%), Pleiogynium timorense (2, 2%), Terminalia oblongata subsp. oblongata (10, 2%), Timonius timon var. timon (3, 2%)*

**Stratum: Shrub 1**

Height avg. = 2.5m, range 0.5-6m, 24 sites

Crown cover avg. = 7.2%, range 0.0-40.0%, 25 sites

*Frequent species (cover, frequency): Acacia salicina (10%), Ficus opposita (1, 10%), Alphitonia excelsa (1, 6%), Melaleuca trichostachya (22, 6%), Abutilon oxycarpum (4%), Alectryon diversifolius (7, 4%), Alstonia constricta (4%), Brachychiton rupestris (4%), Breytia oblongifolia (4%), Bridelia leichhardtii (4%), Casuarina cunninghamiana (1, 4%), Corymbia tessellaris (4%), Denhamia disperma (4%), Erythroxylum australe (1, 4%), Eucalyptus camaldulensis (1, 4%), Ficus fraseri (4%), Geijera parviflora (4%), Grewia latifolia (1, 4%), Lophostemon suaveolens (4%), Melaleuca bracteata (4%), Melaleuca viminalis (4, 4%), Notelaea microcarpa (4%), Petalostigma pubescens (3, 4%), Pleiogynium timorense (4%), Turraea pubescens (4%), Vachellia farnesiana\* (1, 4%), Acacia aulacocarpa (1, 2%), Acacia disparrima subsp. disparrima (2%), Acacia excelsa (1, 2%), Acacia glaucocarpa (5, 2%), Acacia holosericea (2%), Acacia indet. (2%), Acacia leiocalyx subsp. leiocalyx (2%), Acacia maidenii (2%), Acacia ramiflora (2%), Acacia stenophylla (2, 2%), Alyxia ruscifolia (2%), Angophora floribunda (2%), Angophora leiocarpa (2%), Angophora subvelutina (2%), Bertya oleifolia (2%), Brachychiton populneus (2%), Capparis indet. (2%), Carissa ovata (2, 2%), Cassia brewsteri (1, 2%), Casuarina cristata (2%), Casuarina cunninghamiana subsp. cunninghamiana (1, 2%), Clematicissus opaca (2%), Corymbia erythrophloia (2%), Cupaniopsis anacardioides (2%), Cymbidium canaliculatum (2%), Diospyros geminata (2%), Dodonaea viscosa (2%), Elaeodendron australe (2%), Eremophila mitchellii (2%), Erythroxylum sp. (Splityard Creek L.Pedley 5360) (2%), Grevillea striata (2%), Hovea longipes (2%), Jasminum simplicifolium subsp. australiense (2%), Leptospermum polygalifolium (24, 2%), Livistona decora (1, 2%), Livistona nitida (5, 2%), Lycium ferocissimum\* (1, 2%), Lysiphylum hookeri (12, 2%), Macaranga tanarius (1, 2%), Mallotus philippensis (2%), Melaleuca decora (1, 2%), Melaleuca fluviatilis (1, 2%), Melaleuca indet. (2%), Melaleuca linariifolia (2, 2%), Melia azedarach (2%), Opuntia tomentosa\* (2%), Pittosporum spinescens (2%), Psydrax odorata (2%), Santalum lanceolatum (2%), Terminalia oblongata subsp. oblongata (10, 2%), Timonius timon var. timon (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: Shrub 2**

Height avg. = 1.1m, range 0.5-1.5m, 5 sites

Crown cover avg. = 2.2%, range 0.0-5.0%, 5 sites

*Frequent species (cover, frequency): Grewia latifolia (3, 4%), Abutilon oxycarpum (1, 2%), Acacia aulacocarpa (2%), Acacia maidenii (2%), Acacia salicina (2%), Alyxia ruscifolia (2%), Breynia oblongifolia (2%), Carissa lanceolata (1, 2%), Corymbia tessellaris (2%), Glochidion ferdinandi (2%), Grewia retusifolia (2%), Macaranga tanarius (2%), Mallotus philippensis (1, 2%), Melaleuca fluviatilis (2%), Melia azedarach (2%), Pleiogyne timorensis (2%), Senna barclayana (2%), Senna indet. (2%), Sida hackettiana (2%), Terminalia oblongata subsp. oblongata (4, 2%), Turraea pubescens (1, 2%), Wikstroemia indica (2%)*

**Stratum: Ground**

Height avg. = 0.5m, range 0.1-1.3m, 38 sites

PFC avg. = 48.6%, range 0-100%, 38 sites

*Dominant species (relative cover, frequency): Phyla canescens\* (57, 26%), Arundinella nepalensis (15, 24%), Heteropogon contortus (14, 34%), Themeda triandra (8, 21%), Lomandra longifolia (8, 50%)*

*Frequent species (cover, frequency): GRAMINOIDS: Cyperus gracilis (34%), Heteropogon contortus (10, 34%), Dichanthium sericeum subsp. sericeum (26%), Paspalidium distans (2, 26%), Arundinella nepalensis (9, 24%), Bothriochloa bladhii subsp. bladhii (4, 24%), Cyperus indet. (1, 24%), Paspalidium jubiflorum (1, 24%), Cynodon dactylon\* (1, 21%), Melinis repens\* (1, 21%), Themeda triandra (8, 21%), Aristida personata (6, 18%), Eriochloa crebra (18%), Chrysopogon filipes (5, 16%), Dichanthium sericeum (4, 16%), Eriochloa procera (16%), Sporobolus mitchellii (1, 16%), Bromus catharticus\* (2, 13%), Capillipedium spicigerum (13%), Chloris gayana\* (1, 13%), Eulalia aurea (7, 13%), Imperata cylindrica (5, 13%), Leptochloa digitata (13%), Megathyrsus maximus var. pubiglumis\* (15, 13%), Panicum effusum (6, 13%), Anthosachne scabra (14, 11%), Bothriochloa bladhii (11%), Cymbopogon refractus (1, 11%), Cynodon dactylon var. dactylon\* (3, 11%), Eragrostis leptostachya (4, 11%), Megathyrsus maximus\* (5, 11%), Panicum laevinode (2, 11%), Sorghum halepense\* (3, 11%), Sporobolus creber (3, 11%), Urochloa foliosa (3, 11%), Chionachne cyathopoda (7, 8%), Chloris divaricata (8%), Chloris ventricosa (16, 8%), Chrysopogon fallax (2, 8%), Cyperus fulvus (1, 8%), Digitaria brownii (8%), Echinochloa colona\* (2, 8%), Eleocharis plana (8%), Enteropogon acicularis (8%), Enteropogon ramosus (8%), Eragrostis sororia (8%), Eriochloa pseudoacrotricha (8%), Panicum larcomianum (2, 8%), Panicum simile (1, 8%), Setaria surgens (4, 8%), Themeda avenacea (3, 8%)*

*FORBS: Lomandra longifolia (4, 50%), Bidens pilosa\* (45%), Eustrephus latifolius (26%), Phyla canescens\* (28, 26%), Rumex brownii (26%), Xanthium occidentale\* (26%), Cyanthillium cinereum (24%), Cyclosporum leptophyllum\* (24%), Rapistrum rugosum\* (1, 24%), Sonchus oleraceus\* (24%), Marsilea drummondii (3, 21%), Oxalis perennans (21%), Alternanthera denticulata var. denticulata (1, 18%), Cirsium vulgare\* (18%), Emilia sonchifolia\* (18%), Erigeron bonariensis\* (18%), Gomphrena celosioides\* (18%), Malvastrum americanum var. americanum\* (18%), Sida hackettiana (3, 18%), Alternanthera nodiflora (16%), Commelina diffusa (16%), Malvastrum coromandelianum subsp. coromandelianum\* (16%), Rorippa palustris\* (16%), Sida rhombifolia\* (16%), Crinum flaccidum (13%), Euphorbia dallachyana (13%), Phyllanthus virgatus (13%), Rhynchosia minima (13%), Rorippa eustylis (13%), Sida cordifolia\* (4, 13%), Argemone ochroleuca subsp. ochroleuca\* (11%), Asperula conferta (11%), Boerhavia sp. (St George A.Hill AQ399299) (11%), Duma florulenta (11%), Eclipta prostrata\* (11%), Opuntia stricta\* (11%), Sida spinosa\* (11%), Solanum nodiflorum\* (11%), Vachellia farnesiana\* (11%), Verbena indet. (11%), Vicia monantha (11%), Ageratum houstonianum\* (8%), Alternanthera denticulata (8%), Arthropodium strictum (8%), Asteraceae indet. (8%), Basilicum polystachyon (8%), Breynia oblongifolia (8%), Calostemma luteum (8%), Calyptocarpus vialis\* (8%), Dianella indet. (8%), Dichondra repens (8%), Euphorbia drummondii (8%), Euphorbia hirta\* (8%), Evolvulus alsinoides (8%), Galactia tenuiflora (8%), Glandularia aristigera\* (8%), Glycine tabacina (8%), Glycine tomentella (8%), Ipomoea lonchophylla (8%), Medicago polymorpha\* (8%), Neptunia gracilis (8%), Parthenium hysterophorus\* (8%), Physalis lanceifolia\* (8%), Polymeria calycina (8%), Portulaca oleracea\* (8%), Richardia brasiliensis\* (8%), Ricinus communis\* (8%), Ruellia tuberosa\* (1, 8%), Senna barclayana (8%), Spermacoe brachystema (8%), Tridax procumbens\* (8%), Verbena litoralis\* (8%), Verbesina encelioides\* (8%), Wahlenbergia gracilis (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

**Eucalyptus raveretiana (sometimes emergent), Melaleuca fluviatilis woodland fringing drainage lines**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 805 785 98%

Species\_recorded: Total: 55; woody: 10; ground: 45; Avg. spp./site: 31.0; std dev.: 4.0, 2 site(s)

Basal area: Avg./site: 11.0 m<sup>2</sup>/ha, range: 11.0 - 11 m<sup>2</sup>/ha, std. deviation: 0 m<sup>2</sup>/ha, 2 site(s)

Structural formation: Woodland: 50%; open-woodland: 50%, 2 site(s)

Representative\_sites 19196, 19234.

**Stratum: Tree 1**

Height avg. = 16.0m, range 15-17m, 2 sites

Crown cover avg. = 24.5%, range 19.0-30.0%, 2 sites

Dominant species (relative cover, frequency): *Corymbia tessellaris* (38, 100%), *Melaleuca fluviatilis* (33, 50%), *Eucalyptus raveretiana* (18, 100%), *Casuarina cunninghamiana* (18, 100%), *Melaleuca nervosa* (8, 50%)

Frequent species (cover, frequency): *Casuarina cunninghamiana* (4, 100%), *Corymbia tessellaris* (9, 100%), *Eucalyptus camaldulensis* (1, 100%), *Eucalyptus raveretiana* (5, 100%), *Lysiphyllum hookeri* (50%), *Melaleuca fluviatilis* (10, 50%), *Melaleuca nervosa* (3, 50%)

**Stratum: Tree 2**

Height avg. = 8.0m, 1 site

Crown cover avg. = 6.0%, 1 site

Dominant species (relative cover, frequency): *Lysiphyllum hookeri* (67, 50%), *Corymbia tessellaris* (33, 50%)

Frequent species (cover, frequency): *Corymbia tessellaris* (2, 50%), *Lysiphyllum hookeri* (4, 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. = 1.0%, range 1.0-1.0%, 2 sites

*Dominant species (relative cover, frequency):* *Lysiphyllum hookeri* (33, 100%), *Lantana camara*\* (25, 50%), *Eucalyptus camaldulensis* (25, 50%), *Breynia oblongifolia* (25, 50%), *Melaleuca fluviatilis* (20, 50%)

*Frequent species (cover, frequency):* *Lysiphyllum hookeri* (100%), *Breynia oblongifolia* (50%), *Casuarina cunninghamiana* (50%), *Eucalyptus camaldulensis* (50%), *Lantana camara*\* (50%), *Lophostemon grandiflorus* subsp. *riparius* (50%), *Melaleuca fluviatilis* (50%)

**Stratum: Ground**

Height avg. = 0.8m, range 0.75-0.8m, 2 sites

PFC avg. = 42.5%, range 40-45%, 2 sites

*Dominant species (relative cover, frequency):* *Megathyrsus maximus* var. *pubiglumis*\* (61, 50%), *Arundinella nepalensis* (32, 50%), *Bothriochloa bladhii* (32, 50%), *Emilia sonchifolia* var. *javanica*\* (6, 50%), *Argemone ochroleuca* subsp. *ochroleuca*\* (6, 50%)

*Frequent species (cover, frequency):* GRAMINOIDS: *Melinis repens*\* (1, 100%), *Aristida latifolia* (2, 50%), *Arundinella nepalensis* (15, 50%), *Bothriochloa bladhii* (15, 50%), *Bothriochloa bladhii* subsp. *bladhii* (50%), *Chloris divaricata* (50%), *Chloris inflata*\* (50%), *Chloris truncata* (50%), *Chloris virgata*\* (50%), *Cyperus* *indet.* (50%), *Cyperus javanicus* (3, 50%), *Dactyloctenium radulans* (50%), *Echinochloa colona*\* (2, 50%), *Enneapogon virens* (50%), *Heteropogon contortus* (50%), *Megathyrsus maximus* var. *pubiglumis*\* (25, 50%), *Setaria surgens* (50%)

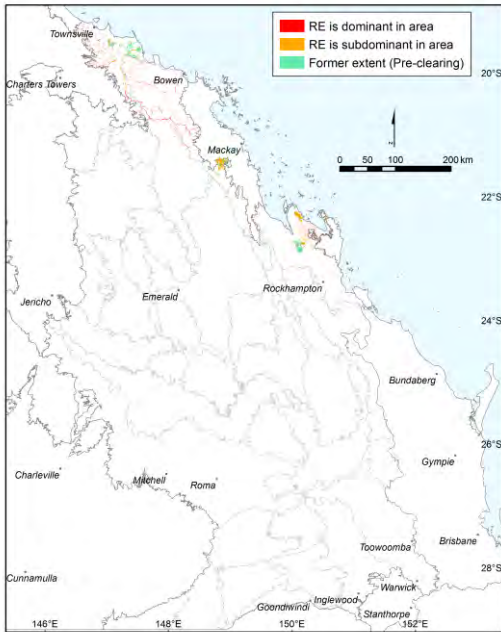
FORBS: *Tridax procumbens*\* (100%), *Achyranthes aspera* (2, 50%), *Alternanthera* *indet.* (50%), *Argemone ochroleuca* subsp. *ochroleuca*\* (3, 50%), *Asteraceae* *indet.* (50%), *Bidens pilosa*\* (50%), *Commelina ensifolia* (2, 50%), *Commelina* *indet.* (50%), *Convolvulaceae* *indet.* (50%), *Crotalaria spectabilis*\* (3, 50%), *Dianella* *indet.* (50%), *Emilia sonchifolia* var. *javanica*\* (3, 50%), *Euphorbia hirta*\* (50%), *Lepidium africanum*\* (50%), *Lobelia quadrangularis* (50%), *Macroptilium atropurpureum*\* (50%), *Macroptilium lathyroides*\* (50%), *Malvastrum americanum* var. *americanum*\* (50%), *Mecardonia procumbens*\* (3, 50%), *Parthenium hysterophorus*\* (2, 50%), *Pterocaulon redolens* (50%), *Rhynchosia minima* (50%), *Senna occidentalis*\* (50%), *Sida hackettiana* (50%), *Sida* *indet.* (50%), *Sida rhombifolia*\* (2, 50%), *Tagetes minuta*\* (50%), *Tinospora smilacina* (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

**Melaleuca leucadendra and/or M. fluviatilis open forest with Nauclea orientalis, Pandanus tectorius, Eucalyptus tereticornis, Casuarina cunninghamiana, Lophostemon suaveolens and rainforest species**



Jesse Rowland

**Pre-clearing area (ha), remnant area (ha) and per cent remaining:** 77,296 62,207 80%

**Species\_recorded:** Total: 233; woody: 65; ground: 183; Avg. spp./site: 45.6; std dev.: 15.4, 10 site(s)

**Basal area:** Avg./site: 18.3 m<sup>2</sup>/ha, range: 2.0 - 32 m<sup>2</sup>/ha, std. deviation: 11 m<sup>2</sup>/ha, 7 site(s)

**Structural formation:** Woodland: 60%; open-woodland: 20%; open-forest: 20%, 10 site(s)

**Representative\_sites** 17044, 17070, 40708, 40772, 40881, 40908, 40909, 40912, 59079, 59080.

**Stratum: Tree 1**

**Height avg. = 20.4m, range 9-30m, 10 sites**

**Crown cover avg. = 24.1%, range 5.0-45.0%, 10 sites**

*Dominant species (relative cover, frequency): Eucalyptus tereticornis (43, 70%), Corymbia tessellaris (42, 40%), Melaleuca fluviatilis (21, 40%), Lophostemon suaveolens (17, 40%)*

*Frequent species (cover, frequency): Eucalyptus tereticornis (4, 70%), Corymbia tessellaris (13, 40%), Lophostemon suaveolens (6, 40%), Melaleuca fluviatilis (8, 40%), Casuarina cunninghamiana (4, 20%), Corymbia clarksoniana (1, 20%), Eucalyptus platyphylla (2, 20%), Eucalyptus tereticornis subsp. tereticornis (10, 20%), Melaleuca viridiflora (3, 20%), Corymbia dallachiana (10%), Eucalyptus crebra (2, 10%), Eucalyptus platyphylla x E. tereticornis (10%), Eucalyptus populnea (10%), Euroschinus falcatus var. falcatus (2, 10%), Melaleuca leucadendra (20, 10%), Melaleuca viminalis (5, 10%), Nauclea orientalis (5, 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: Tree 2**

Height avg. = 12.4m, range 6-20m, 7 sites

Crown cover avg. = 14.0%, range 5.0-37.0%, 7 sites

Dominant species (relative cover, frequency): *Lophostemon suaveolens* (29, 30%)

Frequent species (cover, frequency): *Lophostemon suaveolens* (10, 30%), *Casuarina cunninghamiana* subsp. *cunninghamiana* (2, 20%), *Diospyros geminata* (1, 20%), *Geijera salicifolia* (1, 20%), *Mallotus philippensis* (2, 20%), *Melaleuca fluviatilis* (1, 20%), *Melaleuca leucadendra* (10, 20%), *Planchonia careya* (1, 20%), *Alphitonia excelsa* (2, 10%), *Corymbia tessellaris* (5, 10%), *Eucalyptus tereticornis* (10%), *Eucalyptus tereticornis* subsp. *tereticornis* (3, 10%), *Ficus opposita* (1, 10%), *Ficus racemosa* (8, 10%), *Ficus rubiginosa* forma *rubiginosa* (2, 10%), *Glochidion apodogynum* (1, 10%), *Jagera pseudorhus* (3, 10%), *Jagera pseudorhus* var. *pseudorhus* (3, 10%), *Litsea fawcettiana* (1, 10%), *Melaleuca viridiflora* (10%), *Melia azedarach* (2, 10%), *Neolitsea brassii* (1, 10%), *Pandanus brookei* (1, 10%), *Pittosporum ferrugineum* subsp. *ferrugineum* (1, 10%), *Polyscias elegans* (10%)

**Stratum: Tree 3**

Height avg. = 5.6m, range 3-8m, 4 sites

Crown cover avg. = 8.5%, range 2.0-20.0%, 4 sites

Dominant species (relative cover, frequency): *Planchonia careya* (32, 30%), *Ficus opposita* (19, 30%)

Frequent species (cover, frequency): *Ficus opposita* (1, 30%), *Planchonia careya* (3, 30%), *Corymbia tessellaris* (1, 20%), *Eucalyptus tereticornis* (1, 20%), *Lophostemon suaveolens* (2, 20%), *Acacia leiocalyx* subsp. *leiocalyx* (5, 10%), *Alphitonia excelsa* (3, 10%), *Euroschinus falcatus* (1, 10%), *Glochidion apodogynum* (3, 10%), *Livistona decora* (1, 10%), *Psydrax oleifolia* (1, 10%)

**Stratum: Shrub 1**

Height avg. = 1.6m, range 1-3.2m, 8 sites

Crown cover avg. = 4.7%, range 0.0-10.0%, 9 sites

Dominant species (relative cover, frequency): *Ficus opposita* (25, 30%), *Alphitonia excelsa* (23, 50%), *Lantana camara*\* (15, 40%), *Mallotus philippensis* (15, 30%), *Planchonia careya* (13, 30%)

Frequent species (cover, frequency): *Alphitonia excelsa* (50%), *Lantana camara*\* (2, 40%), *Ficus opposita* (2, 30%), *Mallotus philippensis* (2, 30%), *Planchonia careya* (2, 30%), *Breynia oblongifolia* (1, 20%), *Drypetes deplanchei* (1, 20%), *Jagera pseudorhus* var. *pseudorhus* (2, 20%), *Petalostigma pubescens* (20%), *Acacia aulacocarpa* (2, 10%), *Acacia disparrima* subsp. *disparrima* (1, 10%), *Acacia leiocalyx* subsp. *leiocalyx* (1, 10%), *Acronychia laevis* (1, 10%), *Alyxia ruscifolia* (1, 10%), *Arytera divaricata* (10%), *Citrus x aurantiifolia*\* (10%), *Claoxylon tenerifolium* (10%), *Crotalaria novae-hollandiae* (1, 10%), *Cupaniopsis anacardioides* (1, 10%), *Exocarpos latifolius* (1, 10%), *Fabaceae* indet. (2, 10%), *Glochidion apodogynum* (8, 10%), *Glochidion lobocarpum* (10%), *Grewia latifolia* (10%), *Grewia retusifolia* (10%), *Jagera pseudorhus* (3, 10%), *Jasminum simplicifolium* subsp. *australiense* (1, 10%), *Lophostemon suaveolens* (3, 10%), *Macaranga tanarius* (10%), *Melaleuca viridiflora* (10%), *Melia azedarach* (1, 10%), *Pandanus* indet. (10%), *Polyscias elegans* (10%), *Scolopia braunii* (10%), *Sida cordifolia*\* (1, 10%), *Solanum torvum*\* (10%), *Triumfetta rhomboidea*\* (3, 10%), *Urena lobata*\* (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: Ground**

Height avg. = 0.8m, range 0.5-1.3m, 10 sites

PFC avg. = 65.6%, range 20-92%, 10 sites

Dominant species (relative cover, frequency): *Megathyrsus maximus* var. *pubiglumis*\* (39, 30%), *Bothriochloa bladhii* (17, 40%), *Sarga plumosum* (15, 30%), *Heteropogon contortus* (14, 90%), *Leersia hexandra* (12, 40%)

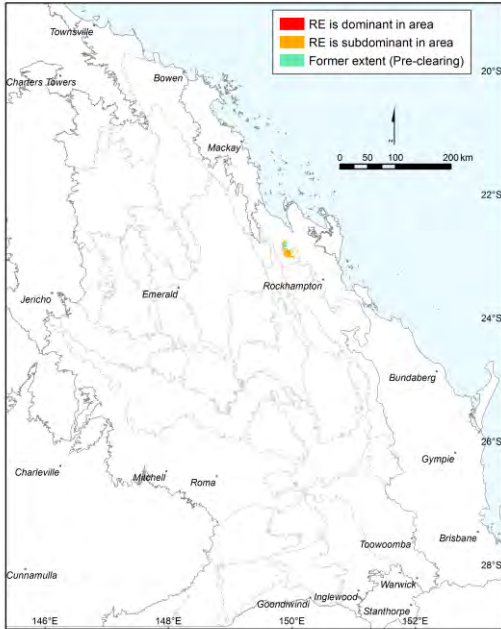
Frequent species (cover, frequency): GRAMINOIDS: *Heteropogon contortus* (9, 90%), *Arundinella nepalensis* (1, 70%), *Paspalidium distans* (1, 70%), *Capillipedium spicigerum* (60%), *Themeda triandra* (4, 60%), *Paspalum scrobiculatum* (50%), *Bothriochloa bladhii* (15, 40%), *Fimbristylis dichotoma* (40%), *Imperata cylindrica* (10, 40%), *Leersia hexandra* (10, 40%), *Chloris inflata*\* (1, 30%), *Cyperus haspan* subsp. *juncoides* (30%), *Eragrostis brownii* (2, 30%), *Eriochloa procera* (30%), *Megathyrsus maximus* var. *pubiglumis*\* (22, 30%), *Melinis repens*\* (2, 30%), *Sarga plumosum* (13, 30%), *Scleria tricuspidata* (1, 30%), *Chrysopogon filipes* (3, 20%), *Cyperus distans* (20%), *Cyperus fulvus* (20%), *Cyperus javanicus* (20%), *Cyperus trinervis* (20%), *Dichanthium aristatum*\* (20%), *Dichanthium sericeum* (20%), *Heteropogon triticeus* (6, 20%), *Megathyrsus maximus*\* (34, 20%), *Oplismenus aemulus* (1, 20%), *Panicum effusum* (1, 20%), *Alloteropsis semialata* (13, 10%), *Aristida jerichoensis* var. *subspinulifera* (1, 10%), *Aristida utilis* var. *utilis* (5, 10%), *Axonopus compressus*\* (1, 10%), *Baumea juncea* (10%), *Bothriochloa bladhii* subsp. *bladhii* (10%), *Cenchrus ciliaris*\* (2, 10%), *Chrysopogon sylvaticus* (10%), *Cymbopogon bombycinus* (10%), *Cymbopogon refractus* (10%), *Cyperus aquatilis* (1, 10%), *Cyperus difformis* (10%), *Cyperus gracilis* (10%), *Cyperus laevis* (1, 10%), *Cyperus leiocaulon* (10%), *Cyperus polystachyos* (10%), *Digitaria ammophila* (1, 10%), *Digitaria brownii* (10%), *Digitaria ciliaris*\* (10%), *Digitaria parviflora* (10%), *Dinebra decipiens* (4, 10%), *Dinebra decipiens* var. *decipiens* (10%), *Eragrostis spartinoidea* (1, 10%), *Eremochloa bimaculata* (10%), *Eriochloa pseudoacrotricha* (10%), *Fimbristylis littoralis* (10%), *Fimbristylis microcarya* (10%), *Fuirena ciliaris* (10%), *Ischaemum australe* var. *australe* (10%), *Juncus* indet. (10%), *Ottochloa gracillima* (10%), *Paspalum paniculatum*\* (10%), *Phragmites australis* (10%), *Sacciolepis indica* (10%), *Scleria novae-hollandiae* (10%), *Scleria sphacelata* (10%), *Setaria surgens* (10%), *Sporobolus jacquemontii*\* (10%), *Sporobolus pyramidalis*\* (1, 10%), *Urochloa foliosa* (10%), *Urochloa mosambicensis*\* (2, 10%)  
 FORBS: *Passiflora suberosa*\* (2, 70%), *Eustrephus latifolius* (1, 60%), *Stylosanthes scabra*\* (1, 60%), *Ageratum conyzoides*\* (4, 50%), *Eclipta prostrata*\* (50%), *Sida rhombifolia*\* (50%), *Stachytarpheta jamaicensis*\* (7, 50%), *Urena lobata*\* (50%), *Lomandra longifolia* (1, 40%), *Ludwigia octovalvis* (40%), *Passiflora foetida*\* (40%), *Phyllanthus virgatus* (40%), *Triumfetta rhomboidea*\* (40%), *Brunoniella acaulis* (30%), *Centella asiatica* (30%), *Cyanthillium cinereum* (30%), *Emilia sonchifolia*\* (1, 30%), *Limnophila brownii* (30%), *Persicaria decipiens* (30%), *Praxelis clematidea*\* (2, 30%), *Sida cordifolia*\* (30%), *Sida hackettiana* (1, 30%), *Ageratum conyzoides* subsp. *conyzoides*\* (20%), *Bidens pilosa*\* (1, 20%), *Breynia oblongifolia* (20%), *Crinum* indet. (20%), *Desmodium heterocarpon* var. *strigosum* (3, 20%), *Dianella caerulea* (1, 20%), *Dianella* indet. (20%), *Emilia sonchifolia* var. *sonchifolia*\* (1, 20%), *Glochidion apodogynum* (2, 20%), *Glycine tabacina* (20%), *Lindernia crustacea* (20%), *Macroptilium lathyroides*\* (20%), *Malvastrum coromandelianum* subsp. *coromandelianum*\* (20%), *Melaleuca viridiflora* (20%), *Mesosphaerum pectinatum*\* (1, 20%), *Philydrum lanuginosum* (9, 20%), *Polymeria calycina* (1, 20%), *Pterocaulon redolens* (20%), *Spermacoce brachystema* (20%), *Sphaeromorphaea* indet. (20%), *Stephania japonica* (20%), *Stylosanthes guianensis*\* (20%), *Vigna vexillata* (20%), *Xanthium occidentale*\* (20%), *Acmella grandiflora* var. *brachyglossa* (10%), *Asclepias curassavica*\* (10%), *Bacopa floribunda* (10%), *Basilicum polystachyon* (10%), *Brunoniella australis* (10%), *Calyptocarpus vialis*\* (10%), *Chamaecrista nomame* (10%), *Chamaecrista rotundifolia*\* (10%), *Cheilanthes sieberi* (10%), *Cissus oblonga* (10%), *Commelina diffusa* (10%), *Corymbia tessellaris* (10%), *Crotalaria montana* (10%), *Crotalaria montana* var. *angustifolia* (10%), *Crotalaria pallida* var. *obovata*\* (10%), *Dendrobium* indet. (10%), *Desmodium gangeticum* (10%), *Dodonaea viscosa* (10%), *Erigeron bonariensis*\* (10%), *Erigeron pusillus*\* (10%), *Eucalyptus tereticornis* subsp. *tereticornis* (1, 10%), *Euphorbia hirta*\* (10%), *Euphorbia* indet. (10%), *Evolvulus alsinoides* (10%), *Flemingia parviflora* (1, 10%), *Galactia tenuiflora* (10%), *Galactia tenuiflora* forma *sericea* (10%), *Glinus oppositifolius* (10%), *Glycine cyrtoloba* (10%), *Glycine tomentella* (10%), *Gomphrena celosioides*\* (10%), *Ipomoea plebeia* (10%), *Iridaceae* indet. (10%), *Jagera pseudorhus* (1, 10%), *Jagera pseudorhus* var. *pseudorhus* (1, 10%), *Jasminum simplicifolium* subsp. *australiense* (2, 10%), *Lantana camara*\* (10%), *Lobelia stenophylla* (10%), *Macroptilium atropurpureum*\* (19, 10%), *Marsdenia* indet. (10%), *Mecardonia procumbens*\* (10%), *Melochia corchorifolia* (10%), *Murdannia graminea* (10%), *Neptunia gracilis* (10%), *Oxalis perennans* (10%), *Petalostigma pubescens* (10%), *Pleiogyne timorensis* (10%), *Pteridium esculentum* (10%), *Rhynchosia minima* var. *minima* (10%), *Richardia brasiliensis*\* (10%), *Rostellularia adscendens* (10%), *Scoparia dulcis*\* (10%), *Sida acuta*\* (10%), *Sida spinosa*\* (10%), *Sigesbeckia orientalis* (10%), *Solanum seafortianum*\* (10%), *Solanum torvum*\* (10%), *Stylidium eriorhizum* (10%), *Stylosanthes hamata*\* (10%), *Synedrellopsis grisebachii*\* (10%), *Trichodesma zeylanicum* (10%), *Trophis scandens* subsp. *scandens* (1, 10%), *Waltheria indica* (10%), *Zornia dyctiocarpa* (10%), *Zornia muriculata* (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

**Eucalyptus camaldulensis or E. tereticornis open forest to woodland fringing drainage lines derived from Serpentinite**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 4,938 4,206 85%

Species\_recorded: Total: 59; woody: 30; ground: 34; Avg. spp./site: 23.3; std dev.: 2.5, 3 site(s)

Basal area: Avg./site: 21.3 m<sup>2</sup>/ha, range: 10.0 - 32 m<sup>2</sup>/ha, std. deviation: 9 m<sup>2</sup>/ha, 3 site(s)

Structural formation: Woodland: 67%; open-forest: 33%, 3 site(s)

Representative\_sites 17062, 41177, 41195.

**Stratum: Tree 1**

Height avg. = 17.7m, range 12-25m, 3 sites

Crown cover avg. = 34.2%, range 27.0-48.5%, 3 sites

Dominant species (relative cover, frequency): *Eucalyptus tereticornis* (76, 33%), *Melaleuca viminalis* (74, 33%), *Casuarina cunninghamiana* (41, 100%), *Melaleuca hemisticta* (19, 33%), *Livistona decora* (4, 33%)

Frequent species (cover, frequency): *Casuarina cunninghamiana* (12, 100%), *Eucalyptus tereticornis* (16, 33%), *Exocarpos latifolius* (33%), *Livistona decora* (2, 33%), *Melaleuca fluviatilis* (1, 33%), *Melaleuca hemisticta* (5, 33%), *Melaleuca saligna* (1, 33%), *Melaleuca viminalis* (34, 33%), *Neoroepora buxifolia* (33%)

**Stratum: Tree 2**

Height avg. = 5.3m, range 3-8m, 3 sites

Crown cover avg. = 24.5%, range 0.6-58.0%, 3 sites

Dominant species (relative cover, frequency): *Livistona decora* (69, 67%), *Melaleuca viminalis* (57, 67%), *Neoroepora buxifolia* (28, 33%), *Exocarpos latifolius* (15, 33%), *Casuarina cunninghamiana* (4, 33%)

Frequent species (cover, frequency): *Livistona decora* (8, 67%), *Melaleuca viminalis* (11, 67%), *Casuarina cunninghamiana* (2, 33%), *Elaeodendron melanocarpum* (33%), *Exocarpos latifolius* (6, 33%), *Macaranga tanarius* (33%), *Myrsine variabilis* (33%), *Neolitsea brassii* (33%), *Neoroepora buxifolia* (12, 33%), *Trema tomentosa var. aspera* (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



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**Stratum: Tree 3**

Height avg. = 5.0m, 1 site

Crown cover avg. = 7.0%, 1 site

Dominant species (relative cover, frequency): *Neolitsea australiensis* (71, 33%), *Neoroepora buxifolia* (29, 33%)

Frequent species (cover, frequency): *Neolitsea australiensis* (5, 33%), *Neoroepora buxifolia* (2, 33%)

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**Stratum: Shrub 1**

Height avg. = 1.7m, range 1.3-2m, 2 sites

Crown cover avg. = 1.8%, range 0.6-3.0%, 2 sites

Dominant species (relative cover, frequency): *Neoroepora buxifolia* (33, 33%), *Psychotria daphnoides* (22, 33%), *Ficus coronata* (11, 33%), *Melodorum leichhardtii* (11, 33%), *Alyxia ruscifolia* (11, 33%)

Frequent species (cover, frequency): *Lantana camara*\* (1, 67%), *Alyxia ruscifolia* (1, 33%), *Brachychiton bidwillii* (33%), *Cupaniopsis anacardioides* (33%), *Ficus coronata* (1, 33%), *Ficus opposita* (33%), *Gomphocarpus physocarpus*\* (33%), *Mallotus philippensis* (33%), *Melia azedarach* (33%), *Melodorum leichhardtii* (1, 33%), *Neoroepora buxifolia* (3, 33%), *Passiflora suberosa*\* (33%), *Polyscias elegans* (33%), *Psychotria daphnoides* (2, 33%), *Sida cordifolia*\* (33%), *Trema tomentosa* (33%)

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**Stratum: Shrub 2**

Height avg. = 1.0m, 1 site

Crown cover avg. = 2.0%, 1 site

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**Stratum: Ground**

Height avg. = 0.8m, range 0.5-1.2m, 3 sites

PFC avg. = 18.0%, range 8-32%, 3 sites

Dominant species (relative cover, frequency): *Antirhea putaminosa* (80, 33%), *Heteropogon contortus* (54, 33%), *Bothriochloa bladhii* (30, 33%), *Ipomoea plebeia* (15, 33%), *Cryptostegia grandiflora*\* (15, 33%)

Frequent species (cover, frequency): GRAMINOIDS: *Digitaria indet.* (1, 67%), *Gahnia aspera* (67%), *Aristida indet.* (1, 33%), *Bothriochloa bladhii* (10, 33%), *Cyperus indet.* (1, 33%), *Fimbristylis indet.* (33%), *Heteropogon contortus* (18, 33%), *Juncus indet.* (33%), *Panicum effusum* (33%), *Phragmites australis* (33%), *Schoenus apogon* var. *apogon* (1, 33%)

FORBS: *Passiflora suberosa*\* (100%), *Eustrephus latifolius* (67%), *Abutilon auritum* (1, 33%), *Antirhea putaminosa* (11, 33%), *Cassytha indet.* (33%), *Cissus oblonga* (1, 33%), *Commelina ensifolia* (33%), *Cryptostegia grandiflora*\* (1, 33%), *Euphorbia mitchelliana* (33%), *Hydrocotyle acutiloba* (1, 33%), *Ipomoea plebeia* (1, 33%), *Livistona decora* (33%), *Lomandra longifolia* (1, 33%), *Myrsine variabilis* (33%), *Parsonia lanceolata* (33%), *Pimelea leptospermoides* (33%), *Sida cordifolia*\* (2, 33%), *Solanum seafortianum*\* (1, 33%), *Solanum stelligerum* (33%), *Stachytarpheta jamaicensis*\* (33%), *Stackhousia indet.* (33%), *Trema tomentosa* var. *aspera* (33%), *Wahlenbergia indet.* (33%)

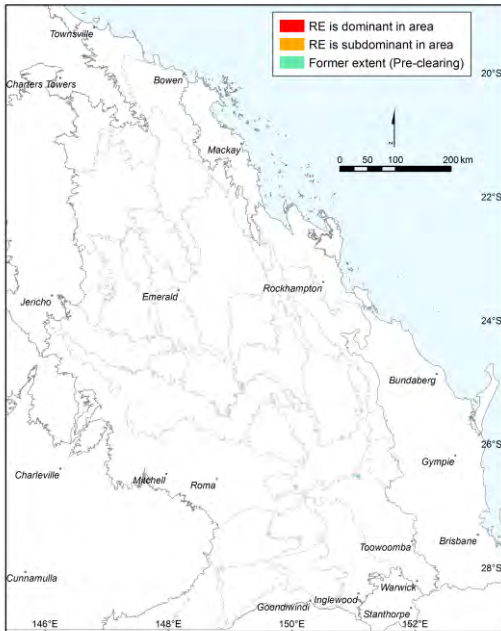
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Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 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

Melaleuca bracteata woodland to open forest



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 846 269 32%

Species\_recorded: Total: 20; woody: 9; ground: 11; 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: Low woodland: 100%, 1 site(s)

Representative\_sites 16879.

**Stratum: Emergent**

Height avg. = 14.0m, 1 site

Crown cover avg. = 5.0%, 1 site

Dominant species (relative cover, frequency): *Eucalyptus camaldulensis* (50, 100%), *Acacia harpophylla* (50, 100%)

Frequent species (cover, frequency): *Acacia harpophylla* (3, 100%), *Eucalyptus camaldulensis* (3, 100%)

**Stratum: Tree 1**

Height avg. = 8.0m, 1 site

Crown cover avg. = 40.0%, 1 site

Dominant species (relative cover, frequency): *Melaleuca bracteata* (73, 100%), *Melaleuca trichostachya* (14, 100%), *Casuarina cunninghamiana* (9, 100%), *Eucalyptus camaldulensis* (5, 100%)

Frequent species (cover, frequency): *Casuarina cunninghamiana* (4, 100%), *Cissus oblonga* (100%), *Eucalyptus camaldulensis* (2, 100%), *Melaleuca bracteata* (32, 100%), *Melaleuca trichostachya* (6, 100%)

**Stratum: Shrub 1**

Height avg. = 5.0m, 1 site

Crown cover avg. = 20.0%, 1 site

Dominant species (relative cover, frequency): *Melaleuca trichostachya* (75, 100%), *Acalypha eremorum* (15, 100%), *Ficus opposita* (5, 100%), *Erythroxylum australe* (5, 100%)

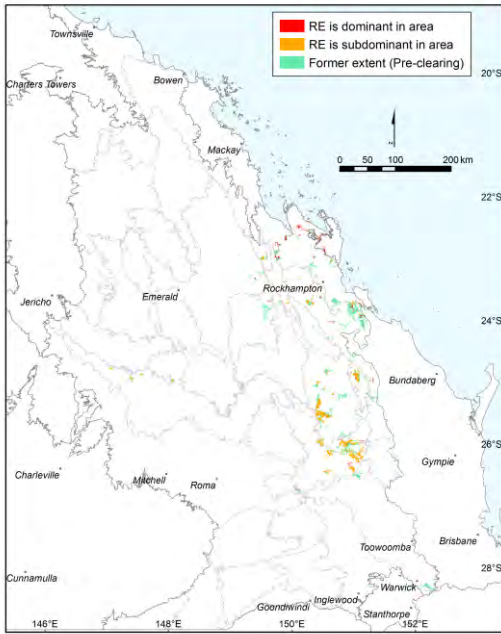
Frequent species (cover, frequency): *Acalypha eremorum* (3, 100%), *Erythroxylum australe* (1, 100%), *Ficus opposita* (1, 100%), *Melaleuca trichostachya* (15, 100%)

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

**Eucalyptus moluccana or E. microcarpa woodland to open forest on margins of alluvial plains**



Annie Kelly

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 121,268 44,386 37%

Species\_recorded: Total: 175; woody: 29; ground: 154; Avg. spp./site: 34.4; std dev.: 20.6, 7 site(s)

Basal area: Avg./site: 16.2 m<sup>2</sup>/ha, range: 8.8 - 25 m<sup>2</sup>/ha, std. deviation: 7 m<sup>2</sup>/ha, 7 site(s)

Structural formation: Woodland: 57%; open-forest: 29%; tall open-forest: 14%, 7 site(s)

Representative\_sites 14858, 17523, 17539, 17692, 40749, 40807, 59082.

**Stratum: Tree 1**

Height avg. = 23.4m, range 18-30m, 7 sites

Crown cover avg. = 40.1%, range 20.0-60.0%, 7 sites

Dominant species (relative cover, frequency): *Eucalyptus moluccana* (100, 86%)

Frequent species (cover, frequency): *Eucalyptus moluccana* (42, 86%), *Eucalyptus microcarpa* (29, 14%)

**Stratum: Tree 2**

Height avg. = 11.8m, range 6-16m, 5 sites

Crown cover avg. = 6.6%, range 0.0-20.0%, 5 sites

Dominant species (relative cover, frequency): *Eucalyptus moluccana* (88, 57%)

Frequent species (cover, frequency): *Eucalyptus moluccana* (4, 57%), *Acacia rhodoxylon* (10, 14%), *Eucalyptus melanophloia* (1, 14%), *Eucalyptus microcarpa* (6, 14%)

**Stratum: Tree 3**

Height avg. = 3.0m, 1 site

Crown cover avg. = 2.0%, 1 site

Frequent species (cover, frequency): *Eucalyptus microcarpa* (3, 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. = 2.3m, range 0.5-5m, 7 sites

Crown cover avg. = 3.1%, range 0.0-6.0%, 7 sites

Dominant species (relative cover, frequency): *Eucalyptus moluccana* (50, 43%), *Lantana camara*\* (37, 43%)

Frequent species (cover, frequency): *Eucalyptus moluccana* (2, 43%), *Lantana camara*\* (1, 43%), *Acacia aulacocarpa* (14%), *Acacia disparrima* subsp. *disparrima* (14%), *Acacia leptocarpa* (1, 14%), *Acacia rhodoxylon* (2, 14%), *Alectryon connatus* (14%), *Alstonia constricta* (14%), *Callitris glaucophylla* (2, 14%), *Carissa ovata* (2, 14%), *Coelospermum reticulatum* (14%), *Croton insularis* (14%), *Cryptostegia grandiflora*\* (14%), *Denhamia cunninghamii* (14%), *Diospyros humilis* (14%), *Ehretia membranifolia* (14%), *Eucalyptus microcarpa* (14%), *Flueggea leucopyrus* (14%), *Geijera salicifolia* (4, 14%), *Indigofera pratensis* (14%), *Ludwigia octovalvis* (14%), *Melaleuca viridiflora* (1, 14%), *Petalostigma pubescens* (2, 14%), *Pittosporum spinescens* (1, 14%), *Planchonia careya* (1, 14%), *Psydrax odorata* (14%), *Secamone elliptica* (14%), *Sida hackettiana* (14%)

**Stratum: Ground**

Height avg. = 4.7m, range 0.1-30m, 7 sites

PFC avg. = 52.4%, range 25-92%, 7 sites

Dominant species (relative cover, frequency): *Eragrostis brownii* (37, 29%), *Heteropogon contortus* (28, 29%), *Eragrostis lacunaria* (27, 29%), *Cyperus gracilis* (26, 71%), *Arundinella nepalensis* (18, 43%)

Frequent species (cover, frequency): GRAMINOIDS: *Cyperus gracilis* (11, 71%), *Fimbristylis dichotoma* (71%), *Arundinella nepalensis* (12, 43%), *Bothriochloa decipiens* (3, 29%), *Bothriochloa decipiens* var. *decipiens* (3, 29%), *Cymbopogon refractus* (29%), *Cyperus difformis* (29%), *Cyperus fulvus* (2, 29%), *Cyperus javanicus* (29%), *Dinebra decipiens* (3, 29%), *Dinebra decipiens* var. *decipiens* (3, 29%), *Eragrostis brownii* (34, 29%), *Eragrostis lacunaria* (8, 29%), *Eragrostis sororia* (1, 29%), *Heteropogon contortus* (17, 29%), *Panicum effusum* (29%), *Paspalidium distans* (1, 29%), *Aristida caput-medusae* (1, 14%), *Aristida gracilipes* (14%), *Aristida jerichoensis* var. *subspinulifera* (3, 14%), *Aristida personata* (14%), *Aristida queenslandica* var. *dissimilis* (1, 14%), *Aristida ramosa* (3, 14%), *Bothriochloa bladhii* subsp. *bladhii* (2, 14%), *Calyptochloa gracillima* subsp. *gracillima* (3, 14%), *Capillipedium spicigerum* (1, 14%), *Chloris divaricata* (3, 14%), *Chloris truncata* (35, 14%), *Chloris ventricosa* (14%), *Chloris virgata*\* (14%), *Chrysopogon fallax* (5, 14%), *Chrysopogon sylvaticus* (14%), *Cyperus concinnus* (14%), *Cyperus conicus* var. *conicus* (14%), *Cyperus dietrichiae* var. *dietrichiae* (1, 14%), *Cyperus haspan* (1, 14%), *Cyperus rotundus*\* (14%), *Dichanthium tenue* (14%), *Digitaria gibbosa* (14%), *Eleocharis setifolia* (14%), *Enneapogon lindleyanus* (1, 14%), *Enteropogon acicularis* (2, 14%), *Enteropogon unispiceus* (14%), *Eragrostis indet.* (3, 14%), *Eragrostis leptostachya* (1, 14%), *Eragrostis spartinooides* (25, 14%), *Eremochloa bimaculata* (14%), *Eriochloa crebra* (14%), *Eriochloa pseudoacrotricha* (14%), *Fuirena ciliaris* (2, 14%), *Ottochloa nodosa* (14%), *Panicum simile* (14%), *Paspalidium caespitosum* (2, 14%), *Paspalidium criniforme* (2, 14%), *Paspalidium indet.* (14%), *Paspalum conjugatum*\* (1, 14%), *Paspalum scrobiculatum* (1, 14%), *Scleria brownii* (14%), *Sporobolus caroli* (14%), *Sporobolus elongatus* (14%), *Themeda triandra* (10, 14%), *Urochloa mosambicensis*\* (14%)

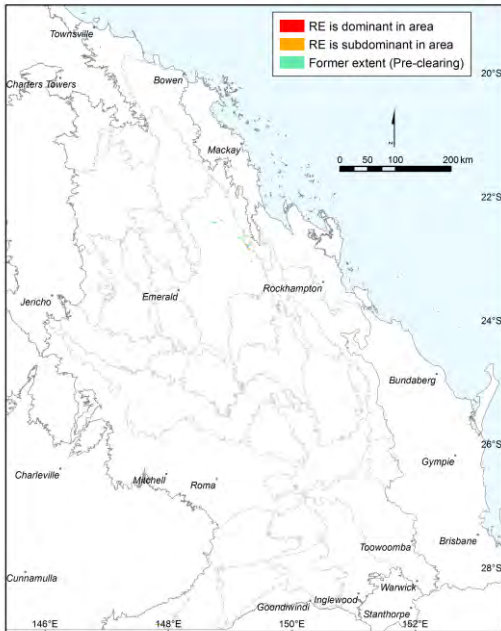
FORBS: *Brunoniella australis* (1, 71%), *Eremophila debilis* (71%), *Murdannia graminea* (57%), *Phyllanthus virgatus* (57%), *Rostellularia adscendens* (57%), *Alternanthera nana* (43%), *Breynia oblongifolia* (43%), *Sida hackettiana* (43%), *Alphitonia excelsa* (29%), *Cyanthillium cinereum* (29%), *Desmodium varians* (29%), *Euphorbia drummondii* (29%), *Evolvulus alsinoides* (29%), *Gomphrena celosiooides*\* (29%), *Ludwigia perennis* (29%), *Mecardonia procumbens*\* (29%), *Opuntia stricta*\* (29%), *Pterocaulon indet.* (29%), *Spermacoce brachystema* (29%), *Achyranthes aspera* (14%), *Alstonia constricta* (14%), *Alternanthera denticulata* var. *micrantha* (14%), *Aristolochia thozetii* (14%), *Bauhinia indet.* (1, 14%), *Bidens pilosa*\* (14%), *Boerhavia indet.* (14%), *Brunoniella acaulis* (14%), *Calyptocarpus vialis*\* (14%), *Capparis canescens* (14%), *Cassinia laevis* (1, 14%), *Centipeda minima* subsp. *minima* (14%), *Cheilanthes sieberi* (14%), *Corchorus trilocularis* (14%), *Cymbidium canaliculatum* (14%), *Denhamia cunninghamii* (14%), *Dianella caerulea* (14%), *Dianella longifolia* (4, 14%), *Dianella nervosa* (14%), *Dipteracanthus australasicus* (14%), *Eclipta prostrata*\* (14%), *Einadia nutans* (14%), *Emilia sonchifolia*\* (14%), *Emilia sonchifolia* var. *sonchifolia*\* (14%), *Erigeron sumatrensis*\* (14%), *Euphorbia dallachyana* (14%), *Euphorbia mitchelliana* (14%), *Galactia tenuiflora* (1, 14%), *Glossocardia bidens* (14%), *Glycine clandestina* (14%), *Gomphocarpus physocarpus*\* (14%), *Goodenia gracilis* (14%), *Grewia latifolia* (14%), *Hibiscus vitifolius* (14%), *Lindernia crustacea* (14%), *Lomandra confertifolia* subsp. *pallida* (14%), *Lomandra longifolia* (1, 14%), *Ludwigia octovalvis* (14%), *Malvastrum americanum* var. *americanum*\* (14%), *Malvastrum coromandelianum* subsp. *coromandelianum*\* (14%), *Myoporum acuminatum* (14%), *Neptunia gracilis* (14%), *Oldenlandia galioides* (14%), *Oldenlandia mitrasacmoides* subsp. *trachymenoides* (14%), *Opercularia diphylla* (14%), *Opuntia tomentosa*\* (14%), *Oxalis corniculata*\* (14%), *Passiflora suberosa*\* (14%), *Polygala triflora* (14%), *Polymeria calycina* (14%), *Pseuderanthemum variabile* (14%), *Psydrax odorata* (14%), *Pterocaulon redolens* (14%), *Rhynchosia minima* (14%), *Scoparia dulcis*\* (14%), *Secamone elliptica* (14%), *Senna barclayana* (14%), *Sida indet.* (14%), *Sida rohlenae* (14%), *Sida spinosa*\* (14%), *Solanum nigrum* subsp. *nigrum*\* (14%), *Spermacoce multicaulis* (1, 14%), *Sphaeromorphaea indet.* (14%), *Stemodia glabella* (14%), *Stylosanthes scabra*\* (1, 14%), *Symphytotrichum subulatum*\* (14%), *Synedrellopsis grisebachii*\* (14%), *Tephrosia filipes* (14%), *Triumfetta rhomboidea*\* (14%), *Verbena indet.* (14%), *Zornia indet.* (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

Freshwater wetlands



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 9,486 5,022 53%

Species\_recorded: Total: 30; woody: 2; ground: 28; Avg. spp./site: 16.0; std dev.: 5.0, 2 site(s)

Basal area: Avg./site: 11.3 m<sup>2</sup>/ha, range: 3.5 - 19 m<sup>2</sup>/ha, std. deviation: 8 m<sup>2</sup>/ha, 2 site(s)

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

Representative\_sites 19248, 42235.

Stratum: Tree 1

Height avg. = 20.5m, range 16-25m, 2 sites

Crown cover avg. = 9.0%, range 5.0-13.0%, 2 sites

Dominant species (relative cover, frequency): *Eucalyptus camaldulensis* (99, 100%), *Corymbia intermedia* (2, 50%)

Frequent species (cover, frequency): *Eucalyptus camaldulensis* (10, 100%), *Corymbia intermedia* (50%)

Stratum: Ground

Height avg. = 0.3m, range 0.1-0.5m, 2 sites

PFC avg. = 62.5%, range 40-85%, 2 sites

Dominant species (relative cover, frequency): *Phyla canescens*\* (63, 50%), *Eleocharis plana* (31, 100%), *Paspalum distichum* (13, 50%), *Marsilea drummondii* (13, 50%), *Cynodon dactylon*\* (12, 50%)

Frequent species (cover, frequency): GRAMINOIDS: *Eleocharis plana* (13, 100%), *Anthosachne scabra* (50%), *Austrostipa aristiglumis* (1, 50%), *Cynodon dactylon*\* (5, 50%), *Cyperus indet.* (50%), *Dichanthium sericeum subsp. sericeum* (50%), *Diplachne fusca*\* (5, 50%), *Echinochloa colona*\* (50%), *Eleocharis pallens* (1, 50%), *Juncus indet.* (50%), *Panicum decompositum* (50%), *Panicum laevinode* (50%), *Paspalum distichum* (10, 50%), *Paspalum scrobiculatum* (7, 50%)

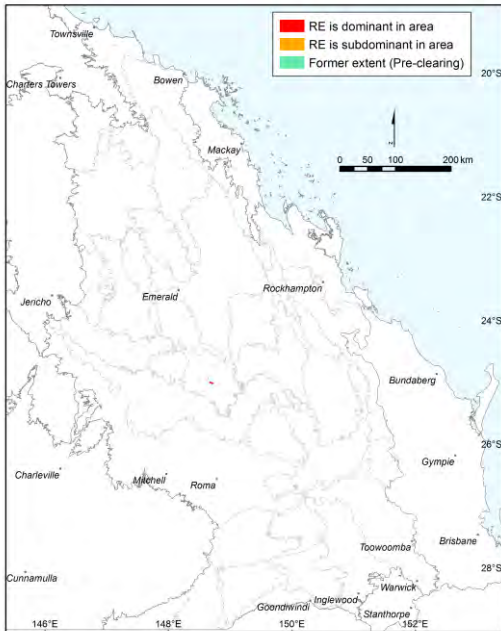
FORBS: *Alternanthera denticulata var. micrantha* (5, 50%), *Arthropodium strictum* (50%), *Asperula conferta* (50%), *Cirsium vulgare*\* (50%), *Euphorbia indet.* (50%), *Glinus lotoides* (50%), *Marsilea drummondii* (10, 50%), *Parthenium hysterophorus*\* (50%), *Phyla canescens*\* (50, 50%), *Ranunculus meristus* (50%), *Sesbania cannabina* (50%), *Sonchus oleraceus*\* (50%), *Verbena indet.* (50%), *Xanthium 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

Larger ephemeral - permanent water bodies (lakes)



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 4,281 3,784 88%

Species\_recorded: Total: 33; woody: 3; ground: 30; Avg. spp./site: 18.0; std dev.: 1.0, 2 site(s)

Basal area: 0

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

Representative\_sites 40798, 40799.

Stratum: Shrub 1

Height avg. = 1.0m, range 0.9-1m, 2 sites

Crown cover avg. = 17.5%, range 1.0-34.0%, 2 sites

Dominant species (relative cover, frequency): *Aeschynomene indica* (100, 50%), *Eucalyptus tereticornis* (91, 50%), *Eucalyptus coolabah* (9, 50%)

Frequent species (cover, frequency): *Aeschynomene indica* (34, 50%), *Eucalyptus coolabah* (50%), *Eucalyptus tereticornis* (1, 50%)

Stratum: Ground

Height avg. = 0.2m, range 0.2-0.2m, 2 sites

PFC avg. = 70.0%, range 42-98%, 2 sites

Dominant species (relative cover, frequency): *Spirodela oligorrhiza* (65, 50%), *Glinus lotoides* (24, 50%), *Cynodon dactylon*\* (14, 50%), *Marsilea hirsuta* (12, 100%), *Alternanthera denticulata* (12, 50%)

Frequent species (cover, frequency): GRAMINOIDS: *Hymenachne amplexicaulis* 'Olive'\* (3, 100%), *Cynodon dactylon*\* (6, 50%), *Cyperus exaltatus* (1, 50%), *Eleocharis dietrichiana* (50%), *Panicum paludosum* (3, 50%), *Paspalum distichum* (50%), *Urochloa mutica*\* (2, 50%)

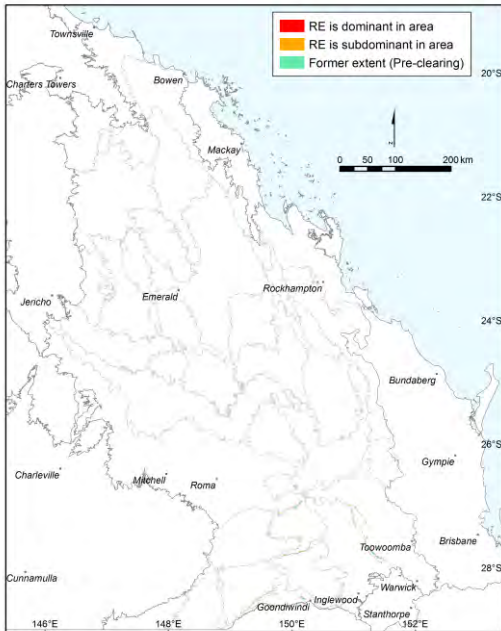
FORBS: *Marsilea hirsuta* (5, 100%), *Persicaria attenuata* (1, 100%), *Alternanthera denticulata* (5, 50%), *Ammannia multiflora* (50%), *Azolla indet.* (50%), *Basilicum polystachyon* (4, 50%), *Cardiospermum halicacabum*\* (50%), *Ceratophyllum demersum* (10, 50%), *Eclipta prostrata*\* (50%), *Eichhornia crassipes*\* (2, 50%), *Glinus lotoides* (10, 50%), *Heliotropium indicum*\* (2, 50%), *Ludwigia peploides* subsp. *montevidensis* (1, 50%), *Marsilea indet.* (50%), *Nelumbo nucifera* (50%), *Nymphoides geminata* (50%), *Parthenium hysterophorus*\* (50%), *Persicaria orientalis* (50%), *Pistia stratiotes*\* (5, 50%), *Sida indet.* (50%), *Sida spinosa*\* (50%), *Spirodela oligorrhiza* (64, 50%), *Utricularia aurea* (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

Open water +/- aquatics and emergents associated with lakes and larger waterholes



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 13,008 5,689 44%

Species\_recorded: Total: 103; woody: 14; ground: 93; Avg. spp./site: 14.6; std dev.: 8.9, 10 site(s)

Basal area: Avg./site: 9.7 m<sup>2</sup>/ha, range: 2.0 - 18 m<sup>2</sup>/ha, std. deviation: 6 m<sup>2</sup>/ha, 5 site(s)

Structural formation: Sedgeland: 40%; woodland: 30%; tussock grassland: 10%; open-woodland: 10%; herbland: 10%, 10 site(s)

Representative\_sites 13833, 13834, 14686, 17053, 38902, 40787, 40789, 40790, 40945, 40953.

**Stratum: Emergent**

Height avg. = 25.0m, range 25-25m, 2 sites

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

Frequent species (cover, frequency): *Eucalyptus tereticornis* (2, 10%)

**Stratum: Tree 1**

Height avg. = 16.3m, range 11-20m, 4 sites

Crown cover avg. = 33.0%, range 7.0-48.0%, 4 sites

Dominant species (relative cover, frequency): *Eucalyptus coolabah* (88, 30%)

Frequent species (cover, frequency): *Eucalyptus coolabah* (31, 30%), *Eucalyptus camaldulensis* (1, 20%), *Dendrophthoe homoplastica* (1, 10%), *Eucalyptus tereticornis* (37, 10%), *Lysiphylum hookeri* (10%), *Owenia acidula* (10%)

**Stratum: Tree 2**

Height avg. = 14.0m, 1 site

Crown cover avg. = 10.0%, 1 site

Frequent species (cover, frequency): *Acacia cambagei* (5, 10%), *Acacia harpophylla* (5, 10%), *Acacia salicina* (1, 10%), *Amyema maidenii* (1, 10%), *Eremophila mitchellii* (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. = 1.4m, range 1-2.2m, 4 sites

Crown cover avg. = 14.0%, range 1.0-49.0%, 4 sites

Frequent species (cover, frequency): *Acacia salicina* (1, 20%), *Duma florulenta* (35, 20%), *Atalaya hemiglauca* (1, 10%), *Eucalyptus tereticornis* (5, 10%), *Ludwigia octovalvis* (1, 10%)

**Stratum: Shrub 2**

Height avg. = 1.0m, 1 site

Crown cover avg. = 20.0%, 1 site

**Stratum: Ground**

Height avg. = 0.4m, range 0.01-1m, 10 sites

PFC avg. = 43.5%, range 1-73%, 10 sites

Dominant species (relative cover, frequency): *Eleocharis sphacelata* (53, 40%), *Pseudoraphis spinescens* (28, 40%), *Marsilea mutica* (15, 30%), *Ludwigia peploides subsp. montevidensis* (10, 40%), *Alternanthera denticulata* (5, 30%)

Frequent species (cover, frequency): GRAMINOIDS: *Eleocharis sphacelata* (31, 40%), *Pseudoraphis spinescens* (3, 40%), *Cyperus difformis* (1, 30%), *Cynodon dactylon\** (22, 20%), *Cyperus exaltatus* (2, 20%), *Paspalidium jubiflorum* (4, 20%), *Paspalum distichum* (19, 20%), *Bothriochloa decipiens var. decipiens* (1, 10%), *Carex inversa* (10%), *Cyperus alopecuroides* (10%), *Cyperus scariosus* (1, 10%), *Cyperus victoriensis* (10%), *Echinochloa colona\** (1, 10%), *Eleocharis pallens* (50, 10%), *Eleocharis plana* (2, 10%), *Enteropogon ramosus* (5, 10%), *Eriochloa pseudoacrotricha* (10%), *Eulalia aurea* (10%), *Juncus aridicola* (10%), *Juncus continuus* (10%), *Juncus usitatus* (10%), *Leptochloa digitata* (10%), *Panicum larcomianum* (3, 10%), *Poaceae indet.* (10%), *Sporobolus caroli* (10%), *Sporobolus mitchellii* (20, 10%), *Urochloa mutica\** (2, 10%)  
 FORBS: *Ludwigia peploides subsp. montevidensis* (6, 40%), *Xanthium occidentale\** (1, 40%), *Alternanthera denticulata* (3, 30%), *Marsilea indet.* (2, 30%), *Marsilea mutica* (8, 30%), *Phyla canescens\** (30%), *Azolla pinnata* (1, 20%), *Commelina diffusa* (5, 20%), *Haloragis indet.* (20%), *Medicago polymorpha\** (20%), *Ottelia ovalifolia* (1, 20%), *Persicaria lapathifolia* (20%), *Persicaria prostrata* (20%), *Spirodela oligorrhiza* (2, 20%), *Aeschynomene indica* (10%), *Alternanthera denticulata var. denticulata* (10%), *Alternanthera denticulata var. micrantha* (10%), *Alternanthera nodiflora* (10%), *Amaranthus macrocarpus* (10%), *Ammannia multiflora* (10%), *Boerhavia dominii* (1, 10%), *Calotis cuneata* (10%), *Ceratophyllum demersum* (10%), *Cirsium vulgare\** (10%), *Cullen cinereum* (10%), *Cullen tenax* (1, 10%), *Dentella repens* (2, 10%), *Duma florulenta* (10%), *Eclipta prostrata\** (10, 10%), *Einadia nutans subsp. nutans* (10%), *Elatine gratioloides* (1, 10%), *Euphorbia dallachyana* (10%), *Euphorbia indet.* (10%), *Galactia tenuiflora* (10%), *Glinus lotoides* (6, 10%), *Glinus oppositifolius* (10%), *Goodenia fascicularis* (10%), *Heliotropium indicum\** (10%), *Lemna indet.* (10%), *Lepidium bonariense\** (10%), *Ludwigia octovalvis* (10%), *Macroptilium lathyroides\** (10%), *Malvastrum americanum var. americanum\** (10%), *Marsilea drummondii* (10%), *Marsilea hirsuta* (10%), *Najas tenuifolia* (2, 10%), *Neptunia gracilis* (10%), *Nymphaea gigantea* (1, 10%), *Nymphoides indica* (10%), *Parthenium hysterophorus\** (10%), *Persicaria attenuata* (10%), *Phyla indet.* (2, 10%), *Polygonum aviculare\** (10%), *Potamogeton tricarlinatus* (10%), *Rumex indet.* (10%), *Senecio brigalowensis* (10%), *Sesbania cannabina* (10%), *Sesbania cannabina var. cannabina* (3, 10%), *Sida rhombifolia\** (10%), *Sida rohlenae subsp. rohlenae* (10%), *Sonchus oleraceus\** (10%), *Stellaria angustifolia* (2, 10%), *Symphytotrichum subulatum\** (10%), *Tetragonia tetragonoides* (5, 10%), *Vigna lanceolata var. lanceolata* (10%), *Xanthium indet.* (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



Mixed grassland or sedgeland with areas of open water +/- aquatic species



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 1,845 1,345 73%

Species\_recorded: Total: 44; woody: 2; ground: 43; Avg. spp./site: 14.0; std dev.: 4.0, 7 site(s)

Basal area: 0

Structural formation: Closed-herbland: 57%; sedgeland: 14%; herbland: 14%; closed-sedgeland: 14%, 7 site(s)

Representative\_sites 40797, 40918, 40919, 40920, 40923, 40926, 40935.

**Stratum: Shrub 1**

Height avg. = 1.2m, 1 site

Crown cover avg. = 96.4%, 1 site

Frequent species (cover, frequency): *Nelumbo nucifera* (95, 14%), *Persicaria orientalis* (6, 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. = 0.4m, range 0.1-0.6m, 7 sites

PFC avg. = 86.7%, range 76-95%, 7 sites

*Dominant species (relative cover, frequency):* *Eleocharis sphacelata* (36, 57%), *Marsilea mutica* (31, 43%), *Najas tenuifolia* (20, 57%), *Spirodela indet.* (18, 43%), *Pseudoraphis paradoxa* (13, 71%)

*Frequent species (cover, frequency): GRAMINOIDS:* *Paspalum distichum* (3, 71%), *Pseudoraphis paradoxa* (10, 71%), *Eleocharis sphacelata* (30, 57%), *Cyperus exaltatus* (1, 29%), *Echinochloa colona\** (1, 29%), *Eleocharis dietrichiana* (4, 29%), *Hymenachne amplexicaulis\** (29%), *Pseudoraphis spinescens* (1, 29%), *Urochloa mutica\** (29%), *Cynodon dactylon\** (14%), *Juncus indet.* (14%), *Juncus usitatus* (14%), *Leersia hexandra* (5, 14%), *Panicum paludosum* (14%)

*FORBS:* *Ludwigia peploides subsp. montevidensis* (8, 100%), *Azolla pinnata* (1, 86%), *Ceratophyllum demersum* (3, 86%), *Najas tenuifolia* (15, 57%), *Nymphaea immutabilis* (5, 57%), *Eclipta prostrata\** (2, 43%), *Marsilea indet.* (3, 43%), *Marsilea mutica* (28, 43%), *Spirodela indet.* (15, 43%), *Utricularia stellaris* (3, 43%), *Aeschynomene indica* (1, 29%), *Eichhornia crassipes\** (5, 29%), *Nymphaea indet.* (2, 29%), *Nymphoides indica* (29%), *Ottelia ovalifolia* (1, 29%), *Alternanthera denticulata* (14%), *Basilicum polystachyon* (14%), *Centella asiatica* (14%), *Gnaphalium polycaulon\** (14%), *Heliotropium indicum\** (14%), *Ipomoea aquatica* (48, 14%), *Ludwigia octovalvis* (14%), *Marsilea hirsuta* (1, 14%), *Nelumbo nucifera* (10, 14%), *Nymphaea violacea* (14%), *Nymphoides crenata* (14%), *Persicaria attenuata* (14%), *Potamogeton tricarlinatus* (14%), *Vallisneria nana* (14%)

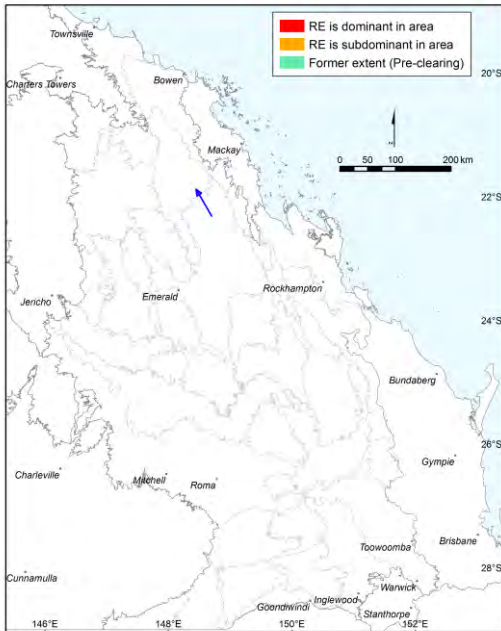
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**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with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

**Eucalyptus coolabah and/or E. tereticornis open woodland to woodland fringing swamps**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 1,670 846 51%

Species\_recorded: Total: 88; woody: 12; ground: 78; Avg. spp./site: 10.8; std dev.: 7.7, 9 site(s)

Basal area: Avg./site: 16.5 m<sup>2</sup>/ha, range: 5.0 - 28 m<sup>2</sup>/ha, std. deviation: 12 m<sup>2</sup>/ha, 4 site(s)

Structural formation: Woodland: 20%; open-sedgeland: 20%; open-forest: 20%; tussock grassland: 10%; open-herbland: 10%; herbland: 10%; closed-sedgeland: 10%, 10 site(s)

Representative\_sites 17031, 17559, 38877, 40785, 40786, 40795, 40936, 40939, 40941, 40946.

**Stratum: Tree 1**

Height avg. = 13.0m, range 7-20m, 4 sites

Crown cover avg. = 34.0%, range 0.0-69.0%, 5 sites

Dominant species (relative cover, frequency): *Eucalyptus coolabah* (83, 30%)

Frequent species (cover, frequency): *Eucalyptus coolabah* (24, 30%), *Allocasuarina luehmannii* (5, 10%), *Eucalyptus camaldulensis* (69, 10%), *Eucalyptus tereticornis* (10%), *Melaleuca bracteata* (25, 10%)

**Stratum: Shrub 1**

Height avg. = 1.3m, range 0.5-2m, 3 sites

Crown cover avg. = 2.3%, range 1.0-4.0%, 3 sites

Frequent species (cover, frequency): *Acacia indet.* (1, 10%), *Aeschynomene indica* (1, 10%), *Bidens pilosa*\* (10%), *Eremophila bignoniiflora* (2, 10%), *Parkinsonia aculeata*\* (10%), *Psydrax oleifolia* (1, 10%), *Sclerolaena muricata* var. *muricata* (1, 10%)

**Stratum: Shrub 2**

Height avg. = 1.0m, 1 site

Crown cover avg. = 0.0%, 1 site

Frequent species (cover, frequency): *Aeschynomene indica* (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: Ground**

Height avg. = 0.2m, range 0.1-0.4m, 9 sites

PFC avg. = 42.4%, range 1-100%, 9 sites

*Dominant species (relative cover, frequency):* *Eleocharis pallens* (78, 22%), *Eleocharis sphacelata* (44, 44%), *Echinochloa colona*\* (36, 22%), *Eleocharis plana* (32, 22%), *Pseudoraphis spinescens* (28, 22%)

*Frequent species (cover, frequency):* GRAMINOIDS: *Eleocharis sphacelata* (12, 44%), *Dinebra divaricatissima* (4, 33%), *Cyperus exaltatus* (22%), *Cyperus indet.* (1, 22%), *Echinochloa colona*\* (25, 22%), *Eleocharis pallens* (56, 22%), *Eleocharis plana* (2, 22%), *Panicum decompositum* var. *decompositum* (3, 22%), *Pseudoraphis spinescens* (17, 22%), *Aristida lignosa* (1, 11%), *Austrostipa verticillata* (5, 11%), *Bothriochloa decipiens* var. *decipiens* (11%), *Cenchrus ciliaris*\* (11%), *Chloris truncata* (11%), *Chrysopogon fallax* (11%), *Cyperus concinnus* (11%), *Cyperus difformis* (11%), *Cyperus haspan* subsp. *haspan* (11%), *Cyperus platystylis* (3, 11%), *Eleocharis blakeana* (30, 11%), *Enneapogon gracilis* (11%), *Enteropogon acicularis* (11%), *Juncus indet.* (11%), *Leersia hexandra* (6, 11%), *Panicum queenslandicum* (3, 11%), *Paspalidium caespitosum* (11%), *Walwhalleya subxerophila* (11%)

FORBS: *Azolla pinnata* (2, 33%), *Boerhavia dominii* (1, 22%), *Einadia nutans* subsp. *nutans* (3, 22%), *Ludwigia peploides* subsp. *montevidensis* (4, 22%), *Marsilea indet.* (1, 22%), *Sclerolaena muricata* var. *muricata* (22%), *Sesbania cannabina* var. *cannabina* (22%), *Abutilon oxycarpum* var. *incanum* (11%), *Alternanthera denticulata* (11%), *Ammannia multiflora* (1, 11%), *Apowollastonia spilanthis* (11%), *Caldesia oligococca* (16, 11%), *Capparis mitchellii* (11%), *Ceratophyllum demersum* (11%), *Cycnogeton procerus* (11%), *Dysphania indet.* (1, 11%), *Dysphania pumilio* (1, 11%), *Eichhornia crassipes*\* (11%), *Enchylaena tomentosa* (11%), *Enchylaena tomentosa* var. *tomentosa* (11%), *Euphorbia dallachyana* (11%), *Glinus lotoides* (11%), *Goodenia gracilis* (11%), *Harrisia martinii*\* (11%), *Lepidium bonariense*\* (11%), *Ludwigia octovalvis* (1, 11%), *Malvastrum americanum* var. *americanum*\* (11%), *Marsilea hirsuta* (15, 11%), *Nymphoides indica* (11%), *Ottelia ovalifolia* (11%), *Oxalis indet.* (11%), *Oxalis perennans* (11%), *Persicaria orientalis* (11%), *Phyla canescens*\* (11%), *Physalis lanceifolia*\* (11%), *Portulaca oleracea*\* (5, 11%), *Sida trichopoda* (11%), *Sonchus oleraceus*\* (11%), *Spirodela indet.* (4, 11%), *Spirodela oligorrhiza* (11%), *Utricularia aurea* (3, 11%), *Xanthium occidentale*\* (1, 11%)

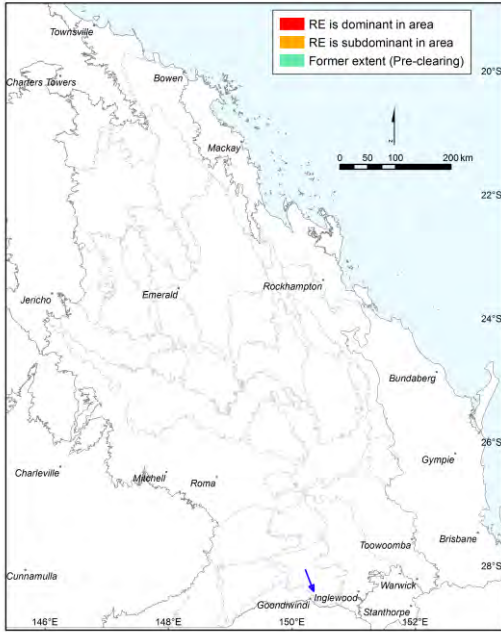
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**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with 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 camaldulensis woodland with Eleocharis spp. ground layer**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 605 151 25%

Species\_recorded: Total: 32; woody: 4; ground: 28; Avg. spp./site: 10.0; std dev.: 4.3, 3 site(s)

Basal area: Avg./site: 16.5 m<sup>2</sup>/ha, range: 8.0 - 34 m<sup>2</sup>/ha, std. deviation: 10 m<sup>2</sup>/ha, 4 site(s)

Structural formation: Woodland: 40%; open-woodland: 20%; open-forest: 20%; closed-sedgeland: 20%, 5 site(s)

Representative\_sites 16961, 16962, 40794, 40940, 40952.

**Stratum: Tree 1**

Height avg. = 17.0m, range 12-22m, 4 sites

Crown cover avg. = 32.5%, range 18.0-67.0%, 4 sites

Dominant species (relative cover, frequency): *Eucalyptus camaldulensis* (67, 60%)

Frequent species (cover, frequency): *Eucalyptus camaldulensis* (30, 60%), *Eucalyptus coolabah* (14, 20%), *Eucalyptus largiflorens* (4, 20%), *Eucalyptus tereticornis* (25, 20%)

**Stratum: Tree 2**

Height avg. = 8.0m, 1 site

Crown cover avg. = 19.0%, 1 site

Frequent species (cover, frequency): *Eucalyptus camaldulensis* (19, 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. = 0.4m, range 0.2-0.5m, 3 sites****PFC avg. = 70.7%, range 51-83%, 3 sites**

*Dominant species (relative cover, frequency):* *Eleocharis pallens* (69, 33%), *Eleocharis sphacelata* (36, 67%), *Paspalidium jubiflorum* (33, 67%), *Lemna aequinoctialis* (28, 33%), *Alternanthera denticulata var. denticulata* (18, 33%)

*Frequent species (cover, frequency):* GRAMINOIDS: *Eleocharis sphacelata* (39, 67%), *Paspalidium jubiflorum* (18, 67%), *Cyperus difformis* (33%), *Diplachne fusca var. fusca* (33%), *Eleocharis pallens* (58, 33%), *Eleocharis plana* (1, 33%), *Juncus aridicola* (1, 33%), *Panicum decompositum var. tenuius* (8, 33%), *Walwhalleya subxerophila* (33%)

FORBS: *Marsilea indet.* (7, 67%), *Phyla canescens\** (67%), *Aeschynomene indica* (33%), *Alternanthera denticulata* (33%), *Alternanthera denticulata var. denticulata* (15, 33%), *Cycnogeton procerus* (1, 33%), *Dysphania ambrosioides\** (33%), *Glycyrrhiza acanthocarpa* (4, 33%), *Leiocarpa websteri* (33%), *Lemna aequinoctialis* (30, 33%), *Marsilea mutica* (33%), *Opuntia indet.* (33%), *Rumex dumosus* (33%), *Spirodela indet.* (33%), *Utricularia stellaris* (33%)

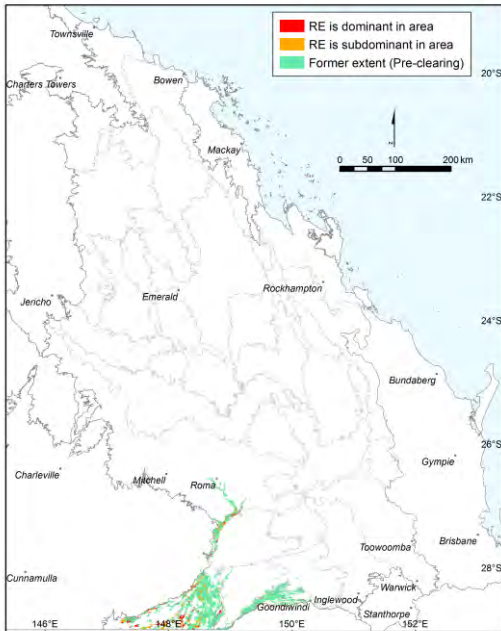
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Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 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 coolabah +/- Casuarina cristata open woodland on alluvial plains**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 463,497 61,476 13%

Species\_recorded: Total: 80; woody: 8; ground: 74; Avg. spp./site: 30.7; std dev.: 7.0, 3 site(s)

Basal area: Avg./site: 15.2 m<sup>2</sup>/ha, range: 11.5 - 21 m<sup>2</sup>/ha, std. deviation: 4 m<sup>2</sup>/ha, 3 site(s)

Structural formation: Woodland: 67%; open-woodland: 33%, 3 site(s)

Representative\_sites 16945, 17092, 17117.

**Stratum: Tree 1**

Height avg. = 15.3m, range 10-21m, 3 sites

Crown cover avg. = 20.0%, range 15.0-25.0%, 3 sites

Dominant species (relative cover, frequency): *Eucalyptus coolabah* (89, 100%), *Casuarina cristata* (33, 33%)

Frequent species (cover, frequency): *Eucalyptus coolabah* (18, 100%), *Casuarina cristata* (5, 33%), *Duma florulenta* (33%), *Eucalyptus populnea* (33%)

**Stratum: Tree 2**

Height avg. = 10.0m, range 7-15m, 3 sites

Crown cover avg. = 8.0%, range 7.0-10.0%, 3 sites

Dominant species (relative cover, frequency): *Eucalyptus coolabah* (71, 33%), *Atalaya hemiglauca* (71, 33%), *Casuarina cristata* (52, 100%)

Frequent species (cover, frequency): *Casuarina cristata* (5, 100%), *Atalaya hemiglauca* (5, 33%), *Eucalyptus coolabah* (5, 33%)

**Stratum: Tree 3**

Height avg. = 6.0m, 1 site

Crown cover avg. = 20.0%, 1 site

Dominant species (relative cover, frequency): *Casuarina cristata* (100, 33%)

Frequent species (cover, frequency): *Casuarina cristata* (20, 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. = 3.0m, 1 site

Crown cover avg. = 5.0%, 1 site

Dominant species (relative cover, frequency): *Eremophila bignoniiflora* (50, 33%), *Casuarina cristata* (33, 33%), *Capparis lasiantha* (8, 33%), *Acacia stenophylla* (8, 33%)

Frequent species (cover, frequency): *Acacia stenophylla* (1, 33%), *Capparis lasiantha* (1, 33%), *Casuarina cristata* (2, 33%), *Eremophila bignoniiflora* (3, 33%)

**Stratum: Ground**

Height avg. = 0.7m, range 0.5-1m, 3 sites

PFC avg. = 26.7%, range 15-40%, 3 sites

Dominant species (relative cover, frequency): *Poaceae indet.* (58, 33%), *Paspalidium caespitosum* (34, 33%), *Panicum decompositum* (22, 33%), *Carex inversa* (19, 33%), *Paspalidium indet.* (17, 33%)

Frequent species (cover, frequency): GRAMINOIDS: *Enteropogon acicularis* (3, 67%), *Eragrostis lacunaria* (1, 67%), *Sporobolus caroli* (1, 67%), *Aristida jerichoensis* var. *subspinulifera* (1, 33%), *Carex inversa* (5, 33%), *Cenchrus ciliaris*\* (1, 33%), *Chloris ventricosa* (1, 33%), *Cynodon dactylon*\* (33%), *Cyperus concinnus* (3, 33%), *Cyperus gracilis* (1, 33%), *Cyperus rotundus*\* (1, 33%), *Dichanthium indet.* (1, 33%), *Digitaria ammophila* (1, 33%), *Dinebra decipiens* (1, 33%), *Enneapogon polyphyllus* (1, 33%), *Eragrostis leptocarpa* (2, 33%), *Eriochloa pseudoacrotricha* (1, 33%), *Panicum decompositum* (10, 33%), *Panicum effusum* (33%), *Paspalidium caespitosum* (15, 33%), *Paspalidium indet.* (5, 33%), *Poaceae indet.* (15, 33%), *Sporobolus creber* (1, 33%), *Sporobolus mitchellii* (1, 33%)

FORBS: *Duma florulenta* (1, 100%), *Asperula conferta* (67%), *Oxalis indet.* (1, 67%), *Abutilon otocarpum* (1, 33%), *Alternanthera nana* (33%), *Atriplex elachophylla* (1, 33%), *Boerhavia dominii* (1, 33%), *Boerhavia indet.* (33%), *Calotis lappulacea* (1, 33%), *Calotis scapigera* (1, 33%), *Capparis lasiantha* (1, 33%), *Chrysocephalum apiculatum* (1, 33%), *Commelina diffusa* (1, 33%), *Eclipta platyglossa* (33%), *Einadia nutans* (1, 33%), *Einadia nutans* subsp. *linifolia* (2, 33%), *Einadia nutans* subsp. *nutans* (33%), *Eremophila debilis* (1, 33%), *Eremophila maculata* (33%), *Erigeron bonariensis*\* (1, 33%), *Erigeron pusillus*\* (1, 33%), *Euphorbia dallachyana* (33%), *Euphorbia drummondii* (1, 33%), *Fabaceae indet.* (2, 33%), *Geijera parviflora* (1, 33%), *Gomphrena celosioides*\* (1, 33%), *Goodenia fascicularis* (33%), *Maireana decalvans* (33%), *Maireana indet.* (1, 33%), *Malvastrum americanum* var. *americanum*\* (1, 33%), *Marsilea drummondii* (1, 33%), *Marsilea indet.* (1, 33%), *Medicago indet.* (33%), *Neptunia gracilis* (33%), *Opuntia aurantiaca*\* (1, 33%), *Oxalis perennans* (33%), *Phyllanthus indet.* (1, 33%), *Phyllanthus virgatus* (33%), *Rhagodia spinescens* (1, 33%), *Rostellularia adscendens* var. *hispida* (2, 33%), *Sclerolaena bicornis* (2, 33%), *Sclerolaena indet.* (1, 33%), *Sclerolaena muricata* var. *semiglabra* (1, 33%), *Sclerolaena tetracuspis* (1, 33%), *Sida indet.* (1, 33%), *Solanum parvifolium* (33%), *Sphaeromorphaea australis* (1, 33%), *Tetragonia tetragonoides* (1, 33%), *Verbena indet.* (1, 33%), *Wahlenbergia gracilis* (1, 33%)

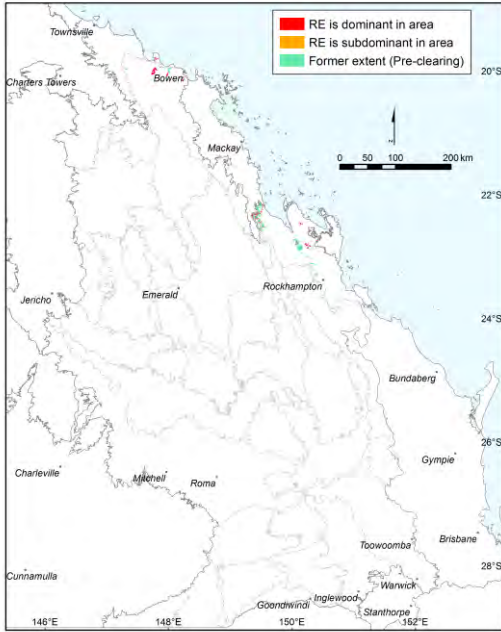
Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive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



**Eucalyptus crebra +/- Corymbia dallachiana +/- C. erythrophloia, E. moluccana woodland**



Jesse Rowland

**Pre-clearing area (ha), remnant area (ha) and per cent remaining:** 51,532 16,793 33%

**Species\_recorded:** Total: 86; woody: 14; ground: 77; Avg. spp./site: 36.3; std dev.: 11.5, 4 site(s)

**Basal area:** Avg./site: 19.6 m<sup>2</sup>/ha, range: 4.5 - 35 m<sup>2</sup>/ha, std. deviation: 11 m<sup>2</sup>/ha, 4 site(s)

**Structural formation:** Woodland: 100%, 4 site(s)

**Representative\_sites** 19103, 59083, 59086, 59087.

**Stratum: Tree 1**

**Height avg. = 20.8m, range 17-24m, 4 sites**  
**Crown cover avg. = 27.5%, range 20.0-35.0%, 4 sites**

*Dominant species (relative cover, frequency): Eucalyptus crebra (55, 100%), Eucalyptus tereticornis subsp. tereticornis (22, 75%), Eucalyptus populnea (21, 50%), Corymbia clarksoniana (18, 75%), Eucalyptus platyphylla (11, 25%)*

*Frequent species (cover, frequency): Eucalyptus crebra (14, 100%), Corymbia clarksoniana (5, 75%), Eucalyptus tereticornis subsp. tereticornis (6, 75%), Corymbia tessellaris (1, 50%), Eucalyptus populnea (5, 50%), Eucalyptus platyphylla (2, 25%), Eucalyptus tereticornis (25%)*

**Stratum: Tree 2**

**Height avg. = 9.1m, range 7-14m, 4 sites**  
**Crown cover avg. = 4.5%, range 1.0-7.0%, 4 sites**

*Dominant species (relative cover, frequency): Eucalyptus tereticornis (71, 25%), Eucalyptus crebra (58, 75%), Eucalyptus populnea (33, 25%), Corymbia clarksoniana (33, 25%), Corymbia dallachiana (27, 50%)*

*Frequent species (cover, frequency): Eucalyptus crebra (2, 75%), Corymbia dallachiana (2, 50%), Corymbia clarksoniana (3, 25%), Eucalyptus platyphylla (25%), Eucalyptus populnea (3, 25%), Eucalyptus tereticornis (1, 25%), Melaleuca viridiflora var. viridiflora (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 3-5.5m, 4 sites

Crown cover avg. = 1.0%, range 0.0-2.0%, 4 sites

Dominant species (relative cover, frequency): *Acacia disparrima* subsp. *disparrima* (94, 25%), *Melaleuca viridiflora* var. *viridiflora* (67, 50%), *Corymbia dallachiana* (67, 25%), *Vachellia bidwillii* (50, 25%), *Eucalyptus tereticornis* (50, 25%)

Frequent species (cover, frequency): *Melaleuca viridiflora* var. *viridiflora* (2, 50%), *Acacia disparrima* subsp. *disparrima* (2, 25%), *Corymbia dallachiana* (1, 25%), *Eucalyptus tereticornis* (25%), *Psyrax longipes* (25%), *Vachellia bidwillii* (25%)

**Stratum: Shrub 2**

Height avg. = 2.2m, 1 site

Crown cover avg. = 1.0%, 1 site

Dominant species (relative cover, frequency): *Petalostigma pubescens* (80, 25%), *Acacia salicina* (20, 25%)

Frequent species (cover, frequency): *Acacia salicina* (1, 25%), *Petalostigma pubescens* (2, 25%)

**Stratum: Ground**

Height avg. = 0.5m, range 0.25-0.9m, 4 sites

PFC avg. = 52.5%, range 25-85%, 4 sites

Dominant species (relative cover, frequency): *Themeda triandra* (42, 100%), *Bothriochloa decipiens* var. *decipiens* (21, 75%), *Arundinella nepalensis* (17, 25%), *Eragrostis sororia* (16, 50%), *Paspalidium distans* (12, 50%)

Frequent species (cover, frequency): GRAMINOIDS: *Chrysopogon fallax* (1, 100%), *Fimbristylis dichotoma* (1, 100%), *Heteropogon contortus* (1, 100%), *Themeda triandra* (28, 100%), *Bothriochloa decipiens* var. *decipiens* (6, 75%), *Chloris inflata*\* (50%), *Cymbopogon refractus* (1, 50%), *Cyperus fulvus* (50%), *Cyperus gracilis* (50%), *Dinebra decipiens* var. *decipiens* (2, 50%), *Eragrostis sororia* (7, 50%), *Eragrostis spartinooides* (1, 50%), *Eriochloa pseudoacrotricha* (50%), *Paspalidium distans* (5, 50%), *Abildgaardia ovata* (25%), *Arundinella nepalensis* (10, 25%), *Bothriochloa bladhii* subsp. *bladhii* (1, 25%), *Chloris divaricata* var. *divaricata* (25%), *Dichanthium aristatum*\* (25%), *Dinebra decipiens* (25%), *Melinis repens*\* (25%), *Ottocloa nodosa* (25%), *Panicum effusum* (25%), *Panicum simile* (25%), *Paspalidium rarum* (25%), *Sporobolus creber* (1, 25%), *Urochloa mosambicensis*\* (25%), *Urochloa whiteana* (25%)

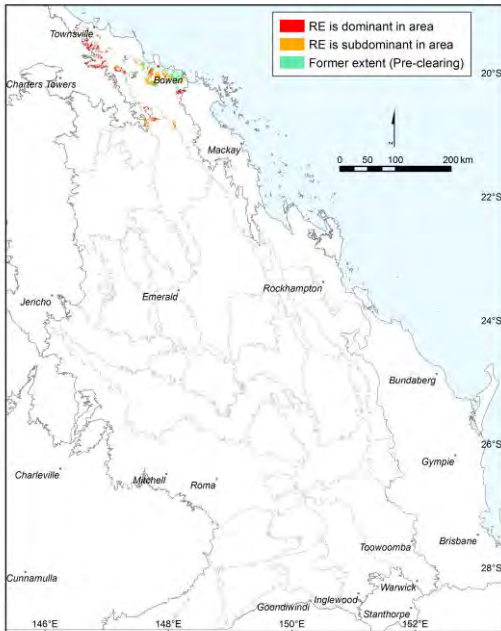
FORBS: *Stylosanthes scabra*\* (100%), *Cyanthillium cinereum* (75%), *Murdannia graminea* (75%), *Phyllanthus virgatus* (1, 75%), *Rostellularia adscendens* (75%), *Sida hackettiana* (75%), *Sida spinosa*\* (75%), *Alternanthera nana* (50%), *Commelina diffusa* (50%), *Corymbia dallachiana* (50%), *Emilia sonchifolia* var. *sonchifolia*\* (50%), *Eremophila debilis* (50%), *Eucalyptus crebra* (1, 50%), *Glycine clandestina* (50%), *Opuntia stricta*\* (50%), *Polygala triflora* (50%), *Pterocaulon redolens* (50%), *Spermacoce brachystema* (50%), *Sphaeromorphaea indet.* (50%), *Acmella grandiflora* var. *brachyglossa* (25%), *Alysicarpus bupleurifolius*\* (25%), *Asclepias curassavica*\* (25%), *Brunoniella acaulis* (3, 25%), *Brunoniella acaulis* subsp. *acaulis* (25%), *Brunoniella australis* (25%), *Centipeda minima* subsp. *minima* (25%), *Corymbia clarksoniana* (25%), *Crinum flaccidum* (25%), *Dianella caerulea* (25%), *Dianella nervosa* (25%), *Erigeron bonariensis*\* (25%), *Eucalyptus tereticornis* subsp. *tereticornis* (25%), *Evolvulus alsinoides* (25%), *Galactia tenuiflora* var. *lucida* (1, 25%), *Glossocardia bidens* (25%), *Glycine cyrtoloba* (25%), *Gomphrena celosioides*\* (25%), *Ludwigia perennis* (25%), *Mecardonia procumbens*\* (25%), *Melaleuca viridiflora* var. *viridiflora* (25%), *Portulaca pilosa*\* (25%), *Praxelis clematidea*\* (25%), *Psyrax odorata* (25%), *Ruellia tuberosa*\* (3, 25%), *Sida cordifolia*\* (25%), *Stylosanthes hamata*\* (1, 25%), *Symphyotrichum subulatum*\* (25%), *Uraria picta* (25%), *Zornia dyctiocarpa* var. *filifolia* (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 crebra, Corymbia dallachiana woodland on alluvial plains**



Adrian Borsboom

**Pre-clearing area (ha), remnant area (ha) and per cent remaining:** 100,029 65,845 66%

**Species\_recorded:** Total: 81; woody: 18; ground: 65; Avg. spp./site: 29.3; std dev.: 4.0, 4 site(s)

**Basal area:** Avg./site: 10.3 m<sup>2</sup>/ha, range: 7.0 - 16 m<sup>2</sup>/ha, std. deviation: 4 m<sup>2</sup>/ha, 4 site(s)

**Structural formation:** Woodland: 75%; open-woodland: 25%, 4 site(s)

**Representative\_sites** 19038, 55054, 55074, 55094.

**Stratum: Tree 1**

**Height avg. = 14.5m, range 13-17m, 4 sites**  
**Crown cover avg. = 24.5%, range 13.0-36.0%, 4 sites**

*Dominant species (relative cover, frequency): Eucalyptus drepanophylla (91, 75%), Eucalyptus crebra (75, 25%), Corymbia clarksoniana (27, 25%), Corymbia dallachiana (25, 25%)*

*Frequent species (cover, frequency): Eucalyptus drepanophylla (24, 75%), Corymbia erythrophloia (50%), Corymbia clarksoniana (4, 25%), Corymbia dallachiana (6, 25%), Eucalyptus crebra (18, 25%)*

**Stratum: Tree 2**

**Height avg. = 5.8m, range 5-8m, 4 sites**  
**Crown cover avg. = 8.5%, range 1.0-15.0%, 4 sites**

*Dominant species (relative cover, frequency): Eucalyptus crebra (100, 25%), Corymbia erythrophloia (95, 25%), Corymbia dallachiana (40, 50%), Melaleuca viridiflora var. viridiflora (29, 75%), Corymbia clarksoniana (22, 25%)*

*Frequent species (cover, frequency): Melaleuca viridiflora var. viridiflora (3, 75%), Corymbia dallachiana (6, 50%), Eucalyptus drepanophylla (50%), Eucalyptus platyphylla (50%), Corymbia clarksoniana (3, 25%), Corymbia erythrophloia (7, 25%), Dockrillia nugentii (25%), Eucalyptus crebra (25%), Grevillea striata (2, 25%), Planchonia careya (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 3**

Height avg. = 2.8m, 1 site

Crown cover avg. = 1.0%, 1 site

Dominant species (relative cover, frequency): *Melaleuca viridiflora* var. *viridiflora* (100, 25%)

Frequent species (cover, frequency): *Melaleuca viridiflora* var. *viridiflora* (1, 25%)

**Stratum: Shrub 1**

Height avg. = 2.3m, range 1-4m, 3 sites

Crown cover avg. = 1.0%, range 0.0-2.0%, 3 sites

Dominant species (relative cover, frequency): *Acacia salicina* (100, 25%), *Acacia holosericea* (45, 50%), *Lantana camara*\* (25, 25%), *Melaleuca viridiflora* var. *viridiflora* (17, 25%), *Planchonia careya* (14, 50%)

Frequent species (cover, frequency): *Acacia holosericea* (1, 50%), *Melaleuca nervosa* (50%), *Planchonia careya* (50%), *Acacia salicina* (25%), *Corymbia dallachiana* (25%), *Grevillea parallela* (25%), *Lantana camara*\* (25%), *Melaleuca viridiflora* var. *viridiflora* (1, 25%), *Psychodra saligna* (25%), *Vachellia bidwillii* (25%)

**Stratum: Shrub 2**

Height avg. = 2.5m, 1 site

Crown cover avg. = 1.0%, 1 site

Dominant species (relative cover, frequency): *Stachytarpheta jamaicensis*\* (20, 25%), *Eucalyptus crebra* (20, 25%), *Corymbia erythrophloia* (20, 25%), *Corymbia dallachiana* (20, 25%), *Acacia salicina* (20, 25%)

Frequent species (cover, frequency): *Acacia salicina* (25%), *Corymbia dallachiana* (25%), *Corymbia erythrophloia* (25%), *Eucalyptus crebra* (25%), *Stachytarpheta jamaicensis*\* (25%)

**Stratum: Ground**

Height avg. = 0.4m, range 0.2-0.6m, 4 sites

PFC avg. = 41.0%, range 25-53%, 4 sites

Dominant species (relative cover, frequency): *Bothriochloa pertusa*\* (83, 25%), *Heteropogon contortus* (46, 100%), *Aristida utilis* (18, 25%), *Chrysopogon fallax* (9, 75%), *Alysicarpus bupleurifolius*\* (5, 25%)

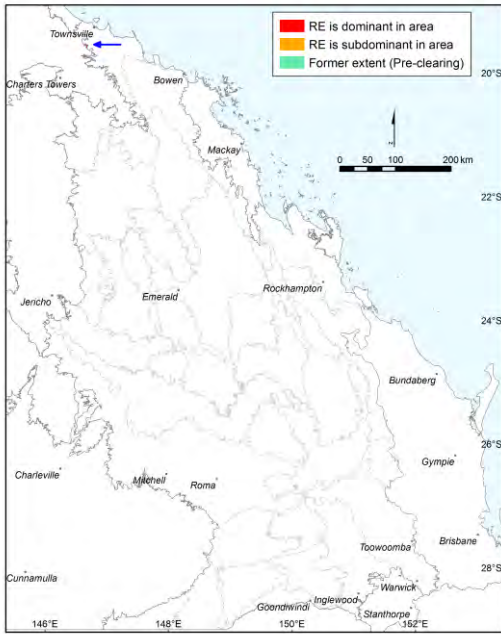
Frequent species (cover, frequency): GRAMINOIDS: *Heteropogon contortus* (22, 100%), *Chrysopogon fallax* (4, 75%), *Eragrostis sororia* (75%), *Fimbristylis dichotoma* (2, 75%), *Themeda triandra* (1, 75%), *Aristida holathera* var. *holathera* (1, 50%), *Aristida pernicioso* (50%), *Aristida superpendens* (2, 50%), *Eragrostis brownii* (1, 50%), *Eragrostis spartinoides* (50%), *Eremochloa bimaculata* (50%), *Heteropogon triticeus* (50%), *Panicum effusum* (1, 50%), *Aristida calycina* var. *calycina* (25%), *Aristida spuria* (25%), *Aristida utilis* (8, 25%), *Bothriochloa decipiens* var. *decipiens* (2, 25%), *Bothriochloa ewartiana* (25%), *Bothriochloa pertusa*\* (25, 25%), *Capillipedium spicigerum* (25%), *Cenchrus ciliaris*\* (25%), *Cyperus enervis* (25%), *Cyperus fulvus* (25%), *Cyperus indet.* (25%), *Eragrostis pilosa*\* (25%), *Panicum queenslandicum* (25%), *Scleria brownii* (25%), *Sporobolus scabridus* (25%)  
 FORBS: *Stachytarpheta jamaicensis*\* (2, 100%), *Evolvulus alsinoides* (50%), *Lomandra filiformis* subsp. *filiformis* (50%), *Sida indet.* (50%), *Alysicarpus bupleurifolius*\* (2, 25%), *Cassytha filiformis* (25%), *Cayratia trifolia* (25%), *Crotalaria montana* (25%), *Cryptostegia grandiflora*\* (25%), *Cyanthillium cinereum* (25%), *Dianella longifolia* (25%), *Emilia sonchifolia* var. *sonchifolia*\* (25%), *Euphorbia indet.* (25%), *Eustrephus latifolius* (25%), *Galactia tenuiflora* (25%), *Gamochaeta indet.* (25%), *Grewia latifolia* (25%), *Grewia retusifolia* (25%), *Hyptis capitata*\* (1, 25%), *Indigofera pratensis* (25%), *Malvastrum americanum* var. *americanum*\* (25%), *Neptunia gracilis* (1, 25%), *Rhynchosia minima* (25%), *Rostellularia adscendens* (25%), *Ruellia tuberosa*\* (1, 25%), *Scaevola spinescens* (25%), *Secamone elliptica* (25%), *Sida hackettiana* (25%), *Sida rhombifolia*\* (25%), *Sida spinosa*\* (25%), *Stylosanthes guianensis*\* (25%), *Stylosanthes hamata*\* (1, 25%), *Stylosanthes humilis*\* (25%), *Stylosanthes scabra*\* (1, 25%), *Uraria lagopodioides* (25%), *Ventilago viminalis* (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 paedoglauca woodland**



Adrian Borsboom

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 1,257 1,218 97%

Species\_recorded: Total: 8; woody: 3; ground: 5; Average species per site and standard deviation not available

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 26548.

**Stratum: Tree 1**

Height avg. = 17.0m, 1 site

Crown cover avg. = 35.0%, 1 site

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

Frequent species (cover, frequency): *Eucalyptus paedoglauca* (35, 100%)

**Stratum: Tree 2**

Height avg. = 6.0m, 1 site

Crown cover avg. = 3.0%, 1 site

Dominant species (relative cover, frequency): *Melaleuca nervosa* (67, 100%), *Planchonia careya* (33, 100%)

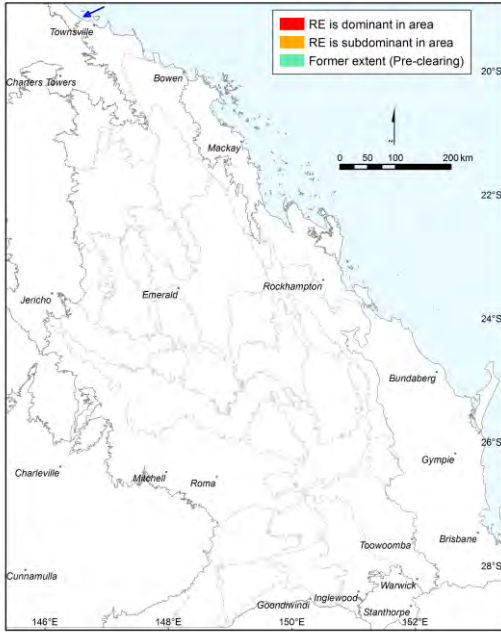
Frequent species (cover, frequency): *Melaleuca nervosa* (2, 100%), *Planchonia careya* (1, 100%)

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 drepanophylla/paedoglauca +/- C. dallachiana +/- E. platyphylla woodland**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 467 113 24%

Species\_recorded: Total: 9; woody: 10; ground: 2; Average species per site and standard deviation not available

Basal area: Not available

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

Representative\_sites 26528.

**Stratum: Tree 1**

Height avg. = 15.0m, 1 site

Crown cover avg. = 33.0%, 1 site

Dominant species (relative cover, frequency): *Eucalyptus platyphylla* (45, 100%), *Eucalyptus drepanophylla* (45, 100%), *Corymbia dallachiana* (6, 100%), *Corymbia tessellaris* (3, 100%)

Frequent species (cover, frequency): *Corymbia dallachiana* (2, 100%), *Corymbia erythrophloia* (100%), *Corymbia tessellaris* (1, 100%), *Eucalyptus brownii* (100%), *Eucalyptus drepanophylla* (15, 100%), *Eucalyptus platyphylla* (15, 100%)

**Stratum: Shrub 1**

Height avg. = 1.8m, 1 site

Crown cover avg. = 43.0%, 1 site

Dominant species (relative cover, frequency): *Sida hackettiana* (93, 100%), *Sida cordifolia*\* (5, 100%), *Cryptostegia grandiflora*\* (2, 100%)

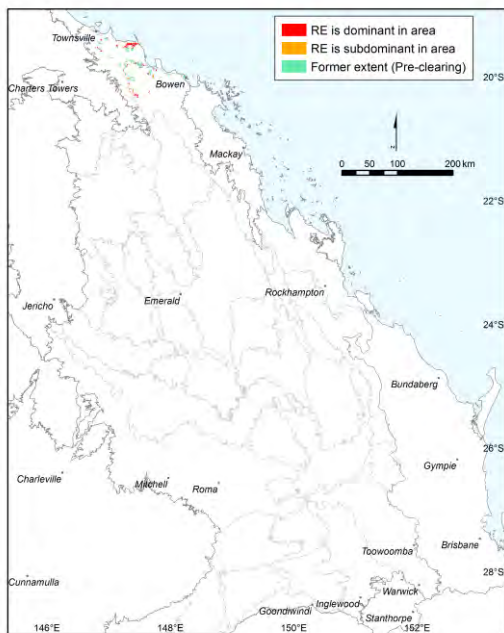
Frequent species (cover, frequency): *Cryptostegia grandiflora*\* (1, 100%), *Grevillea indet.* (100%), *Sida cordifolia*\* (2, 100%), *Sida hackettiana* (40, 100%)

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

**Ophiuros exaltatus, Dichanthium spp. grassland on alluvial plains**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 42,504 18,281 43%

Species\_recorded: Total: 3; woody: 0; ground: 3; Avg. spp./site: 3.0; std dev.: 0.0, 1 site(s)

Basal area: Not available

Structural formation: Tussock grassland: 100%, 1 site(s)

Representative\_sites 26406.

**Stratum: Ground**

Height avg. = 0.7m, 1 site

PFC avg. = 100.0%, 1 site

Dominant species (relative cover, frequency): *Heteropogon contortus* (87, 100%), *Sporobolus jacquemontii*\* (10, 100%), *Sporobolus virginicus* (3, 100%)

Frequent species (cover, frequency): GRAMINOIDS: *Heteropogon contortus* (85, 100%), *Sporobolus jacquemontii*\* (10, 100%), *Sporobolus virginicus* (3, 100%)

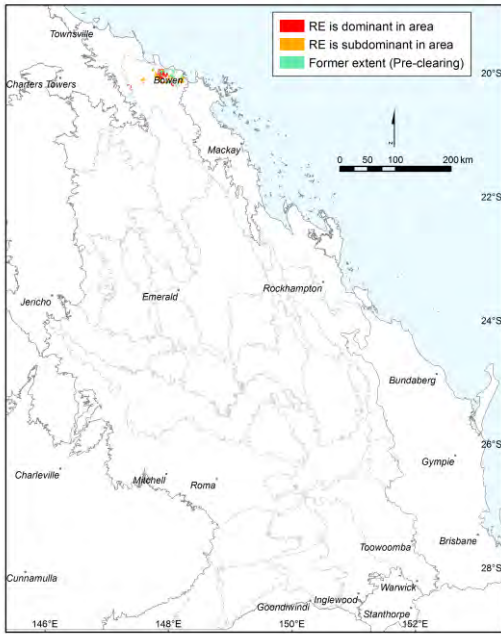
FORBS:

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 luehmannii open woodland on alluvial plains**



Adrian Borsboom

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 26,182 17,197 66%

Species\_recorded: Total: 95; woody: 26; ground: 82; Avg. spp./site: 27.0; std dev.: 5.5, 5 site(s)

Basal area: Avg./site: 10.8 m<sup>2</sup>/ha, range: 5.5 - 21 m<sup>2</sup>/ha, std. deviation: 6 m<sup>2</sup>/ha, 5 site(s)

Structural formation: Low woodland: 80%; woodland: 20%, 5 site(s)

Representative\_sites 19045, 19080, 19084, 19094, 55754.

**Stratum: Emergent**

Height avg. = 15.0m, 1 site

Crown cover avg. = 1.0%, 1 site

Frequent species (cover, frequency): *Corymbia dallachiana* (20%), *Corymbia erythrophloia* (20%), *Eucalyptus crebra* (20%)

**Stratum: Tree 1**

Height avg. = 9.1m, range 7.5-12m, 5 sites

Crown cover avg. = 33.8%, range 20.0-40.0%, 5 sites

Dominant species (relative cover, frequency): *Allocasuarina luehmannii* (87, 100%), *Melaleuca viridiflora* (18, 60%)

Frequent species (cover, frequency): *Allocasuarina luehmannii* (29, 100%), *Melaleuca viridiflora* (7, 60%), *Acacia salicina* (20%), *Corymbia clarksoniana* (4, 20%), *Exocarpos latifolius* (20%), *Grevillea parallela* (20%), *Grevillea striata* (20%), *Vachellia bidwillii* (20%)

**Stratum: Tree 2**

Height avg. = 5.3m, range 4-7m, 3 sites

Crown cover avg. = 6.0%, range 1.0-13.0%, 3 sites

Dominant species (relative cover, frequency): *Allocasuarina luehmannii* (81, 60%), *Petalostigma pubescens* (25, 40%)

Frequent species (cover, frequency): *Allocasuarina luehmannii* (2, 60%), *Petalostigma pubescens* (1, 40%), *Acacia salicina* (20%), *Corymbia clarksoniana* (20%), *Melaleuca viridiflora* (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. = 2.7m, range 2-4m, 5 sites

Crown cover avg. = 4.2%, range 1.0-9.0%, 5 sites

Dominant species (relative cover, frequency): *Allocasuarina luehmannii* (41, 80%), *Melaleuca viridiflora* (28, 40%), *Scaevola spinescens* (27, 40%), *Petalostigma pubescens* (15, 80%), *Alstonia constricta* (15, 40%)

Frequent species (cover, frequency): *Allocasuarina luehmannii* (2, 80%), *Petalostigma pubescens* (80%), *Alstonia constricta* (40%), *Capparis* *indet.* (40%), *Denhamia cunninghamii* (40%), *Melaleuca viridiflora* (1, 40%), *Scaevola spinescens* (1, 40%), *Acacia salicina* (20%), *Carissa ovata* (1, 20%), *Coelospermum reticulatum* (20%), *Cryptostegia grandiflora*\* (20%), *Lantana camara*\* (20%), *Melaleuca viridiflora* *var. viridiflora* (20%), *Persoonia falcata* (20%), *Psydrax attenuata* (5, 20%), *Sida spinosa*\* (20%), *Stachytarpheta jamaicensis*\* (20%), *Stylosanthes* *indet.* (1, 20%)

**Stratum: Shrub 2**

Height avg. = 1.5m, 1 site

Crown cover avg. = 1.0%, 1 site

Frequent species (cover, frequency): *Acacia salicina* (20%), *Allocasuarina luehmannii* (20%), *Melaleuca viridiflora* (20%), *Petalostigma pubescens* (1, 20%), *Stylosanthes* *indet.* (20%)

**Stratum: Ground**

Height avg. = 0.5m, range 0.1-0.75m, 4 sites

PFC avg. = 13.2%, range 5-30%, 5 sites

Dominant species (relative cover, frequency): *Aristida calycina* *var. calycina* (36, 40%), *Bothriochloa pertusa*\* (9, 40%), *Stylosanthes* *indet.* (8, 40%), *Chrysopogon fallax* (7, 60%), *Hedyotis* *indet.* (5, 40%)

Frequent species (cover, frequency): GRAMINOIDS: *Chrysopogon fallax* (1, 60%), *Abildgaardia ovata* (40%), *Aristida calycina* *var. calycina* (3, 40%), *Bothriochloa pertusa*\* (1, 40%), *Eragrostis sororia* (40%), *Fimbristylis dichotoma* (40%), *Sorghum* *indet.* (40%), *Sporobolus scabridus* (40%), *Abildgaardia vaginata* (20%), *Alloteropsis cimicina* (20%), *Aristida acuta* (20%), *Aristida calycina* (20%), *Aristida holathera* *var. holathera* (20%), *Aristida queenslandica* *var. dissimilis* (1, 20%), *Aristida spuria* (11, 20%), *Chloris divaricata* (1, 20%), *Chloris truncata* (20%), *Cyperus fulvus* (20%), *Cyperus* *indet.* (20%), *Cyperus isabellinus* (20%), *Cyperus pulchellus* (20%), *Cyperus sesquiflorus*\* (20%), *Dactyloctenium radulans* (20%), *Digitaria ammobila* (20%), *Enneapogon virens* (20%), *Eragrostis brownii* (20%), *Eragrostis lacunaria* (20%), *Eremochloa bimaculata* (15, 20%), *Eriachne pallescens* (20%), *Heteropogon contortus* (20%), *Panicum* *indet.* (20%), *Paspalidium* *indet.* (20%), *Scleria brownii* (20%), *Themeda triandra* (20%)

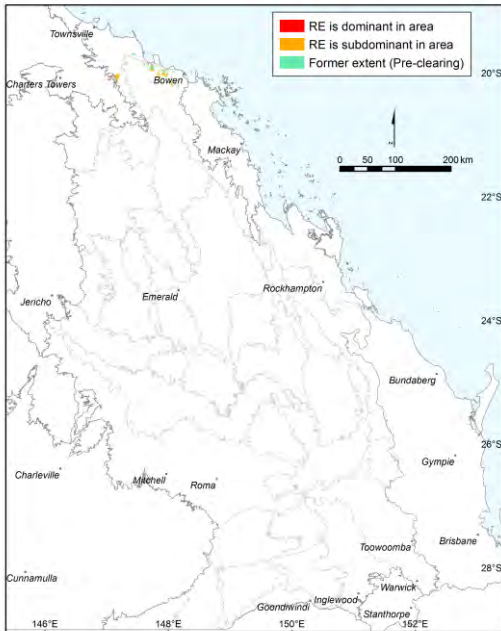
FORBS: *Evolvulus alsinoides* (80%), *Phyllanthus virgatus* (60%), *Stachytarpheta jamaicensis*\* (60%), *Alternanthera nana* (40%), *Cyanthillium cinereum* (40%), *Euphorbia* *indet.* (40%), *Gomphrena celosioides*\* (40%), *Hedyotis* *indet.* (40%), *Polycarpha spirostylis* (40%), *Stylosanthes* *indet.* (1, 40%), *Achyranthes aspera* (20%), *Aeschynomene brevifolia* (20%), *Allocasuarina luehmannii* (20%), *Alternanthera denticulata* (20%), *Alternanthera ficoidea*\* (20%), *Brunoniella acaulis* (1, 20%), *Brunoniella australis* (1, 20%), *Calandrinia uniflora* (20%), *Calotis cuneifolia* (20%), *Chamaecrista absus* *var. absus* (20%), *Commelina* *indet.* (20%), *Cryptostegia grandiflora*\* (20%), *Cyanotis axillaris* (20%), *Cynanchum viminalis* *subsp. brunonianum* (20%), *Glossocardia bidens* (20%), *Grevillea parallela* (20%), *Indigofera pratensis* (20%), *Jasminum didymum* *subsp. racemosum* (20%), *Lomandra confertifolia* *subsp. pallida* (20%), *Lomandra filiformis* *subsp. filiformis* (20%), *Lomandra multiflora* *subsp. multiflora* (20%), *Mitrasacme* *indet.* (20%), *Oldenlandia mitrasacmoides* *subsp. trachymenoides* (20%), *Polycarpha breviflora* (20%), *Polymeria ambigua* (20%), *Portulaca bicolor* (20%), *Pterocaulon ciliosum* (20%), *Rostellularia adscendens* (20%), *Scaevola spinescens* (20%), *Sida cordifolia*\* (20%), *Sida spinosa*\* (20%), *Sphaeromorphaea* *indet.* (20%), *Stylosanthes guianensis*\* (20%), *Stylosanthes hamata*\* (1, 20%), *Tephrosia leptoclada* (20%), *Vachellia bidwillii* (20%), *Zornia dyctiocarpa* *var. filifolia* (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

Eremophila mitchellii open woodland on alluvial plains



Adrian Borsboom

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 4,508 1,932 43%

Species\_recorded: Total: 76; woody: 18; ground: 62; Avg. spp./site: 32.0; std dev.: 12.8, 3 site(s)

Basal area: Avg./site: 7.7 m<sup>2</sup>/ha, range: 7.0 - 8 m<sup>2</sup>/ha, std. deviation: 0 m<sup>2</sup>/ha, 3 site(s)

Structural formation: Low woodland: 67%; low open-woodland: 33%, 3 site(s)

Representative\_sites 55814, 55834, 56074.

**Stratum: Emergent**

Height avg. = 10.3m, range 9-11.8m, 3 sites

Crown cover avg. = 9.3%, range 2.0-13.0%, 3 sites

Dominant species (relative cover, frequency): *Grevillea striata* (71, 67%), *Atalaya hemiglauca* (48, 33%), *Corymbia dallachiana* (48, 67%), *Lysiphyllum cunninghamii* (4, 33%), *Acacia tephрина* (4, 33%)

Frequent species (cover, frequency): *Corymbia dallachiana* (6, 67%), *Eucalyptus crebra* (67%), *Grevillea striata* (5, 67%), *Acacia tephрина* (33%), *Atalaya hemiglauca* (6, 33%), *Corymbia tessellaris* (33%), *Lysiphyllum cunninghamii* (33%)

**Stratum: Tree 1**

Height avg. = 4.2m, 1 site

Crown cover avg. = 27.0%, 1 site

Dominant species (relative cover, frequency): *Eremophila mitchellii* (98, 33%), *Psydrax saligna* (1, 33%), *Atalaya hemiglauca* (1, 33%)

Frequent species (cover, frequency): *Atalaya hemiglauca* (33%), *Eremophila mitchellii* (10, 33%), *Psydrax 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: Shrub 1**

Height avg. = 3.8m, range 2.5-4.8m, 3 sites

Crown cover avg. = 16.3%, range 1.0-34.0%, 3 sites

Dominant species (relative cover, frequency): *Eremophila mitchellii* (86, 67%), *Psyrdrax saligna* (33, 33%), *Diospyros humilis* (33, 33%), *Cryptostegia grandiflora*\* (17, 67%), *Atalaya hemiglauca* (12, 67%)

Frequent species (cover, frequency): *Atalaya hemiglauca* (4, 67%), *Cryptostegia grandiflora*\* (67%), *Eremophila mitchellii* (20, 67%), *Acacia salicina* (33%), *Acacia tephрина* (33%), *Bursaria incana* (33%), *Citrus glauca* (33%), *Diospyros humilis* (33%), *Flindersia dissosperma* (33%), *Psyrdrax saligna* (33%)

**Stratum: Shrub 2**

Height avg. = 1.0m, 1 site

Crown cover avg. = 1.0%, 1 site

Dominant species (relative cover, frequency): *Carissa ovata* (46, 33%), *Eremophila mitchellii* (31, 33%), *Clematicissus opaca* (8, 33%), *Capparis indet.* (8, 33%), *Atalaya hemiglauca* (8, 33%)

Frequent species (cover, frequency): *Atalaya hemiglauca* (33%), *Capparis indet.* (33%), *Carissa ovata* (1, 33%), *Clematicissus opaca* (33%), *Eremophila mitchellii* (33%)

**Stratum: Ground**

Height avg. = 0.4m, range 0.1-0.5m, 3 sites

PFC avg. = 25.3%, range 14-41%, 3 sites

Dominant species (relative cover, frequency): *Brachyachne tenella* (64, 33%), *Bothriochloa pertusa*\* (34, 67%), *Fimbristylis microcarya* (26, 67%), *Brachyachne convergens* (9, 33%), *Alloteropsis cimicina* (8, 33%)

Frequent species (cover, frequency): GRAMINOIDS: *Chrysopogon fallax* (1, 100%), *Cyperus fulvus* (100%), *Bothriochloa pertusa*\* (12, 67%), *Dactyloctenium radulans* (2, 67%), *Fimbristylis microcarya* (4, 67%), *Sporobolus actinocladius* (2, 67%), *Alloteropsis cimicina* (4, 33%), *Aristida calycina* var. *calycina* (33%), *Aristida indet.* (1, 33%), *Aristida latifolia* (33%), *Aristida spuria* (33%), *Arundinella nepalensis* (33%), *Astrebla squarrosa* (33%), *Brachyachne convergens* (4, 33%), *Brachyachne tenella* (14, 33%), *Cenchrus ciliaris*\* (33%), *Chloris divaricata* (33%), *Chloris pectinata* (1, 33%), *Cyperus indet.* (33%), *Dactyloctenium aegyptium*\* (33%), *Eragrostis indet.* (1, 33%), *Eriochloa procera* (1, 33%), *Eulalia aurea* (2, 33%), *Fimbristylis indet.* (1, 33%), *Heteropogon contortus* (33%), *Iseilema vaginiflorum* (33%), *Panicum effusum* (1, 33%), *Sporobolus contiguus* (33%), *Sporobolus disjunctus* (33%), *Tripogon loliiformis* (1, 33%), *Urochloa foliosa* (33%)

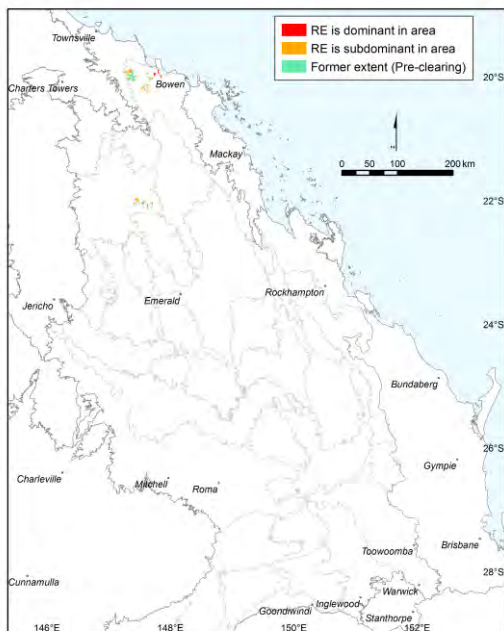
FORBS: *Enchylaena tomentosa* (100%), *Brunoniella australis* (67%), *Gomphrena celosioides*\* (67%), *Portulaca pilosa*\* (67%), *Alternanthera denticulata* var. *micrantha* (33%), *Atalaya hemiglauca* (33%), *Atriplex muelleri* (33%), *Boerhavia indet.* (33%), *Boerhavia pubescens* (33%), *Brunoniella acaulis* (33%), *Crinum arenarium* (33%), *Crotalaria montana* (33%), *Cryptostegia grandiflora*\* (33%), *Cyanthillium cinereum* (33%), *Eremophila mitchellii* (33%), *Evolvulus alsinoides* (33%), *Heliotropium indet.* (33%), *Hibiscus indet.* (33%), *Hibiscus sturtii* (33%), *Hibiscus verdcourtii* (33%), *Murdannia graminea* (33%), *Parsonsia indet.* (33%), *Phyllanthus virgatus* (33%), *Pterocaulon redolens* (33%), *Sclerolaena muricata* (33%), *Sida cordifolia*\* (33%), *Sida corrugata* (33%), *Sida rhombifolia*\* (1, 33%), *Stachytarpheta jamaicensis*\* (33%), *Stylosanthes humilis*\* (33%), *Stylosanthes scabra*\* (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 tephрина woodland on alluvial plains



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 16,646 9,377 56%

Species\_recorded: Total: 82; woody: 22; ground: 65; Avg. spp./site: 19.6; std dev.: 4.2, 5 site(s)

Basal area: Avg./site: 7.7 m<sup>2</sup>/ha, range: 2.3 - 15 m<sup>2</sup>/ha, std. deviation: 5 m<sup>2</sup>/ha, 5 site(s)

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

Representative\_sites 17052, 19043, 19086, 19087, 19175.

**Stratum: Tree 1**

Height avg. = 11.2m, range 8-17m, 5 sites

Crown cover avg. = 19.6%, range 10.0-30.0%, 5 sites

Dominant species (relative cover, frequency): *Acacia tephрина* (87, 100%)

Frequent species (cover, frequency): *Acacia tephрина* (17, 100%), *Duma florulenta* (1, 20%), *Eremophila bignoniiflora* (10, 20%), *Sesbania cannabina* (5, 20%)

**Stratum: Tree 2**

Height avg. = 8.0m, 1 site

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

Frequent species (cover, frequency): *Acacia tephрина* (20%), *Ehretia membranifolia* (1, 20%), *Eucalyptus crebra* (20%), *Flindersia dissosperma* (2, 20%)

**Stratum: Shrub 1**

Height avg. = 2.3m, range 1.2-4m, 5 sites

Crown cover avg. = 2.4%, range 1.0-5.0%, 5 sites

Dominant species (relative cover, frequency): *Acacia tephрина* (14, 40%), *Ehretia membranifolia* (11, 40%)

Frequent species (cover, frequency): *Acacia tephрина* (40%), *Ehretia membranifolia* (1, 40%), *Abutilon calliphyllum* (1, 20%), *Acacia oswaldii* (20%), *Atalaya hemiglaucula* (3, 20%), *Carissa ovata* (20%), *Eremophila bignoniiflora* (1, 20%), *Eremophila mitchellii* (1, 20%), *Geijera parviflora* (2, 20%), *Scaevola spinescens* (20%), *Terminalia oblongata subsp. oblongata* (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 2**

Height avg. = 1.4m, range 0.75-2m, 3 sites

Crown cover avg. = 2.0%, range 1.0-3.0%, 3 sites

Dominant species (relative cover, frequency): *Scaevola spinescens* (23, 40%), *Carissa ovata* (23, 40%), *Acacia tephрина* (23, 40%)

Frequent species (cover, frequency): *Acacia tephрина* (40%), *Carissa ovata* (40%), *Scaevola spinescens* (40%), *Apophyllum anomalum* (1, 20%), *Cassia indet.* (20%), *Dipteracanthus australasicus* (1, 20%), *Ehretia membranifolia* (20%), *Enchylaena tomentosa* (1, 20%), *Salsola australis* (1, 20%), *Sida trichopoda* (1, 20%), *Stachytarpheta jamaicensis*\* (20%)

**Stratum: Ground**

Height avg. = 0.4m, range 0.3-0.75m, 5 sites

PFC avg. = 28.4%, range 5-50%, 5 sites

Dominant species (relative cover, frequency): *Enchylaena tomentosa* (3, 40%), *Parthenium hysterophorus*\* (3, 40%), *Paspalidium caespitosum* (1, 40%), *Evolvulus alsinoides* (1, 40%), *Abutilon oxycarpum* (1, 40%)

Frequent species (cover, frequency): GRAMINOIDS: *Paspalidium caespitosum* (40%), *Aristida latifolia* (5, 20%), *Astrebula squarrosa* (1, 20%), *Bothriochloa pertusa*\* (20%), *Cenchrus ciliaris*\* (5, 20%), *Chloris inflata*\* (20%), *Chrysopogon fallax* (20%), *Cyperus bifax* (20%), *Cyperus iria* (2, 20%), *Cyperus squarrosus* (2, 20%), *Dactyloctenium radulans* (2, 20%), *Dichanthium sericeum* (3, 20%), *Enneapogon robustissimus* (5, 20%), *Enteropogon ramosus* (1, 20%), *Eragrostis indet.* (5, 20%), *Eriachne pallescens* (20%), *Eriochloa procera* (20%), *Iseilema vaginiflorum* (10, 20%), *Oxychloris scariosa* (20%), *Panicum decompositum* var. *decompositum* (1, 20%), *Sporobolus caroli* (5, 20%), *Sporobolus contiguus* (2, 20%), *Sporobolus mitchellii* (20%), *Sporobolus scabridus* (5, 20%), *Thellungia advena* (1, 20%)

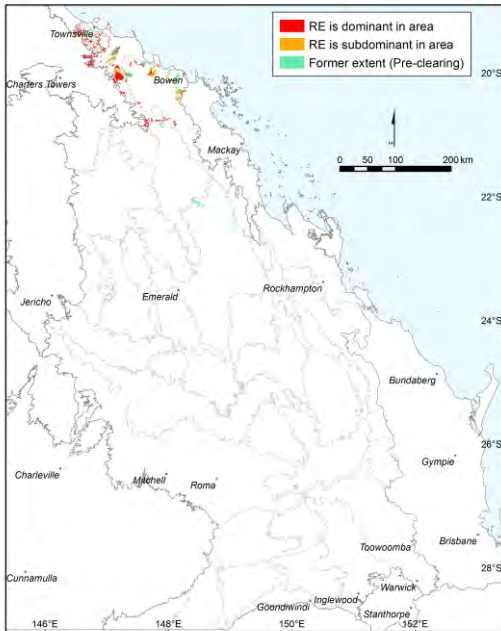
FORBS: *Abutilon oxycarpum* (40%), *Enchylaena tomentosa* (1, 40%), *Evolvulus alsinoides* (40%), *Parthenium hysterophorus*\* (1, 40%), *Alternanthera indet.* (20%), *Alternanthera nodiflora* (2, 20%), *Boerhavia* sp. (St George A.Hill AQ399299) (20%), *Caesia parviflora* var. *vittata* (20%), *Calandrinia indet.* (20%), *Calotis cuneata* (1, 20%), *Commelina ensifolia* (20%), *Commelinaceae indet.* (1, 20%), *Cynanchum viminalis* subsp. *brunonianum* (20%), *Duma florulenta* (1, 20%), *Euphorbia tannensis* subsp. *eremophila* (3, 20%), *Gomphrena humilis* (20%), *Goodenia fascicularis* (20%), *Harrisia martinii*\* (20%), *Hibiscus meraukensis* (20%), *Ipomoea diamantinensis* (1, 20%), *Marsilea hirsuta* (20%), *Murdannia graminea* (20%), *Neptunia dimorphantha* (20%), *Phyllanthus maderaspatensis* (20%), *Polycarpha corymbosa* (20%), *Polymeria longifolia* (20%), *Portulaca filifolia* (20%), *Portulaca oleracea*\* (5, 20%), *Rhynchosia minima* (20%), *Ruellia tuberosa*\* (20%), *Salsola australis* (2, 20%), *Sclerolaena cuneata* (25, 20%), *Sclerolaena ramulosa* (20%), *Sclerolaena tetracuspsis* (20%), *Sesbania cannabina* (20%), *Sida indet.* (20%), *Sida trichopoda* (20%), *Teucrium integrifolium* (1, 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 platyphylla, Corymbia clarksoniana woodland on alluvial plains**



Adrian Borsboom

**Pre-clearing area (ha), remnant area (ha) and per cent remaining:** 152,367 95,323 63%

**Species\_recorded:** Total: 73; woody: 25; ground: 57; Avg. spp./site: 33.7; std dev.: 7.8, 3 site(s)

**Basal area:** Avg./site: 12.2 m<sup>2</sup>/ha, range: 8.5 - 15 m<sup>2</sup>/ha, std. deviation: 3 m<sup>2</sup>/ha, 3 site(s)

**Structural formation:** Woodland: 100%, 3 site(s)

**Representative\_sites** 19054, 19055, 55194.

**Stratum: Tree 1**

**Height avg. = 15.2m, range 14.7-16m, 3 sites**  
**Crown cover avg. = 35.0%, range 25.0-42.0%, 3 sites**

*Dominant species (relative cover, frequency): Eucalyptus drepanophylla (74, 33%), Eucalyptus platyphylla (50, 100%), Corymbia tessellaris (29, 33%), Corymbia clarksoniana (23, 67%)*

*Frequent species (cover, frequency): Eucalyptus platyphylla (15, 100%), Corymbia clarksoniana (10, 67%), Corymbia tessellaris (13, 33%), Eucalyptus drepanophylla (28, 33%), Melaleuca viridiflora var. viridiflora (33%), Planchonia careya (33%)*

**Stratum: Tree 2**

**Height avg. = 8.1m, range 6.2-10m, 2 sites**  
**Crown cover avg. = 7.7%, range 1.0-19.0%, 3 sites**

*Dominant species (relative cover, frequency): Melaleuca viridiflora var. viridiflora (45, 33%), Eucalyptus platyphylla (34, 100%), Eucalyptus drepanophylla (33, 33%), Planchonia careya (25, 67%), Livistona decora (23, 33%)*

*Frequent species (cover, frequency): Eucalyptus platyphylla (1, 100%), Corymbia clarksoniana (1, 67%), Planchonia careya (2, 67%), Canaryum australianum var. australianum (1, 33%), Corymbia tessellaris (33%), Eucalyptus drepanophylla (33%), Livistona decora (5, 33%), Melaleuca viridiflora var. viridiflora (9, 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. = 3.0m, range 2-4m, 2 sites

Crown cover avg. = 9.7%, range 2.0-21.0%, 3 sites

Dominant species (relative cover, frequency): *Melaleuca viridiflora* var. *viridiflora* (57, 33%), *Eucalyptus drepanophylla* (42, 33%), *Lantana camara*\* (40, 33%), *Eucalyptus platyphylla* (22, 67%), *Tabernaemontana orientalis* (14, 100%)

Frequent species (cover, frequency): *Alphitonia excelsa* (1, 100%), *Corymbia clarksoniana* (100%), *Flueggea virosa* subsp. *melanthesoides* (100%), *Tabernaemontana orientalis* (100%), *Eucalyptus platyphylla* (2, 67%), *Planchonia careya* (3, 67%), *Acacia crassicaarpa* (33%), *Albizia procera* (33%), *Canarium australianum* var. *australianum* (1, 33%), *Eucalyptus drepanophylla* (1, 33%), *Grewia retusifolia* (33%), *Jasminum didymum* subsp. *racemosum* (33%), *Lantana camara*\* (3, 33%), *Larsenaikia ochreatea* (33%), *Macaranga tanarius* (33%), *Melaleuca viridiflora* var. *viridiflora* (13, 33%), *Pandanus cookii* (33%), *Persoonia falcata* (33%), *Psychotria fitzalanii* (33%)

**Stratum: Shrub 2**

Height avg. = 3.0m, 1 site

Crown cover avg. = 3.5%, range 1.0-6.0%, 2 sites

Dominant species (relative cover, frequency): *Eucalyptus drepanophylla* (62, 33%), *Lantana camara*\* (45, 33%), *Eucalyptus platyphylla* (26, 67%), *Grewia retusifolia* (6, 33%), *Euroschinus falcatus* (6, 33%)

Frequent species (cover, frequency): *Alphitonia excelsa* (67%), *Corymbia clarksoniana* (67%), *Eucalyptus platyphylla* (2, 67%), *Planchonia careya* (67%), *Eucalyptus drepanophylla* (1, 33%), *Euroschinus falcatus* (33%), *Grewia retusifolia* (33%), *Hibiscus normanii* (33%), *Lantana camara*\* (3, 33%), *Lomandra longifolia* (33%), *Pandanus cookii* (33%), *Terminalia muelleri* (33%)

**Stratum: Ground**

Height avg. = 1.1m, range 0.6-1.5m, 2 sites

PFC avg. = 53.0%, range 25-95%, 3 sites

Dominant species (relative cover, frequency): *Themeda triandra* (44, 67%), *Melinis repens*\* (21, 33%), *Cassytha filiformis* (21, 33%), *Heteropogon contortus* (21, 100%), *Sarga plumosum* (13, 33%)

Frequent species (cover, frequency): GRAMINOIDS: *Heteropogon contortus* (9, 100%), *Aristida spuria* (67%), *Digitaria parviflora* (1, 67%), *Heteropogon triticeus* (8, 67%), *Themeda triandra* (35, 67%), *Aristida queenslandica* var. *dissimilis* (33%), *Aristida utilis* var. *utilis* (1, 33%), *Cymbopogon bombycinus* (1, 33%), *Cyperus fulvus* (33%), *Eragrostis elongata* (33%), *Imperata cylindrica* (2, 33%), *Melinis repens*\* (5, 33%), *Sarga plumosum* (5, 33%), *Scleria brownii* (33%), *Scleria sphacelata* (33%)

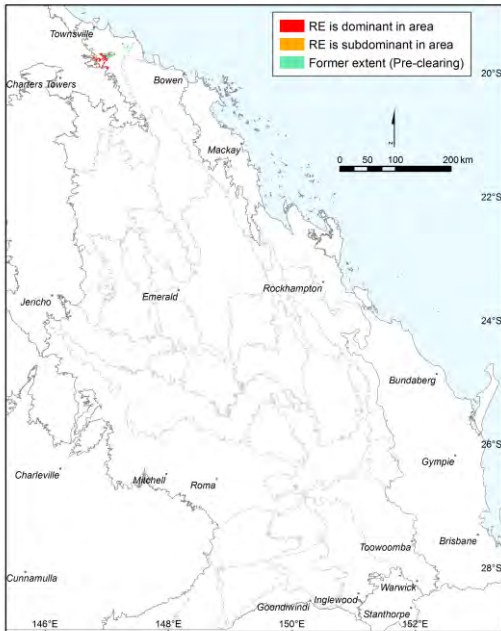
FORBS: *Flemingia parviflora* (1, 100%), *Commelina diffusa* (67%), *Dianella longifolia* var. *longifolia* (67%), *Euphorbia mitchelliana* (1, 67%), *Galactia tenuiflora* var. *lucida* (6, 67%), *Lantana camara*\* (2, 67%), *Lomandra longifolia* (67%), *Parsonia lanceolata* (67%), *Passiflora foetida*\* (1, 67%), *Breynia oblongifolia* (33%), *Brunoniella acaulis* subsp. *acaulis* (1, 33%), *Cassytha filiformis* (5, 33%), *Cassytha pubescens* (33%), *Corymbia clarksoniana* (33%), *Crotalaria lanceolata* subsp. *lanceolata*\* (33%), *Cyanthillium cinereum* (33%), *Dianella caerulea* (33%), *Emilia sonchifolia* var. *sonchifolia*\* (33%), *Euphorbia indet.* (33%), *Evolvulus alsinoides* (33%), *Galactia tenuiflora* (33%), *Grewia retusifolia* (33%), *Hibiscus normanii* (33%), *Lomandra filiformis* (33%), *Lomandra filiformis* subsp. *filiformis* (33%), *Macroptilium atropurpureum*\* (1, 33%), *Melaleuca viridiflora* var. *viridiflora* (1, 33%), *Passiflora suberosa*\* (33%), *Pleiogynium timorense* (33%), *Rhynchosia minima* var. *minima* (33%), *Secamone elliptica* (33%), *Sida hackettiana* (33%), *Spermacoce brachystema* (33%), *Spermacoce multicaulis* (33%), *Stephania japonica* var. *timoriensis* (33%), *Stylosanthes guianensis*\* (33%), *Tephrosia astragaloides* (33%), *Tephrosia juncea* (1, 33%), *Trichodesma zeylanicum* var. *zeylanicum* (33%), *Uria lagopodioides* (33%), *Urena lobata*\* (33%), *Zornia dyctiocarpa* var. *filifolia* (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 tessellaris, Corymbia clarksoniana and E. platyphylla woodland**



Adrian Borsboom

**Pre-clearing area (ha), remnant area (ha) and per cent remaining:** 31,949 14,942 47%

**Species recorded:** Total: 107; woody: 29; ground: 85; Avg. spp./site: 39.3; std dev.: 21.0, 3 site(s)

**Basal area:** Avg./site: 7.3 m<sup>2</sup>/ha, range: 3.0 - 13 m<sup>2</sup>/ha, std. deviation: 4 m<sup>2</sup>/ha, 3 site(s)

**Structural formation:** Open-woodland: 67%; woodland: 33%, 3 site(s)

**Representative sites** 19061, 26298, 37165.

**Stratum: Tree 1**

**Height avg. = 15.3m, range 14-16m, 3 sites**  
**Crown cover avg. = 18.3%, range 11.0-24.0%, 3 sites**

*Dominant species (relative cover, frequency):* *Pleiogynium timorense* (75, 33%), *Eucalyptus platyphylla* (66, 67%), *Corymbia clarksoniana* (58, 33%), *Corymbia tessellaris* (13, 67%), *Corymbia dallachiana* (9, 33%)

*Frequent species (cover, frequency):* *Corymbia tessellaris* (3, 67%), *Eucalyptus platyphylla* (10, 67%), *Corymbia clarksoniana* (14, 33%), *Corymbia dallachiana* (1, 33%), *Jasminum simplicifolium subsp. australiense* (33%), *Pleiogynium timorense* (15, 33%)

**Stratum: Tree 2**

**Height avg. = 6.5m, range 6-7m, 2 sites**  
**Crown cover avg. = 59.0%, range 46.0-72.0%, 2 sites**

*Dominant species (relative cover, frequency):* *Melaleuca viridiflora* (87, 33%), *Alphitonia excelsa* (54, 33%), *Melaleuca nervosa* (13, 33%), *Denhamia disperma* (11, 33%), *Corymbia tessellaris* (11, 33%)

*Frequent species (cover, frequency):* *Corymbia clarksoniana* (3, 67%), *Alphitonia excelsa* (36, 33%), *Canavalia papuana* (33%), *Corymbia tessellaris* (7, 33%), *Denhamia disperma* (7, 33%), *Eucalyptus platyphylla* (33%), *Geijera salicifolia* (3, 33%), *Jasminum didymum* (33%), *Jasminum simplicifolium subsp. australiense* (33%), *Melaleuca nervosa* (6, 33%), *Melaleuca viridiflora* (40, 33%), *Planchonia careya* (33%), *Terminalia melanocarpa* (3, 33%), *Terminalia muelleri* (2, 33%), *Ziziphus mauritiana\** (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



**Stratum: Tree 3**

Height avg. = 3.3m, range 2-4.5m, 2 sites

Crown cover avg. = 10.0%, range 8.0-12.0%, 2 sites

Dominant species (relative cover, frequency): *Corymbia tessellaris* (84, 33%), *Melaleuca viridiflora* (67, 33%), *Melaleuca nervosa* (33, 33%), *Canarium australianum* (12, 33%), *Pleio gynium timorens* (1, 33%)

Frequent species (cover, frequency): *Canarium australianum* (1, 33%), *Corymbia clarksoniana* (33%), *Corymbia tessellaris* (7, 33%), *Jasminum simplicifolium subsp. australiense* (33%), *Melaleuca nervosa* (4, 33%), *Melaleuca viridiflora* (8, 33%), *Pleio gynium timorens* (33%)

**Stratum: Shrub 1**

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

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

Dominant species (relative cover, frequency): *Melaleuca dealbata* (33, 33%), *Cryptostegia grandiflora\** (33, 33%), *Lantana camara\** (22, 67%), *Ziziphus mauritiana\** (10, 33%), *Tabernaemontana orientalis* (10, 33%)

Frequent species (cover, frequency): *Lantana camara\** (67%), *Acacia crassicaarpa* (33%), *Antidesma parvifolium* (33%), *Canavalia papuana* (33%), *Cryptostegia grandiflora\** (33%), *Drypetes deplanchei* (33%), *Exocarpos latifolius* (33%), *Flueggea virosa subsp. melanthesoides* (33%), *Larsenaikia ochreatea* (33%), *Melaleuca dealbata* (33%), *Tabernaemontana orientalis* (33%), *Ziziphus mauritiana\** (33%)

**Stratum: Shrub 2**

Height avg. = 1.0m, 1 site

Crown cover avg. = 0.0%, 1 site

Dominant species (relative cover, frequency): *Sida hackettiana* (100, 33%)

Frequent species (cover, frequency): *Sida hackettiana* (33%)

**Stratum: Ground**

Height avg. = 0.5m, range 0.3-0.6m, 3 sites

PFC avg. = 59.7%, range 20-98%, 3 sites

Dominant species (relative cover, frequency): *Schizachyrium fragile* (32, 33%), *Melinis repens\** (31, 67%), *Aristida superpendens* (24, 33%), *Chrysopogon fallax* (19, 33%), *Ocimum indet.* (18, 33%)

Frequent species (cover, frequency): GRAMINOIDS: *Heteropogon contortus* (4, 67%), *Melinis repens\** (21, 67%), *Abildgaardia vaginata* (33%), *Aristida calycina* (33%), *Aristida queenslandica* (3, 33%), *Aristida superpendens* (22, 33%), *Bothriochloa pertusa\** (1, 33%), *Chloris pectinata* (1, 33%), *Chrysopogon fallax* (18, 33%), *Cymbopogon ambiguus* (33%), *Cyperus concinnus* (33%), *Cyperus fulvus* (33%), *Cyperus scariosus* (33%), *Digitaria indet.* (1, 33%), *Digitaria nematostachya* (33%), *Eriachne rara* (10, 33%), *Fimbristylis bisumbellata* (33%), *Paspalidium gracile* (33%), *Schizachyrium fragile* (30, 33%), *Scleria brownii* (6, 33%), *Setaria surgens* (33%), *Sporobolus jacquemontii\** (33%), *Themeda triandra* (33%), *Whiteochloa airoides* (33%)

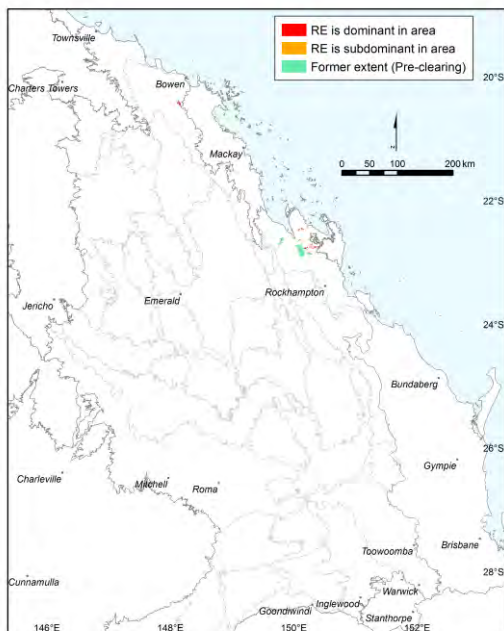
FORBS: *Flemingia parviflora* (67%), *Galactia tenuiflora* (67%), *Sida cordifolia\** (67%), *Waltheria indica* (67%), *Ziziphus mauritiana\** (67%), *Abrus precatorius* (1, 33%), *Alphitonia excelsa* (2, 33%), *Alternanthera denticulata var. micrantha* (33%), *Alysicarpus vaginalis\** (33%), *Apowollastonia spilanthisoides* (1, 33%), *Aristolochia thozetii* (33%), *Bacopa indet.* (33%), *Bidens bipinnata\** (33%), *Brunoniella acaulis* (33%), *Buchnera linearis* (33%), *Canavalia papuana* (2, 33%), *Cassytha filiformis* (1, 33%), *Centipeda minima* (33%), *Chamaecrista absus var. absus* (33%), *Chrysocephalum apiculatum* (33%), *Clerodendrum floribundum* (33%), *Commelina ensifolia* (33%), *Corymbia tessellaris* (1, 33%), *Crotalaria brevis* (33%), *Crotalaria calycina* (33%), *Crotalaria pallida var. obovata\** (33%), *Cyanthillium cinereum* (33%), *Eleutheranthera ruderalis\** (33%), *Emilia sonchifolia\** (33%), *Euphorbia hirta\** (33%), *Eustrephus latifolius* (33%), *Evolvulus alsinoides* (33%), *Gomphrena celosioides\** (33%), *Grewia retusifolia* (33%), *Hibiscus meraukensis* (33%), *Jasminum didymum* (33%), *Lomandra longifolia* (33%), *Mesosphaerum suaveolens\** (1, 33%), *Microstachys chamaelea* (33%), *Murdannia graminea* (33%), *Ocimum indet.* (1, 33%), *Passiflora foetida\** (2, 33%), *Phyllanthus simplex* (33%), *Phyllanthus virgatus* (33%), *Pterocaulon redolens* (33%), *Rostellularia adscendens* (33%), *Sida acuta\** (33%), *Sida hackettiana* (1, 33%), *Spermacoce brachystema* (33%), *Stachytarpheta jamaicensis\** (33%), *Stephania japonica* (33%), *Tephrosia dietrichiae* (33%), *Tephrosia indet.* (33%), *Tephrosia juncea* (33%), *Terminalia muelleri* (33%), *Tridax procumbens\** (33%), *Triumfetta pentandra\** (33%), *Triumfetta rhomboidea\** (1, 33%), *Zornia dyctiocarpa var. filifolia* (33%), *Zornia muelleriana subsp. muelleriana* (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. populnea and/or E. melanophloia on alluvial plains. Higher terraces**



John Neldner

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 19,787 8,346 42%

Species\_recorded: Total: 147; woody: 17; ground: 133; Avg. spp./site: 52.4; std dev.: 7.6, 5 site(s)

Basal area: Avg./site: 12.6 m<sup>2</sup>/ha, range: 7.0 - 23 m<sup>2</sup>/ha, std. deviation: 6 m<sup>2</sup>/ha, 5 site(s)

Structural formation: Woodland: 100%, 5 site(s)

Representative\_sites 40906, 40907, 40911, 59074, 61186.

**Stratum: Tree 1**

Height avg. = 17.6m, range 15-20m, 5 sites

Crown cover avg. = 39.4%, range 25.0-64.0%, 5 sites

Dominant species (relative cover, frequency): *Eucalyptus populnea* (76, 100%), *Eucalyptus crebra* (30, 80%)

Frequent species (cover, frequency): *Eucalyptus populnea* (29, 100%), *Eucalyptus crebra* (10, 80%), *Amyema indet.* (20%), *Eucalyptus crebra* x *E. populnea* (20%), *Eucalyptus tereticornis* (20%)

**Stratum: Tree 2**

Height avg. = 7.5m, range 4.5-11m, 5 sites

Crown cover avg. = 6.0%, range 2.0-15.0%, 5 sites

Dominant species (relative cover, frequency): *Allocasuarina luehmannii* (65, 40%), *Eucalyptus crebra* (52, 40%), *Eucalyptus populnea* (29, 100%), *Corymbia dallachiana* (14, 60%), *Grevillea striata* (5, 60%)

Frequent species (cover, frequency): *Eucalyptus populnea* (1, 100%), *Corymbia dallachiana* (1, 60%), *Grevillea striata* (60%), *Allocasuarina luehmannii* (7, 40%), *Eucalyptus crebra* (2, 40%), *Acacia salicina* (2, 20%), *Corymbia clarksoniana* (2, 20%), *Eucalyptus crebra* x *E. populnea* (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 0.6-4m, 4 sites

Crown cover avg. = 3.0%, range 0.0-10.0%, 4 sites

Dominant species (relative cover, frequency): *Psydrax indet.* (46, 40%), *Acacia salicina* (35, 40%), *Eucalyptus populnea* (18, 40%), *Vachellia bidwillii* (16, 40%)

Frequent species (cover, frequency): *Acacia salicina* (40%), *Eucalyptus populnea* (40%), *Psydrax indet.* (2, 40%), *Vachellia bidwillii* (1, 40%), *Acacia disparrima subsp. disparrima* (20%), *Allocasuarina luehmannii* (20%), *Capparis canescens* (20%), *Corymbia dallachiana* (20%), *Cryptostegia grandiflora\** (20%), *Eucalyptus crebra* (20%), *Flueggea indet.* (20%), *Melaleuca viridiflora* (20%)

**Stratum: Ground**

Height avg. = 0.6m, range 0.25-1m, 5 sites

PFC avg. = 74.2%, range 45-94%, 5 sites

Dominant species (relative cover, frequency): *Themeda triandra* (25, 80%), *Eriochloa pseudoacrotricha* (13, 40%), *Bothriochloa decipiens var. decipiens* (10, 40%), *Bothriochloa decipiens* (9, 60%), *Heteropogon contortus* (9, 100%)

Frequent species (cover, frequency): GRAMINOIDS: *Heteropogon contortus* (7, 100%), *Paspalidium distans* (4, 100%), *Cymbopogon refractus* (80%), *Dinebra decipiens* (5, 80%), *Fimbristylis dichotoma* (1, 80%), *Themeda triandra* (20, 80%), *Bothriochloa bladhii* (1, 60%), *Bothriochloa decipiens* (7, 60%), *Chloris inflata\** (2, 60%), *Cyperus fulvus* (2, 60%), *Eragrostis brownii* (2, 60%), *Eriochloa procera* (2, 60%), *Bothriochloa decipiens var. decipiens* (5, 40%), *Capillipedium spicigerum* (5, 40%), *Chrysopogon fallax* (1, 40%), *Cyperus difformis* (1, 40%), *Cyperus distans* (1, 40%), *Cyperus gracilis* (2, 40%), *Cyperus iria* (40%), *Eremochloa bimaculata* (3, 40%), *Eriochloa crebra* (3, 40%), *Eriochloa pseudoacrotricha* (7, 40%), *Fimbristylis microcarya* (6, 40%), *Heteropogon triticeus* (40%), *Holcolemma dispar* (2, 40%), *Megathyrsus maximus\** (40%), *Panicum effusum* (40%), *Sporobolus creber* (2, 40%), *Alloteropsis semialata* (1, 20%), *Aristida calycina var. calycina* (1, 20%), *Aristida queenslandica var. dissimilis* (20%), *Bothriochloa bladhii subsp. bladhii* (1, 20%), *Chloris divaricata var. divaricata* (1, 20%), *Chloris virgata\** (20%), *Cyperus aquatilis* (20%), *Cyperus concinnus* (20%), *Cyperus squarrosus* (20%), *Cyperus victoriensis* (20%), *Dichanthium aristatum\** (20%), *Dichanthium sericeum* (20%), *Digitaria bicornis* (20%), *Digitaria ciliaris\** (20%), *Digitaria ramularis* (1, 20%), *Dinebra decipiens var. decipiens* (20%), *Eleusine indica\** (1, 20%), *Enteropogon acicularis* (20%), *Enteropogon unispiceus* (1, 20%), *Eragrostis leptostachya* (20%), *Eragrostis parviflora* (20%), *Eragrostis sororia* (20%), *Eragrostis spartinooides* (3, 20%), *Eragrostis tenuifolia\** (13, 20%), *Eriachne rara* (20%), *Fimbristylis indet.* (20%), *Fuirena ciliaris* (1, 20%), *Juncus polyanthemus* (20%), *Melinis repens\** (20%), *Panicum decompositum var. decompositum* (5, 20%), *Paspalidium aversum* (3, 20%), *Scleria tricuspidata* (1, 20%), *Sporobolus jacquemontii\** (20%), *Urochloa indet.* (20%), *Urochloa whiteana* (20%)

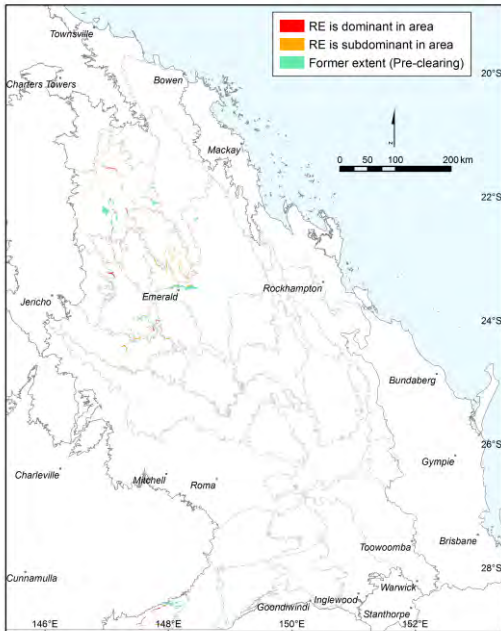
FORBS: *Murdannia graminea* (1, 100%), *Brunoniella acaulis* (1, 80%), *Cyanthillium cinereum* (80%), *Emilia sonchifolia\** (80%), *Sida hackettiana* (80%), *Alternanthera nana* (60%), *Commelina diffusa* (60%), *Dianella caerulea* (60%), *Eremophila debilis* (60%), *Neptunia gracilis* (60%), *Phyllanthus virgatus* (60%), *Sida rhombifolia\** (60%), *Stylosanthes scabra\** (1, 60%), *Achyranthes aspera* (40%), *Ageratum conyzoides\** (40%), *Bacopa floribunda* (40%), *Bidens pilosa\** (2, 40%), *Glycine tabacina* (40%), *Gomphrena celosioides\** (40%), *Lindernia crustacea* (40%), *Marsdenia indet.* (40%), *Passiflora foetida\** (4, 40%), *Praxelis clematidea\** (40%), *Pterocaulon redolens* (40%), *Pterocaulon serrulatum* (40%), *Rostellularia adscendens* (40%), *Sida atherophora* (40%), *Spermacoce brachystema* (40%), *Sphaeromorphaea indet.* (40%), *Stachytarpheta jamaicensis\** (40%), *Urena lobata\** (40%), *Vachellia bidwillii* (40%), *Acacia salicina* (20%), *Alternanthera denticulata* (20%), *Blumea indet.* (20%), *Blumea saxatilis* (20%), *Boerhavia pubescens* (20%), *Brunoniella acaulis subsp. ciliata* (20%), *Centipeda minima* (20%), *Chamaecrista concinna* (20%), *Chamaecrista indet.* (20%), *Chamaecrista nomame* (20%), *Crinum indet.* (20%), *Crotalaria montana* (20%), *Dianella longifolia* (20%), *Eclipta prostrata\** (20%), *Emilia sonchifolia var. sonchifolia\** (1, 20%), *Erigeron pusillus\** (20%), *Euphorbia bifida* (20%), *Evolvulus alsinoides* (20%), *Grewia retusifolia* (20%), *Ipomoea plebeia* (20%), *Macroptilium lathyroides\** (20%), *Maireana microphylla* (20%), *Malvastrum coromandelianum subsp. coromandelianum\** (20%), *Mitracarpus hirtus\** (20%), *Passiflora suberosa\** (20%), *Portulaca pilosa\** (3, 20%), *Psydrax indet.* (20%), *Pterocaulon indet.* (20%), *Rhynchosia minima* (20%), *Scoparia dulcis\** (20%), *Sida acuta\** (1, 20%), *Sida cordifolia\** (20%), *Sida spinosa\** (20%), *Solanum nodiflorum\** (20%), *Stylosanthes guianensis\** (20%), *Symphytotrichum subulatum\** (20%), *Vigna vexillata* (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 coolabah fringing woodland on alluvial plains**



Annie Kelly

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 52,438 30,133 57%

Species\_recorded: Total: 71; woody: 23; ground: 49; Avg. spp./site: 23.7; std dev.: 2.5, 3 site(s)

Basal area: Avg./site: 15.3 m<sup>2</sup>/ha, range: 9.0 - 26 m<sup>2</sup>/ha, std. deviation: 8 m<sup>2</sup>/ha, 3 site(s)

Structural formation: Woodland: 50%; open-woodland: 25%; open-forest: 25%, 4 site(s)

Representative\_sites 3141, 16794, 17116, 19118.

**Stratum: Tree 1**

Height avg. = 19.0m, range 15-22m, 3 sites  
 Crown cover avg. = 35.7%, range 21.0-56.0%, 3 sites

Dominant species (relative cover, frequency): *Eucalyptus coolabah* (80, 75%), *Eucalyptus camaldulensis* (64, 50%), *Eucalyptus camaldulensis subsp. acuta x E. platyphylla* (33, 25%)

Frequent species (cover, frequency): *Eucalyptus coolabah* (24, 75%), *Eucalyptus camaldulensis* (23, 50%), *Acacia pendula* (25%), *Cymbidium canaliculatum* (25%), *Eucalyptus camaldulensis subsp. acuta x E. platyphylla* (5, 25%)

**Stratum: Tree 2**

Height avg. = 10.3m, range 8-15m, 3 sites  
 Crown cover avg. = 10.0%, range 5.0-18.0%, 3 sites

Dominant species (relative cover, frequency): *Acacia cambagei* (100, 25%), *Melaleuca trichostachya* (83, 25%), *Melaleuca linariifolia* (69, 25%), *Eucalyptus coolabah* (44, 50%), *Eucalyptus camaldulensis* (27, 25%)

Frequent species (cover, frequency): *Eucalyptus coolabah* (4, 50%), *Acacia cambagei* (25%), *Acacia harpophylla* (1, 25%), *Alectryon oleifolius* (25%), *Eucalyptus camaldulensis* (2, 25%), *Lysiphyllum hookeri* (25%), *Melaleuca linariifolia* (3, 25%), *Melaleuca trichostachya* (15, 25%), *Terminalia oblongata subsp. oblongata* (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 3**

Height avg. = 6.0m, 1 site

Crown cover avg. = 20.0%, 1 site

Dominant species (relative cover, frequency): *Acacia salicina* (50, 25%), *Eremophila bignoniiflora* (25, 25%), *Acacia stenophylla* (25, 25%)

Frequent species (cover, frequency): *Acacia salicina* (10, 25%), *Acacia stenophylla* (5, 25%), *Eremophila bignoniiflora* (5, 25%)

**Stratum: Shrub 1**

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

Crown cover avg. = 4.5%, range 4.0-5.0%, 2 sites

Dominant species (relative cover, frequency): *Eremophila longifolia* (65, 25%), *Duma florulenta* (50, 50%), *Geijera parviflora* (28, 25%), *Alectryon oleifolius* (28, 25%), *Acacia oswaldii* (28, 25%)

Frequent species (cover, frequency): *Duma florulenta* (3, 50%), *Acacia oswaldii* (2, 25%), *Alectryon oleifolius* (2, 25%), *Atalaya hemiglaucula* (1, 25%), *Capparis* *indet.* (25%), *Eremophila bignoniiflora* (1, 25%), *Eremophila longifolia* (3, 25%), *Geijera parviflora* (2, 25%), *Lysiphylum carronii* (1, 25%), *Lysiphylum hookeri* (25%), *Vachellia farnesiana*\* (25%)

**Stratum: Ground**

Height avg. = 0.5m, range 0.4-0.5m, 3 sites

PFC avg. = 44.0%, range 27-55%, 3 sites

Dominant species (relative cover, frequency): *Basilicum polystachyon* (54, 33%), *Paspalidium jubiflorum* (50, 33%), *Eleusine indica*\* (47, 33%), *Panicum larcomianum* (17, 67%), *Lomandra confertifolia* (17, 33%)

Frequent species (cover, frequency): GRAMINOIDS: *Panicum larcomianum* (4, 67%), *Chionachne cyathopoda* (33%), *Chloris ventricosa* (1, 33%), *Chrysopogon fallax* (33%), *Cyperaceae* *indet.* (1, 33%), *Dichanthium sericeum* *subsp. sericeum* (33%), *Eleusine indica*\* (12, 33%), *Enteropogon ramosus* (33%), *Heteropogon contortus* (1, 33%), *Leptochloa digitata* (1, 33%), *Paspalidium caespitosum* (33%), *Paspalidium gausum* (33%), *Paspalidium* *indet.* (33%), *Paspalidium jubiflorum* (30, 33%), *Sporobolus creber* (33%)

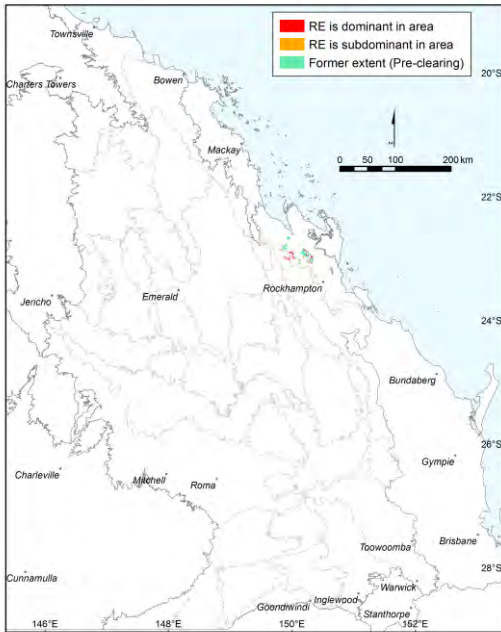
FORBS: *Lomandra longifolia* (2, 100%), *Alternanthera* *indet.* (1, 33%), *Asperula conferta* (3, 33%), *Asteraceae* *indet.* (3, 33%), *Basilicum polystachyon* (3, 33%), *Boerhavia dominii* (1, 33%), *Capparis lasiantha* (33%), *Cayratia trifolia* (33%), *Commelina diffusa* (2, 33%), *Crinum* *indet.* (1, 33%), *Enchylaena tomentosa* (33%), *Euphorbia dallachyana* (33%), *Euphorbia* *indet.* (1, 33%), *Jasminum didymum* *subsp. racemosum* (33%), *Lobelia purpurascens* (1, 33%), *Lomandra confertifolia* (10, 33%), *Maireana microphylla* (1, 33%), *Malvastrum americanum* *var. americanum*\* (33%), *Neptunia gracilis* (33%), *Opuntia stricta*\* (33%), *Oxalis* *indet.* (1, 33%), *Phyllanthus virgatus* (1, 33%), *Rhagodia spinescens* (33%), *Rumex brownii* (1, 33%), *Salsola australis* (33%), *Verbena* *indet.* (1, 33%), *Vigna* *indet.* (2, 33%), *Vittadinia* *indet.* (1, 33%), *Wahlenbergia communis* (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

**Eucalyptus tereticornis, Melaleuca viridiflora, Corymbia tessellaris and Eucalyptus fibrosa subsp. fibrosa tall woodland with a grassy ground layer on alluvial plains and broad drainage lines derived from serpentinite**



**Pre-clearing area (ha), remnant area (ha) and per cent remaining: 30,676 8,266 27%**

**Species\_recorded: Total: 59; woody: 14; ground: 46; Avg. spp./site: 30.0; std dev.: 8.0, 2 site(s)**

**Basal area: Avg./site: 29.5 m<sup>2</sup>/ha, range: 26.0 - 33 m<sup>2</sup>/ha, std. deviation: 4 m<sup>2</sup>/ha, 2 site(s)**

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

**Representative\_sites 41276, 59084.**

**Stratum: Tree 1**

**Height avg. = 17.5m, range 12-23m, 2 sites**

**Crown cover avg. = 71.0%, range 58.0-84.0%, 2 sites**

*Dominant species (relative cover, frequency): Melaleuca bracteata (100, 50%), Eucalyptus tereticornis subsp. tereticornis (100, 50%)*

*Frequent species (cover, frequency): Eucalyptus tereticornis subsp. tereticornis (84, 50%), Melaleuca bracteata (58, 50%)*

**Stratum: Tree 2**

**Height avg. = 9.5m, range 5-14m, 2 sites**

**Crown cover avg. = 19.5%, range 15.9-23.0%, 2 sites**

*Dominant species (relative cover, frequency): Melaleuca bracteata (99, 50%), Melaleuca viridiflora var. viridiflora (83, 50%), Lophostemon suaveolens (10, 50%), Eucalyptus tereticornis subsp. tereticornis (6, 50%)*

*Frequent species (cover, frequency): Diospyros geminata (50%), Eucalyptus tereticornis subsp. tereticornis (2, 50%), Lophostemon suaveolens (3, 50%), Maclura cochinchinensis (50%), Melaleuca bracteata (12, 50%), Melaleuca viridiflora var. viridiflora (20, 50%), Psyrax odorata (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. = 2.3m, range 1-3.5m, 2 sites

Crown cover avg. = 10.5%, range 5.0-15.9%, 2 sites

*Dominant species (relative cover, frequency):* *Cryptostegia grandiflora*\* (99, 50%), *Melaleuca viridiflora* var. *viridiflora* (50, 50%), *Eucalyptus tereticornis* subsp. *tereticornis* (50, 50%)

*Frequent species (cover, frequency):* *Alectryon connatus* (50%), *Alphitonia excelsa* (50%), *Cryptostegia grandiflora*\* (14, 50%), *Eucalyptus tereticornis* subsp. *tereticornis* (3, 50%), *Ficus opposita* (50%), *Jasminum simplicifolium* subsp. *australiense* (50%), *Lantana camara*\* (50%), *Maclura cochinchinensis* (50%), *Melaleuca viridiflora* var. *viridiflora* (3, 50%), *Psychotria daphnoides* var. *angustifolia* (50%)

**Stratum: Shrub 2**

Height avg. = 1.2m, 1 site

Crown cover avg. = 2.0%, 1 site

*Dominant species (relative cover, frequency):* *Melaleuca viridiflora* var. *viridiflora* (60, 50%), *Eucalyptus tereticornis* subsp. *tereticornis* (40, 50%)

*Frequent species (cover, frequency):* *Eucalyptus tereticornis* subsp. *tereticornis* (1, 50%), *Melaleuca viridiflora* var. *viridiflora* (2, 50%)

**Stratum: Ground**

Height avg. = 0.6m, range 0.35-0.8m, 2 sites

PFC avg. = 40.0%, range 15-65%, 2 sites

*Dominant species (relative cover, frequency):* *Eleocharis dietrichiana* (56, 50%), *Paspalidium caespitosum* (53, 50%), *Ludwigia octovalvis* (19, 50%), *Monochoria cyanea* (9, 50%), *Arundinella nepalensis* (6, 100%)

*Frequent species (cover, frequency):* GRAMINOIDS: *Arundinella nepalensis* (2, 100%), *Aristida gracilipes* (50%), *Cyperus difformis* (50%), *Cyperus haspan* subsp. *juncooides* (50%), *Cyperus procerus* (3, 50%), *Eleocharis dietrichiana* (30, 50%), *Eleocharis philippinensis* (1, 50%), *Eragrostis elongata* (1, 50%), *Eragrostis spartinoides* (50%), *Gahnia aspera* (1, 50%), *Imperata cylindrica* (1, 50%), *Leersia hexandra* (1, 50%), *Paspalidium caespitosum* (9, 50%), *Schoenoplectiella mucronata* (50%), *Scleria indet.* (50%), *Sporobolus indet.* (50%)

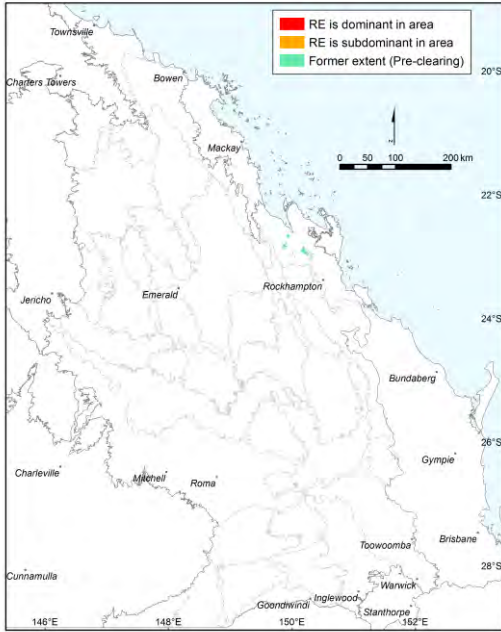
FORBS: *Alternanthera denticulata* var. *denticulata* (50%), *Brachyscome basaltica* (50%), *Breynia oblongifolia* (50%), *Brunoniella acaulis* (1, 50%), *Caldesia oligococca* (50%), *Commelina ensifolia* (50%), *Cryptostegia grandiflora*\* (50%), *Dianella longifolia* var. *longifolia* (50%), *Eremophila debilis* (50%), *Eustrephus latifolius* (50%), *Haloragis indet.* (50%), *Hygrophila angustifolia* (50%), *Ipomoea indet.* (50%), *Lobelia purpurascens* (50%), *Lobelia stenophylla* (50%), *Ludwigia octovalvis* (10, 50%), *Monochoria cyanea* (5, 50%), *Murdannia cryptantha* (50%), *Oldenlandia subulata* (50%), *Parsonsia indet.* (50%), *Passiflora suberosa*\* (50%), *Philydrum lanuginosum* (50%), *Phyllanthus virgatus* (50%), *Pseuderanthemum variabile* (50%), *Pterocaulon redolens* (50%), *Sida rhombifolia*\* (1, 50%), *Stachytarpheta jamaicensis*\* (50%), *Stackhousia tryonii* (50%), *Verbena bonariensis*\* (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

Melaleuca bracteata low woodland



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 7,085 1,360 19%

Species\_recorded: Total: 30; woody: 15; ground: 17; Avg. spp./site: 30.0; std dev.: 0.0, 1 site(s)

Basal area: Avg./site: 35.0 m<sup>2</sup>/ha, range: 35.0 - 35 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 41155.

Stratum: Tree 1

Height avg. = 12.0m, 1 site

Crown cover avg. = 79.2%, 1 site

Dominant species (relative cover, frequency): *Melaleuca bracteata* (92, 100%), *Casuarina cunninghamiana* (8, 100%), *Passiflora suberosa*\* (1, 100%)

Frequent species (cover, frequency): *Casuarina cunninghamiana* (6, 100%), *Melaleuca bracteata* (73, 100%), *Passiflora suberosa*\* (1, 100%)

Stratum: Tree 2

Height avg. = 5.0m, 1 site

Crown cover avg. = 0.6%, 1 site

Dominant species (relative cover, frequency): *Melaleuca bracteata* (97, 100%), *Cymbidium canaliculatum* (3, 100%)

Frequent species (cover, frequency): *Cymbidium canaliculatum* (100%), *Melaleuca bracteata* (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: Shrub 1**

Height avg. = 0.6m, 1 site

Crown cover avg. = 0.6%, 1 site

*Dominant species (relative cover, frequency): Psychotria daphnoides var. angustifolia (30, 100%), Livistona decora (30, 100%), Exocarpos latifolius (30, 100%), Sida hackettiana (1, 100%), Sida cordifolia\* (1, 100%)*

*Frequent species (cover, frequency): Alphitonia excelsa (100%), Breynia oblongifolia (100%), Cryptostegia grandiflora\* (100%), Eustrephus latifolius (100%), Exocarpos latifolius (1, 100%), Livistona decora (1, 100%), Melaleuca bracteata (100%), Parsonsia plaesiophylla (100%), Passiflora suberosa\* (100%), Psychotria daphnoides var. angustifolia (1, 100%), Psydrax odorata (100%), Sida cordifolia\* (100%), Sida hackettiana (100%)*

**Stratum: Ground**

Height avg. = 0.9m, 1 site

PFC avg. = 30.0%, 1 site

*Dominant species (relative cover, frequency): Gahnia aspera (50, 100%), Arundinella nepalensis (27, 100%), Stachytarpheta jamaicensis\* (8, 100%), Oxalis perennans (5, 100%), Desmodium rhytidophyllum (2, 100%)*

*Frequent species (cover, frequency): GRAMINOIDS: Arundinella nepalensis (7, 100%), Dichanthium tenue (100%), Gahnia aspera (13, 100%), Heteropogon contortus (100%), Oplismenus aemulus (100%), Paspalidium gausum (100%)  
FORBS: Abutilon indet. (100%), Ageratum houstonianum\* (100%), Brunoniella acaulis (100%), Cyathillium cinereum (100%), Desmodium rhytidophyllum (100%), Eustrephus latifolius (100%), Grewia latifolia (100%), Lomandra longifolia (100%), Oxalis perennans (1, 100%), Passiflora suberosa\* (100%), Stachytarpheta jamaicensis\* (2, 100%)*

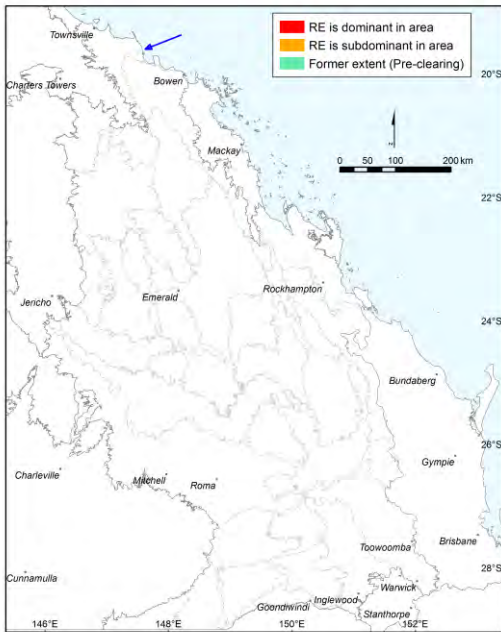
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Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 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

Semi-deciduous notophyll to mesophyll vine forest, fringing or in the vicinity of watercourses, on lowlands (subregion 1).



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 573 193 34%

Species\_recorded: Total: 32; woody: 28; ground: 11; Avg. spp./site: 32.0; std dev.: 0.0, 1 site(s)

Basal area: Avg./site: 41.0 m<sup>2</sup>/ha, range: 41.0 - 41 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 59557.

**Stratum: Tree 1**

Height avg. = 21.0m, 1 site

Crown cover avg. = 72.0%, 1 site

Dominant species (relative cover, frequency): *Livistona decora* (62, 100%), *Alstonia scholaris* (34, 100%), *Nauclea orientalis* (3, 100%), *Melaleuca leucadendra* (1, 100%)

Frequent species (cover, frequency): *Alstonia scholaris* (25, 100%), *Livistona decora* (45, 100%), *Melaleuca leucadendra* (1, 100%), *Nauclea orientalis* (3, 100%)

**Stratum: Tree 2**

Height avg. = 15.0m, 1 site

Crown cover avg. = 90.0%, 1 site

Dominant species (relative cover, frequency): *Cordia dichotoma* (33, 100%), *Carallia brachiata* (26, 100%), *Terminalia sericocarpa* (20, 100%), *Samanea saman*\* (7, 100%), *Livistona decora* (7, 100%)

Frequent species (cover, frequency): *Alstonia scholaris* (5, 100%), *Carallia brachiata* (20, 100%), *Cordia dichotoma* (25, 100%), *Cryptocarya triplinervis* (100%), *Ficus hispida* var. *hispida* (100%), *Ficus virens* (1, 100%), *Livistona decora* (5, 100%), *Pleiogynium timorense* (100%), *Ptychosperma macarthurii* (1, 100%), *Samanea saman*\* (5, 100%), *Spathodea campanulata* subsp. *nilotica*\* (100%), *Syagrus romanzoffiana*\* (1, 100%), *Terminalia sericocarpa* (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

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**Stratum: Tree 3**

Height avg. = 7.5m, 1 site

Crown cover avg. = 25.0%, 1 site

Dominant species (relative cover, frequency): *Litsea leefeana* (100, 100%)

Frequent species (cover, frequency): *Litsea leefeana* (25, 100%), *Tamarindus indica*\* (100%)

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**Stratum: Shrub 1**

Height avg. = 2.5m, 1 site

Crown cover avg. = 75.0%, 1 site

Dominant species (relative cover, frequency): *Livistona decora* (28, 100%), *Litsea leefeana* (22, 100%), *Spathodea campanulata* subsp. *nilotica*\* (17, 100%), *Trophis scandens* subsp. *scandens* (11, 100%), *Psidium guajava*\* (11, 100%)

Frequent species (cover, frequency): *Canarium australianum* var. *australianum* (100%), *Capparis sepiaria* (2, 100%), *Cordyline manners-suttoniae* (1, 100%), *Cupaniopsis anacardioides* (2, 100%), *Litsea leefeana* (20, 100%), *Livistona decora* (25, 100%), *Macaranga tanarius* (5, 100%), *Maclura cochinchinensis* (2, 100%), *Mallotus philippensis* (1, 100%), *Murraya paniculata* 'Exotica'\* (100%), *Psidium guajava*\* (10, 100%), *Spathodea campanulata* subsp. *nilotica*\* (15, 100%), *Syzygium cumini*\* (100%), *Trophis scandens* subsp. *scandens* (10, 100%)

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**Stratum: Ground**

Height avg. = 0.5m, 1 site

PFC avg. = 5.0%, 1 site

Dominant species (relative cover, frequency): *Stephania japonica* var. *discolor* (45, 100%), *Ptychosperma macarthurii* (18, 100%), *Terminalia sericocarpa* (9, 100%), *Macaranga tanarius* (9, 100%), *Livistona decora* (9, 100%)

Frequent species (cover, frequency): GRAMINOIDS: *Oplismenus aemulus* (100%)

FORBS: *Livistona decora* (1, 100%), *Macaranga tanarius* (1, 100%), *Murraya paniculata* 'Exotica'\* (100%), *Persicaria attenuata* (100%), *Ptychosperma macarthurii* (1, 100%), *Stephania japonica* var. *discolor* (3, 100%), *Syzygium cumini*\* (100%), *Terminalia sericocarpa* (1, 100%), *Trophis scandens* subsp. *scandens* (100%), *Urena lobata*\* (100%)

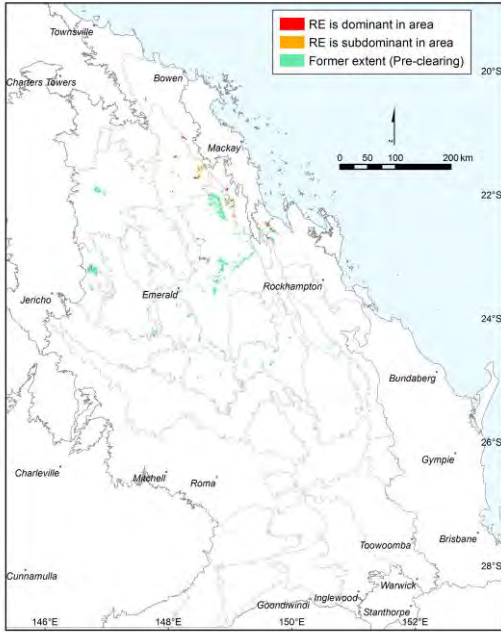
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Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 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 spp. and/or Corymbia spp. grassy or shrubby woodland on Cainozoic clay plains**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 195,490 34,831 18%

Species\_recorded: Total: 64; woody: 20; ground: 46; Average species per site and standard deviation not available

Basal area: Avg./site: 14.1 m<sup>2</sup>/ha, range: 9.5 - 17 m<sup>2</sup>/ha, std. deviation: 3 m<sup>2</sup>/ha, 4 site(s)

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

Representative\_sites 17194, 17555, 17574, 17578.

**Stratum: Tree 1**

Height avg. = 21.8m, range 20-25m, 4 sites

Crown cover avg. = 26.3%, range 20.0-35.0%, 4 sites

Dominant species (relative cover, frequency): *Eucalyptus populnea* (94, 100%), *Acacia excelsa* (10, 25%), *Eucalyptus crebra* (7, 50%)

Frequent species (cover, frequency): *Eucalyptus populnea* (25, 100%), *Eucalyptus crebra* (3, 50%), *Acacia excelsa* (2, 25%), *Corymbia dallachiana* (25%), *Eucalyptus crebra* x *E. populnea* (25%)

**Stratum: Tree 2**

Height avg. = 12.0m, range 10-14m, 3 sites

Crown cover avg. = 5.7%, range 5.0-7.0%, 3 sites

Dominant species (relative cover, frequency): *Cassia brewsteri* (100, 25%), *Eucalyptus populnea* (93, 50%), *Acacia excelsa* (14, 25%)

Frequent species (cover, frequency): *Eucalyptus populnea* (6, 50%), *Acacia excelsa* (1, 25%), *Cassia brewsteri* (5, 25%)

**Stratum: Tree 3**

Height avg. = 3.0m, 1 site

Crown cover avg. = 1.0%, 1 site

Dominant species (relative cover, frequency): *Denhamia pittosporoides* subsp. *pittosporoides* (50, 25%), *Acacia excelsa* (50, 25%)

Frequent species (cover, frequency): *Acacia excelsa* (25%), *Denhamia pittosporoides* subsp. *pittosporoides* (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. = 2.0m, range 1.2-3m, 4 sites****Crown cover avg. = 8.8%, range 1.0-30.0%, 4 sites**

*Dominant species (relative cover, frequency): Erythroxylum sp. (Splityard Creek L.Pedley 5360) (50, 25%), Cassia brewsteri (50, 25%), Erythroxylum australe (48, 25%), Denhamia pittosporoides subsp. pittosporoides (48, 25%), Eremophila mitchellii (33, 25%)*

*Frequent species (cover, frequency): Alectryon oleifolius subsp. elongatus (25%), Alstonia constricta (5, 25%), Atalaya hemiglaucula (5, 25%), Breynia oblongifolia (1, 25%), Cassia brewsteri (1, 25%), Denhamia pittosporoides subsp. pittosporoides (1, 25%), Eremophila mitchellii (10, 25%), Erythroxylum australe (1, 25%), Erythroxylum sp. (Splityard Creek L.Pedley 5360) (1, 25%), Flindersia dissosperma (5, 25%), Grewia latifolia (1, 25%), Opuntia streptacantha\* (25%), Owenia acidula (5, 25%), Sida hackettiana (1, 25%), Sida sp. (Musselbrook M.B.Thomas+ MRS437) (1, 25%)*

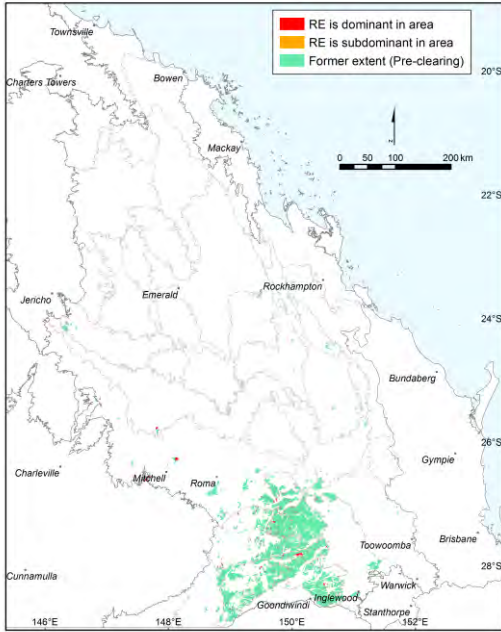
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Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 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 harpophylla and/or Casuarina cristata shrubby open forest on Cainozoic clay plains**



Don Butler

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 1,548,281 74,017 5%

Species\_recorded: Total: 171; woody: 41; ground: 142; Avg. spp./site: 38.7; std dev.: 8.4, 9 site(s)

Basal area: Avg./site: 23.4 m<sup>2</sup>/ha, range: 8.5 - 50 m<sup>2</sup>/ha, std. deviation: 10 m<sup>2</sup>/ha, 10 site(s)

Structural formation: Open-forest: 55%; woodland: 36%; low open-forest: 9%, 11 site(s)

Representative\_sites 16553, 16638, 16653, 16654, 16744, 16746, 16930, 16931, 16932, 17103, 17491.

**Stratum: Emergent**

Height avg. = 16.0m, 1 site

Crown cover avg. = 2.0%, 1 site

Frequent species (cover, frequency): *Acacia harpophylla* (1, 9%), *Casuarina cristata* (9%), *Eucalyptus woollsiana* (1, 9%)

**Stratum: Tree 1**

Height avg. = 18.1m, range 8.5-24m, 11 sites

Crown cover avg. = 43.5%, range 30.0-61.0%, 11 sites

Dominant species (relative cover, frequency): *Acacia harpophylla* (66, 73%), *Casuarina cristata* (50, 82%)

Frequent species (cover, frequency): *Baumea indet.* (5, 9%), *Casuarina cristata* (19, 82%), *Acacia harpophylla* (32, 73%), *Amyema quandang* (18%), *Eucalyptus woollsiana* (2, 18%), *Lysiphyllum carronii* (2, 9%), *Parsonsia lanceolata* (1, 9%)

**Stratum: Tree 2**

Height avg. = 11.0m, range 7.5-17m, 9 sites

Crown cover avg. = 8.9%, range 1.0-24.0%, 9 sites

Dominant species (relative cover, frequency): *Acacia harpophylla* (65, 73%), *Casuarina cristata* (35, 55%)

Frequent species (cover, frequency): *Acacia harpophylla* (7, 73%), *Casuarina cristata* (3, 55%), *Alectryon diversifolius* (1, 9%), *Brachychiton rupestris* (9%), *Eremophila mitchellii* (1, 9%), *Eucalyptus populnea* (9%), *Geijera parviflora* (2, 9%), *Opuntia tomentosa*\* (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 3**

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

Crown cover avg. = 17.5%, range 15.0-20.0%, 2 sites

*Frequent species (cover, frequency): Eremophila mitchellii (5, 18%), Geijera parviflora (10, 18%), Santalum lanceolatum (5, 9%)*

**Stratum: Shrub 1**

Height avg. = 3.7m, range 0.5-8m, 10 sites

Crown cover avg. = 16.0%, range 3.0-30.0%, 10 sites

*Dominant species (relative cover, frequency): Geijera parviflora (81, 64%), Acacia harpophylla (21, 55%), Alectryon diversifolius (13, 36%), Eremophila mitchellii (8, 27%), Opuntia tomentosa\* (4, 27%)*

*Frequent species (cover, frequency): Geijera parviflora (14, 64%), Acacia harpophylla (3, 55%), Alectryon diversifolius (2, 36%), Casuarina cristata (27%), Eremophila mitchellii (1, 27%), Opuntia tomentosa\* (1, 27%), Apophyllum anomalum (18%), Atalaya hemiglaucula (18%), Citrus glauca (18%), Ehretia membranifolia (1, 18%), Exocarpos aphyllus (18%), Jasminum didymum subsp. lineare (1, 18%), Melaleuca bracteata (18%), Parsonsia eucalyptophylla (18%), Senna coronilloides (18%), Alectryon oleifolius subsp. elongatus (9%), Alectryon subdentatus (1, 9%), Amyema congener (9%), Brachychiton rupestris (1, 9%), Bursaria spinosa subsp. spinosa (9%), Carissa ovata (10, 9%), Clematicissus opaca (1, 9%), Diospyros humilis (1, 9%), Eremophila deserti (9%), Eucalyptus populnea (9%), Everistia vacciniifolia (1, 9%), Jasminum didymum subsp. racemosum (1, 9%), Melaleuca squamophloia (2, 9%), Opuntia stricta\* (9%), Pimelea neoanglica (9%), Pittosporum angustifolium (9%), Santalum acuminatum (9%)*

**Stratum: Shrub 2**

Height avg. = 1.2m, range 0.8-2m, 4 sites

Crown cover avg. = 11.0%, range 1.0-25.0%, 4 sites

*Dominant species (relative cover, frequency): Carissa ovata (19, 27%)*

*Frequent species (cover, frequency): Carissa ovata (2, 27%), Eremophila deserti (11, 18%), Geijera parviflora (2, 18%), Alectryon diversifolius (2, 9%), Eremophila glabra subsp. glabra (1, 9%), Exocarpos aphyllus (9%), Notelaea microcarpa (9%), Opuntia tomentosa\* (9%), Pimelea neoanglica (9%), Scaevola spinescens (2, 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. = 0.3m, range 0.07-0.8m, 9 sites

PFC avg. = 43.4%, range 4-72%, 9 sites

*Dominant species (relative cover, frequency): Paspalidium distans (32, 33%), Chloris divaricata (24, 33%), Paspalidium caespitosum (21, 44%), Geijera parviflora (12, 22%), Enteropogon acicularis (12, 67%)*

*Frequent species (cover, frequency): GRAMINOIDS: Ancistrachne uncinulata (2, 78%), Enteropogon acicularis (8, 67%), Sporobolus caroli (1, 67%), Cyperus gracilis (56%), Cymbopogon refractus (6, 44%), Paspalidium caespitosum (6, 44%), Chloris divaricata (18, 33%), Paspalidium distans (18, 33%), Paspalidium gracile (33%), Sporobolus scabridus (33%), Carex inversa (22%), Dichanthium sericeum (22%), Dinebra decipiens (22%), Dinebra decipiens var. peacockii (22%), Panicum decompositum (1, 22%), Walwhalleya subxerophila (22%), Austrostipa ramosissima (11%), Austrostipa verticillata (11%), Calyptochloa gracillima subsp. gracillima (11%), Cenchrus ciliaris\* (11%), Chloris ventricosa (1, 11%), Cyperus betchei (11%), Cyperus difformis (11%), Cyperus indet. (2, 11%), Dinebra decipiens var. asthenes (11%), Enneapogon nigricans (11%), Eragrostis lacunaria (11%), Eragrostis parviflora (1, 11%), Eriochloa procera (11%), Eriochloa pseudoacrotricha (11%), Megathyrsus maximus\* (11%), Megathyrsus maximus var. maximus\* (11%), Paspalidium albobillosum (40, 11%), Paspalidium constrictum (5, 11%), Paspalidium criniforme (10, 11%), Rytidosperma bipartitum (2, 11%), Rytidosperma tenuius (11%), Scleria mackaviensis (11%)*

*FORBS: Enchylaena tomentosa (1, 100%), Brunoniella australis (56%), Commelina diffusa (1, 56%), Eremophila debilis (1, 56%), Nyssanthes erecta (56%), Opuntia tomentosa\* (56%), Solanum parvifolium (56%), Abutilon oxycarpum (44%), Alectryon diversifolius (44%), Calandrinia pickeringii (44%), Rhagodia parabolica (4, 44%), Solanum stelligerum (44%), Sonchus oleraceus\* (44%), Capparis lasiantha (33%), Carissa ovata (1, 33%), Cheilanthes distans (1, 33%), CyclospERMUM leptophyllum\* (33%), Desmodium varians (33%), Einadia hastata (1, 33%), Einadia nutans subsp. linifolia (33%), Euchiton sphaericus (33%), Hypoestes floribunda (33%), Maireana microphylla (1, 33%), Oxalis perennans (33%), Plectranthus parviflorus (33%), Portulaca oleracea\* (33%), Rhagodia spinescens (33%), Alternanthera denticulata (22%), Boerhavia indet. (22%), Brunonia australis (22%), Cardamine hirsuta\* (22%), Cayratia clematidea (22%), Clematicissus opaca (22%), Dianella caerulea (22%), Dipteracanthus australasicus subsp. corynothecus (22%), Einadia nutans (22%), Evolvulus alsinoides (22%), Geijera parviflora (1, 22%), Jasminum didymum subsp. lineare (1, 22%), Maireana coronata (22%), Opuntia stricta\* (22%), Pimelea neoanglica (22%), Rostellularia adscendens subsp. adscendens (22%), Sclerolaena birchii (22%), Sclerolaena tetracuspis (22%), Sclerolaena tricuspis (1, 22%), Solanum ellipticum (22%), Tetragonia tetragonoides (1, 22%), Zygophyllum apiculatum (22%), Abutilon fraseri (1, 11%), Abutilon indet. (11%), Abutilon malvifolium (1, 11%), Abutilon oxycarpum var. oxycarpum (11%), Atriplex semibaccata (11%), Boerhavia dominii (1, 11%), Centipeda minima subsp. minima (11%), Cheilanthes sieberi (11%), Cheilanthes sieberi subsp. sieberi (11%), Cirsium vulgare\* (11%), Commelina lanceolata (11%), Crassula sieberiana (11%), Cynogeton multifructus (11%), Damasonium minus (11%), Denhamia cunninghamii (11%), Desmodium brachypodum (1, 11%), Desmodium macrocarpum (11%), Ehretia membranifolia (11%), Elatine gratioloides (11%), Eremophila glabra subsp. glabra (11%), Everistia vacciniifolia (11%), Evolvulus alsinoides var. villosicalyx (1, 11%), Flindersia collina (11%), Glandularia aristigera\* (11%), Harrisia martinii\* (1, 11%), Hibiscus indet. (1, 11%), Hypochaeris glabra\* (11%), Jasminum didymum subsp. racemosum (11%), Lobelia concolor (11%), Malvastrum americanum var. americanum\* (11%), Malvastrum coromandelianum subsp. coromandelianum\* (11%), Marsilea indet. (11%), Murdannia graminea (11%), Opuntia aurantiaca\* (1, 11%), Oxalis indet. (11%), Parsonsia leichhardtii (11%), Phyllanthus gunnii (11%), Plantago debilis (11%), Plectranthus graveolens (11%), Pseuderanthemum variabile (1, 11%), Ranunculus sessiliflorus (11%), Sclerolaena diacantha (1, 11%), Sida fibulifera (11%), Sida hackettiana (5, 11%), Sida trichopoda (1, 11%), Solanum nodiflorum\* (11%), Solenogyne belliioides (11%), Stellaria angustifolia subsp. angustifolia (11%), Tribulus indet. (1, 11%), Vittadinia cuneata var. hirsuta (1, 11%), Vittadinia indet. (1, 11%), Xerothamnella herbacea (11%)*

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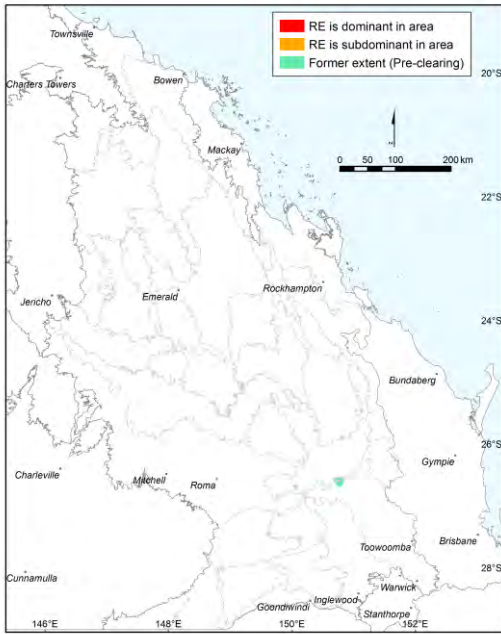
**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive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



Don Butler

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 2,084 43 2%

Species\_recorded: Total: 42; woody: 10; ground: 32; Avg. spp./site: 42.0; 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-forest: 100%, 1 site(s)

Representative\_sites 16699.

**Stratum: Tree 1**

Height avg. = 24.0m, 1 site

Crown cover avg. = 56.0%, 1 site

Dominant species (relative cover, frequency): *Casuarina cristata* (100, 100%)

Frequent species (cover, frequency): *Casuarina cristata* (56, 100%)

**Stratum: Tree 2**

Height avg. = 9.0m, 1 site

Crown cover avg. = 5.0%, 1 site

Dominant species (relative cover, frequency): *Acacia harpophylla* (58, 100%), *Casuarina cristata* (38, 100%), *Paspalidium gracile* (2, 100%), *Amyema pendula subsp. longifolia* (2, 100%)

Frequent species (cover, frequency): *Paspalidium gracile* (100%), *Acacia harpophylla* (3, 100%), *Amyema pendula subsp. longifolia* (100%), *Casuarina cristata* (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. = 4.0m, 1 site

Crown cover avg. = 10.0%, 1 site

*Dominant species (relative cover, frequency): Geijera parviflora (36, 100%), Casuarina cristata (18, 100%), Apophyllum anomalum (18, 100%), Citrus glauca (9, 100%), Alectryon diversifolius (9, 100%)*

*Frequent species (cover, frequency): Acacia harpophylla (1, 100%), Alectryon diversifolius (1, 100%), Apophyllum anomalum (2, 100%), Capparis mitchellii (100%), Casuarina cristata (2, 100%), Citrus glauca (1, 100%), Eremophila mitchellii (100%), Geijera parviflora (4, 100%)*

**Stratum: Ground**

Height avg. = 0.3m, 1 site

PFC avg. = 35.0%, 1 site

*Dominant species (relative cover, frequency): Paspalidium caespitosum (36, 100%), Carex inversa (18, 100%), Carissa ovata (7, 100%), Panicum decompositum (4, 100%), Damasonium minus (4, 100%)*

*Frequent species (cover, frequency): GRAMINOIDS: Ancistrachne uncinulata (1, 100%), Carex inversa (5, 100%), Chloris divaricata (1, 100%), Cymbopogon refractus (1, 100%), Cyperus gracilis (100%), Dinebra decipiens (100%), Enteropogon indet. (1, 100%), Eragrostis microcarpa (100%), Megathyrsus maximus var. maximus\* (100%), Panicum decompositum (1, 100%), Paspalidium caespitosum (10, 100%), Schoenus vaginatus (100%), Triraphis mollis (100%)*

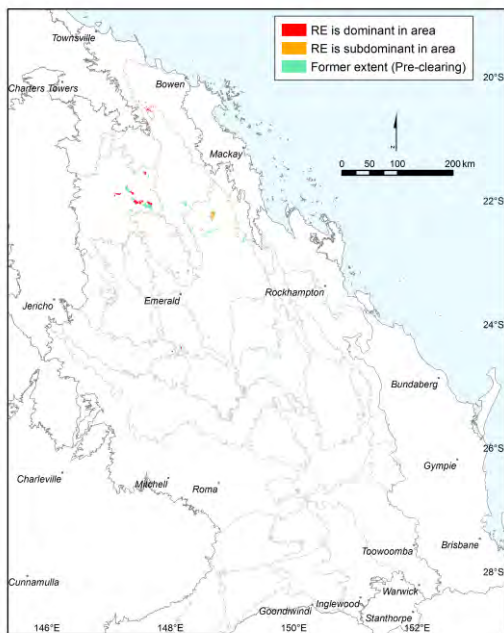
*FORBS: Alternanthera nodiflora (100%), Asteraceae indet. (100%), Brunoniella australis (100%), Calotis cuneata (1, 100%), Carissa ovata (2, 100%), Crinum flaccidum (100%), Damasonium minus (1, 100%), Duma florulenta (100%), Enchylaena tomentosa (100%), Eremophila deserti (100%), Eriochlamys indet. (1, 100%), Jasminum didymum (100%), Lysiana subfalcata (100%), Marsilea drummondii (1, 100%), Pittosporum spinescens (100%), Rhagodia spinescens (100%), Sida fibulifera (100%), Sigesbeckia orientalis (100%), Solanum parvifolium (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

Dichanthium spp., Astrebla spp. grassland on Cainozoic clay plains



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 66,628 24,467 37%

Species\_recorded: Total: 61; woody: 4; ground: 57; Avg. spp./site: 18.8; std dev.: 6.4, 4 site(s)

Basal area: 0

Structural formation: Tussock grassland: 50%; open-tussock grassland: 25%; closed-tussock grassland: 25%, 4 site(s)

Representative\_sites 19170, 19172, 19174, 56274.

Stratum: Shrub 1

Height avg. = 1.0m, 1 site

Crown cover avg. = 1.0%, 1 site

Dominant species (relative cover, frequency): *Myoporum acuminatum* (77, 25%), *Solanum esuriale* (8, 25%), *Lysiphyllum carronii* (8, 25%), *Atalaya hemiglauca* (8, 25%)

Frequent species (cover, frequency): *Atalaya hemiglauca* (25%), *Lysiphyllum carronii* (25%), *Myoporum acuminatum* (1, 25%), *Solanum esuriale* (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 0.5-0.7m, 4 sites

PFC avg. = 59.8%, range 30-89%, 4 sites

*Dominant species (relative cover, frequency):* *Astrebula squarrosa* (79, 50%), *Dichanthium sericeum* (39, 25%), *Astrebula lappacea* (32, 25%), *Flemingia parviflora* (16, 25%), *Aristida latifolia* (16, 25%)

*Frequent species (cover, frequency): GRAMINOIDS:* *Astrebula elymoides* (6, 50%), *Astrebula squarrosa* (47, 50%), *Bothriochloa decipiens* (1, 50%), *Iseilema membranaceum* (3, 50%), *Iseilema vaginiflorum* (5, 50%), *Aristida latifolia* (5, 25%), *Astrebula lappacea* (10, 25%), *Brachyachne convergens* (25%), *Cenchrus ciliaris*\* (1, 25%), *Cynodon dactylon*\* (25%), *Cyperus bifax* (10, 25%), *Dichanthium aristatum*\* (8, 25%), *Dichanthium sericeum* (35, 25%), *Eriochloa procera* (8, 25%), *Sporobolus indet.* (3, 25%), *Sporobolus sessilis* (25%), *Thellungia advena* (5, 25%)

*FORBS:* *Neptunia gracilis* (3, 100%), *Desmodium campylocaulon* (1, 50%), *Desmodium indet.* (50%), *Euphorbia tannensis* subsp. *eremophila* (50%), *Parthenium hysterophorus*\* (1, 50%), *Rhynchosia minima* (1, 50%), *Sida indet.* (1, 50%), *Abelmoschus ficulneus* (25%), *Achyranthes aspera* (25%), *Alternanthera ficoidea*\* (1, 25%), *Apophyllum anomalum* (25%), *Bidens pilosa*\* (25%), *Boerhavia indet.* (25%), *Convolvulaceae indet.* (25%), *Crotalaria indet.* (1, 25%), *Crotalaria medicaginea* (25%), *Crotalaria montana* (25%), *Cullen cinereum* (25%), *Desmodium muelleri* (1, 25%), *Flemingia parviflora* (5, 25%), *Hibiscus verdcourtii* (25%), *Hypoestes indet.* (25%), *Ipomoea eriocarpa* (25%), *Ipomoea lonchophylla* (25%), *Malvastrum americanum* var. *americanum*\* (25%), *Melhania oblongifolia* (25%), *Neptunia monosperma* (25%), *Phyllanthus virgatus* (25%), *Ptilotus nobilis* (25%), *Rostellularia adscendens* (25%), *Sida rhombifolia*\* (25%), *Sida trichopoda* (25%), *Solanum indet.* (25%), *Stemodia pubescens* (25%), *Swainsona campylantha* (25%), *Trianthema triquetra* (25%), *Tribulus terrestris* (1, 25%), *Trichodesma zeylanicum* (25%), *Vachellia farnesiana*\* (25%), *Xanthium occidentale*\* (1, 25%)

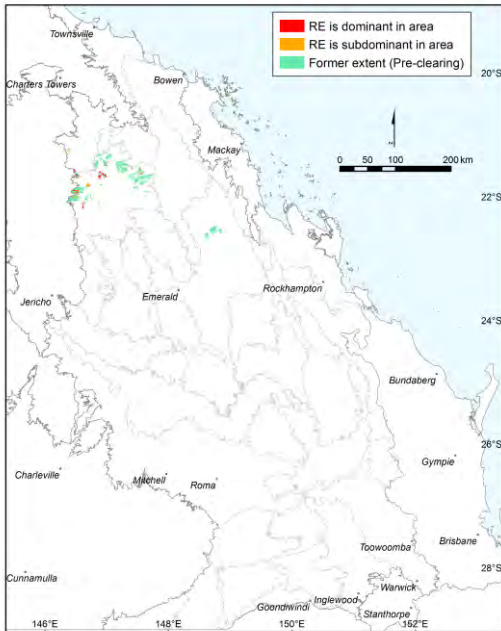
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**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with 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 argyrodendron woodland on Cainozoic clay plains



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 101,045 12,939 13%

Species\_recorded: Total: 63; woody: 19; ground: 47; Avg. spp./site: 21.8; std dev.: 5.7, 4 site(s)

Basal area: Avg./site: 6.5 m<sup>2</sup>/ha, range: 2.0 - 10 m<sup>2</sup>/ha, std. deviation: 3 m<sup>2</sup>/ha, 4 site(s)

Structural formation: Open-woodland: 50%; woodland: 25%; low open-woodland: 25%, 4 site(s)

Representative\_sites 19137, 19138, 19155, 19226.

**Stratum: Tree 1**

Height avg. = 10.5m, range 10-11m, 4 sites  
 Crown cover avg. = 14.5%, range 12.0-20.0%, 4 sites

Dominant species (relative cover, frequency): *Acacia argyrodendron* (83, 100%), *Acacia cambagei* (59, 25%), *Lysiphillum carronii* (4, 25%), *Terminalia oblongata subsp. oblongata* (3, 25%), *Amyema quandang* (1, 25%)

Frequent species (cover, frequency): *Acacia argyrodendron* (18, 100%), *Acacia cambagei* (8, 25%), *Amyema quandang* (25%), *Amyema quandang var. bancroftii* (25%), *Lysiphillum carronii* (1, 25%), *Terminalia oblongata subsp. oblongata* (1, 25%)

**Stratum: Shrub 1**

Height avg. = 2.2m, range 1-4m, 4 sites  
 Crown cover avg. = 1.0%, range 0.0-2.0%, 4 sites

Dominant species (relative cover, frequency): *Eremophila deserti* (67, 25%), *Apophyllum anomalum* (50, 25%), *Terminalia oblongata subsp. oblongata* (45, 25%), *Opuntia stricta\** (34, 25%), *Opuntia tomentosa\** (33, 25%)

Frequent species (cover, frequency): *Carissa ovata* (1, 50%), *Acacia argyrodendron* (1, 25%), *Acacia cambagei* (1, 25%), *Apophyllum anomalum* (25%), *Capparis indet.* (25%), *Cynanchum viminalis subsp. brunonianum* (25%), *Ehretia membranifolia* (25%), *Enchylaena tomentosa* (25%), *Eremophila deserti* (1, 25%), *Harrisia martinii\** (25%), *Hibiscus indet.* (25%), *Melhantha oblongifolia* (25%), *Opuntia stricta\** (1, 25%), *Opuntia tomentosa\** (1, 25%), *Sesbania cannabina* (25%), *Terminalia oblongata subsp. oblongata* (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. = 0.3m, range 0.2-0.5m, 4 sites

PFC avg. = 46.3%, range 30-80%, 4 sites

*Dominant species (relative cover, frequency): Sclerolaena tetracuspis (66, 50%), Enteropogon ramosus (22, 50%), Cenchrus ciliaris\* (15, 75%), Sporobolus scabridus (11, 75%), Parthenium hysterophorus\* (11, 25%)*

*Frequent species (cover, frequency): GRAMINOIDS: Cenchrus ciliaris\* (3, 75%), Sporobolus scabridus (3, 75%), Enteropogon ramosus (5, 50%), Paspalidium indet. (50%), Astrebla squarrosa (3, 25%), Bothriochloa ewartiana (25%), Chloris divaricata (1, 25%), Chloris indet. (1, 25%), Chloris ventricosa (25%), Dinebra decipiens (25%), Enteropogon unispiceus (25%), Eragrostis lacunaria (25%), Eriochloa indet. (4, 25%), Fimbristylis dichotoma (25%), Panicum decompositum (1, 25%), Paspalidium caespitosum (1, 25%), Paspalidium globoideum (25%), Paspalidium scabrifolium (4, 25%), Sporobolus caroli (4, 25%)*

*FORBS: Portulaca oleracea\* (3, 100%), Abutilon oxycarpum (1, 75%), Atriplex spongiosa (50%), Chenopodium desertorum subsp. anidiophyllum (3, 50%), Melhania oblongifolia (50%), Salsola australis (50%), Sclerolaena tetracuspis (25, 50%), Streptoglossa adscendens (50%), Tribulus terrestris (50%), Brunoniella australis (25%), Carissa ovata (25%), Cheilanthes distans (4, 25%), Cheilanthes sieberi (25%), Commelina diffusa (25%), Commelina indet. (1, 25%), Commelina lanceolata (25%), Crinum flaccidum (25%), Dipteracanthus australasicus subsp. corynothecus (25%), Einadia nutans subsp. linifolia (25%), Enchylaena tomentosa (25%), Ipomoea indet. (25%), Parsonsia eucalyptophylla (25%), Parsonsia lanceolata (25%), Parthenium hysterophorus\* (4, 25%), Phyllanthus maderaspatensis (25%), Pseuderanthemum variabile (25%), Trianthema portulacastrum\* (4, 25%), Trianthema triquetra (25%)*

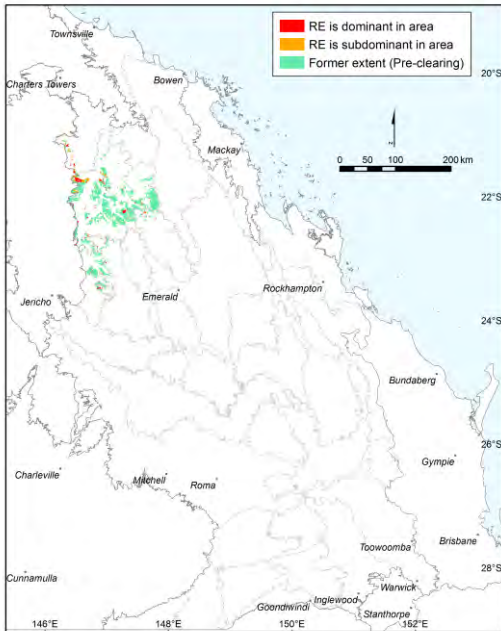
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**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with 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 cambagei woodland on Cainozoic clay plains



Jesse Rowland

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 312,750 34,347 11%

Species\_recorded: Total: 122; woody: 45; ground: 97; Avg. spp./site: 26.7; std dev.: 10.9, 9 site(s)

Basal area: Avg./site: 12.0 m<sup>2</sup>/ha, range: 5.0 - 25 m<sup>2</sup>/ha, std. deviation: 6 m<sup>2</sup>/ha, 9 site(s)

Structural formation: Woodland: 22%; low open-woodland: 22%; low open-forest: 22%; open-woodland: 11%; open-forest: 11%; low woodland: 11%, 9 site(s)

Representative\_sites 2554, 17030, 19114, 19150, 19153, 19190, 32302, 32304, 32326.

Stratum: Emergent

Height avg. = 14.8m, range 11-20m, 4 sites

Crown cover avg. = 1.3%, range 0.0-3.0%, 4 sites

Frequent species (cover, frequency): *Acacia cambagei* (1, 11%), *Brachychiton rupestris* (1, 11%), *Eucalyptus cambageana* (11%), *Eucalyptus thozetiana* (11%)

Stratum: Tree 1

Height avg. = 9.1m, range 6-12m, 9 sites

Crown cover avg. = 32.8%, range 10.0-60.0%, 9 sites

Dominant species (relative cover, frequency): *Acacia cambagei* (76, 100%), *Acacia harpophylla* (24, 78%)

Frequent species (cover, frequency): *Acacia cambagei* (27, 100%), *Acacia harpophylla* (7, 78%), *Acacia argyrodendron* (8, 11%), *Amyema quandang* var. *quandang* (1, 11%), *Casuarina cristata* (2, 11%), *Cynanchum viminalis* subsp. *brunonianum* (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 2**

Height avg. = 5.3m, range 3.5-8m, 6 sites

Crown cover avg. = 11.3%, range 1.0-18.0%, 6 sites

*Dominant species (relative cover, frequency):* *Acacia cambagei* (57, 44%), *Eremophila mitchellii* (53, 22%), *Acacia harpophylla* (51, 44%), *Terminalia oblongata subsp. oblongata* (11, 22%)

*Frequent species (cover, frequency):* *Acacia cambagei* (7, 44%), *Acacia harpophylla* (5, 44%), *Eremophila mitchellii* (8, 22%), *Terminalia oblongata subsp. oblongata* (2, 22%), *Acacia argyrodendron* (11%), *Amyema quandang* (11%), *Amyema quandang var. quandang* (1, 11%), *Atalaya hemiglauca* (1, 11%), *Diplocyclos palmatus* (11%)

**Stratum: Shrub 1**

Height avg. = 1.9m, range 0.75-5m, 9 sites

Crown cover avg. = 6.4%, range 1.0-22.0%, 9 sites

*Dominant species (relative cover, frequency):* *Enchylaena tomentosa* (41, 22%), *Eremophila mitchellii* (34, 67%), *Acacia cambagei* (33, 67%), *Acacia harpophylla* (17, 56%), *Terminalia oblongata subsp. oblongata* (12, 78%)

*Frequent species (cover, frequency):* *Terminalia oblongata subsp. oblongata* (1, 78%), *Acacia cambagei* (2, 67%), *Eremophila mitchellii* (2, 67%), *Acacia harpophylla* (2, 56%), *Santalum lanceolatum* (1, 56%), *Eremophila deserti* (44%), *Harrisia martinii\** (33%), *Opuntia tomentosa\** (33%), *Amyema quandang var. quandang* (1, 22%), *Apophyllum anomalum* (1, 22%), *Atalaya hemiglauca* (1, 22%), *Carissa ovata* (22%), *Citrus glauca* (22%), *Ehretia membranifolia* (22%), *Enchylaena tomentosa* (3, 22%), *Geijera salicifolia* (22%), *Abutilon oxycarpum* (11%), *Acalypha eremorum* (11%), *Alectryon diversifolius* (11%), *Casuarina cristata* (11%), *Cucumis melo* (11%), *Cymbidium canaliculatum* (11%), *Cynanchum viminale subsp. brunonianum* (11%), *Diplocyclos palmatus* (11%), *Duma florulenta* (11%), *Erythroxylum australe* (1, 11%), *Eucalyptus thozetiana* (11%), *Flindersia dissosperma* (11%), *Flueggea leucopyrus* (11%), *Geijera parviflora* (3, 11%), *Ipomoea coptica* (11%), *Lysiphyllum carronii* (11%), *Psyrax attenuata* (11%), *Salsola australis* (11%), *Secamone elliptica* (2, 11%)

**Stratum: Shrub 2**

Height avg. = 0.6m, range 0.3-1m, 4 sites

Crown cover avg. = 15.0%, range 3.0-35.0%, 4 sites

*Dominant species (relative cover, frequency):* *Carissa ovata* (54, 44%), *Capparis lasiantha* (3, 33%), *Geijera parviflora* (1, 22%)

*Frequent species (cover, frequency):* *Carissa ovata* (9, 44%), *Capparis lasiantha* (1, 33%), *Geijera parviflora* (22%), *Abutilon oxycarpum var. oxycarpum* (5, 11%), *Acacia cambagei* (3, 11%), *Achyranthes aspera* (1, 11%), *Alectryon diversifolius* (11%), *Apophyllum anomalum* (11%), *Citrus glauca* (11%), *Eremophila mitchellii* (2, 11%), *Hibiscus krichauffianus* (5, 11%), *Jasminum didymum* (2, 11%), *Opuntia tomentosa\** (11%), *Terminalia oblongata subsp. oblongata* (11%), *Waltheria indica* (15,

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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, 9 sites

PFC avg. = 23.2%, range 1-60%, 9 sites

*Dominant species (relative cover, frequency):* *Cenchrus ciliaris*\* (35, 78%), *Centipeda minima subsp. minima* (30, 22%), *Sclerolaena tetracuspis* (26, 44%), *Paspalidium caespitosum* (19, 67%), *Sesbania cannabina* (14, 22%)

*Frequent species (cover, frequency): GRAMINOIDS:* *Cenchrus ciliaris*\* (11, 78%), *Paspalidium caespitosum* (2, 67%), *Enneapogon lindleyanus* (2, 44%), *Sporobolus caroli* (44%), *Sporobolus scabridus* (4, 44%), *Enteropogon ramosus* (33%), *Cyperus indet.* (3, 22%), *Urochloa reptans* (1, 22%), *Acrachne racemosa* (11%), *Aristida holathera var. holathera* (2, 11%), *Aristida indet.* (11%), *Astrebala squarrosa* (4, 11%), *Chloris divaricata* (3, 11%), *Cynodon dactylon*\* (11%), *Dactyloctenium radulans* (11%), *Dichanthium sericeum* (11%), *Digitaria brownii* (11%), *Dinebra decipiens var. asthenes* (11%), *Enneapogon polyphyllus* (11%), *Enteropogon acicularis* (1, 11%), *Eragrostis tenuifolia*\* (2, 11%), *Panicum decompositum* (11%), *Panicum effusum* (2, 11%), *Panicum queenslandicum* (11%), *Paspalidium constrictum* (11%), *Paspalidium distans* (11%), *Paspalidium indet.* (1, 11%), *Sporobolus contiguus* (11%), *Urochloa praetervis* (11%)

*FORBS:* *Abutilon oxycarpum* (1, 67%), *Enchylaena tomentosa* (1, 56%), *Sclerolaena tetracuspis* (2, 44%), *Salsola australis* (1, 33%), *Sida indet.* (33%), *Trianthema triquetra* (1, 33%), *Achyranthes aspera* (22%), *Amaranthus interruptus* (1, 22%), *Capparis lasiantha* (22%), *Centipeda minima subsp. minima* (8, 22%), *Commelina indet.* (22%), *Einadia nutans* (1, 22%), *Evolvulus alsinoides* (22%), *Harrisia martinii*\* (22%), *Hibiscus indet.* (22%), *Portulaca pilosa*\* (22%), *Pseuderanthemum variabile* (22%), *Sesbania cannabina* (2, 22%), *Solanum ellipticum* (22%), *Abutilon fraseri subsp. fraseri* (11%), *Abutilon nobile* (11%), *Acanthospermum hispidum*\* (11%), *Aeschynomene indica* (3, 11%), *Alternanthera nodiflora* (11%), *Amyema quandang* (11%), *Atriplex muelleri* (11%), *Boerhavia paludosa* (11%), *Carissa lanceolata* (11%), *Carissa ovata* (11%), *Cayratia clematidea* (11%), *Citrus glauca* (11%), *Cymbidium canaliculatum* (11%), *Cynanchum viminalis subsp. brunonianum* (11%), *Diplocyclos palmatus* (11%), *Dipteracanthus australasicus subsp. corynothecus* (11%), *Ehretia membranifolia* (11%), *Einadia nutans subsp. linifolia* (1, 11%), *Eremophila deserti* (11%), *Euphorbia indet.* (11%), *Euphorbiaceae indet.* (11%), *Glinus lotoides* (2, 11%), *Hibiscus verdcourtii* (1, 11%), *Ipomoea coptica* (11%), *Jasminum didymum* (11%), *Maireana indet.* (11%), *Malvastrum americanum var. americanum*\* (11%), *Nyssanthes erecta* (11%), *Ocimum x africanum*\* (11%), *Opuntia aurantiaca*\* (1, 11%), *Opuntia tomentosa*\* (11%), *Oxalis indet.* (11%), *Parthenium hysterophorus*\* (1, 11%), *Phyllanthus fuermrohrii* (11%), *Phyllanthus maderaspatensis* (11%), *Portulaca oleracea*\* (3, 11%), *Rhynchosia minima* (11%), *Rostellularia adscendens* (11%), *Schenkia australis* (11%), *Sclerolaena bicornis var. horrida* (1, 11%), *Secamone elliptica* (11%), *Sida fibulifera* (1, 11%), *Sida rhombifolia*\* (11%), *Stemodia pubescens* (11%), *Streptoglossa adscendens* (11%), *Terminalia oblongata subsp. oblongata* (11%), *Tetragonia tetragonoides* (11%), *Tribulus terrestris* (11%), *Waltheria indica* (11%)

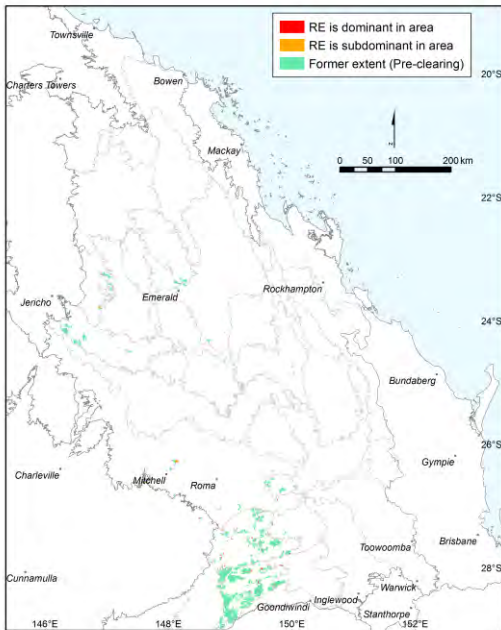
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**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with 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 with Acacia harpophylla and/or Casuarina cristata open forest to woodland on Cainozoic clay plains**



**Pre-clearing area (ha), remnant area (ha) and per cent remaining: 209,743 19,724 9%**

**Species\_recorded: Total: 32; woody: 10; ground: 22; Avg. spp./site: 32.0; std dev.: 0.0, 1 site(s)**

**Basal area: Avg./site: 14.0 m<sup>2</sup>/ha, range: 14.0 - 14 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 17097.**

**Stratum: Tree 1**

**Height avg. = 12.0m, 1 site**

**Crown cover avg. = 28.0%, 1 site**

*Dominant species (relative cover, frequency): Casuarina cristata (69, 100%), Eucalyptus populnea (28, 100%), Alectryon oleifolius subsp. elongatus (3, 100%)*

*Frequent species (cover, frequency): Alectryon oleifolius subsp. elongatus (1, 100%), Casuarina cristata (20, 100%), Eucalyptus populnea (8, 100%)*

**Stratum: Tree 2**

**Height avg. = 5.0m, 1 site**

**Crown cover avg. = 30.0%, 1 site**

*Dominant species (relative cover, frequency): Eremophila mitchellii (50, 100%), Geijera parviflora (33, 100%), Atalaya hemiglauca (17, 100%)*

*Frequent species (cover, frequency): Acacia oswaldii (100%), Atalaya hemiglauca (5, 100%), Eremophila mitchellii (15, 100%), Geijera parviflora (10, 100%)*

**Stratum: Shrub 1**

**Height avg. = 2.0m, 1 site**

**Crown cover avg. = 15.0%, 1 site**

*Dominant species (relative cover, frequency): Dodonaea viscosa subsp. spatulata (63, 100%), Casuarina cristata (31, 100%), Jasminum didymum subsp. lineare (3, 100%), Apophyllum anomalum (3, 100%)*

*Frequent species (cover, frequency): Apophyllum anomalum (1, 100%), Casuarina cristata (5, 100%), Dodonaea viscosa subsp. spatulata (10, 100%), Jasminum didymum subsp. lineare (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. = 0.6m, 1 site****PFC avg. = 35.0%, 1 site**

*Dominant species (relative cover, frequency): Paspalidium caespitosum (23, 100%), Dinebra decipiens var. peacockii (23, 100%), Aristida personata (11, 100%), Panicum queenslandicum var. queenslandicum (11, 100%), Cyperus indet. (11, 100%)*

*Frequent species (cover, frequency): GRAMINOIDS: Ancistrachne uncinulata (1, 100%), Aristida personata (5, 100%), Cenchrus ciliaris\* (1, 100%), Cyperus indet. (5, 100%), Dinebra decipiens var. peacockii (10, 100%), Enteropogon acicularis (1, 100%), Eragrostis lacunaria (1, 100%), Panicum queenslandicum var. queenslandicum (5, 100%), Paspalidium caespitosum (10, 100%)*

*FORBS: Abutilon malvifolium (1, 100%), Brunoniella australis (1, 100%), Commelina diffusa (1, 100%), Denhamia cunninghamii (1, 100%), Einadia nutans subsp. linifolia (1, 100%), Lysiana exocarpi subsp. tenuis (1, 100%), Marsilea indet. (1, 100%), Nyssanthes erecta (1, 100%), Opuntia aurantiaca\* (1, 100%), Opuntia tomentosa\* (1, 100%), Parsonsia indet. (1, 100%), Phyllanthus indet. (1, 100%), Rostellularia indet. (1, 100%)*

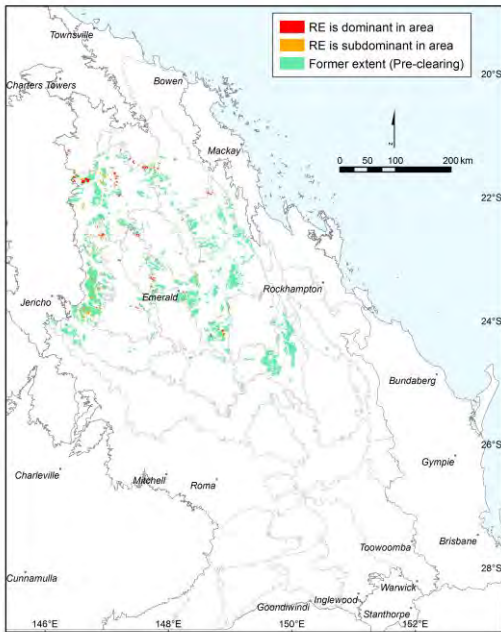
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Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 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

**Eucalyptus cambageana woodland to open forest with Acacia harpophylla or A. argyrodendron on Cainozoic clay plains**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 723,320 69,504 10%

Species\_recorded: Total: 201; woody: 42; ground: 171; Avg. spp./site: 31.8; std dev.: 7.1, 10 site(s)

Basal area: Avg./site: 13.6 m<sup>2</sup>/ha, range: 5.0 - 28 m<sup>2</sup>/ha, std. deviation: 7 m<sup>2</sup>/ha, 15 site(s)

Structural formation: Woodland: 33%; open-woodland: 33%; open-forest: 27%; unrecorded: 7%, 15 site(s)

Representative\_sites 16869, 16905, 16909, 17046, 17234, 17448, 17489, 17672, 19017, 19025, 19168, 19179, 19185, 19259, 28938.

**Stratum: Emergent**

Height avg. = 18.7m, range 15-25m, 6 sites

Crown cover avg. = 6.3%, range 5.0-10.0%, 6 sites

Dominant species (relative cover, frequency): *Eucalyptus cambageana* (100, 40%)

Frequent species (cover, frequency): *Eucalyptus cambageana* (6, 40%), *Eucalyptus populnea* (7%)

**Stratum: Tree 1**

Height avg. = 15.3m, range 10-22m, 15 sites

Crown cover avg. = 29.9%, range 5.0-60.0%, 15 sites

Dominant species (relative cover, frequency): *Acacia harpophylla* (85, 53%), *Eucalyptus cambageana* (59, 73%)

Frequent species (cover, frequency): *Eucalyptus cambageana* (14, 73%), *Acacia harpophylla* (24, 53%), *Eucalyptus populnea* (8, 13%), *Eucalyptus thozetiana* (27, 13%), *Amyema quandang* var. *bancroftii* (7%), *Brachychiton rupestris* (7%), *Corymbia tessellaris* (7%), *Flindersia dissosperma* (7%), *Terminalia oblongata* subsp. *oblongata* (2, 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: 11.4.8

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### Stratum: Tree 2

Height avg. = 12.1m, range 5-16m, 8 sites

Crown cover avg. = 18.3%, range 5.0-40.0%, 8 sites

Dominant species (relative cover, frequency): *Acacia harpophylla* (80, 47%)

Frequent species (cover, frequency): *Acacia harpophylla* (15, 47%), *Eucalyptus cambageana* (3, 20%), *Eremophila mitchellii* (13, 13%), *Terminalia oblongata* subsp. *oblongata* (13%), *Alphitonia excelsa* (7%), *Corymbia tessellaris* (7%), *Cymbidium canaliculatum* (7%), *Eucalyptus populnea* (1, 7%), *Flindersia dissosperma* (7%), *Lysiana subfalcatata* (7%), *Lysiphyllum carronii* (7%)

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### Stratum: Tree 3

Height avg. = 6.0m, range 5-7m, 3 sites

Crown cover avg. = 15.3%, range 5.0-35.0%, 3 sites

Frequent species (cover, frequency): *Lysiphyllum carronii* (3, 13%), *Acacia harpophylla* (7%), *Brachychiton rupestris* (7%), *Ehretia membranifolia* (6, 7%), *Eremophila mitchellii* (10, 7%), *Erythroxylum australe* (1, 7%), *Flindersia dissosperma* (1, 7%), *Geijera parviflora* (20, 7%), *Owenia acidula* (7%), *Terminalia oblongata* subsp. *oblongata* (1, 7%)

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### Stratum: Shrub 1

Height avg. = 2.8m, range 1-6m, 13 sites

Crown cover avg. = 13.3%, range 1.0-50.0%, 14 sites

Dominant species (relative cover, frequency): *Geijera parviflora* (53, 27%), *Acacia harpophylla* (36, 47%), *Eremophila mitchellii* (35, 73%), *Alectryon diversifolius* (16, 47%), *Carissa ovata* (16, 33%)

Frequent species (cover, frequency): *Eremophila mitchellii* (5, 73%), *Acacia harpophylla* (3, 47%), *Alectryon diversifolius* (2, 47%), *Carissa ovata* (2, 33%), *Atalaya hemiglaucata* (1, 27%), *Flindersia dissosperma* (27%), *Geijera parviflora* (14, 27%), *Apophyllum anomalum* (1, 20%), *Alphitonia excelsa* (13%), *Capparis lasiantha* (13%), *Clematicissus opaca* (1, 13%), *Ehretia membranifolia* (13%), *Enchylaena tomentosa* (1, 13%), *Eucalyptus cambageana* (3, 13%), *Terminalia oblongata* subsp. *oblongata* (2, 13%), *Acacia indet.* (1, 7%), *Casuarina cristata* (7%), *Citrus glauca* (1, 7%), *Croton insularis* (7%), *Cymbidium canaliculatum* (1, 7%), *Denhamia oleaster* (5, 7%), *Dodonaea viscosa* (5, 7%), *Dodonaea viscosa* subsp. *spatulata* (7%), *Eremophila deserti* (7%), *Erythroxylum australe* (7%), *Harrisia martinii*\* (7%), *Jasminum didymum* subsp. *lineare* (7%), *Lysiphyllum carronii* (5, 7%), *Marsdenia viridiflora* (7%), *Psydrax attenuata* (7%), *Psydrax forsteri* (7%)

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### Stratum: Shrub 2

Height avg. = 1.7m, range 1-2m, 3 sites

Crown cover avg. = 15.7%, range 5.0-30.0%, 4 sites

Frequent species (cover, frequency): *Eremophila mitchellii* (5, 13%), *Geijera parviflora* (12, 13%), *Acacia harpophylla* (7%), *Alectryon diversifolius* (7%), *Capparis lasiantha* (1, 7%), *Carissa ovata* (5, 7%), *Cassia brewsteri* (1, 7%), *Diospyros humilis* (1, 7%), *Ehretia membranifolia* (1, 7%), *Eremophila deserti* (5, 7%), *Jasminum didymum* subsp. *lineare* (1, 7%), *Myoporum indet.* (9, 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

**Stratum: Ground**

Height avg. = 0.6m, range 0.4-1m, 10 sites

PFC avg. = 47.0%, range 10-90%, 10 sites

*Dominant species (relative cover, frequency):* *Chloris ventricosa* (20, 30%), *Enteropogon ramosus* (20, 50%), *Sporobolus scabridus* (18, 40%), *Paspalidium caespitosum* (11, 30%), *Trianthema triquetra* (9, 30%)

*Frequent species (cover, frequency):* GRAMINOIDS: *Sporobolus caroli* (2, 60%), *Cenchrus ciliaris*\* (3, 50%), *Enteropogon acicularis* (2, 50%), *Enteropogon ramosus* (9, 50%), *Cyperus gracilis* (1, 40%), *Eragrostis lacunaria* (2, 40%), *Sporobolus scabridus* (9, 40%), *Aristida personata* (30%), *Chloris ventricosa* (5, 30%), *Dactyloctenium radulans* (2, 30%), *Enneapogon lindleyanus* (1, 30%), *Paspalidium caespitosum* (2, 30%), *Ancistrachne uncinulata* (4, 20%), *Aristida indet.* (3, 20%), *Aristida jerichoensis* (20%), *Astrebla squarrosa* (5, 20%), *Cymbopogon refractus* (5, 20%), *Cyperus indet.* (1, 20%), *Eriochloa pseudoacrotricha* (20%), *Fimbristylis dichotoma* (20%), *Heteropogon contortus* (20%), *Melinis repens*\* (20%), *Panicum effusum* (1, 20%), *Paspalidium constrictum* (15, 20%), *Paspalidium distans* (6, 20%), *Aristida acuta* (20, 10%), *Aristida holathera* var. *holathera* (10%), *Aristida latifolia* (10%), *Aristida ramosa* (10%), *Bothriochloa decipiens* var. *decipiens* (1, 10%), *Bothriochloa ewartiana* (10%), *Chloris inflata*\* (1, 10%), *Chloris lobata* (10%), *Chloris truncata* (10, 10%), *Cyperus bowmannii* (10%), *Cyperus fulvus* (10%), *Cyperus perangustus* (10%), *Digitaria brownii* (10%), *Dinebra decipiens* (10%), *Enneapogon polyphyllus* (10%), *Enneapogon purpurascens* (10%), *Enneapogon virens* (10%), *Enteropogon unispiceus* (10%), *Eragrostis indet.* (10%), *Eragrostis sororia* (10%), *Eriochloa indet.* (10%), *Iseilema membranaceum* (4, 10%), *Megathyrus maximus* var. *pubiglumis*\* (10, 10%), *Panicum queenslandicum* (10%), *Paspalidium gracile* (10%), *Paspalidium indet.* (15, 10%), *Paspalidium jubiflorum* (2, 10%), *Paspalidium scabrifolium* (1, 10%), *Setaria dielsii* (10%), *Sporobolus australasicus* (10%), *Sporobolus contiguus* (6, 10%), *Sporobolus coromandelianus*\* (10%), *Tragus australianus* (10%), *Walwhalleya subxerophila* (10, 10%)

FORBS: *Enchylaena tomentosa* (70%), *Capparis lasiantha* (60%), *Abutilon oxycarpum* (50%), *Parsonsia lanceolata* (40%), *Salsola australis* (40%), *Achyranthes aspera* (30%), *Carissa ovata* (4, 30%), *Clematicissus opaca* (30%), *Harrisia martinii*\* (30%), *Melhantha oblongifolia* (30%), *Nyssanthes erecta* (30%), *Portulaca oleracea*\* (1, 30%), *Sida indet.* (30%), *Trianthema triquetra* (3, 30%), *Atriplex muelleri* (20%), *Capparis indet.* (20%), *Hibiscus indet.* (20%), *Jasminum didymum* subsp. *racemosum* (20%), *Opuntia stricta*\* (20%), *Parsonsia straminea* (20%), *Sclerolaena tetracuspis* (20%), *Streptoglossa adscendens* (20%), *Abutilon oxycarpum* var. *subsagittatum* (1, 10%), *Acacia decora* (10%), *Alectryon oleifolius* subsp. *elongatus* (10%), *Alternanthera denticulata* var. *micrantha* (10%), *Alternanthera nana* (10%), *Boerhavia dominii* (10%), *Boerhavia indet.* (10%), *Boerhavia paludosa* (1, 10%), *Boerhavia* sp. (St George A.Hill AQ399299) (10%), *Brunoniella australis* (10%), *Bursaria incana* (10%), *Cheilanthes distans* (2, 10%), *Chenopodium hubbardii* (10%), *Cleome viscosa* (10%), *Commelina ensifolia* (10%), *Commelina indet.* (10%), *Cynanchum viminale* subsp. *brunonianum* (10%), *Desmodium campylocaulon* (10%), *Dodonaea viscosa* (10%), *Einadia nutans* (10%), *Einadia nutans* subsp. *nutans* (1, 10%), *Erythroxylum australe* (10%), *Eustrephus latifolius* (10%), *Evolvulus alsinoides* (10%), *Glycine tabacina* (10%), *Gomphrena celosioides*\* (10%), *Gomphrena indet.* (10%), *Hibiscus meraukensis* (10%), *Jacquemontia paniculata* (10%), *Jacquemontia paniculata* var. *tomentosa* (10%), *Jasminum didymum* (10%), *Maireana indet.* (1, 10%), *Malvaceae indet.* (10%), *Malvastrum americanum* (10%), *Marsdenia viridiflora* (10%), *Marsdenia viridiflora* subsp. *viridiflora* (10%), *Parsonsia eucalyptophylla* (1, 10%), *Phyllanthus indet.* (10%), *Phyllanthus virgatus* (10%), *Pluchea dentex* (5, 10%), *Polygala triflora* (10%), *Portulaca australis* (10%), *Portulaca indet.* (1, 10%), *Portulaca pilosa*\* (10%), *Ruellia tuberosa*\* (1, 10%), *Sclerolaena convexula* (10%), *Senna artemisioides* (10%), *Sesbania cannabina* (10%), *Sida everistiana* (10%), *Sida fibulifera* (10%), *Sida hackettiana* (10%), *Sida trichopoda* (10%), *Solanum elaeagnifolium* (10%), *Spermacoce brachystema* (10%), *Stylosanthes scabra*\* (10%), *Terminalia oblongata* subsp. *oblongata* (10%), *Waltheria indica* (10%), *Zornia indet.* (10%)

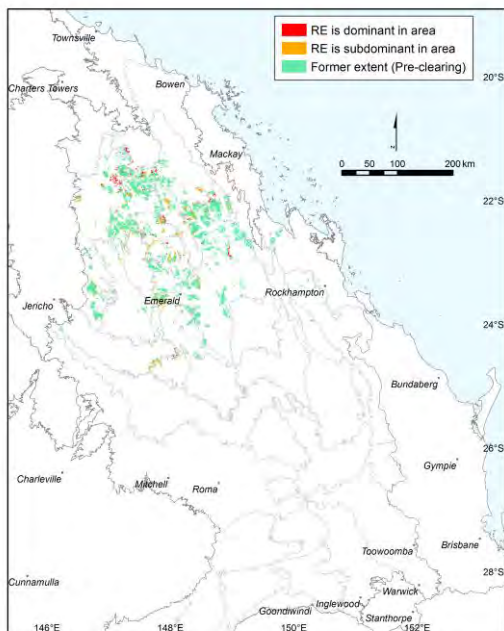
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**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with 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 harpophylla shrubby woodland with Terminalia oblongata on Cainozoic clay plains



Andrew Franks

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 755,307 80,562 11%

Species\_recorded: Total: 150; woody: 34; ground: 123; Avg. spp./site: 29.4; std dev.: 8.5, 9 site(s)

Basal area: Avg./site: 9.4 m<sup>2</sup>/ha, range: 4.0 - 20 m<sup>2</sup>/ha, std. deviation: 5 m<sup>2</sup>/ha, 10 site(s)

Structural formation: Woodland: 40%; open-woodland: 30%; low open-woodland: 30%, 10 site(s)

Representative\_sites 17037, 17041, 19149, 19156, 19176, 19181, 19262, 19271, 32328, 32330.

**Stratum: Tree 1**

Height avg. = 8.9m, range 7-11m, 10 sites

Crown cover avg. = 21.5%, range 8.0-42.0%, 10 sites

Dominant species (relative cover, frequency): *Acacia harpophylla* (79, 100%), *Acacia cambagei* (39, 40%), *Eucalyptus thozetiana* (12, 30%)

Frequent species (cover, frequency): *Enteropogon ramosus* (10%), *Acacia harpophylla* (14, 100%), *Acacia cambagei* (7, 40%), *Eucalyptus thozetiana* (5, 30%), *Amyema quandang* var. *quandang* (1, 10%), *Eucalyptus crebra* (10%), *Lysiphyllum carronii* (3, 10%)

**Stratum: Tree 2**

Height avg. = 5.4m, range 4.5-6m, 4 sites

Crown cover avg. = 9.8%, range 6.0-13.0%, 4 sites

Dominant species (relative cover, frequency): *Acacia harpophylla* (68, 30%)

Frequent species (cover, frequency): *Acacia harpophylla* (7, 30%), *Acacia cambagei* (3, 20%), *Santalum lanceolatum* (2, 20%), *Amyema quandang* var. *quandang* (2, 10%), *Eremophila mitchellii* (5, 10%), *Eucalyptus thozetiana* (3, 10%), *Terminalia oblongata* subsp. *oblongata* (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. = 1.3m, range 0.5-2m, 10 sites

Crown cover avg. = 6.5%, range 1.0-17.0%, 10 sites

Dominant species (relative cover, frequency): *Acacia harpophylla* (59, 60%), *Eremophila mitchellii* (35, 50%), *Carissa ovata* (27, 50%), *Santalum lanceolatum* (13, 40%), *Terminalia oblongata subsp. oblongata* (8, 50%)

Frequent species (cover, frequency): *Acacia harpophylla* (6, 60%), *Carissa ovata* (2, 50%), *Eremophila mitchellii* (1, 50%), *Terminalia oblongata subsp. oblongata* (1, 50%), *Santalum lanceolatum* (1, 40%), *Alectryon diversifolius* (30%), *Acacia cambagei* (1, 20%), *Amyema quandang var. quandang* (2, 20%), *Apophyllum anomalum* (20%), *Cynanchum viminale subsp. brunonianum* (20%), *Ehretia membranifolia* (20%), *Enchylaena tomentosa* (1, 20%), *Flindersia dissosperma* (20%), *Acacia rhodoxylon* (10%), *Alphitonia excelsa* (4, 10%), *Atalaya hemiglauca* (1, 10%), *Brachychiton rupestris* (1, 10%), *Breynia oblongifolia* (10%), *Capparis indet.* (10%), *Casuarina cristata* (1, 10%), *Citrus glauca* (10%), *Cryptostegia grandiflora\** (10%), *Eremophila deserti* (10%), *Erythroxylum australe* (1, 10%), *Eucalyptus crebra* (10%), *Eucalyptus thozetiana* (1, 10%), *Flindersia australis* (10%), *Geijera parviflora* (1, 10%), *Grevillea parallela* (10%), *Melaleuca tamariscina* (10%), *Opuntia tomentosa\** (1, 10%), *Sesbania cannabina* (10%)

**Stratum: Ground**

Height avg. = 0.5m, range 0.3-1m, 9 sites

PFC avg. = 42.8%, range 25-80%, 9 sites

Dominant species (relative cover, frequency): *Paspalidium caespitosum* (31, 44%), *Cenchrus ciliaris\** (17, 56%), *Enteropogon ramosus* (15, 22%), *Parthenium hysterophorus\** (15, 33%), *Panicum decompositum* (15, 22%)

Frequent species (cover, frequency): GRAMINOIDS: *Sporobolus scabridus* (1, 67%), *Cenchrus ciliaris\** (9, 56%), *Astrebula squarrosa* (44%), *Enteropogon acicularis* (2, 44%), *Paspalidium caespitosum* (10, 44%), *Paspalidium distans* (44%), *Sporobolus caroli* (1, 44%), *Cyperus indet.* (6, 33%), *Dactyloctenium radulans* (33%), *Enneapogon lindleyanus* (1, 33%), *Aristida indet.* (1, 22%), *Dinebra decipiens var. decipiens* (3, 22%), *Dinebra ligulata* (1, 22%), *Enteropogon ramosus* (1, 22%), *Eragrostis tenellula* (2, 22%), *Eriochloa pseudoacrotricha* (1, 22%), *Panicum decompositum* (8, 22%), *Aristida gracilipes* (11%), *Aristida personata* (2, 11%), *Bothriochloa decipiens var. decipiens* (11%), *Brachyachne convergens* (4, 11%), *Cleistochloa subjuncea* (11%), *Cymbopogon refractus* (11%), *Cyperus alterniflorus* (11%), *Cyperus compressus\** (11%), *Cyperus fulvus* (11%), *Cyperus gracilis* (11%), *Digitaria indet.* (2, 11%), *Digitaria parviflora* (11%), *Elytrophorus spicatus* (1, 11%), *Eragrostis brownii* (11%), *Eriochloa indet.* (11%), *Fimbristylis dichotoma* (11%), *Iseilema fragile* (11%), *Iseilema membranaceum* (11%), *Iseilema vaginiflorum* (11%), *Leptochloa digitata* (11%), *Panicum queenslandicum* (11%), *Paspalidium indet.* (3, 11%), *Paspalidium rarum* (3, 11%), *Sporobolus disjunctus* (1, 11%), *Sporobolus indet.* (11%), *Sporobolus partimpatens* (11%), *Tragus australianus* (11%)

FORBS: *Enchylaena tomentosa* (5, 78%), *Portulaca oleracea\** (67%), *Trianthema triquetra* (1, 67%), *Abutilon oxycarpum* (1, 44%), *Capparis lasiantha* (1, 44%), *Salsola australis* (1, 44%), *Streptoglossa adscendens* (1, 44%), *Cynanchum viminale subsp. brunonianum* (33%), *Malvastrum americanum var. americanum\** (7, 33%), *Parthenium hysterophorus\** (5, 33%), *Achyranthes aspera* (22%), *Alternanthera nana* (22%), *Boerhavia sp. (St George A.Hill AQ399299)* (1, 22%), *Cucumis melo* (22%), *Gomphrena celosoides\** (22%), *Hibiscus meraukensis* (22%), *Marsilea indet.* (22%), *Melhania oblongifolia* (22%), *Opuntia aurantiaca\** (1, 22%), *Parsonia lanceolata* (22%), *Rostellularia adscendens* (22%), *Sclerolaena tetracuspis* (2, 22%), *Sesbania cannabina* (1, 22%), *Sida fibulifera* (22%), *Sida sp. (Musselbrook M.B.Thomas+ MRS437)* (22%), *Sida trichopoda* (1, 22%), *Abutilon indet.* (11%), *Alternanthera denticulata var. micrantha* (11%), *Amyema quandang* (11%), *Atriplex muelleri* (11%), *Basilicum polystachyon* (11%), *Calandrinia pickeringii* (11%), *Carissa ovata* (11%), *Centipeda minima subsp. minima* (11%), *Cheilanthes distans* (11%), *Cheilanthes sieberi* (11%), *Chenopodium desertorum subsp. anidiophyllum* (11%), *Chenopodium murale\** (1, 11%), *Clematicissus opaca* (3, 11%), *Commelina indet.* (1, 11%), *Commelina lanceolata* (1, 11%), *Convolvulaceae indet.* (11%), *Corchorus aestuans* (11%), *Crinum flaccidum* (11%), *Cryptostegia grandiflora\** (11%), *Datura leichhardtii\** (11%), *Einadia indet.* (11%), *Einadia nutans subsp. nutans* (11%), *Euphorbia indet.* (11%), *Gomphrena indet.* (11%), *Harrisia martinii\** (1, 11%), *Jacquemontia paniculata* (11%), *Maireana indet.* (11%), *Malvaceae indet.* (11%), *Marsdenia viridiflora subsp. viridiflora* (11%), *Melochia pyramidata\** (11%), *Murdannia indet.* (11%), *Nyssanthes erecta* (11%), *Plectranthus parviflorus* (11%), *Plumbago zeylanica* (11%), *Portulaca australis* (11%), *Portulaca pilosa\** (11%), *Psydrax attenuata* (11%), *Ruellia tuberosa\** (11%), *Santalum lanceolatum* (3, 11%), *Scoparia dulcis\** (11%), *Sida corrugata* (11%), *Sida indet.* (11%), *Sida rohlenae* (11%), *Tetragonia tetragonoides* (11%), *Tribulus micrococcus* (11%), *Tribulus terrestris* (4, 11%)

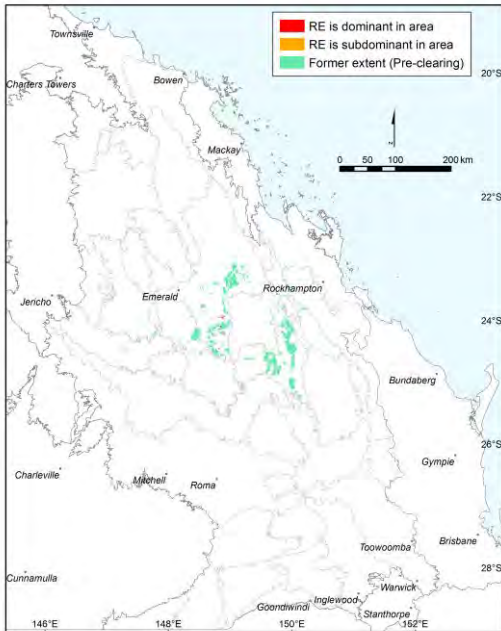
Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive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



**Acacia harpophylla, Lysiphyllum carronii +/- Casuarina cristata open forest to woodland**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 217,706 6,529 3%

Species\_recorded: Total: 88; woody: 15; ground: 77; Avg. spp./site: 40.0; std dev.: 0.0, 2 site(s)

Basal area: Avg./site: 15.0 m<sup>2</sup>/ha, range: 7.5 - 26 m<sup>2</sup>/ha, std. deviation: 8 m<sup>2</sup>/ha, 3 site(s)

Structural formation: Open-forest: 67%; woodland: 33%, 3 site(s)

Representative\_sites 16965, 16983, 17228.

**Stratum: Tree 1**

Height avg. = 14.3m, range 11-20m, 3 sites

Crown cover avg. = 58.3%, range 30.0-86.0%, 3 sites

Dominant species (relative cover, frequency): *Acacia harpophylla* (61, 100%), *Lysiphyllum carronii* (50, 67%), *Brachychiton rupestris* (10, 33%), *Eucalyptus populnea* (5, 33%)

Frequent species (cover, frequency): *Acacia harpophylla* (33, 100%), *Lysiphyllum carronii* (34, 67%), *Brachychiton rupestris* (6, 33%), *Eucalyptus populnea* (3, 33%)

**Stratum: Tree 2**

Height avg. = 7.0m, range 6-8m, 3 sites

Crown cover avg. = 33.3%, range 10.0-60.0%, 3 sites

Dominant species (relative cover, frequency): *Geijera parviflora* (45, 67%), *Eremophila mitchellii* (41, 67%), *Lysiphyllum carronii* (34, 67%), *Terminalia oblongata subsp. oblongata* (30, 33%), *Acacia harpophylla* (30, 33%)

Frequent species (cover, frequency): *Eremophila mitchellii* (8, 67%), *Geijera parviflora* (15, 67%), *Lysiphyllum carronii* (10, 67%), *Acacia harpophylla* (18, 33%), *Terminalia oblongata subsp. oblongata* (18, 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 1.5-3m, 3 sites

Crown cover avg. = 30.0%, range 10.0-50.0%, 3 sites

Dominant species (relative cover, frequency): *Acacia harpophylla* (96, 33%), *Eremophila mitchellii* (40, 33%), *Carissa ovata* (33, 33%), *Geijera parviflora* (31, 100%), *Pittosporum spinescens* (17, 33%)

Frequent species (cover, frequency): *Geijera parviflora* (13, 100%), *Acacia harpophylla* (10, 33%), *Acacia salicina* (33%), *Alectryon diversifolius* (5, 33%), *Carissa ovata* (10, 33%), *Diospyros humilis* (33%), *Drypetes deplanchei* (33%), *Eremophila mitchellii* (20, 33%), *Eucalyptus populnea* (33%), *Exocarpos latifolius* (33%), *Lysiphillum carronii* (33%), *Owenia acidula* (33%), *Pittosporum spinescens* (5, 33%), *Terminalia oblongata subsp. oblongata* (33%)

**Stratum: Ground**

Height avg. = 0.5m, range 0.2-0.7m, 2 sites

PFC avg. = 25.0%, range 20-30%, 2 sites

Dominant species (relative cover, frequency): *Panicum effusum* (37, 50%), *Chloris divaricata* (35, 50%), *Aristida calycina* (26, 50%), *Panicum decompositum* (11, 50%), *Cenchrus ciliaris\** (10, 100%)

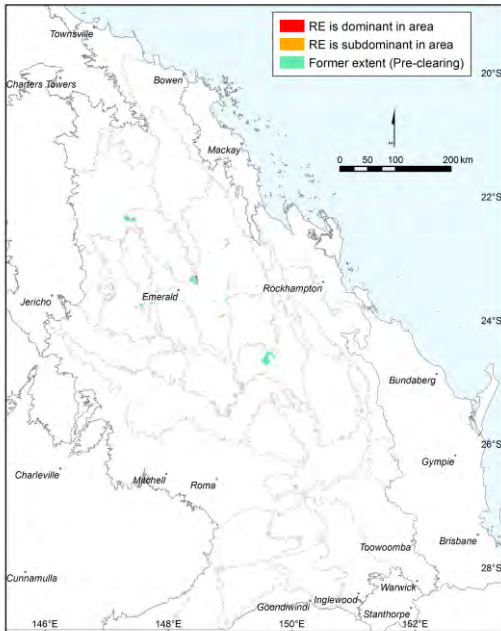
Frequent species (cover, frequency): GRAMINOIDS: *Cenchrus ciliaris\** (5, 100%), *Ancistrachne indet.* (1, 50%), *Aristida calycina* (6, 50%), *Aristida leptopoda* (50%), *Chloris divaricata* (8, 50%), *Cyperus bifax* (50%), *Dichanthium sericeum* (50%), *Echinochloa colona\** (50%), *Enneapogon indet.* (50%), *Enneapogon lindleyanus* (50%), *Eragrostis brownii* (50%), *Eriochloa pseudoacrotricha* (3, 50%), *Panicum decompositum* (6, 50%), *Panicum effusum* (20, 50%), *Paspalidium caespitosum* (50%), *Paspalidium distans* (1, 50%), *Paspalidium indet.* (50%), *Sporobolus caroli* (50%), *Sporobolus indet.* (50%), *Tragus indet.* (50%)  
 FORBS: *Einadia hastata* (1, 100%), *Malvastrum americanum var. americanum\** (2, 100%), *Abutilon indet.* (50%), *Abutilon oxycarpum* (1, 50%), *Acanthus indet.* (50%), *Alectryon diversifolius* (50%), *Amaranthaceae indet.* (50%), *Amaranthus indet.* (50%), *Amyema quandang* (50%), *Bidens pilosa\** (2, 50%), *Boerhavia paludosa* (1, 50%), *Brachychiton rupestris* (50%), *Brunonia australis* (50%), *Calotis cuneata* (3, 50%), *Capparis indet.* (50%), *Carissa ovata* (50%), *Casuarina cristata* (50%), *Chenopodiaceae indet.* (50%), *Chenopodium indet.* (50%), *Commelina diffusa* (50%), *Coreopsis indet.* (50%), *Dendrophthoe vitellina* (50%), *Denhamia bilocularis* (50%), *Denhamia oleaster* (50%), *Enchylaena tomentosa* (50%), *Geijera salicifolia* (50%), *Herissantia crispa* (50%), *Hibiscus divaricatus* (50%), *Ipomoea cairica\** (50%), *Jasminum didymum* (50%), *Neptunia gracilis* (50%), *Parsonsia indet.* (50%), *Parsonsia straminea* (50%), *Peripleura hispidula var. hispidula* (50%), *Phyllanthus maderaspatensis* (50%), *Portulaca indet.* (50%), *Salvia reflexa\** (50%), *Santalum lanceolatum* (50%), *Sclerolaena indet.* (50%), *Sida cordifolia\** (4, 50%), *Symphytichum subulatum\** (50%), *Terminalia oblongata subsp. oblongata* (50%), *Ventilago viminalis* (50%), *Verbena indet.* (50%), *Verbesina encelioides\** (50%), *Vittadinia 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

Acacia harpophylla, Eucalyptus cambageana open forest to woodland



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 27,667 4,409 16%

Species\_recorded: Total: 17; woody: 4; ground: 13; Average species per site and standard deviation not available

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 16913.

**Stratum: Emergent**

Height avg. = 16.0m, 1 site

Crown cover avg. = 5.0%, 1 site

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

Frequent species (cover, frequency): *Eucalyptus thozetiana* (5, 100%)

**Stratum: Tree 1**

Height avg. = 12.0m, 1 site

Crown cover avg. = 30.0%, 1 site

Dominant species (relative cover, frequency): *Acacia harpophylla* (100, 100%)

Frequent species (cover, frequency): *Acacia harpophylla* (30, 100%)

**Stratum: Shrub 1**

Height avg. = 3.0m, 1 site

Crown cover avg. = 15.0%, 1 site

Dominant species (relative cover, frequency): *Eremophila mitchellii* (93, 100%), *Acacia harpophylla* (7, 100%), *Brachychiton rupestris* (1, 100%)

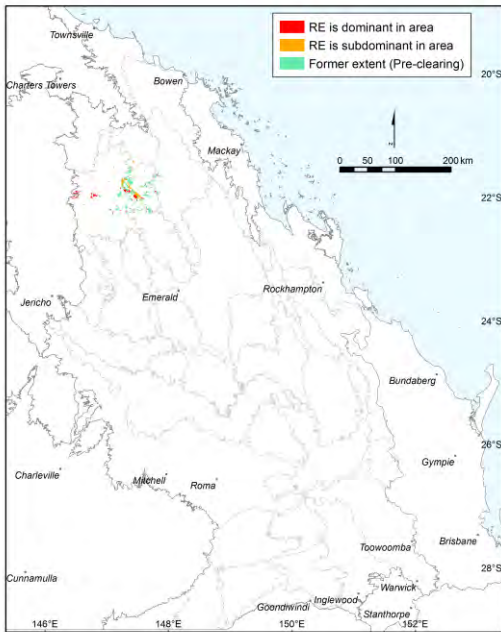
Frequent species (cover, frequency): *Acacia harpophylla* (1, 100%), *Brachychiton rupestris* (100%), *Eremophila mitchellii* (14, 100%)

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

**Dichanthium sericeum and Astrebla spp. grassland with patchy Acacia harpophylla or Eucalyptus coolabah on Cainozoic clay plains**



**Pre-clearing area (ha), remnant area (ha) and per cent remaining: 74,317 23,741 32%**

**Species\_recorded: Total: 51; woody: 7; ground: 44; Avg. spp./site: 28.0; std dev.: 15.0, 2 site(s)**

**Basal area: Avg./site: 3.5 m<sup>2</sup>/ha, range: 3.0 - 4 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 17022, 19173.**

**Stratum: Tree 1**

**Height avg. = 15.5m, range 11-20m, 2 sites**

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

*Dominant species (relative cover, frequency): Eucalyptus coolabah (75, 100%), Acacia harpophylla (50, 50%)*

*Frequent species (cover, frequency): Eucalyptus coolabah (5, 100%), Acacia harpophylla (5, 50%)*

**Stratum: Tree 2**

**Height avg. = 9.0m, 1 site**

**Crown cover avg. = 5.0%, 1 site**

*Dominant species (relative cover, frequency): Lysiphyllum carronii (100, 50%)*

*Frequent species (cover, frequency): Lysiphyllum carronii (1, 50%)*

**Stratum: Shrub 1**

**Height avg. = 1.0m, range 1-1m, 2 sites**

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

*Dominant species (relative cover, frequency): Eucalyptus coolabah (80, 50%), Psydrax johnsonii (33, 50%), Carissa ovata (33, 50%), Capparis shanesiana (33, 50%), Eremophila maculata subsp. maculata (20, 50%)*

*Frequent species (cover, frequency): Capparis shanesiana (50%), Carissa ovata (50%), Eremophila maculata subsp. maculata (50%), Eucalyptus coolabah (1, 50%), Psydrax johnsonii (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: Ground**

Height avg. = 0.5m, range 0.4-0.6m, 2 sites

PFC avg. = 19.0%, range 8-30%, 2 sites

*Dominant species (relative cover, frequency):* *Astrelba squarrosa* (41, 100%), *Cynodon dactylon*\* (14, 50%), *Bothriochloa decipiens* (13, 50%), *Panicum laevinode* (13, 50%), *Sclerolaena tetracuspis* (7, 50%)

*Frequent species (cover, frequency): GRAMINOIDS:* *Astrelba squarrosa* (5, 100%), *Sporobolus caroli* (1, 100%), *Bothriochloa decipiens* (5, 50%), *Cenchrus ciliaris*\* (1, 50%), *Chloris divaricata* (2, 50%), *Chloris pectinata* (50%), *Cynodon dactylon*\* (1, 50%), *Cyperus gilesii* (1, 50%), *Dactyloctenium radulans* (50%), *Iseilema vaginiflorum* (50%), *Panicum laevinode* (5, 50%), *Paspalidium caespitosum* (2, 50%), *Sporobolus sessilis* (50%)

*FORBS:* *Desmodium campylocaulon* (100%), *Sida trichopoda* (1, 100%), *Abutilon malvifolium* (50%), *Alternanthera denticulata* var. *micrantha* (50%), *Alternanthera nodiflora* (50%), *Atriplex muelleri* (50%), *Calostemma luteum* (50%), *Calotis cuneata* (2, 50%), *Capparis lasiantha* (50%), *Commelina ensifolia* (50%), *Crinum flaccidum* (50%), *Crotalaria dissitiflora* subsp. *dissitiflora* (50%), *Cymbidium canaliculatum* (50%), *Dipteracanthus australasicus* subsp. *corynothecus* (1, 50%), *Dissocarpus biflorus* (1, 50%), *Einadia nutans* subsp. *linifolia* (50%), *Enchylaena tomentosa* (2, 50%), *Ipomoea plebeia* (50%), *Malvastrum americanum* (1, 50%), *Neobassia proceriflora* (1, 50%), *Neptunia gracilis* (50%), *Parthenium hysterophorus*\* (2, 50%), *Polymeria marginata* (50%), *Portulaca oleracea*\* (50%), *Rhynchosia minima* (50%), *Salsola australis* (2, 50%), *Sclerolaena indet.* (50%), *Sclerolaena tetracuspis* (1, 50%), *Sesbania cannabina* (50%), *Swainsona campylantha* (50%), *Trianthema triquetra* (50%)

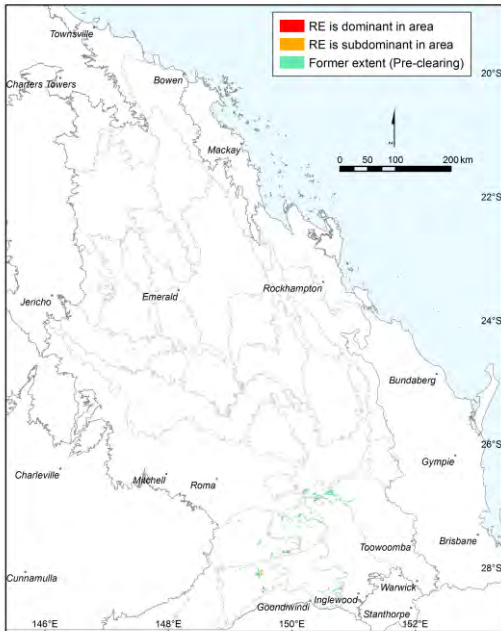
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**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with 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 woodland on Cainozoic clay plains**



Bill McDonald

**Pre-clearing area (ha), remnant area (ha) and per cent remaining:** 66,185      6,938      10%

**Species recorded:** Total: 98; woody: 19; ground: 84; Avg. spp./site: 43.7; std dev.: 9.0, 3 site(s)

**Basal area:** Avg./site: 10.3 m<sup>2</sup>/ha, range: 8.0 - 12 m<sup>2</sup>/ha, std. deviation: 2 m<sup>2</sup>/ha, 3 site(s)

**Structural formation:** Open-woodland: 67%; woodland: 33%, 3 site(s)

**Representative sites** 16716, 16745, 16939.

**Stratum: Tree 1**

**Height avg. = 16.3m, range 15-18m, 3 sites**  
**Crown cover avg. = 23.0%, range 16.0-35.0%, 3 sites**

*Dominant species (relative cover, frequency): Eucalyptus populnea (95, 100%), Casuarina cristata (7, 67%), Cymbidium canaliculatum (1, 33%)*

*Frequent species (cover, frequency): Eucalyptus populnea (21, 100%), Casuarina cristata (3, 67%), Cymbidium canaliculatum (33%)*

**Stratum: Tree 2**

**Height avg. = 7.3m, range 4-12m, 3 sites**  
**Crown cover avg. = 6.7%, range 2.0-10.0%, 3 sites**

*Dominant species (relative cover, frequency): Eremophila mitchellii (54, 67%), Eucalyptus populnea (43, 100%), Casuarina cristata (33, 33%), Acacia harpophylla (30, 33%), Alectryon oleifolius subsp. elongatus (, 33%)*

*Frequent species (cover, frequency): Eucalyptus populnea (3, 100%), Eremophila mitchellii (4, 67%), Acacia harpophylla (3, 33%), Alectryon oleifolius subsp. elongatus (33%), Casuarina cristata (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. = 3.6m, range 1.8-7m, 3 sites

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

Dominant species (relative cover, frequency): *Eremophila mitchellii* (62, 100%), *Citrus glauca* (18, 33%), *Geijera parviflora* (18, 67%), *Myoporum acuminatum* (9, 33%), *Eucalyptus populnea* (9, 33%)

Frequent species (cover, frequency): *Eremophila mitchellii* (4, 100%), *Ehretia membranifolia* (67%), *Geijera parviflora* (2, 67%), *Opuntia tomentosa*\* (1, 67%), *Acacia excelsa* (33%), *Capparis lasiantha* (33%), *Capparis mitchellii* (1, 33%), *Casuarina cristata* (1, 33%), *Citrus glauca* (2, 33%), *Enchylaena tomentosa* (33%), *Eucalyptus populnea* (1, 33%), *Exocarpos aphyllus* (33%), *Myoporum acuminatum* (1, 33%), *Myoporum indet.* (33%), *Santalum lanceolatum* (33%)

**Stratum: Shrub 2**

Height avg. = 1.0m, 1 site

Crown cover avg. = 5.0%, 1 site

Dominant species (relative cover, frequency): *Eremophila mitchellii* (58, 33%), *Eremophila deserti* (38, 33%), *Ehretia membranifolia* (2, 33%), *Citrus glauca* (2, 33%)

Frequent species (cover, frequency): *Citrus glauca* (33%), *Ehretia membranifolia* (33%), *Eremophila deserti* (2, 33%), *Eremophila mitchellii* (3, 33%)

**Stratum: Ground**

Height avg. = 0.7m, range 0.6-0.8m, 3 sites

PFC avg. = 51.7%, range 30-85%, 3 sites

Dominant species (relative cover, frequency): *Aristida vagans* (31, 33%), *Bothriochloa decipiens* (31, 100%), *Enneapogon indet.* (19, 33%), *Chloris divaricata* (18, 67%), *Cymbopogon refractus* (14, 67%)

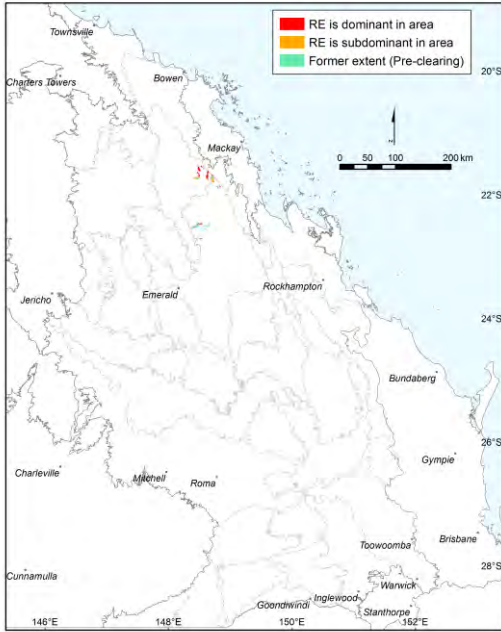
Frequent species (cover, frequency): GRAMINOIDS: *Bothriochloa decipiens* (12, 100%), *Cyperus gracilis* (100%), *Enteropogon acicularis* (1, 100%), *Panicum effusum* (1, 100%), *Paspalidium caespitosum* (100%), *Sporobolus caroli* (100%), *Chloris divaricata* (15, 67%), *Chloris ventricosa* (67%), *Chrysopogon fallax* (67%), *Cymbopogon refractus* (15, 67%), *Eragrostis lacunaria* (2, 67%), *Eulalia aurea* (1, 67%), *Ancistrachne uncinulata* (33%), *Aristida calycina* (5, 33%), *Aristida caput-medusae* (1, 33%), *Aristida ramosa* (2, 33%), *Aristida vagans* (5, 33%), *Austrostipa verticillata* (2, 33%), *Bulbostylis barbata* (33%), *Chloris gayana*\* (33%), *Cymbopogon indet.* (33%), *Cyperus betchei* (33%), *Dichanthium sericeum subsp. sericeum* (33%), *Digitaria brownii* (33%), *Dinebra decipiens var. peacockii* (33%), *Enneapogon indet.* (20, 33%), *Enteropogon ramosus* (33%), *Eragrostis alveiformis* (33%), *Eragrostis elongata* (2, 33%), *Eragrostis parviflora* (1, 33%), *Eriochloa pseudoacrotricha* (33%), *Fimbristylis dichotoma* (33%), *Panicum decompositum* (33%), *Panicum queenslandicum var. queenslandicum* (33%), *Paspalidium distans* (1, 33%), *Sporobolus scabridus* (33%), *Tripogon loliiformis* (33%)  
 FORBS: *Abutilon oxycarpum* (67%), *Brunoniella australis* (67%), *Euphorbia indet.* (67%), *Nyssanthes erecta* (67%), *Pimelea neoanglica* (67%), *Pseuderanthemum variabile* (67%), *Alternanthera denticulata* (33%), *Alternanthera nana* (33%), *Alternanthera nodiflora* (33%), *Bidens pilosa*\* (33%), *Blumea indet.* (33%), *Boerhavia dominii* (33%), *Boerhavia indet.* (33%), *Brachyscome dalbyensis* (33%), *Bryophyllum delagoense*\* (5, 33%), *Bryophyllum indet.* (33%), *Citrus glauca* (33%), *Commelina lanceolata* (1, 33%), *Desmodium varians* (33%), *Dianella revoluta* (33%), *Dichondra repens* (33%), *Einadia nutans* (33%), *Enchylaena tomentosa* (33%), *Enchylaena tomentosa var. tomentosa* (33%), *Euphorbia dallachyana* (33%), *Evolvulus alsinoides* (33%), *Galactia tenuiflora* (33%), *Glycine tabacina* (33%), *Goodenia glabra* (33%), *Goodenia hederacea* (33%), *Hypoestes floribunda* (33%), *Jasminum didymum* (33%), *Lomandra multiflora subsp. multiflora* (33%), *Lycium indet.* (33%), *Marsdenia indet.* (33%), *Opuntia tomentosa*\* (33%), *Phyllanthus virgatus* (33%), *Portulaca oleracea*\* (33%), *Ptilotus macrocephalus* (33%), *Rhagodia spinescens* (33%), *Rostellularia adscendens* (33%), *Sida hackettiana* (33%), *Sida rhombifolia*\* (33%), *Sida trichopoda* (33%), *Solanum parvifolium* (33%), *Vigna lanceolata* (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 orgadophila open woodland on Cainozoic clay plains**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 22,960 11,520 50%

Species\_recorded: Total: 44; woody: 5; ground: 39; Avg. spp./site: 23.0; std dev.: 8.0, 2 site(s)

Basal area: Avg./site: 5.0 m<sup>2</sup>/ha, range: 5.0 - 5 m<sup>2</sup>/ha, std. deviation: 0 m<sup>2</sup>/ha, 1 site(s)

Structural formation: Woodland: 50%; tussock grassland: 50%, 2 site(s)

Representative\_sites 16880, 19244.

**Stratum: Tree 1**

Height avg. = 10.0m, 1 site

Crown cover avg. = 10.5%, range 1.0-20.0%, 2 sites

Dominant species (relative cover, frequency): *Eucalyptus orgadophila* (100, 50%), *Eucalyptus crebra* (90, 50%), *Corymbia erythrophloia* (10, 50%)

Frequent species (cover, frequency): *Corymbia erythrophloia* (2, 50%), *Eucalyptus crebra* (18, 50%), *Eucalyptus orgadophila* (50%)

**Stratum: Shrub 1**

Height avg. = 2.3m, range 2-2.5m, 2 sites

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

Dominant species (relative cover, frequency): *Atalaya hemiglauca* (75, 100%), *Vachellia farnesiana*\* (50, 50%)

Frequent species (cover, frequency): *Atalaya hemiglauca* (1, 100%), *Vachellia farnesiana*\* (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: Ground**

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

PFC avg. = 64.0%, range 60-68%, 2 sites

*Dominant species (relative cover, frequency): Iseilema vaginiflorum (51, 50%), Aristida leptopoda (42, 50%), Aristida latifolia (42, 50%), Themeda triandra (32, 50%), Enneapogon lindleyanus (7, 50%)*

*Frequent species (cover, frequency): GRAMINOIDS: Heteropogon contortus (4, 100%), Aristida latifolia (25, 50%), Aristida leptopoda (25, 50%), Astrebla elymoides (2, 50%), Bothriochloa ewartiana (50%), Digitaria divaricatissima (50%), Enneapogon lindleyanus (5, 50%), Enneapogon truncatus (2, 50%), Iseilema membranaceum (50%), Iseilema vaginiflorum (35, 50%), Panicum decompositum var. tenuius (50%), Panicum effusum (50%), Panicum queenslandicum var. queenslandicum (50%), Thellungia advena (50%), Themeda triandra (22, 50%)*

*FORBS: Capparis canescens (50%), Capparis lasiantha (50%), Commelina indet. (50%), Corchorus trilocularis (50%), Eryngium plantagineum (50%), Euphorbia bifida (50%), Euphorbia indet. (50%), Euphorbia mitchelliana (50%), Galactia tenuiflora (50%), Grewia retusifolia (50%), Indigofera linnaei (50%), Ipomoea indet. (50%), Malvastrum americanum var. americanum\* (50%), Malvastrum americanum var. stellatum (50%), Melhania oblongifolia (50%), Neptunia gracilis (50%), Parthenium hysterophorus\* (2, 50%), Pimelea haematostachya (50%), Rhynchosia minima (50%), Sclerolaena muricata var. muricata (50%), Sida indet. (50%), Sida rohlenae (50%), Sida spinosa\* (50%), Tephrosia filipes (50%)*

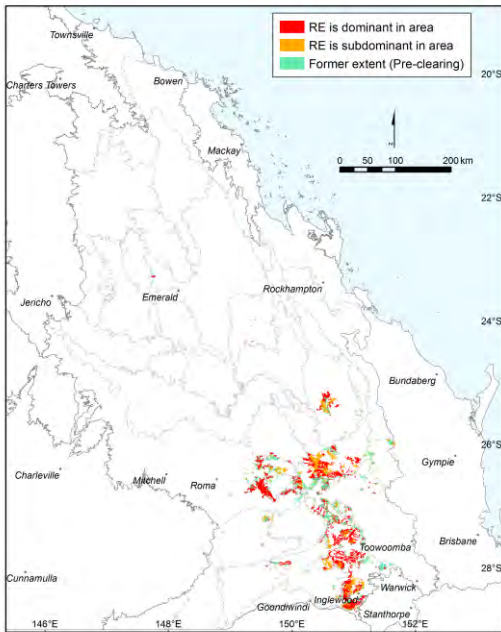
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Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 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 and/or E. populnea, Callitris glaucophylla, Angophora leiocarpa, Allocasuarina luehmannii woodland on Cainozoic sand plains and/or remnant surfaces**



David Jernyn

**Pre-clearing area (ha), remnant area (ha) and per cent remaining:** 623,606 421,942 68%

**Species\_recorded:** Total: 250; woody: 68; ground: 216; Avg. spp./site: 31.9; std dev.: 10.8, 16 site(s)

**Basal area:** Avg./site: 14.3 m<sup>2</sup>/ha, range: 6.5 - 27 m<sup>2</sup>/ha, std. deviation: 4 m<sup>2</sup>/ha, 19 site(s)

**Structural formation:** Woodland: 68%; open-woodland: 21%; open-forest: 11%, 19 site(s)

**Representative\_sites** 16583, 16584, 16646, 16655, 16657, 16672, 16711, 16726, 16815, 16951, 16963, 24568, 28749, 28752, 28900, 30741, 30744, 30818, 40989.

**Stratum: Tree 1**

**Height avg. = 21.1m, range 17-28m, 19 sites**  
**Crown cover avg. = 27.9%, range 7.9-75.0%, 19 sites**

*Dominant species (relative cover, frequency): Eucalyptus crebra (74, 79%), Angophora leiocarpa (52, 42%), Allocasuarina luehmannii (22, 26%), Callitris glaucophylla (21, 37%)*

*Frequent species (cover, frequency): Eucalyptus crebra (18, 79%), Angophora leiocarpa (14, 42%), Callitris glaucophylla (5, 37%), Allocasuarina luehmannii (11, 26%), Corymbia clarksoniana (11%), Eucalyptus tereticornis (2, 11%), Allocasuarina littoralis (1, 5%), Corymbia trachyphloia (5%), Eucalyptus populnea (5%), Eucalyptus woolliana (5, 5%)*

**Stratum: Tree 2**

**Height avg. = 10.4m, range 6.5-27m, 18 sites**  
**Crown cover avg. = 20.6%, range 2.0-44.0%, 18 sites**

*Dominant species (relative cover, frequency): Allocasuarina luehmannii (59, 63%), Callitris glaucophylla (40, 53%), Eucalyptus crebra (34, 58%), Angophora leiocarpa (25, 37%)*

*Frequent species (cover, frequency): Allocasuarina luehmannii (12, 63%), Eucalyptus crebra (6, 58%), Callitris glaucophylla (12, 53%), Angophora leiocarpa (4, 37%), Corymbia clarksoniana (11%), Eucalyptus chloroclada (2, 11%), Eucalyptus tereticornis (11%), Acacia crassa (8, 5%), Acacia crassa subsp. crassa (5%), Acacia neriifolia (5%), Allocasuarina littoralis (15, 5%), Corymbia dallachiana (5%), Eucalyptus populnea (2, 5%), Melaleuca decora (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: Tree 3**

Height avg. = 4.6m, range 2-7m, 6 sites

Crown cover avg. = 11.8%, range 5.0-20.0%, 6 sites

Dominant species (relative cover, frequency): *Callitris glaucophylla* (53, 21%), *Allocasuarina luehmannii* (16, 26%)

Frequent species (cover, frequency): *Allocasuarina luehmannii* (3, 26%), *Callitris glaucophylla* (6, 21%), *Eucalyptus crebra* (1, 16%), *Acacia neriifolia* (3, 11%), *Acacia caroleae* (14, 5%), *Acacia conferta* (1, 5%), *Acacia crassa* (2, 5%), *Acacia leiocalyx subsp. leiocalyx* (5, 5%), *Bursaria incana* (5%)

**Stratum: Shrub 1**

Height avg. = 2.8m, range 0.4-6.5m, 18 sites

Crown cover avg. = 9.2%, range 1.0-28.0%, 18 sites

Dominant species (relative cover, frequency): *Allocasuarina luehmannii* (33, 79%), *Callitris glaucophylla* (27, 42%), *Jacksonia scoparia* (20, 21%), *Acacia leiocalyx subsp. leiocalyx* (20, 37%), *Acacia conferta* (14, 32%)

Frequent species (cover, frequency): *Allocasuarina luehmannii* (4, 79%), *Callitris glaucophylla* (2, 42%), *Acacia leiocalyx subsp. leiocalyx* (1, 37%), *Acacia conferta* (1, 32%), *Jacksonia scoparia* (1, 21%), *Acacia semilunata* (3, 16%), *Eucalyptus crebra* (1, 16%), *Acacia crassa* (2, 11%), *Acacia ixiophylla* (3, 11%), *Acacia neriifolia* (2, 11%), *Denhamia cunninghamii* (11%), *Dodonaea triangularis* (11%), *Geijera parviflora* (2, 11%), *Myoporum acuminatum* (11%), *Notelaea microcarpa* (6, 11%), *Olearia elliptica* (11%), *Opuntia tomentosa\** (11%), *Petalostigma pubescens* (11%), *Acacia caroleae* (2, 5%), *Acacia crassa subsp. crassa* (2, 5%), *Acacia everistii* (5%), *Acacia polybotrya* (5%), *Alphitonia excelsa* (1, 5%), *Angophora leiocarpa* (1, 5%), *Asperula geminifolia* (1, 5%), *Capparis canescens* (5%), *Cassinia laevis* (5%), *Corymbia tessellaris* (5%), *Euphorbia indet.* (5%), *Exocarpos cupressiformis* (5%), *Glossocardia bidens* (5%), *Glycine clandestina var. clandestina* (5%), *Hakea lorea* (2, 5%), *Hibbertia indet.* (5%), *Homoranthus melanostictus* (11, 5%), *Hovea angustissima* (5%), *Leucopogon biflorus* (5%), *Leucopogon indet.* (3, 5%), *Leucopogon muticus* (5%), *Maireana microphylla* (5%), *Melaleuca decora* (7, 5%), *Melichrus adpressus* (7, 5%), *Melichrus urceolatus* (1, 5%), *Ozothamnus diosmifolius* (5%), *Parsonia eucalyptophylla* (5%), *Pittosporum angustifolium* (1, 5%), *Senna artemisioides subsp. zygophylla* (5%), *Solanum indet.* (5%), *Styphelia viridis* (5%)

**Stratum: Shrub 2**

Height avg. = 1.5m, range 1.2-1.8m, 3 sites

Crown cover avg. = 11.3%, range 4.0-21.0%, 3 sites

Frequent species (cover, frequency): *Acacia conferta* (3, 11%), *Acacia crassa* (1, 11%), *Alphitonia excelsa* (11%), *Styphelia viridis* (1, 11%), *Acacia deanei* (5%), *Acacia excelsa* (1, 5%), *Acacia ixiophylla* (1, 5%), *Acacia leiocalyx subsp. leiocalyx* (5%), *Acacia lineata* (15, 5%), *Acacia semilunata* (1, 5%), *Allocasuarina luehmannii* (1, 5%), *Boronia bipinnata* (1, 5%), *Cryptandra longistaminea* (1, 5%), *Daviesia genistifolia* (5%), *Denhamia cunninghamii* (5%), *Dodonaea triangularis* (2, 5%), *Leucopogon blakei* (1, 5%), *Leucopogon muticus* (1, 5%), *Melaleuca decora* (6, 5%), *Opuntia tomentosa\** (5%), *Persoonia terminalis subsp. recurva* (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. = 0.3m, range 0.1-0.6m, 16 sites

PFC avg. = 23.1%, range 2-60%, 16 sites

*Dominant species (relative cover, frequency): Gahnia aspera (23, 44%), Aristida caput-medusae (15, 69%), Allocasuarina luehmannii (13, 25%), Chrysocephalum apiculatum (10, 38%), Panicum effusum (10, 38%)*

*Frequent species (cover, frequency): GRAMINOIDS: Aristida caput-medusae (4, 69%), Cymbopogon refractus (1, 56%), Fimbristylis dichotoma (50%), Gahnia aspera (4, 44%), Eragrostis sororia (1, 38%), Eremochloa bimaculata (2, 38%), Panicum effusum (2, 38%), Aristida calycina var. calycina (1, 25%), Aristida ramosa (1, 25%), Chrysopogon fallax (25%), Enteropogon acicularis (25%), Panicum simile (25%), Themeda triandra (1, 25%), Aristida leichhardtiana (19%), Aristida vagans (1, 19%), Cyperus fulvus (19%), Digitaria diffusa (19%), Eragrostis elongata (19%), Eragrostis lacunaria (1, 19%), Amphipogon caricinus var. scaber (13%), Aristida calycina (13%), Aristida indet. (13%), Aristida jerichoensis var. jerichoensis (2, 13%), Chloris truncata (13%), Digitaria indet. (13%), Dinebra decipiens (13%), Entolasia stricta (18, 13%), Eragrostis brownii (5, 13%), Eragrostis indet. (13%), Eriachne mucronata (3, 13%), Eulalia aurea (13%), Paspalidium distans (13%), Paspalidium gracile (13%), Paspalidium indet. (5, 13%), Schizachyrium fragile (13%), Tripogon loliiformis (13%), Abildgaardia ovata (6%), Ancistrachne uncinata (6%), Aristida calycina var. praealta (4, 6%), Aristida gracilipes (6%), Aristida jerichoensis var. subspinulifera (1, 6%), Aristida personata (1, 6%), Aristida queenslandica (3, 6%), Aristida queenslandica var. dissimilis (4, 6%), Aristida queenslandica var. queenslandica (6%), Aristida spuria (1, 6%), Austrostipa verticillata (6%), Bothriochloa decipiens (6%), Bothriochloa decipiens var. decipiens (12, 6%), Calyptochloa gracillima subsp. gracillima (1, 6%), Chloris ventricosa (6%), Cymbopogon ambiguus (6%), Cyperus exaltatus (6%), Cyperus gracilis (8, 6%), Cyperus leiocaulon (6%), Digitaria breviglumis (6%), Digitaria parviflora (1, 6%), Dimorphochloa rigida (3, 6%), Dinebra indet. (6%), Enneapogon lindleyanus (6%), Eragrostis spartinioides (2, 6%), Eriachne mucronata forma (Alpha C.E.Hubbard 7882) (6%), Heteropogon contortus (6%), Melinis repens\* (6%), Oplismenus aemulus (6%), Panicum decompositum (6%), Panicum queenslandicum var. queenslandicum (6%), Paspalidium albavillosum (6%), Paspalidium caespitosum (6%), Schoenus subaphyllus (6%), Scleria mackaviensis (6%), Scleria sphacelata (2, 6%), Sporobolus creber (6%), Thyridolepis mitchelliana (5, 6%), Urochloa foliosa (1, 6%)*

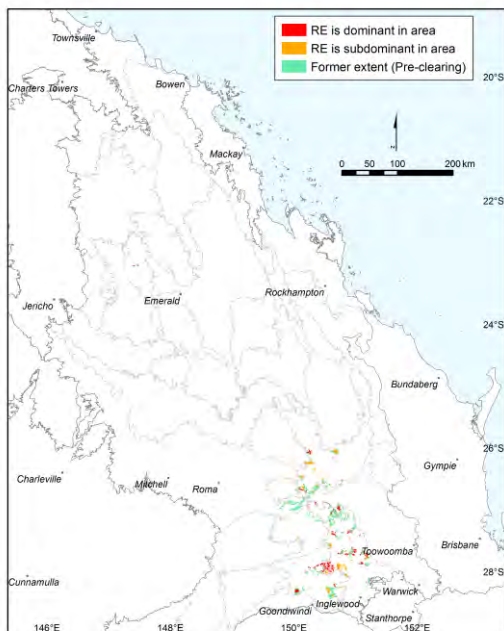
*FORBS: Phyllanthus virgatus (50%), Brunoniella australis (44%), Cheilanthes distans (44%), Cheilanthes sieberi (44%), Dianella revoluta (44%), Chrysocephalum apiculatum (4, 38%), Laxmannia gracilis (38%), Lomandra filiformis (38%), Lomandra multiflora subsp. multiflora (38%), Acacia leiocalyx subsp. leiocalyx (31%), Allocasuarina luehmannii (2, 25%), Cyathium cinereum (25%), Dianella brevipedunculata (25%), Lomandra confertifolia subsp. pallida (25%), Lomandra leucocephala (25%), Lomandra longifolia (25%), Brachyscome multifida (1, 19%), Glycine clandestina (19%), Glycine tabacina (19%), Leucopogon biflorus (1, 19%), Melichrus sp. (Isla Gorge P.Sharpe+ 601) (19%), Pomax umbellata (1, 19%), Stackhousia viminea (19%), Alphonsea excelsa (13%), Angophora leiocarpa (13%), Callitris glaucophylla (13%), Calotis cuneifolia (13%), Calotis dentex (13%), Carissa ovata (13%), Cheilanthes sieberi subsp. sieberi (13%), Denhamia cunninghamii (13%), Ervolulus alsinoides (13%), Glossocardia bidens (13%), Goodenia gracilis (13%), Hakea lorea subsp. lorea (13%), Melichrus erveolatus (13%), Opuntia stricta\* (13%), Sida hackettiana (13%), Sida indet. (13%), Solanum stelligerum (13%), Sphaeromorphaea indet. (13%), Acacia amblygona (6%), Acacia conferta (1, 6%), Acacia neriifolia (1, 6%), Aeschynomene brevifolia (6%), Alternanthera nana (6%), Amyema indet. (6%), Brachyscome microcarpa (6%), Bulbophyllum indet. (6%), Capparis lasiantha (6%), Cassinia indet. (6%), Casuarina cristata (6%), Centipeda minima (6%), Cirsium vulgare\* (6%), Coronidium rupicola (6%), Cyanicula caerulea (6%), Daviesia genistifolia (6%), Dianella caerulea (6%), Dianella indet. (6%), Dianella longifolia (6%), Dianella longifolia var. longifolia (6%), Dodonaea triangularis (6%), Drosera indet. (6%), Einadia nutans subsp. nutans (6%), Eremophila debilis (6%), Erigeron canadensis\* (6%), Erigeron sumatrensis\* (6%), Eucalyptus moluccana (6%), Exocarpos cupressiformis (3, 6%), Geijera parviflora (6%), Glandularia aristigera\* (6%), Glycine clandestina var. sericea (6%), Gomphrena celosoides\* (6%), Gonocarpus indet. (6%), Goodenia delicata (6%), Goodenia glabra (6%), Grevillea striata (6%), Harmogia densifolia (6%), Heliotropium amplexicaule\* (6%), Hibbertia indet. (6%), Hibiscus sturtii (6%), Hypericum gramineum (6%), Jacksonia scoparia (6%), Kunzea opposita var. opposita (1, 6%), Leucopogon muticus (1, 6%), Lomandra confertifolia (6%), Lomandra filiformis subsp. filiformis (6%), Lomandra laxa (6%), Maireana microphylla (6%), Marsdenia microlepis (6%), Murdannia graminea (6%), Myoporum indet. (6%), Oldenlandia mitrasacmoides (1, 6%), Opuntia indet. (6%), Opuntia tomentosa\* (6%), Oxalis corniculata\* (6%), Oxalis perennans (6%), Ozothamnus diotophyllus (6%), Passiflora caerulea\* (6%), Petalostigma pubescens (6%), Pimelea neoanglica (6%), Plantago indet. (6%), Portulaca australis (6%), Portulaca pilosa\* (6%), Psydrax odorata (6%), Psydrax oleifolia (6%), Rostellularia adscendens (6%), Solanum ellipticum (6%), Solanum nemophilum (6%), Solanum parvifolium (6%), Spermacoe multicaulis (6%), Stackhousia indet. (6%), Tricoryne elatior (6%), Vigna lanceolata (6%), Vittadinia sulcata (6%), Wahlenbergia gracilis (6%), Xanthorrhoea johnsonii (2, 6%), Zornia dyctiocarpa var. dyctiocarpa (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 populnea woodland with Allocasuarina luehmannii low tree layer**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 149,929 57,105 38%

Species\_recorded: Total: 68; woody: 25; ground: 49; Avg. spp./site: 21.0; std dev.: 2.2, 3 site(s)

Basal area: Avg./site: 18.0 m<sup>2</sup>/ha, range: 11.0 - 22 m<sup>2</sup>/ha, std. deviation: 4 m<sup>2</sup>/ha, 4 site(s)

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

Representative\_sites 16740, 16748, 16956, 28724.

**Stratum: Tree 1**

Height avg. = 21.0m, range 18-25m, 4 sites

Crown cover avg. = 28.5%, range 15.0-42.0%, 4 sites

Dominant species (relative cover, frequency): *Eucalyptus populnea* (70, 50%), *Eucalyptus crebra* (61, 75%), *Callitris glaucophylla* (21, 75%), *Callitris endlicheri* (15, 25%)

Frequent species (cover, frequency): *Callitris glaucophylla* (7, 75%), *Eucalyptus crebra* (16, 75%), *Eucalyptus populnea* (20, 50%), *Angophora leiocarpa* (25%), *Callitris endlicheri* (7, 25%), *Eucalyptus crebra x E. populnea* (25%)

**Stratum: Tree 2**

Height avg. = 11.0m, range 7-15m, 4 sites

Crown cover avg. = 16.5%, range 12.0-22.0%, 4 sites

Dominant species (relative cover, frequency): *Callitris endlicheri* (53, 25%), *Allocasuarina luehmannii* (40, 100%), *Callitris glaucophylla* (28, 100%), *Eucalyptus populnea* (24, 50%), *Alphitonia excelsa* (13, 25%)

Frequent species (cover, frequency): *Allocasuarina luehmannii* (7, 100%), *Callitris glaucophylla* (4, 100%), *Eucalyptus crebra* (2, 50%), *Eucalyptus populnea* (4, 50%), *Alphitonia excelsa* (2, 25%), *Callitris endlicheri* (8, 25%), *Eucalyptus crebra x E. populnea* (25%), *Melaleuca decora* (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 3**

Height avg. = 4.0m, range 3-5m, 3 sites

Crown cover avg. = 8.3%, range 5.0-10.0%, 3 sites

Dominant species (relative cover, frequency): *Allocasuarina luehmannii* (66, 75%), *Eucalyptus populnea* (32, 25%), *Callitris glaucophylla* (31, 50%), *Melaleuca decora* (2, 25%), *Eucalyptus crebra* (2, 25%)

Frequent species (cover, frequency): *Allocasuarina luehmannii* (3, 75%), *Callitris glaucophylla* (2, 50%), *Acacia crassa* (25%), *Alphitonia excelsa* (25%), *Eucalyptus crebra* (25%), *Eucalyptus populnea* (3, 25%), *Melaleuca decora* (25%)

**Stratum: Shrub 1**

Height avg. = 2.0m, range 1.5-3m, 4 sites

Crown cover avg. = 10.8%, range 2.0-25.0%, 4 sites

Dominant species (relative cover, frequency): *Geijera parviflora* (36, 75%), *Acacia conferta* (28, 50%), *Acacia crassa* (28, 25%), *Callitris glaucophylla* (28, 25%), *Allocasuarina luehmannii* (22, 100%)

Frequent species (cover, frequency): *Allocasuarina luehmannii* (3, 100%), *Geijera parviflora* (7, 75%), *Acacia conferta* (3, 50%), *Pimelea neoanglica* (50%), *Acacia crassa* (2, 25%), *Acacia excelsa* (1, 25%), *Acacia leiocalyx subsp. leiocalyx* (25%), *Callitris endlicheri* (1, 25%), *Callitris glaucophylla* (2, 25%), *Capparis mitchellii* (1, 25%), *Carissa ovata* (2, 25%), *Cassinia laevis* (1, 25%), *Denhamia cunninghamii* (1, 25%), *Dodonaea triangularis* (2, 25%), *Dodonaea viscosa subsp. spatulata* (2, 25%), *Leucopogon biflorus* (25%), *Melaleuca decora* (1, 25%), *Petalostigma pubescens* (25%), *Pittosporum indet.* (1, 25%)

**Stratum: Ground**

Height avg. = 0.2m, range 0.1-0.4m, 3 sites

PFC avg. = 41.7%, range 35-50%, 3 sites

Dominant species (relative cover, frequency): *Cymbopogon refractus* (47, 67%), *Paspalidium criniforme* (28, 33%), *Aristida caput-medusae* (27, 100%), *Aristida jerichoensis var. jerichoensis* (19, 33%), *Cheilanthes sieberi subsp. sieberi* (14, 67%)

Frequent species (cover, frequency): GRAMINOIDS: *Aristida caput-medusae* (7, 100%), *Aristida vagans* (2, 67%), *Cymbopogon refractus* (23, 67%), *Gahnia aspera* (2, 67%), *Panicum effusum* (3, 67%), *Aristida jerichoensis var. jerichoensis* (5, 33%), *Aristida ramosa* (2, 33%), *Chloris ventricosa* (1, 33%), *Dinebra decipiens* (2, 33%), *Entolasia stricta* (1, 33%), *Eragrostis elongata* (33%), *Fimbristylis dichotoma* (33%), *Paspalidium criniforme* (10, 33%)

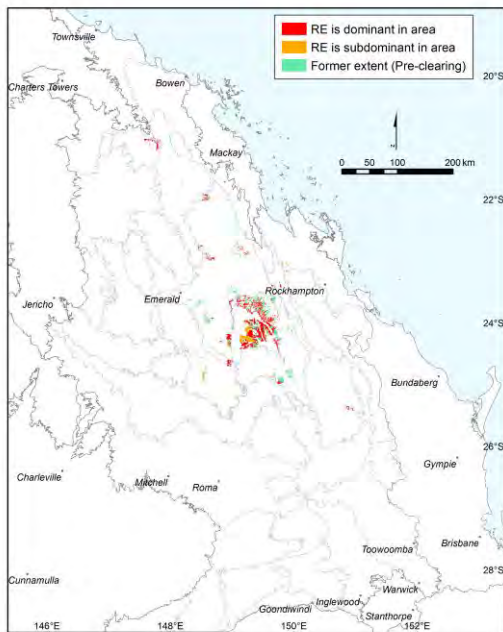
FORBS: *Cheilanthes sieberi subsp. sieberi* (5, 67%), *Dianella longifolia* (67%), *Lomandra multiflora subsp. multiflora* (67%), *Acacia deanei* (33%), *Acacia sparsiflora* (33%), *Brunoniella australis* (33%), *Calotis dentex* (33%), *Casuarina cristata* (33%), *Cheilanthes sieberi* (33%), *Eucalyptus woollsiana* (33%), *Lomandra confertifolia* (33%), *Lomandra filiformis* (33%), *Opuntia tomentosa\** (33%), *Pomaderris queenslandica* (33%), *Pseuderanthemum variabile* (33%), *Psyrax oleifolia* (33%), *Sida sp.* (Musselbrook M.B.Thomas+ MRS437) (33%), *Solanum esuriale* (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., with E. moluccana woodland on lower slopes of Cainozoic sand plains and/or remnant surfaces**



**Pre-clearing area (ha), remnant area (ha) and per cent remaining:** 304,452 173,128 57%

**Species recorded:** Total: 197; woody: 49; ground: 156; Avg. spp./site: 36.0; std dev.: 7.6, 4 site(s)

**Basal area:** Avg./site: 15.7 m<sup>2</sup>/ha, range: 5.0 - 29 m<sup>2</sup>/ha, std. deviation: 6 m<sup>2</sup>/ha, 17 site(s)

**Structural formation:** Woodland: 76%; open-woodland: 24%, 17 site(s)

**Representative sites** 16312, 17157, 17170, 17195, 17198, 17375, 17390, 17391, 17398, 17403, 17458, 17460, 17461, 17670, 17691, 19129, 60764.

**Stratum: Tree 1**

**Height avg. = 18.5m, range 15-26m, 17 sites**

**Crown cover avg. = 26.6%, range 15.0-45.0%, 17 sites**

*Dominant species (relative cover, frequency):* *Corymbia citriodora* (77, 29%), *Eucalyptus crebra* (50, 94%), *Corymbia clarksoniana* (28, 35%), *Corymbia trachyphloia subsp. trachyphloia* (11, 24%)

*Frequent species (cover, frequency):* *Eucalyptus crebra* (14, 94%), *Corymbia clarksoniana* (7, 35%), *Corymbia citriodora* (21, 29%), *Corymbia trachyphloia subsp. trachyphloia* (3, 24%), *Eucalyptus moluccana* (15, 12%), *Acacia rhodoxylon* (2, 6%), *Allocasuarina luehmannii* (6%), *Corymbia citriodora subsp. citriodora* (18, 6%), *Corymbia intermedia* (18, 6%), *Corymbia tessellaris* (3, 6%), *Corymbia trachyphloia* (8, 6%), *Corymbia watsoniana* (1, 6%), *Eucalyptus apothalassica* (8, 6%), *Eucalyptus tereticornis* (6%)

**Stratum: Tree 2**

**Height avg. = 6.2m, range 1.2-14m, 12 sites**

**Crown cover avg. = 9.0%, range 0.6-35.0%, 14 sites**

*Dominant species (relative cover, frequency):* *Alphitonia excelsa* (66, 35%), *Petalostigma pubescens* (37, 29%)

*Frequent species (cover, frequency):* *Alphitonia excelsa* (3, 35%), *Petalostigma pubescens* (8, 29%), *Allocasuarina luehmannii* (3, 18%), *Eucalyptus crebra* (1, 18%), *Callitris glaucophylla* (9, 12%), *Lysicarpus angustifolius* (3, 12%), *Pittosporum spinescens* (1, 12%), *Acacia complanata* (6%), *Acacia crassa* (2, 6%), *Acacia crassa subsp. longicoma* (2, 6%), *Corymbia citriodora subsp. citriodora* (2, 6%), *Corymbia clarksoniana* (1, 6%), *Corymbia intermedia* (2, 6%), *Corymbia trachyphloia* (2, 6%), *Corymbia watsoniana* (6%), *Eucalyptus apothalassica* (6%), *Eucalyptus tenuipes* (4, 6%), *Grevillea parallela* (6%), *Jacksonia scoparia* (6%), *Planchonella cotinifolia var. pubescens* (8, 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

## Technical Description

Regional ecosystem: 11.5.2

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### Stratum: Tree 3

Height avg. = 4.0m, 1 site

Crown cover avg. = 6.0%, 1 site

*Frequent species (cover, frequency):* *Alphitonia excelsa* (4, 6%), *Brachychiton populneus* (6%), *Eucalyptus tenuipes* (6%), *Lysicarpus angustifolius* (2, 6%)

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### Stratum: Shrub 1

Height avg. = 1.5m, range 1-2m, 11 sites

Crown cover avg. = 6.2%, range 0.0-15.9%, 11 sites

*Dominant species (relative cover, frequency):* *Petalostigma pubescens* (27, 24%)

*Frequent species (cover, frequency):* *Petalostigma pubescens* (1, 24%), *Acacia crassa* (11, 18%), *Alphitonia excelsa* (18%), *Eucalyptus crebra* (1, 18%), *Corymbia clarksoniana* (1, 12%), *Erythroxylum sp. (Splityard Creek L.Pedley 5360)* (1, 12%), *Flindersia dissosperma* (12%), *Pittosporum spinescens* (12%), *Acacia complanata* (3, 6%), *Acacia conferta* (1, 6%), *Acacia crassa subsp. longicoma* (6%), *Acacia penninervis* (1, 6%), *Allocasuarina torulosa* (1, 6%), *Breynia oblongifolia* (6%), *Capparis canescens* (6%), *Corymbia citriodora subsp. citriodora* (1, 6%), *Corymbia intermedia* (1, 6%), *Corymbia trachyphloia* (1, 6%), *Corymbia watsoniana* (6%), *Daviesia ulicifolia* (1, 6%), *Daviesia villifera* (1, 6%), *Dodonaea lanceolata* (2, 6%), *Dodonaea triangularis* (2, 6%), *Dodonaea viscosa* (6%), *Eremophila mitchellii* (3, 6%), *Erythroxylum australe* (6%), *Eucalyptus apothalassica* (1, 6%), *Grevillea parallela* (6%), *Grewia latifolia* (1, 6%), *Larsenaikia ochreatea* (6%), *Planchonella cotinifolia var. pubescens* (1, 6%), *Psyrax odorata* (6%), *Pultenaea indet.* (5, 6%)

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### Stratum: Shrub 2

Height avg. = 0.4m, 1 site

Crown cover avg. = 5.0%, 1 site

*Frequent species (cover, frequency):* *Alphitonia excelsa* (6%), *Corymbia trachyphloia* (6%), *Daviesia ulicifolia* (1, 6%), *Daviesia villifera* (1, 6%), *Macrozamia crassifolia* (1, 6%), *Melichrus adpressus* (3, 6%), *Persoonia sericea* (6%), *Pultenaea bracteata* (1, 6%)

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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 0.25-0.5m, 4 sites

PFC avg. = 50.0%, range 35-80%, 4 sites

*Dominant species (relative cover, frequency):* *Perotis rara* (53, 25%), *Entolasia stricta* (26, 25%), *Calypochloa gracillima* subsp. *gracillima* (25, 25%), *Cymbopogon refractus* (17, 50%), *Aristida queenslandica* var. *dissimilis* (15, 25%)

*Frequent species (cover, frequency):* GRAMINOIDS: *Panicum effusum* (1, 75%), *Aristida calycina* (3, 50%), *Cymbopogon refractus* (12, 50%), *Digitaria brownii* (1, 50%), *Enneapogon lindleyanus* (1, 50%), *Melinis repens*\* (2, 50%), *Alloteropsis semialata* (2, 25%), *Aristida calycina* var. *calycina* (10, 25%), *Aristida holathera* var. *holathera* (1, 25%), *Aristida personata* (25%), *Aristida queenslandica* var. *dissimilis* (7, 25%), *Aristida queenslandica* var. *queenslandica* (2, 25%), *Arundinella nepalensis* (4, 25%), *Calypochloa gracillima* subsp. *gracillima* (20, 25%), *Capillipedium spicigerum* (25%), *Cyperus bifax* (25%), *Cyperus fulvus* (25%), *Digitaria ramularis* (2, 25%), *Enneapogon polyphyllus* (8, 25%), *Enneapogon robustissimus* (3, 25%), *Entolasia stricta* (10, 25%), *Eragrostis indet.* (25%), *Eragrostis sororia* (25%), *Eremochloa bimaculata* (2, 25%), *Eriachne mucronata* (10, 25%), *Eriachne pallescens* (25%), *Eulalia aurea* (3, 25%), *Heteropogon contortus* (2, 25%), *Perotis rara* (25, 25%), *Setaria surgens* (25%), *Tragus australianus* (1, 25%)

FORBS: *Rostellularia adscendens* (75%), *Cyanthillium cinereum* (50%), *Desmodium rhytidophyllum* (50%), *Evolvulus alsinoides* (1, 50%), *Oxalis perennans* (50%), *Phyllanthus virgatus* (50%), *Sida hackettiana* (1, 50%), *Spermacoce multicaulis* (50%), *Acacia leiocalyx* subsp. *leiocalyx* (25%), *Aeschynomene indet.* (25%), *Alstonia constricta* (25%), *Apowollastonia spilanthisoides* (25%), *Bonamia media* (1, 25%), *Breynia oblongifolia* (25%), *Brunoniella australis* (25%), *Bursaria incana* (25%), *Capparis canescens* (25%), *Carissa ovata* (25%), *Cheilanthes sieberi* (25%), *Chorizema parviflorum* (1, 25%), *Coelospermum reticulatum* (25%), *Commelina lanceolata* (25%), *Crotalaria montana* (25%), *Desmodium brachypodium* (25%), *Dianella indet.* (25%), *Dianella revoluta* (1, 25%), *Dodonaea viscosa* (25%), *Emilia sonchifolia*\* (25%), *Eremophila debilis* (25%), *Euphorbia drummondii* (25%), *Everistia vacciniifolia* (25%), *Glycine clandestina* (25%), *Glycine tomentella* (25%), *Goodenia delicata* (25%), *Grewia latifolia* (25%), *Hardenbergia violacea* (1, 25%), *Hibbertia cistoidea* (25%), *Indigofera indet.* (25%), *Lantana montevidensis*\* (25%), *Laxmannia gracilis* (25%), *Lomandra filiformis* subsp. *filiformis* (1, 25%), *Lomandra leucocephala* (1, 25%), *Lomandra longifolia* (1, 25%), *Malvastrum americanum* var. *americanum*\* (25%), *Melhanie oblongifolia* (25%), *Opuntia indet.* (25%), *Peripleura hispidula* (25%), *Planchonia careya* (25%), *Portulaca filifolia* (25%), *Psydrax oleifolia* (25%), *Rhynchosia minima* (25%), *Sauropus trachyspermus* (25%), *Sida cordifolia*\* (1, 25%), *Solanum ellipticum* (25%), *Stylidium eriorhizum* (25%), *Wahlenbergia gracilis* (1, 25%), *Waltheria indica* (1, 25%), *Zornia dyctiocarpa* (25%)

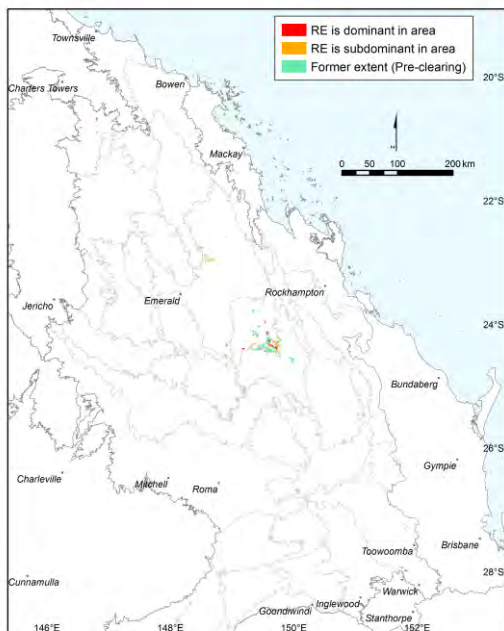
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**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with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

**Allocasuarina luehmannii low tree layer with or without emergent woodland**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 55,708 16,854 30%

Species\_recorded: Total: 74; woody: 12; ground: 62; Avg. spp./site: 44.0; std dev.: 0.0, 1 site(s)

Basal area: Avg./site: 17.2 m<sup>2</sup>/ha, range: 4.5 - 24 m<sup>2</sup>/ha, std. deviation: 9 m<sup>2</sup>/ha, 3 site(s)

Structural formation: Woodland: 33%; open-woodland: 33%; low open-woodland: 33%, 3 site(s)

Representative\_sites 17381, 17389, 19256.

**Stratum: Tree 1**

Height avg. = 14.7m, range 8-18m, 3 sites

Crown cover avg. = 30.7%, range 2.0-60.0%, 3 sites

Dominant species (relative cover, frequency): *Eucalyptus populnea* (100, 67%), *Allocasuarina luehmannii* (50, 67%)

Frequent species (cover, frequency): *Allocasuarina luehmannii* (30, 67%), *Eucalyptus populnea* (16, 67%), *Brachychiton bidwillii* (33%)

**Stratum: Tree 2**

Height avg. = 6.5m, range 5-8m, 2 sites

Crown cover avg. = 4.5%, range 4.0-5.0%, 2 sites

Dominant species (relative cover, frequency): *Allocasuarina luehmannii* (98, 33%), *Planchonella cotinifolia* var. *pubescens* (50, 33%), *Jacksonia scoparia* (50, 33%), *Eucalyptus populnea* (2, 33%)

Frequent species (cover, frequency): *Allocasuarina luehmannii* (4, 33%), *Eucalyptus populnea* (33%), *Jacksonia scoparia* (2, 33%), *Planchonella cotinifolia* var. *pubescens* (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: Shrub 1**

Height avg. = 3.0m, 1 site

Crown cover avg. = 2.0%, 1 site

*Dominant species (relative cover, frequency): Allocasuarina luehmannii (59, 33%), Grevillea striata (9, 33%), Stylosanthes indet. (5, 33%), Psydrax attenuata (5, 33%), Grewia latifolia (5, 33%)*

*Frequent species (cover, frequency): Acacia bancroftiorum (33%), Acacia indet. (33%), Allocasuarina luehmannii (1, 33%), Clerodendrum floribundum (33%), Eucalyptus populnea (33%), Grevillea striata (33%), Grewia latifolia (33%), Psydrax attenuata (33%), Stylosanthes indet. (33%)*

**Stratum: Ground**

Height avg. = 0.5m, 1 site

PFC avg. = 30.0%, 1 site

*Dominant species (relative cover, frequency): Eragrostis lacunaria (37, 100%), Aristida calycina (19, 100%), Chrysopogon fallax (11, 100%), Melinis repens\* (11, 100%), Aristida calycina var. calycina (11, 100%)*

*Frequent species (cover, frequency): GRAMINOIDS: Alloteropsis semialata (100%), Aristida calycina (5, 100%), Aristida calycina var. calycina (3, 100%), Aristida queenslandica var. queenslandica (100%), Cenchrus ciliaris\* (100%), Chrysopogon fallax (3, 100%), Cymbopogon refractus (100%), Digitaria indet. (100%), Enneapogon lindleyanus (100%), Enneapogon virens (100%), Eragrostis lacunaria (10, 100%), Eragrostis spartinooides (100%), Eragrostis speciosa (100%), Eriochloa indet. (100%), Heteropogon contortus (100%), Melinis repens\* (3, 100%), Panicum effusum (100%)*

*FORBS: Alternanthera nana (100%), Calotis cuneifolia (100%), Chrysocephalum apiculatum (100%), Euphorbia drummondii (100%), Euphorbia indet. (100%), Evolvulus alsinoides (100%), Hybanthus monopetalus (100%), Malvastrum americanum var. americanum\* (100%), Marsdenia fraseri (100%), Oldenlandia mitrasacmoides (100%), Phyllanthus gunnii (100%), Phyllanthus lacerosus (100%), Polycarpha breviflora (100%), Rostellularia adscendens (100%), Salsola australis (100%), Sauropus ramosissimus (100%), Sida atherophora (100%), Sida indet. (100%)*

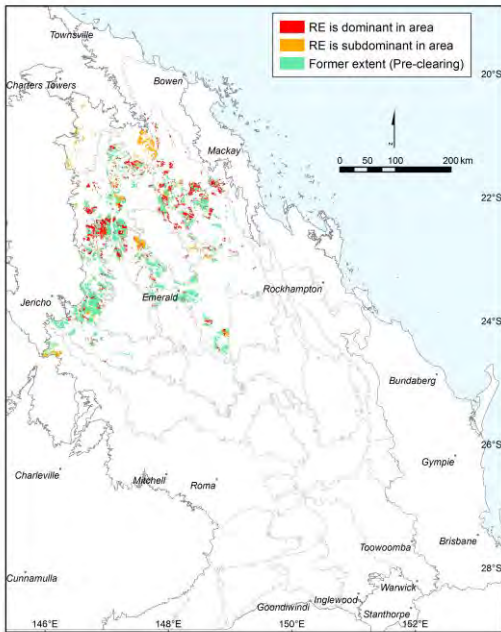
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Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 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 populnea +/- E. melanophloia +/- Corymbia clarksoniana woodland on Cainozoic sand plains and/or remnant surfaces**



Annie Kelly

**Pre-clearing area (ha), remnant area (ha) and per cent remaining:** 974,585 376,888 39%

**Species\_recorded:** Total: 207; woody: 64; ground: 160; Avg. spp./site: 27.6; std dev.: 7.8, 12 site(s)

**Basal area:** Avg./site: 7.2 m<sup>2</sup>/ha, range: 1.0 - 13 m<sup>2</sup>/ha, std. deviation: 4 m<sup>2</sup>/ha, 16 site(s)

**Structural formation:** Open-woodland: 50%; woodland: 44%; low open-woodland: 6%, 16 site(s)

**Representative\_sites** 2460, 2467, 16868, 16888, 16891, 16901, 17017, 17032, 17056, 19030, 19163, 19169, 19186, 19194, 19217, 32290.

**Stratum: Tree 1**

**Height avg. = 13.9m, range 8.4-20m, 16 sites**  
**Crown cover avg. = 16.1%, range 2.0-30.0%, 16 sites**

*Dominant species (relative cover, frequency): Eucalyptus populnea (98, 50%), Eucalyptus melanophloia (93, 25%)*  
*Frequent species (cover, frequency): Eucalyptus populnea (16, 50%), Eucalyptus melanophloia (17, 25%), Eucalyptus brownii (10, 19%), Corymbia clarksoniana (4, 13%), Eucalyptus crebra (2, 13%), Ventilago viminalis (13%), Angophora leiocarpa (1, 6%), Atalaya hemiglauca (1, 6%), Corymbia dallachiana (6%), Eucalyptus melanophloia subsp. melanophloia (30, 6%), Grevillea parallela (1, 6%), Grevillea striata (1, 6%)*

**Stratum: Tree 2**

**Height avg. = 7.9m, range 5-12m, 9 sites**  
**Crown cover avg. = 7.6%, range 0.0-25.0%, 9 sites**

*Frequent species (cover, frequency): Acacia excelsa (19%), Archidendropsis basaltica (3, 19%), Eucalyptus populnea (2, 19%), Terminalia oblongata subsp. oblongata (4, 19%), Atalaya hemiglauca (13%), Corymbia dallachiana (13%), Eucalyptus melanophloia (9, 13%), Grevillea parallela (1, 13%), Acacia fodinalis (3, 6%), Acacia longispicata (6%), Acacia rhodoxylon (1, 6%), Angophora leiocarpa (1, 6%), Cassia brewsteri (1, 6%), Corymbia erythrophloia (6%), Ehretia membranifolia (6%), Eremophila mitchellii (4, 6%), Erythroxylum australe (2, 6%), Eucalyptus brownii (2, 6%), Eucalyptus crebra (1, 6%), Geijera parviflora (6%), Grevillea striata (1, 6%), Lysiphyllum carronii (4, 6%), Lysiphyllum hookeri (5, 6%), Parsonsia lanceolata (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

**Stratum: Tree 3**

Height avg. = 3.3m, range 1.5-6m, 3 sites

Crown cover avg. = 7.3%, range 1.0-15.0%, 3 sites

*Frequent species (cover, frequency): Eremophila mitchellii (3, 19%), Acacia excelsa (2, 6%), Acacia salicina (1, 6%), Alphitonia excelsa (1, 6%), Archidendropsis basaltica (2, 6%), Atalaya hemiglauca (1, 6%), Bursaria incana (1, 6%), Erythroxylum australe (1, 6%), Flindersia dissosperma (1, 6%), Geijera salicifolia (3, 6%), Lysiphyllum carronii (1, 6%), Notelaea microcarpa (1, 6%), Terminalia oblongata subsp. oblongata (2, 6%)*

**Stratum: Shrub 1**

Height avg. = 2.0m, range 0.75-4m, 16 sites

Crown cover avg. = 5.1%, range 1.0-15.0%, 16 sites

*Dominant species (relative cover, frequency): Eremophila mitchellii (36, 50%), Erythroxylum australe (23, 44%), Grewia latifolia (9, 38%)*

*Frequent species (cover, frequency): Eremophila mitchellii (3, 50%), Erythroxylum australe (2, 44%), Grewia latifolia (38%), Acacia excelsa (1, 19%), Atalaya hemiglauca (19%), Carissa ovata (8, 19%), Eucalyptus populnea (1, 19%), Acacia sericophylla (1, 13%), Archidendropsis basaltica (1, 13%), Capparis lasiantha (13%), Cassia brewsteri (13%), Denhamia cunninghamii (1, 13%), Eucalyptus brownii (1, 13%), Eucalyptus melanophloia (2, 13%), Flindersia dissosperma (1, 13%), Lysiphyllum carronii (13%), Psydrax oleifolia (1, 13%), Acacia fodinalis (3, 6%), Acacia laccata (1, 6%), Acacia longispicata (6%), Acacia salicina (6%), Alectryon oleifolius subsp. elongatus (1, 6%), Alphitonia excelsa (6%), Apophyllum anomalum (6%), Brachychiton australis (6%), Capparis canescens (1, 6%), Capparis loranthifolia var. loranthifolia (1, 6%), Cassytha pubescens (6%), Corymbia clarksoniana (6%), Dodonaea viscosa (1, 6%), Enchylaena tomentosa (6%), Eucalyptus crebra (1, 6%), Fabaceae indet. (6%), Geijera parviflora (1, 6%), Hakea chordophylla (6%), Hakea lorea (6%), Indigofera brevidens (6%), Melaleuca nervosa (1, 6%), Petalostigma pubescens (6%), Pittosporum spinescens (1, 6%), Senna artemisioides subsp. filifolia (1, 6%), Sida hackettiana (6%), Terminalia indet. (1, 6%), Terminalia oblongata subsp. oblongata (1, 6%), Ventilago viminalis (6%)*

**Stratum: Shrub 2**

Height avg. = 0.9m, range 0.6-1.3m, 4 sites

Crown cover avg. = 4.3%, range 0.0-14.0%, 4 sites

*Frequent species (cover, frequency): Carissa lanceolata (19%), Carissa ovata (7, 13%), Archidendropsis basaltica (1, 6%), Capparis lasiantha (6%), Denhamia cunninghamii (6%), Eremophila indet. (6%), Eucalyptus melanophloia (6%), Grewia latifolia (1, 6%), Grewia retusifolia (6%), Harrisia martinii\* (6%), Petalostigma pubescens (6%), Psydrax attenuata (1, 6%), Psydrax oleifolia (6%)*

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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, 11 sites

PFC avg. = 44.0%, range 10-90%, 12 sites

*Dominant species (relative cover, frequency):* *Cenchrus ciliaris*\* (39, 33%), *Themeda triandra* (28, 33%), *Aristida calycina* (23, 33%), *Chrysopogon fallax* (11, 50%), *Fimbristylis dichotoma* (9, 50%)

*Frequent species (cover, frequency):* GRAMINOIDS: *Chrysopogon fallax* (2, 50%), *Fimbristylis dichotoma* (1, 50%), *Heteropogon contortus* (4, 50%), *Aristida calycina* (7, 33%), *Cenchrus ciliaris*\* (28, 33%), *Digitaria brownii* (33%), *Panicum effusum* (1, 33%), *Themeda triandra* (22, 33%), *Cyperus fulvus* (25%), *Dichanthium sericeum* (25%), *Eragrostis lacunaria* (1, 25%), *Eragrostis sororia* (25%), *Aristida jerichoensis* (1, 17%), *Bothriochloa decipiens* (17%), *Bothriochloa decipiens* var. *decipiens* (17%), *Cymbopogon bombycinus* (17%), *Cyperus gracilis* (17%), *Digitaria ammophila* (17%), *Enneapogon lindleyanus* (1, 17%), *Enneapogon virens* (1, 17%), *Eragrostis brownii* (1, 17%), *Eragrostis leptostachya* (17%), *Eulalia aurea* (1, 17%), *Sporobolus caroli* (17%), *Tragus australianus* (17%), *Triodia pungens* (19, 17%), *Alloteropsis cimicina* (8%), *Alloteropsis semialata* (8%), *Aristida calycina* var. *calycina* (1, 8%), *Aristida holathera* var. *holathera* (8%), *Aristida* *indet.* (5, 8%), *Aristida jerichoensis* var. *subspinulifera* (1, 8%), *Aristida latifolia* (8%), *Aristida personata* (2, 8%), *Aristida ramosa* (1, 8%), *Bothriochloa ewartiana* (20, 8%), *Chloris divaricata* (5, 8%), *Chloris truncata* (8%), *Cleistochloa subjuncea* (8%), *Cymbopogon refractus* (8%), *Cyperus* *indet.* (1, 8%), *Dactyloctenium radulans* (8%), *Digitaria* *indet.* (8%), *Dinebra decipiens* var. *asthenes* (2, 8%), *Enneapogon gracilis* (1, 8%), *Enneapogon polyphyllus* (1, 8%), *Enteropogon acicularis* (8%), *Enteropogon ramosus* (1, 8%), *Eragrostis cumingii* (8%), *Eragrostis elongata* (8%), *Eriachne* *indet.* (8%), *Eriachne mucronata* (4, 8%), *Melinis repens*\* (2, 8%), *Panicum decompositum* (1, 8%), *Panicum queenslandicum* (8%), *Paspalidium criniforme* (5, 8%), *Perotis rara* (8%), *Schizachyrium fragile* (1, 8%), *Sporobolus actinocladius* (8%), *Sporobolus australasicus* (8%), *Sporobolus scabridus* (1, 8%), *Themeda avenacea* (8%), *Urochloa piligera* (8%)

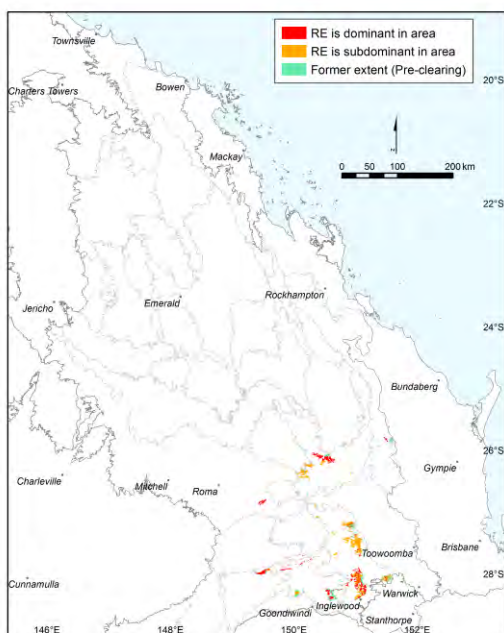
FORBS: *Evolvulus alsinoides* (1, 33%), *Phyllanthus virgatus* (33%), *Glycine tomentella* (25%), *Grewia latifolia* (25%), *Spermacoce* *indet.* (25%), *Trianthema triquetra* (25%), *Waltheria indica* (25%), *Capparis lasiantha* (1, 17%), *Denhamia cunninghamii* (17%), *Euphorbia hyssopifolia*\* (17%), *Malvastrum americanum* var. *americanum*\* (3, 17%), *Melhania oblongifolia* (17%), *Portulaca oleracea*\* (17%), *Pseuderanthemum variabile* (1, 17%), *Rhynchosia minima* (1, 17%), *Sauropus trachyspermus* (17%), *Sida atherophora* (1, 17%), *Sida hackettiana* (3, 17%), *Sida* *indet.* (1, 17%), *Zornia muelleriana* subsp. *muelleriana* (17%), *Abutilon subviscosum* (8%), *Acacia laccata* (8%), *Achyranthes aspera* (1, 8%), *Alternanthera angustifolia* (8%), *Alternanthera nana* (8%), *Apowollastonia spilanthis* (8%), *Blumea saxatilis* (8%), *Boerhavia* sp. (St George A.Hill AQ399299) (8%), *Buchnera linearis* (8%), *Cassytha pubescens* (8%), *Chamaecrista absus* var. *absus* (8%), *Chrysocephalum apiculatum* (8%), *Cyanthillium cinereum* (8%), *Desmodium campylocaulon* (8%), *Desmodium macrocarpum* (8%), *Dianella longifolia* (8%), *Dipteracanthus australasicus* subsp. *australasicus* (8%), *Dysphania carinata* (8%), *Ehretia membranifolia* (8%), *Einadia nutans* subsp. *nutans* (8%), *Enchylaena tomentosa* (8%), *Euphorbia crassimarginata* (8%), *Euphorbia* *indet.* (8%), *Euphorbia tannensis* subsp. *eremophila* (8%), *Galactia tenuiflora* (1, 8%), *Glycine latifolia* (8%), *Gomphrena celosioides*\* (8%), *Gomphrena* *indet.* (8%), *Goodenia glabra* (8%), *Grewia retusifolia* (8%), *Harrisia martinii*\* (8%), *Heliotropium peninsulare* (8%), *Hibiscus burtonii* (8%), *Indigofera colutea* (8%), *Jacquemontia paniculata* (1, 8%), *Jasminum didymum* subsp. *racemosum* (8%), *Marsdenia viridiflora* subsp. *viridiflora* (8%), *Marsilea hirsuta* (8%), *Melaleuca nervosa* (8%), *Oldenlandia mitrasacmoides* subsp. *trachymenoides* (8%), *Pandorea pandorana* (8%), *Parsonsia* *indet.* (8%), *Phyllanthus fuernrohrii* (8%), *Pluchea rubelliflora* (8%), *Polygala triflora* (8%), *Pterocaulon* *indet.* (8%), *Pterocaulon redolens* (1, 8%), *Rostellularia adscendens* (8%), *Ruellia tuberosa*\* (8%), *Sida brachypoda* (1, 8%), *Sida rohlena* (1, 8%), *Sida* sp. (Musselbrook M.B.Thomas+MRS437) (1, 8%), *Spermacoce brachystema* (8%), *Streptoglossa adscendens* (8%), *Stylidium eriorhizum* (8%), *Stylosanthes scabra*\* (8%), *Tephrosia leptoclada* (8%), *Vittadinia sulcata* (8%), *Wahlenbergia graniticola* (8%), *Zornia muriculata* (8%), *Zornia muriculata* subsp. *angustata* (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

**Eucalyptus chloroclada, Callitris glaucophylla, C. endlicheri, Angophora leiocarpa woodland on Cainozoic sand plains and/or remnant surfaces**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 123,282 92,474 75%

Species\_recorded: Total: 179; woody: 31; ground: 161; Avg. spp./site: 32.7; std dev.: 11.9, 7 site(s)

Basal area: Avg./site: 14.8 m<sup>2</sup>/ha, range: 9.0 - 23 m<sup>2</sup>/ha, std. deviation: 5 m<sup>2</sup>/ha, 11 site(s)

Structural formation: Woodland: 64%; open-woodland: 27%; open-forest: 9%, 11 site(s)

Representative\_sites 16637, 16660, 16754, 16934, 16938, 16940, 16944, 16960, 24587, 28738, 28748.

**Stratum: Emergent**

Height avg. = 26.0m, 1 site

Crown cover avg. = 1.0%, 1 site

Frequent species (cover, frequency): *Corymbia clarksoniana* (1, 9%)

**Stratum: Tree 1**

Height avg. = 20.8m, range 16-25m, 11 sites

Crown cover avg. = 30.9%, range 7.0-58.0%, 11 sites

Dominant species (relative cover, frequency): *Angophora leiocarpa* (71, 45%), *Callitris glaucophylla* (59, 64%), *Eucalyptus chloroclada* (45, 36%)

Frequent species (cover, frequency): *Callitris glaucophylla* (17, 64%), *Angophora leiocarpa* (29, 45%), *Eucalyptus chloroclada* (6, 36%), *Eucalyptus crebra* (10, 18%), *Allocasuarina luehmannii* (9%), *Corymbia clarksoniana* (9%), *Corymbia tessellaris* (7, 9%), *Eucalyptus populnea* (2, 9%), *Lysicarpus angustifolius* (8, 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. = 12.3m, range 8.5-18m, 11 sites

Crown cover avg. = 21.8%, range 3.0-50.0%, 11 sites

*Dominant species (relative cover, frequency): Callitris glaucophylla (50, 91%), Angophora leiocarpa (42, 27%), Eucalyptus chloroclada (31, 55%), Allocasuarina luehmannii (24, 45%)*

*Frequent species (cover, frequency): Callitris glaucophylla (12, 91%), Eucalyptus chloroclada (4, 55%), Allocasuarina luehmannii (6, 45%), Angophora leiocarpa (8, 27%), Eucalyptus crebra (2, 18%), Lysicarpus angustifolius (5, 18%), Xylomelum cunninghamianum (1, 18%), Acacia burrowii (9%), Acacia leiocalyx subsp. leiocalyx (5, 9%), Acacia neriifolia (2, 9%), Allocasuarina inophloia (6, 9%), Alphitonia excelsa (5, 9%), Amyema congener (9%), Corymbia tessellaris (5, 9%), Geijera parviflora (9%), Melaleuca decora (9%)*

**Stratum: Tree 3**

Height avg. = 6.0m, range 5-7m, 4 sites

Crown cover avg. = 11.0%, range 2.0-20.0%, 4 sites

*Dominant species (relative cover, frequency): Callitris glaucophylla (66, 27%), Allocasuarina luehmannii (14, 27%), Eucalyptus chloroclada (11, 36%)*

*Frequent species (cover, frequency): Eucalyptus chloroclada (1, 36%), Allocasuarina luehmannii (2, 27%), Callitris glaucophylla (7, 27%), Angophora leiocarpa (1, 9%), Calytrix tetragona (2, 9%), Geijera parviflora (5, 9%), Lysicarpus angustifolius (9%), Santalum lanceolatum (9%), Xylomelum cunninghamianum (5, 9%)*

**Stratum: Shrub 1**

Height avg. = 2.5m, range 1.2-4m, 9 sites

Crown cover avg. = 12.6%, range 0.0-40.0%, 9 sites

*Dominant species (relative cover, frequency): Callitris glaucophylla (56, 55%), Allocasuarina luehmannii (30, 27%)*

*Frequent species (cover, frequency): Callitris glaucophylla (5, 55%), Allocasuarina luehmannii (12, 27%), Geijera parviflora (1, 18%), Lysicarpus angustifolius (1, 18%), Xylomelum cunninghamianum (4, 18%), Acacia conferta (2, 9%), Acacia leiocalyx subsp. leiocalyx (5, 9%), Acacia loroloba (9%), Acacia neriifolia (4, 9%), Acacia wardellii (9%), Allocasuarina inophloia (2, 9%), Angophora leiocarpa (9%), Bossiaea brownii (14, 9%), Calytrix tetragona (3, 9%), Eremophila deserti (1, 9%), Eucalyptus chloroclada (9%), Eucalyptus crebra (9%), Jacksonia scoparia (1, 9%), Leucopogon biflorus (4, 9%), Leucopogon indet. (1, 9%), Leucopogon muticus (1, 9%), Petalostigma pubescens (1, 9%)*

**Stratum: Shrub 2**

Height avg. = 1.7m, range 1.5-1.8m, 2 sites

Crown cover avg. = 25.0%, range 5.0-45.0%, 2 sites

*Frequent species (cover, frequency): Jacksonia scoparia (3, 18%), Leucopogon muticus (1, 18%), Acacia conferta (1, 9%), Angophora leiocarpa (1, 9%), Callitris glaucophylla (3, 9%), Eucalyptus chloroclada (4, 9%), Leptospermum polygalifolium (36, 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



**Stratum: Ground**

Height avg. = 0.6m, range 0.25-1m, 7 sites

PFC avg. = 25.6%, range 2-70%, 7 sites

*Dominant species (relative cover, frequency):* *Aristida caput-medusae* (27, 71%), *Aristida ramosa* (24, 57%), *Gahnia aspera* (22, 43%), *Eragrostis elongata* (8, 43%), *Ancistrachne uncinulata* (8, 29%)

*Frequent species (cover, frequency):* GRAMINOIDS: *Aristida caput-medusae* (15, 71%), *Aristida ramosa* (2, 57%), *Cymbopogon refractus* (2, 43%), *Eragrostis elongata* (4, 43%), *Eragrostis lacunaria* (3, 43%), *Fimbristylis dichotoma* (43%), *Gahnia aspera* (3, 43%), *Panicum effusum* (43%), *Ancistrachne uncinulata* (8, 29%), *Cyperus leiocaulon* (1, 29%), *Digitaria breviglumis* (29%), *Digitaria diffusa* (1, 29%), *Eragrostis sororia* (29%), *Paspalidium distans* (2, 29%), *Setaria surgens* (1, 29%), *Themeda triandra* (29%), *Aristida benthamii* var. *benthamii* (14%), *Aristida calycina* (1, 14%), *Aristida holathera* var. *holathera* (14%), *Aristida* indet. (2, 14%), *Aristida lignosa* (14%), *Aristida personata* (1, 14%), *Aristida queenslandica* var. *dissimilis* (14%), *Aristida vagans* (5, 14%), *Arundinella nepalensis* (4, 14%), *Austrostipa verticillata* (1, 14%), *Calyptrichloa gracillima* subsp. *gracillima* (11, 14%), *Cenchrus spinifex*\* (1, 14%), *Chrysopogon fallax* (14%), *Cyperus betchei* (1, 14%), *Cyperus bowmannii* (1, 14%), *Cyperus fulvus* (14%), *Cyperus* indet. (14%), *Dactyloctenium radulans* (1, 14%), *Dinebra decipiens* (14%), *Enneapogon intermedius* (14%), *Enteropogon acicularis* (1, 14%), *Entolasia stricta* (1, 14%), *Eragrostis* indet. (1, 14%), *Eriachne pallescens* (14%), *Eulalia aurea* (3, 14%), *Lepidosperma laterale* (14%), *Leptochloa* indet. (1, 14%), *Megathyrsus maximus*\* (14%), *Melinis repens*\* (14%), *Panicum simile* (14%), *Paspalidium caespitosum* (7, 14%), *Sporobolus creber* (14%), *Sporobolus elongatus* (14%), *Sporobolus* indet. (1, 14%), *Thyridolepis mitchelliana* (14%), *Triodia mitchellii* (2, 14%), *Urochloa foliosa* (1, 14%)

FORBS: *Cyanthillium cinereum* (43%), *Dianella revoluta* (43%), *Evolvulus alsinoides* (43%), *Laxmannia gracilis* (43%), *Lomandra filiformis* (43%), *Phyllanthus virgatus* (43%), *Cheilanthes sieberi* (29%), *Chrysocephalum apiculatum* (29%), *Commelina diffusa* (1, 29%), *Glandularia aristigera*\* (1, 29%), *Glycine clandestina* (1, 29%), *Hibbertia* indet. (29%), *Hibiscus sturtii* (29%), *Lomandra leucocephala* (29%), *Lomandra leucocephala* subsp. *leucocephala* (1, 29%), *Lomandra multiflora* subsp. *multiflora* (1, 29%), *Melichrus urceolatus* (29%), *Opuntia stricta*\* (29%), *Opuntia tomentosa*\* (29%), *Oxalis corniculata*\* (1, 29%), *Pomax umbellata* (1, 29%), *Solanum nemophilum* (29%), *Solanum parvifolium* (1, 29%), *Sphaeromorphaea* indet. (1, 29%), *Acacia leiocalyx* subsp. *leiocalyx* (14%), *Acacia polybotrya* (1, 14%), *Agiortia pleiosperma* (1, 14%), *Alternanthera denticulata* (1, 14%), *Alternanthera nana* (1, 14%), *Angophora leiocarpa* (14%), *Blumea* indet. (14%), *Boronia bipinnata* (14%), *Bossiaea brownii* (3, 14%), *Brachyscome microcarpa* (1, 14%), *Brachyscome multifida* (14%), *Breynia oblongifolia* (14%), *Brunoniella australis* (14%), *Calotis cuneifolia* (1, 14%), *Calotis dentex* (14%), *Cheilanthes sieberi* subsp. *sieberi* (14%), *Coronidium rupicola* (14%), *Desmodium macrocarpum* (14%), *Dianella longifolia* (14%), *Dianella longifolia* var. *longifolia* (14%), *Dysphania carinata* (1, 14%), *Einadia hastata* (14%), *Erigeron bonariensis*\* (1, 14%), *Eucalyptus chloroclada* (14%), *Euphorbia dallachyana* (1, 14%), *Everistia vacciniifolia* (14%), *Geijera parviflora* (14%), *Glossocardia bidens* (1, 14%), *Goodenia glabra* (14%), *Goodenia glauca* (14%), *Grewia latifolia* (14%), *Hibbertia linearis* var. *obtusifolia* (14%), *Hibiscus sturtii* var. *sturtii* (1, 14%), *Hypoxis pratensis* var. *tuberculata* (1, 14%), *Leptospermum lamellatum* (14%), *Leucopogon biflorus* (14%), *Leucopogon muticus* (14%), *Lomandra confertifolia* subsp. *pallida* (1, 14%), *Lomandra longifolia* (1, 14%), *Lysiana exocarpi* subsp. *tenuis* (14%), *Oldenlandia mitrasacmoides* (1, 14%), *Orchidaceae* indet. (14%), *Oxalis perennans* (14%), *Persoonia sericea* (14%), *Petalostigma pubescens* (14%), *Pimelea neoanglica* (1, 14%), *Portulaca oleracea*\* (1, 14%), *Pseuderanthemum variabile* (14%), *Psydrax oleifolia* (14%), *Sida cordifolia*\* (14%), *Sida fibulifera* (1, 14%), *Sida hackettiana* (14%), *Solanum ellipticum* (1, 14%), *Sonchus oleraceus*\* (14%), *Stylidium eglanulosum* (1, 14%)

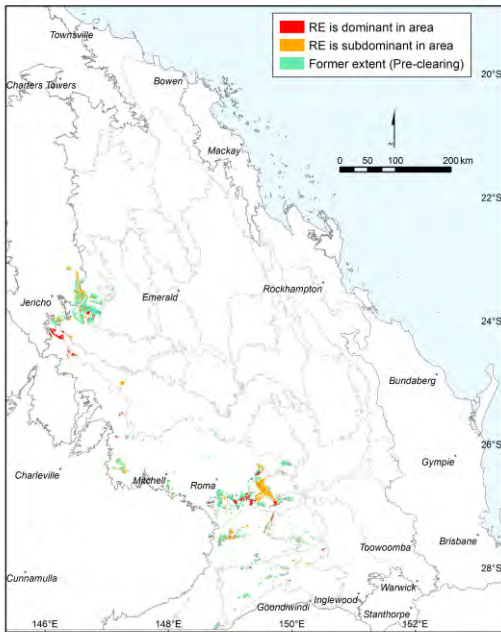
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**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with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

**Eucalyptus melanophloia, Callitris glaucophylla woodland on Cainozoic sand plains and/or remnant surfaces. Deep red sands**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 332,924 114,404 34%

Species\_recorded: Total: 32; woody: 20; ground: 12; Avg. spp./site: 27.0; std dev.: 0.0, 1 site(s)

Basal area: Avg./site: 8.5 m<sup>2</sup>/ha, range: 8.5 - 9 m<sup>2</sup>/ha, std. deviation: 0 m<sup>2</sup>/ha, 1 site(s)

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

Representative\_sites 2115, 2306.

**Stratum: Tree 1**

Height avg. = 23.0m, range 20-26m, 2 sites

Crown cover avg. = 5.6%, range 5.0-6.1%, 2 sites

Dominant species (relative cover, frequency): *Corymbia dallachiana* (71, 50%), *Eucalyptus melanophloia* (55, 100%), *Archidendropsis basaltica* (14, 50%), *Corymbia clarksoniana* (4, 50%), *Callitris glaucophylla* (, 50%)

Frequent species (cover, frequency): *Eucalyptus melanophloia* (3, 100%), *Archidendropsis basaltica* (1, 50%), *Callitris glaucophylla* (50%), *Corymbia clarksoniana* (50%), *Corymbia dallachiana* (3, 50%)

**Stratum: Tree 2**

Height avg. = 8.0m, range 7-9m, 2 sites

Crown cover avg. = 10.1%, range 6.1-14.0%, 2 sites

Dominant species (relative cover, frequency): *Acacia excelsa* (54, 50%), *Callitris glaucophylla* (46, 100%), *Petalostigma pubescens* (17, 100%), *Hakea lorea* (7, 50%), *Atalaya hemiglauca* (7, 50%)

Frequent species (cover, frequency): *Callitris glaucophylla* (5, 100%), *Petalostigma pubescens* (2, 100%), *Acacia excelsa* (2, 50%), *Alectryon oleifolius* (50%), *Atalaya hemiglauca* (50%), *Eremophila mitchellii* (50%), *Hakea lorea* (50%)

**Stratum: Tree 3**

Height avg. = 3.5m, 1 site

Crown cover avg. = 6.1%, 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

## Technical Description

Regional ecosystem: 11.5.5

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### Stratum: Shrub 1

Height avg. = 1.5m, range 1-2m, 2 sites

Crown cover avg. = 6.9%, range 0.0-13.8%, 2 sites

*Dominant species (relative cover, frequency):* *Carissa lanceolata* (72, 50%), *Archidendropsis basaltica* (67, 50%), *Alectryon oleifolius* (33, 50%), *Geijera parviflora* (7, 50%), *Erythroxylum australe* (7, 50%)

*Frequent species (cover, frequency):* *Alectryon oleifolius* (50%), *Archidendropsis basaltica* (50%), *Bursaria incana* (1, 50%), *Capparis lasiantha* (1, 50%), *Carissa lanceolata* (6, 50%), *Erythroxylum australe* (1, 50%), *Geijera parviflora* (1, 50%), *Pandorea pandorana* (50%), *Solanum parvifolium* (50%)

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### Stratum: Shrub 2

Height avg. = 0.6m, 1 site

Crown cover avg. = 0.0%, 1 site

*Dominant species (relative cover, frequency):* *Carissa ovata* (60, 50%), *Geijera parviflora* (20, 50%), *Denhamia oleaster* (20, 50%)

*Frequent species (cover, frequency):* *Carissa ovata* (50%), *Denhamia oleaster* (50%), *Geijera parviflora* (50%)

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### Stratum: Ground

Height avg. = 0.5m, 1 site

PFC avg. = 6.0%, 1 site

*Dominant species (relative cover, frequency):* *Hibiscus sturtii* (19, 100%), *Eriachne mucronata* (19, 100%), *Brunoniella australis* (19, 100%), *Eragrostis lacunaria* (9, 100%), *Enneapogon lindleyanus* (9, 100%)

*Frequent species (cover, frequency):* GRAMINOIDS: *Ancistrachne uncinulata* (100%), *Aristida jerichoensis* (1, 100%), *Chrysopogon fallax* (1, 100%), *Enneapogon lindleyanus* (1, 100%), *Eragrostis lacunaria* (1, 100%), *Eriachne mucronata* (1, 100%), *Themeda triandra* (100%)

FORBS: *Brunoniella australis* (1, 100%), *Hibiscus sturtii* (1, 100%), *Parsonsia eucalyptophylla* (100%)

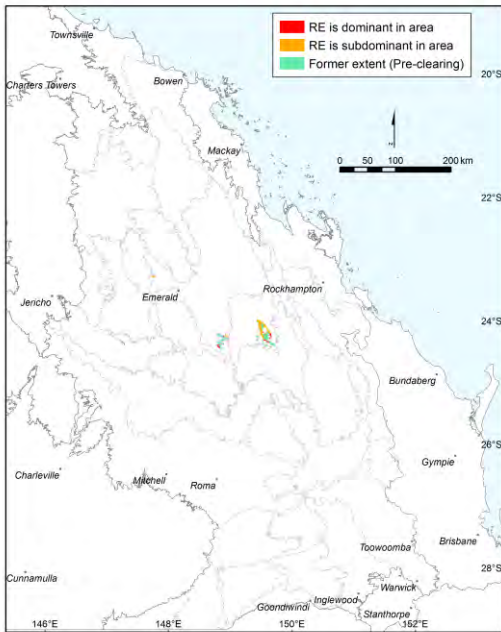
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**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with 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 melanophloia +/- Callitris glaucophylla +/- E. populnea woodland that occur in northern parts of the bioregion**



**Pre-clearing area (ha), remnant area (ha) and per cent remaining: 37,721 13,894 37%**

**Species\_recorded: Total: 60; woody: 10; ground: 50; Avg. spp./site: 42.0; std dev.: 0.0, 1 site(s)**

**Basal area: Avg./site: 19.0 m<sup>2</sup>/ha, range: 19.0 - 19 m<sup>2</sup>/ha, std. deviation: 0 m<sup>2</sup>/ha, 2 site(s)**

**Structural formation: Woodland: 50%; open-woodland: 50%, 2 site(s)**

**Representative\_sites 16717, 17387.**

**Stratum: Tree 1**

**Height avg. = 14.5m, range 14-15m, 2 sites**

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

*Dominant species (relative cover, frequency): Eucalyptus populnea (80, 50%), Eucalyptus melanophloia (60, 50%), Callitris glaucophylla (20, 50%), Corymbia intermedia (20, 50%), Angophora leiocarpa (20, 50%)*

*Frequent species (cover, frequency): Angophora leiocarpa (5, 50%), Callitris glaucophylla (1, 50%), Corymbia intermedia (5, 50%), Dendrophthoe glabrescens (50%), Eucalyptus melanophloia (15, 50%), Eucalyptus populnea (4, 50%)*

**Stratum: Tree 2**

**Height avg. = 9.0m, 1 site**

**Crown cover avg. = 16.0%, 1 site**

*Dominant species (relative cover, frequency): Callitris glaucophylla (93, 50%), Eucalyptus populnea (7, 50%), Allocasuarina luehmannii (1, 50%)*

*Frequent species (cover, frequency): Allocasuarina luehmannii (50%), Callitris glaucophylla (14, 50%), Eucalyptus populnea (1, 50%)*

**Stratum: Tree 3**

**Height avg. = 3.0m, 1 site**

**Crown cover avg. = 13.0%, 1 site**

*Dominant species (relative cover, frequency): Allocasuarina luehmannii (76, 50%), Eucalyptus populnea (8, 50%), Dodonaea viscosa (8, 50%), Alectryon oleifolius subsp. elongatus (8, 50%), Callitris glaucophylla (1, 50%)*

*Frequent species (cover, frequency): Alectryon oleifolius subsp. elongatus (1, 50%), Allocasuarina luehmannii (10, 50%), Callitris glaucophylla (50%), Dodonaea viscosa (1, 50%), Eucalyptus populnea (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. = 2.0m, 1 site

Crown cover avg. = 1.0%, 1 site

Dominant species (relative cover, frequency): *Dodonaea viscosa* (91, 50%), *Geijera parviflora* (9, 50%)

Frequent species (cover, frequency): *Dodonaea viscosa* (1, 50%), *Geijera parviflora* (50%)

**Stratum: Ground**

Height avg. = 0.7m, 1 site

PFC avg. = 40.0%, 1 site

Dominant species (relative cover, frequency): *Aristida ramosa* (15, 100%), *Chloris ventricosa* (15, 100%), *Panicum effusum* (15, 100%), *Eragrostis alveiformis* (6, 100%), *Cymbopogon refractus* (6, 100%)

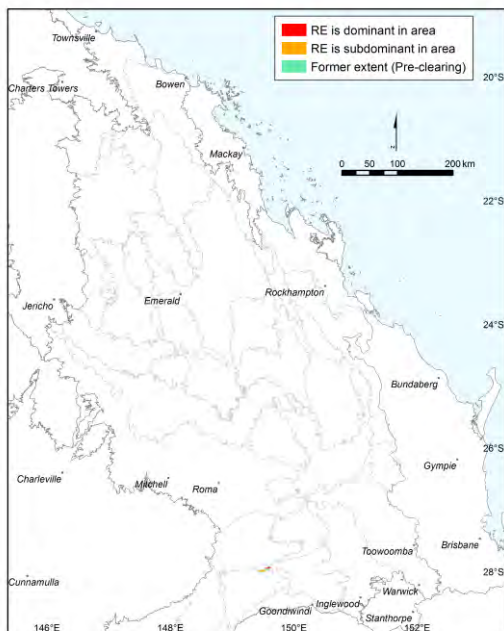
Frequent species (cover, frequency): GRAMINOIDS: *Aristida caput-medusae* (1, 100%), *Aristida ramosa* (5, 100%), *Bothriochloa decipiens* (1, 100%), *Chloris ventricosa* (5, 100%), *Chrysopogon fallax* (1, 100%), *Cymbopogon refractus* (2, 100%), *Cyperus gracilis* (100%), *Digitaria brownii* (1, 100%), *Enneapogon avenaceus* (1, 100%), *Enneapogon polyphyllus* (1, 100%), *Enteropogon acicularis* (100%), *Enteropogon indet.* (1, 100%), *Eragrostis alveiformis* (2, 100%), *Eragrostis leptostachya* (2, 100%), *Eragrostis sororia* (100%), *Eulalia aurea* (1, 100%), *Fimbristylis dichotoma* (1, 100%), *Panicum effusum* (5, 100%), *Paspalidium aversum* (100%), *Paspalidium gracile* (1, 100%), *Themeda triandra* (100%)  
FORBS: *Alternanthera nodiflora* (100%), *Brunoniella australis* (100%), *Cheilanthes sieberi subsp. sieberi* (100%), *Chrysocephalum apiculatum* (100%), *Desmodium varians* (100%), *Enchylaena tomentosa* (100%), *Jasminum didymum* (100%), *Laxmannia gracilis* (100%), *Lomandra multiflora subsp. multiflora* (100%), *Melichrus urceolatus* (100%), *Nyssanthes erecta* (1, 100%), *Opuntia stricta\** (100%), *Pimelea neoanglica* (100%), *Sida hackettiana* (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

Triodia spp. grassland on Cainozoic sand plains and/or remnant surfaces



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 3,255 2,742 84%

Species\_recorded: Total: 20; woody: 12; ground: 8; Avg. spp./site: 20.0; std dev.: 0.0, 1 site(s)

Basal area: Avg./site: 1.0 m<sup>2</sup>/ha, range: 1.0 - 1 m<sup>2</sup>/ha, std. deviation: 0 m<sup>2</sup>/ha, 1 site(s)

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

Representative\_sites 19164.

**Stratum: Tree 1**

Height avg. = 15.0m, 1 site

Crown cover avg. = 1.0%, 1 site

Dominant species (relative cover, frequency): *Corymbia clarksoniana* (71, 100%), *Eucalyptus crebra* (14, 100%), *Corymbia dallachiana* (14, 100%)

Frequent species (cover, frequency): *Corymbia clarksoniana* (1, 100%), *Corymbia dallachiana* (100%), *Eucalyptus crebra* (100%)

**Stratum: Shrub 1**

Height avg. = 1.0m, 1 site

Crown cover avg. = 1.0%, 1 site

Dominant species (relative cover, frequency): *Grewia latifolia* (13, 100%), *Erythroxylum australe* (13, 100%), *Eremophila mitchellii* (13, 100%), *Alphitonia excelsa* (13, 100%), *Acacia shirleyi* (13, 100%)

Frequent species (cover, frequency): *Acacia sericophylla* (100%), *Acacia shirleyi* (100%), *Alphitonia excelsa* (100%), *Ehretia membranifolia* (100%), *Eremophila mitchellii* (100%), *Erythroxylum australe* (100%), *Grewia latifolia* (100%), *Seringia nephrosperma* (100%), *Terminalia aridicola subsp. aridicola* (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. = 25.0%, 1 site**

*Dominant species (relative cover, frequency):* *Triodia mitchellii* (32, 100%), *Sida trichopoda* (16, 100%), *Eriachne mucronata forma (Alpha C.E.Hubbard 7882)* (16, 100%), *Enneapogon polyphyllus* (16, 100%), *Aristida holathera var. holathera* (16, 100%)

*Frequent species (cover, frequency):* GRAMINOIDS: *Aristida holathera var. holathera* (1, 100%), *Cenchrus ciliaris\** (100%), *Enneapogon polyphyllus* (1, 100%), *Eriachne mucronata forma (Alpha C.E.Hubbard 7882)* (1, 100%), *Paspalidium constrictum* (100%), *Themeda triandra* (100%), *Triodia mitchellii* (2, 100%)

*FORBS:* *Sida trichopoda* (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 acmenoides, Angophora leiocarpa open forest on Cainozoic sand plains and/or remnants**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 32,120 29,422 92%

Species\_recorded: Total: 38; woody: 11; ground: 27; Average species per site and standard deviation not available

Basal area: Avg./site: 17.0 m<sup>2</sup>/ha, range: 13.0 - 21 m<sup>2</sup>/ha, std. deviation: 4 m<sup>2</sup>/ha, 2 site(s)

Structural formation: Woodland: 100%, 2 site(s)

Representative\_sites 17455, 17456.

**Stratum: Tree 1**

Height avg. = 19.0m, range 18-20m, 2 sites

Crown cover avg. = 36.8%, range 25.0-48.5%, 2 sites

Dominant species (relative cover, frequency): *Eucalyptus longirostrata* (60, 50%), *Corymbia intermedia* (55, 50%), *Eucalyptus acmenoides* (20, 100%), *Angophora leiocarpa* (16, 100%), *Lophostemon suaveolens* (12, 50%)

Frequent species (cover, frequency): *Angophora leiocarpa* (8, 100%), *Eucalyptus acmenoides* (5, 100%), *Corymbia intermedia* (27, 50%), *Eucalyptus longirostrata* (15, 50%), *Lophostemon suaveolens* (6, 50%)

**Stratum: Tree 2**

Height avg. = 6.0m, range 4-8m, 2 sites

Crown cover avg. = 17.5%, range 5.0-30.0%, 2 sites

Dominant species (relative cover, frequency): *Allocasuarina luehmannii* (100, 50%), *Petalostigma pubescens* (48, 50%), *Lysicarpus angustifolius* (48, 50%), *Alphitonia excelsa* (3, 50%)

Frequent species (cover, frequency): *Allocasuarina luehmannii* (5, 50%), *Alphitonia excelsa* (1, 50%), *Lysicarpus angustifolius* (15, 50%), *Petalostigma pubescens* (15, 50%)

**Stratum: Shrub 1**

Height avg. = 1.7m, range 1.5-1.8m, 2 sites

Crown cover avg. = 3.1%, range 0.0-6.1%, 2 sites

Dominant species (relative cover, frequency): *Acacia leiocalyx subsp. leiocalyx* (100, 50%), *Acacia indet.* (50, 50%), *Alphitonia excelsa* (25, 100%)

Frequent species (cover, frequency): *Alphitonia excelsa* (100%), *Acacia indet.* (50%), *Acacia leiocalyx subsp. leiocalyx* (6, 50%)

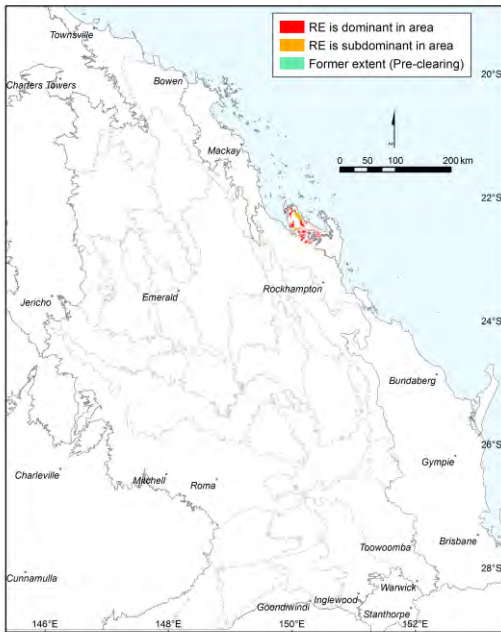
Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive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



**Melaleuca spp., Eucalyptus crebra, Corymbia intermedia woodland on Cainozoic sand plains and/or remnant surfaces**



Annie Kelly

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 45,870 38,871 85%

Species\_recorded: Total: 73; woody: 9; ground: 65; Avg. spp./site: 45.5; std dev.: 2.5, 2 site(s)

Basal area: Avg./site: 12.0 m<sup>2</sup>/ha, range: 10.0 - 14 m<sup>2</sup>/ha, std. deviation: 2 m<sup>2</sup>/ha, 2 site(s)

Structural formation: Open-woodland: 50%; low woodland: 50%, 2 site(s)

Representative\_sites 40883, 40913.

**Stratum: Emergent**

Height avg. = 19.5m, range 19-20m, 2 sites

Crown cover avg. = 15.5%, range 4.0-27.0%, 2 sites

Dominant species (relative cover, frequency): *Corymbia dallachiana* (100, 50%), *Eucalyptus exserta* (100, 50%)

Frequent species (cover, frequency): *Corymbia clarksoniana* (50%), *Corymbia dallachiana* (5, 50%), *Eucalyptus exserta* (27, 50%)

**Stratum: Tree 1**

Height avg. = 10.0m, range 9-11m, 2 sites

Crown cover avg. = 25.0%, range 17.0-33.0%, 2 sites

Dominant species (relative cover, frequency): *Melaleuca viridiflora* (87, 100%), *Allocasuarina littoralis* (25, 50%)

Frequent species (cover, frequency): *Melaleuca viridiflora* (21, 100%), *Allocasuarina littoralis* (9, 50%), *Corymbia clarksoniana* (50%), *Lophostemon suaveolens* (50%)

**Stratum: Shrub 1**

Height avg. = 1.3m, range 1-1.5m, 2 sites

Crown cover avg. = 4.0%, range 0.0-8.0%, 2 sites

Dominant species (relative cover, frequency): *Acacia crassa* (64, 50%), *Melaleuca viridiflora* (34, 100%), *Allocasuarina littoralis* (23, 50%), *Planchonia careya* (11, 50%), *Corymbia dallachiana* (11, 50%)

Frequent species (cover, frequency): *Corymbia clarksoniana* (100%), *Melaleuca viridiflora* (1, 100%), *Acacia crassa* (6, 50%), *Acacia leptocarpa* (50%), *Allocasuarina littoralis* (2, 50%), *Corymbia dallachiana* (50%), *Planchonia careya* (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: Ground**

Height avg. = 0.3m, range 0.3-0.35m, 2 sites

PFC avg. = 77.0%, range 67-87%, 2 sites

*Dominant species (relative cover, frequency): Sacciolepis indica (20, 100%), Haloragis heterophylla (14, 50%), Fuirena ciliaris (9, 100%), Eragrostis brownii (9, 100%), Eremochloa bimaculata (7, 50%)*

*Frequent species (cover, frequency): GRAMINOIDS: Alloteropsis semialata (3, 100%), Eragrostis brownii (6, 100%), Fimbristylis dichotoma (3, 100%), Fuirena ciliaris (5, 100%), Heteropogon contortus (2, 100%), Sacciolepis indica (11, 100%), Scleria tricuspidata (2, 100%), Abildgaardia ovata (50%), Capillipedium spicigerum (50%), Cyperus aquatilis (50%), Cyperus haspan subsp. juncoides (50%), Cyperus indet. (1, 50%), Cyperus polystachyos (50%), Cyperus polystachyos var. polystachyos (50%), Dichanthium aristatum\* (50%), Digitaria brownii (50%), Eremochloa bimaculata (5, 50%), Eriachne trisetata (4, 50%), Eulalia trispicata (50%), Fimbristylis acicularis (3, 50%), Fimbristylis cinnamometorum (50%), Fimbristylis furva (2, 50%), Fimbristylis microcarya (50%), Ischaemum fragile (3, 50%), Panicum effusum (50%), Paspalidium distans (50%), Paspalum scrobiculatum (50%), Schizachyrium pseudeulalia (50%), Scleria pygmaea (4, 50%), Sporobolus jacquemontii\* (50%)  
FORBS: Desmodium trichostachyum (1, 100%), Emilia sonchifolia\* (1, 100%), Hypericum gramineum (100%), Lindernia crustacea (1, 100%), Murdannia graminea (1, 100%), Oldenlandia galioides (100%), Philydrum lanuginosum (100%), Spermacoce brachystema (100%), Xyris complanata (1, 100%), Alphitonia excelsa (50%), Blumea saxatilis (50%), Brachyscome microcarpa subsp. microcarpa (50%), Brunoniella acaulis (50%), Cartonema brachyantherum (50%), Centella asiatica (50%), Chamaecrista mimosoides (50%), Crotalaria montana (50%), Drosera serpens (50%), Drosera spatulata (50%), Eriocaulon nanum (50%), Gonocarpus chinensis subsp. verrucosus (1, 50%), Haloragis heterophylla (6, 50%), Hypoxis pratensis var. pratensis (50%), Iphigenia indica (50%), Lobelia quadrangularis (2, 50%), Ludwigia octovalvis (50%), Mecardonia procumbens\* (50%), Melaleuca viridiflora (2, 50%), Phyllanthus virgatus (50%), Pterocaulon indet. (50%), Rotala indet. (50%), Sida rhombifolia\* (50%), Stylosanthes guianensis\* (50%), Stylosanthes scabra\* (50%), Utricularia caerulea (50%)*

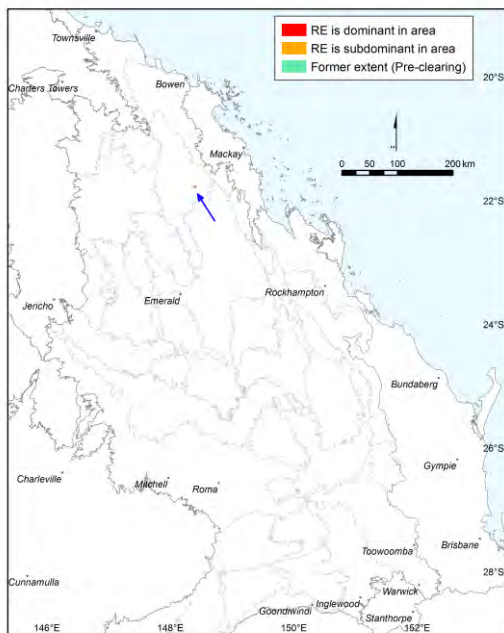
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Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 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 platyphylla woodland on white-yellow weathered sands, with grassy ground layer**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 1,666 1,247 75%

Species\_recorded: Total: 60; woody: 12; ground: 50; Avg. spp./site: 32.0; std dev.: 4.0, 2 site(s)

Basal area: Avg./site: 7.5 m<sup>2</sup>/ha, range: 6.0 - 9 m<sup>2</sup>/ha, std. deviation: 2 m<sup>2</sup>/ha, 2 site(s)

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

Representative\_sites 19191, 19239.

**Stratum: Tree 1**

Height avg. = 11.5m, range 10-13m, 2 sites

Crown cover avg. = 9.5%, range 9.0-10.0%, 2 sites

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

Frequent species (cover, frequency): *Eucalyptus platyphylla* (10, 100%)

**Stratum: Shrub 1**

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

Crown cover avg. = 3.5%, range 2.0-5.0%, 2 sites

Dominant species (relative cover, frequency): *Sida rhombifolia*\* (35, 50%), *Eucalyptus platyphylla* (31, 100%), *Sida hackettiana* (26, 100%), *Corymbia dallachiana* (14, 50%), *Archidendropsis basaltica* (14, 50%)

Frequent species (cover, frequency): *Eucalyptus platyphylla* (1, 100%), *Grewia latifolia* (100%), *Sida hackettiana* (1, 100%), *Acacia holosericea* (50%), *Acacia salicina* (50%), *Archidendropsis basaltica* (1, 50%), *Cassia brewsteri* (50%), *Corymbia dallachiana* (50%), *Eremophila bignoniiflora* (50%), *Grevillea parallela* (50%), *Lantana camara*\* (50%), *Sida rhombifolia*\* (3, 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: Ground**

Height avg. = 0.6m, range 0.5-0.75m, 2 sites

PFC avg. = 70.0%, range 70-70%, 2 sites

*Dominant species (relative cover, frequency): Bothriochloa decipiens var. decipiens (75, 50%), Chrysopogon fallax (42, 50%), Sida rhombifolia\* (42, 50%), Rhynchosia minima (6, 50%), Desmodium indet. (6, 50%)*

*Frequent species (cover, frequency): GRAMINOIDS: Alloteropsis semialata (3, 50%), Aristida calycina (1, 50%), Aristida personata (1, 50%), Bothriochloa decipiens var. decipiens (50, 50%), Chrysopogon fallax (25, 50%), Dactyloctenium radulans (50%), Eragrostis lacunaria (1, 50%), Eragrostis leptostachya (50%), Eragrostis sororia (50%), Eriachne mucronata (50%), Fimbristylis dichotoma (1, 50%), Melinis repens\* (50%), Panicum indet. (50%), Sporobolus elongatus (50%), Urochloa pubigera (1, 50%)*

*FORBS: Pterocaulon redolens (100%), Alternanthera indet. (50%), Apowollastonia spilantheidoides (50%), Brunoniella australis (50%), Calotis cuneifolia (50%), Chrysocephalum apiculatum (50%), Desmodium campylocaulon (50%), Desmodium indet. (4, 50%), Dianella indet. (50%), Emilia sonchifolia var. javanica\* (50%), Evolvulus alsinoides (50%), Flemingia parviflora (4, 50%), Galactia tenuiflora (1, 50%), Glycine tomentella (50%), Gomphrena celosioides\* (50%), Indigofera indet. (50%), Leucas lavandulifolia\* (50%), Lobelia quadrangularis (50%), Oxalis indet. (50%), Parsonsia lanceolata (50%), Phyllanthus fuernrohrii (50%), Pseuderanthemum variabile (50%), Rhynchosia minima (4, 50%), Scoparia dulcis\* (50%), Sida hackettiana (1, 50%), Sida indet. (50%), Sida rhombifolia\* (25, 50%), Spermacoce brachystema (50%), Stachytarpheta cayennensis\* (50%), Streptoglossa adscendens (50%), Styliidium eriorhizum (50%), Stylosanthes indet. (50%), Stylosanthes scabra\* (1, 50%), Trianthema triquetra (50%), Zornia muelleriana subsp. muelleriana (50%)*

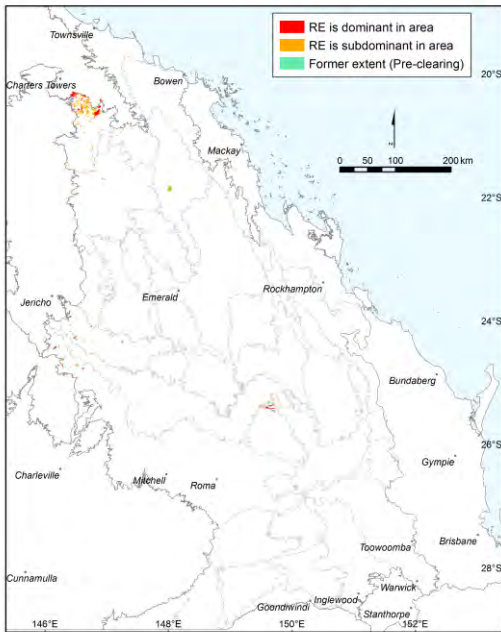
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**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with 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 and other Eucalyptus spp. and Corymbia spp. woodland on Cainozoic sand plains and/or remnant surfaces**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 46,703 40,884 88%

Species\_recorded: Total: 77; woody: 24; ground: 54; Avg. spp./site: 44.0; std dev.: 2.0, 2 site(s)

Basal area: Avg./site: 10.5 m<sup>2</sup>/ha, range: 9.0 - 12 m<sup>2</sup>/ha, std. deviation: 1 m<sup>2</sup>/ha, 3 site(s)

Structural formation: Woodland: 33%; open-woodland: 33%; open-forest: 33%, 3 site(s)

Representative\_sites 16890, 56034, 56054.

**Stratum: Tree 1**

Height avg. = 12.7m, range 0.18-20m, 3 sites

Crown cover avg. = 46.0%, range 15.0-65.0%, 3 sites

Dominant species (relative cover, frequency): *Eucalyptus crebra* (75, 100%), *Corymbia clarksoniana* (37, 67%)

Frequent species (cover, frequency): *Eucalyptus crebra* (31, 100%), *Corymbia clarksoniana* (23, 67%)

**Stratum: Tree 2**

Height avg. = 6.3m, range 5-7.5m, 2 sites

Crown cover avg. = 27.5%, range 9.0-46.0%, 2 sites

Dominant species (relative cover, frequency): *Acacia leptostachya* (50, 33%), *Bursaria incana* (38, 33%), *Eucalyptus crebra* (26, 67%), *Corymbia clarksoniana* (17, 33%), *Petalostigma banksii* (15, 33%)

Frequent species (cover, frequency): *Eucalyptus crebra* (4, 67%), *Petalostigma pubescens* (1, 67%), *Acacia cowleana* (6, 33%), *Acacia leptostachya* (24, 33%), *Alphitonia pomaderroides* (2, 33%), *Antidesma parvifolium* (33%), *Bursaria incana* (4, 33%), *Corymbia clarksoniana* (2, 33%), *Gardenia indet.* (2, 33%), *Geijera salicifolia* (33%), *Grevillea glauca* (33%), *Larsenaikia ochreatea* (33%), *Petalostigma banksii* (7, 33%), *Siphonodon 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

**Stratum: Shrub 1**

Height avg. = 2.5m, range 1.6-4m, 3 sites

Crown cover avg. = 24.0%, range 2.0-60.0%, 3 sites

Dominant species (relative cover, frequency): *Acacia conferta* (100, 33%), *Acacia disparrima* subsp. *calidestris* (91, 33%), *Acacia cowleana* (59, 33%), *Gardenia* indet. (28, 33%), *Petalostigma pubescens* (5, 33%)

Frequent species (cover, frequency): *Erythroxylum australe* (67%), *Acacia conferta* (60, 33%), *Acacia cowleana* (2, 33%), *Acacia disparrima* subsp. *calidestris* (10, 33%), *Acacia holosericea* (33%), *Alphitonia pomaderroides* (33%), *Breynia oblongifolia* (33%), *Coelospermum reticulatum* (33%), *Gardenia* indet. (1, 33%), *Grevillea parallela* (33%), *Petalostigma pubescens* (1, 33%)

**Stratum: Shrub 2**

Height avg. = 0.4m, range 0.3-0.4m, 2 sites

Crown cover avg. = 4.5%, range 1.0-8.0%, 2 sites

Dominant species (relative cover, frequency): *Grewia retusifolia* (52, 67%), *Petalostigma banksii* (29, 33%), *Eucalyptus crebra* (17, 67%), *Petalostigma pubescens* (8, 33%), *Persoonia falcata* (7, 33%)

Frequent species (cover, frequency): *Eucalyptus crebra* (67%), *Grewia retusifolia* (3, 67%), *Acacia leptostachya* (33%), *Alphitonia pomaderroides* (33%), *Breynia oblongifolia* (33%), *Corymbia clarksoniana* (33%), *Gardenia* indet. (33%), *Indigofera australis* (33%), *Persoonia falcata* (33%), *Petalostigma banksii* (3, 33%), *Petalostigma pubescens* (1, 33%)

**Stratum: Ground**

Height avg. = 7.7m, range 0.5-14.8m, 2 sites

PFC avg. = 19.5%, range 18-21%, 2 sites

Dominant species (relative cover, frequency): *Bothriochloa pertusa*\* (41, 100%), *Eremochloa bimaculata* (20, 100%), *Brunoniella acaulis* (12, 50%), *Desmodium brachypodium* (5, 50%), *Aristida holathera* var. *holathera* (5, 50%)

Frequent species (cover, frequency): GRAMINOIDS: *Alloteropsis semialata* (100%), *Aristida calycina* var. *calycina* (1, 100%), *Bothriochloa pertusa*\* (9, 100%), *Chrysopogon fallax* (1, 100%), *Eragrostis spartinoides* (100%), *Eremochloa bimaculata* (4, 100%), *Panicum effusum* (100%), *Ancistrachne uncinulata* (50%), *Aristida holathera* var. *holathera* (1, 50%), *Calyptochloa cylindrosperma* (50%), *Ectrosia* indet. (50%), *Heteropogon contortus* (50%), *Mnesithea formosa* (50%), *Paspalidium* indet. (50%), *Scleria brownii* (50%), *Themeda triandra* (50%)

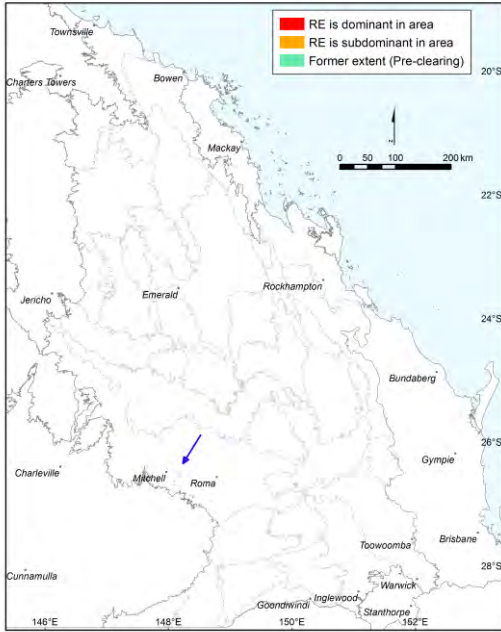
FORBS: *Apowollastonia spilanthoides* (100%), *Crotalaria medicaginea* (100%), *Cyanthillium cinereum* (100%), *Evolvulus alsinoides* (100%), *Glycine tomentella* (100%), *Phyllanthus virgatus* (100%), *Richardia brasiliensis*\* (100%), *Sida magnifica* (100%), *Sida rhombifolia*\* (100%), *Brunoniella acaulis* (2, 50%), *Chamaecrista rotundifolia*\* (50%), *Desmodium brachypodium* (1, 50%), *Desmodium filiforme* (1, 50%), *Heliotropium* indet. (50%), *Larsenaikia ochreatea* (50%), *Lomandra* indet. (1, 50%), *Melhantha oblongifolia* (50%), *Neptunia gracilis* (50%), *Oxalis chnoodes* (50%), *Parsonsia* indet. (50%), *Rostellularia adscendens* (50%), *Sida atherophora* (50%), *Sida corrugata* (1, 50%), *Sida hackettiana* (50%), *Stylosanthes scabra*\* (50%), *Tephrosia filipes* subsp. *filipes* (50%), *Uraria lagopodioides* (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 melanophloia woodland**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 3,340 1,123 34%

Species\_recorded: Total: 27; woody: 6; ground: 23; Avg. spp./site: 27.0; 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: Open-woodland: 100%, 1 site(s)

Representative\_sites 19214.

**Stratum: Tree 1**

Height avg. = 11.0m, 1 site

Crown cover avg. = 15.0%, 1 site

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

Frequent species (cover, frequency): *Eucalyptus melanophloia* (15, 100%)

**Stratum: Shrub 1**

Height avg. = 1.5m, 1 site

Crown cover avg. = 10.0%, 1 site

Dominant species (relative cover, frequency): *Acacia fodinalis* (50, 100%), *Petalostigma pubescens* (10, 100%), *Petalostigma banksii* (10, 100%), *Grevillea sessilis* (10, 100%), *Eucalyptus melanophloia* (10, 100%)

Frequent species (cover, frequency): *Acacia fodinalis* (5, 100%), *Alphitonia excelsa* (1, 100%), *Eucalyptus melanophloia* (1, 100%), *Grevillea sessilis* (1, 100%), *Petalostigma banksii* (1, 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

**Stratum: Ground**

Height avg. = 0.5m, 1 site

PFC avg. = 40.0%, 1 site

*Dominant species (relative cover, frequency):* *Aristida calycina* (63, 100%), *Eriachne mucronata* (13, 100%), *Goodenia glabra* (8, 100%), *Themeda triandra* (6, 100%), *Chrysopogon fallax* (6, 100%)

*Frequent species (cover, frequency): GRAMINOIDS:* *Aristida calycina* (25, 100%), *Chrysopogon fallax* (3, 100%), *Dinebra ligulata* (100%), *Eragrostis lacunaria* (100%), *Eragrostis leptostachya* (100%), *Eriachne mucronata* (5, 100%), *Fimbristylis dichotoma* (100%), *Panicum effusum* (100%), *Themeda triandra* (3, 100%)

*FORBS:* *Acacia fodinalis* (100%), *Cheilanthes sieberi subsp. sieberi* (100%), *Euphorbia indet.* (100%), *Evolvulus alsinoides* (100%), *Goodenia glabra* (3, 100%), *Grevillea sessilis* (100%), *Ipomoea brassii* (100%), *Oldenlandia mitrasacmoides* (100%), *Phyllanthus indet.* (100%), *Sida sp. (Musselbrook M.B.Thomas+ MRS437)* (100%), *Sida trichopoda* (100%), *Streptoglossa adscendens* (100%), *Stylidium eriorhizum* (100%), *Thysanotus tuberosus subsp. tuberosus* (100%)

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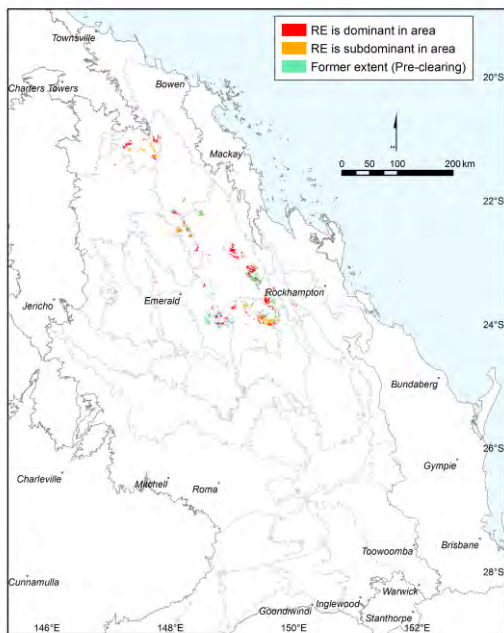
**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum, (only comprehensive 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 crebra, E. tenuipes, Lysicarpus angustifolius +/- Corymbia spp. woodland**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 177,019 101,621 57%

Species\_recorded: Total: 165; woody: 31; ground: 143; Avg. spp./site: 35.0; std dev.: 6.8, 9 site(s)

Basal area: Avg./site: 15.0 m<sup>2</sup>/ha, range: 4.0 - 27 m<sup>2</sup>/ha, std. deviation: 6 m<sup>2</sup>/ha, 14 site(s)

Structural formation: Woodland: 71%; open-woodland: 14%; open-forest: 7%; low open-forest: 7%, 14 site(s)

Representative\_sites 16304, 17196, 17454, 17561, 17562, 17564, 17565, 17668, 17669, 17673, 17676, 17687, 17689, 17690.

**Stratum: Emergent**

Height avg. = 18.0m, range 17-19m, 2 sites

Crown cover avg. = 4.5%, range 4.0-5.0%, 2 sites

Frequent species (cover, frequency): *Brachychiton populneus* (4, 7%), *Eucalyptus crebra* (5, 7%)

**Stratum: Tree 1**

Height avg. = 16.6m, range 9-27m, 14 sites

Crown cover avg. = 31.0%, range 15.0-60.0%, 14 sites

Dominant species (relative cover, frequency): *Eucalyptus tenuipes* (68, 29%), *Lysicarpus angustifolius* (63, 50%), *Eucalyptus crebra* (55, 57%), *Corymbia clarksoniana* (27, 50%)

Frequent species (cover, frequency): *Eucalyptus crebra* (13, 57%), *Corymbia clarksoniana* (7, 50%), *Lysicarpus angustifolius* (25, 50%), *Eucalyptus tenuipes* (22, 29%), *Acacia shirleyi* (3, 14%), *Corymbia dallachiana* (4, 14%), *Alphitonia excelsa* (2, 7%), *Eucalyptus exserta* (2, 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. = 8.0m, range 4-15m, 13 sites

Crown cover avg. = 9.0%, range 3.0-30.0%, 13 sites

*Dominant species (relative cover, frequency): Eucalyptus crebra (52, 21%), Lysicarpus angustifolius (44, 50%), Petalostigma pubescens (31, 64%), Corymbia clarksoniana (31, 21%), Alphitonia excelsa (27, 57%)*

*Frequent species (cover, frequency): Petalostigma pubescens (3, 64%), Alphitonia excelsa (4, 57%), Lysicarpus angustifolius (6, 50%), Corymbia clarksoniana (2, 21%), Eucalyptus crebra (2, 21%), Alstonia constricta (14%), Eucalyptus tenuipes (1, 14%), Acacia aulacocarpa (7%), Brachychiton populneus (2, 7%), Bursaria spinosa subsp. spinosa (2, 7%), Corymbia dallachiana (4, 7%), Geijera parviflora (7%), Pittosporum spinescens (1, 7%), Planchonella cotinifolia var. pubescens (6, 7%)*

**Stratum: Tree 3**

Height avg. = 3.8m, range 3-4m, 4 sites

Crown cover avg. = 4.8%, range 2.0-10.0%, 4 sites

*Dominant species (relative cover, frequency): Alphitonia excelsa (59, 21%), Eucalyptus crebra (12, 21%)*

*Frequent species (cover, frequency): Alphitonia excelsa (4, 21%), Eucalyptus crebra (21%), Bursaria spinosa subsp. spinosa (1, 14%), Acacia aulacocarpa (2, 7%), Acacia indet. (7%), Corymbia clarksoniana (1, 7%), Corymbia dallachiana (1, 7%), Denhamia pittosporoides subsp. pittosporoides (7%), Eremophila deserti (7%), Petalostigma pubescens (7%), Pittosporum spinescens (7%)*

**Stratum: Shrub 1**

Height avg. = 1.6m, range 1-2.5m, 10 sites

Crown cover avg. = 4.6%, range 1.0-15.0%, 10 sites

*Dominant species (relative cover, frequency): Alphitonia excelsa (51, 43%), Lysicarpus angustifolius (37, 36%), Petalostigma pubescens (34, 21%)*

*Frequent species (cover, frequency): Alphitonia excelsa (3, 43%), Lysicarpus angustifolius (2, 36%), Petalostigma pubescens (2, 21%), Acacia leiocalyx subsp. leiocalyx (1, 14%), Bursaria spinosa subsp. spinosa (1, 14%), Acacia bancroftiorum (1, 7%), Acacia julifera (7%), Acacia rhodoxylon (1, 7%), Acacia shirleyi (1, 7%), Corymbia clarksoniana (7%), Corymbia dallachiana (7%), Erythroxylum sp. (Splityard Creek L.Pedley 5360) (1, 7%), Eucalyptus crebra (7%), Everistia vacciniifolia (7%), Persoonia falcata (7%), Pultenaea petiolaris (1, 7%), Sida hackettiana (2, 7%)*

**Stratum: Shrub 2**

Height avg. = 0.7m, range 0.5-1m, 3 sites

Crown cover avg. = 11.7%, range 7.0-20.0%, 3 sites

*Frequent species (cover, frequency): Alphitonia excelsa (8, 14%), Bursaria spinosa subsp. spinosa (7%), Grewia latifolia (1, 7%), Lysicarpus angustifolius (10, 7%), Opuntia stricta\* (7%), Sida hackettiana (1, 7%), Stylosanthes scabra\* (7, 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

**Stratum: Ground**

Height avg. = 0.4m, range 0.15-0.5m, 9 sites

PFC avg. = 68.9%, range 40-85%, 9 sites

*Dominant species (relative cover, frequency):* *Aristida caput-medusae* (31, 67%), *Calypochloa gracillima* subsp. *gracillima* (23, 78%), *Arundinella nepalensis* (21, 33%), *Aristida lignosa* (12, 22%), *Aristida jerichoensis* var. *subspinulifera* (11, 22%)

*Frequent species (cover, frequency):* GRAMINOIDS: *Calypochloa gracillima* subsp. *gracillima* (15, 78%), *Panicum effusum* (4, 78%), *Aristida caput-medusae* (22, 67%), *Themeda triandra* (3, 67%), *Cymbopogon refractus* (1, 56%), *Eragrostis lacunaria* (1, 56%), *Eriachne mucronata* (3, 56%), *Chrysopogon fallax* (1, 44%), *Melinis repens*\* (6, 44%), *Arundinella nepalensis* (17, 33%), *Enneapogon lindleyanus* (3, 33%), *Enneapogon polyphyllus* (1, 33%), *Heteropogon contortus* (8, 33%), *Aristida benthamii* var. *benthamii* (2, 22%), *Aristida calycina* (8, 22%), *Aristida calycina* var. *calycina* (2, 22%), *Aristida jerichoensis* var. *subspinulifera* (8, 22%), *Aristida lignosa* (7, 22%), *Aristida personata* (3, 22%), *Aristida queenslandica* var. *dissimilis* (3, 22%), *Aristida queenslandica* var. *queenslandica* (4, 22%), *Cenchrus ciliaris*\* (6, 22%), *Digitaria ammophila* (6, 22%), *Digitaria breviglumis* (3, 22%), *Eragrostis sororia* (1, 22%), *Eremochloa bimaculata* (1, 22%), *Fimbristylis dichotoma* (4, 22%), *Panicum decompositum* (2, 22%), *Tragus australianus* (3, 22%), *Alloteropsis semialata* (2, 11%), *Aristida benthamii* (2, 11%), *Aristida gracilipes* (10, 11%), *Aristida jerichoensis* var. *jerichoensis* (3, 11%), *Aristida longicollis* (11%), *Aristida queenslandica* (3, 11%), *Cymbopogon bombycinus* (1, 11%), *Digitaria parviflora* (1, 11%), *Dinebra decipiens* (4, 11%), *Enteropogon acicularis* (1, 11%), *Eragrostis brownii* (1, 11%), *Eragrostis spartinoides* (11%), *Eriochloa pseudoacrotricha* (1, 11%), *Gahnia aspera* (11%), *Oplismenus aemulus* (1, 11%), *Panicum queenslandicum* (1, 11%), *Paspalidium caespitosum* (1, 11%), *Perotis rara* (11%), *Scleria brownii* (11%), *Scleria mackaviensis* (11%), *Tripogon loliiformis* (1, 11%), *Urochloa mosambicensis*\* (1, 11%), *Urochloa piligera* (11%)

FORBS: *Brunoniella australis* (89%), *Cheilanthes sieberi* (67%), *Phyllanthus virgatus* (56%), *Rostellularia adscendens* (56%), *Sida hackettiana* (56%), *Ajuga australis* (44%), *Desmodium brachypodum* (1, 44%), *Evolvulus alsinoides* (44%), *Goodenia rotundifolia* (44%), *Grewia latifolia* (44%), *Solanum ellipticum* (44%), *Alphitonia excelsa* (33%), *Euphorbia drummondii* (33%), *Glycine tomentella* (33%), *Sida cordifolia*\* (33%), *Alternanthera nana* (22%), *Cassia brewsteri* (22%), *Chrysocephalum apiculatum* (22%), *Cyanthillium cinereum* (22%), *Dianella caerulea* (22%), *Dianella revoluta* (22%), *Glycine tabacina* (22%), *Goodenia glabra* (22%), *Oxalis* indet. (22%), *Oxalis radicata* (22%), *Parsonsia lanceolata* (22%), *Peripleura hispidula* (2, 22%), *Senecio pinnatifolius* (22%), *Sida* sp. (Musselbrook M.B.Thomas+ MRS437) (22%), *Spermacoce multicaulis* (22%), *Acacia shirleyi* (1, 11%), *Achyranthes aspera* (11%), *Boerhavia dominii* (11%), *Breynia oblongifolia* (11%), *Calotis cuneifolia* (11%), *Camptacra barbata* (11%), *Chamaecrista mimosoides* (11%), *Clematicissus opaca* (11%), *Coelospermum reticulatum* (11%), *Crotalaria indet.* (11%), *Desmodium rhytidophyllum* (11%), *Dianella longifolia* (11%), *Dissiliaria muelleri* (11%), *Dysphania carinata* (3, 11%), *Dysphania glomulifera* (11%), *Euphorbia dallachyana* (11%), *Eustrephus latifolius* (11%), *Glycine* sp. (Laglan Station L.S.Smith 10302) (11%), *Heliotropium indet.* (11%), *Indigofera indet.* (10, 11%), *Jasminum didymum* subsp. *lineare* (11%), *Lactuca serriola* forma *serriola*\* (11%), *Lobelia purpurascens* (11%), *Lomandra confertifolia* (11%), *Lomandra longifolia* (11%), *Lysicarpus angustifolius* (11%), *Marsdenia viridiflora* (11%), *Melhanie oblongifolia* (11%), *Opuntia stricta*\* (11%), *Oxalis corniculata*\* (11%), *Peripleura bicolor* (11%), *Peripleura hispidula* var. *setosa* (11%), *Petalostigma pubescens* (11%), *Phyllanthus maderaspatensis* (11%), *Pittosporum spinescens* (11%), *Portulaca oleracea*\* (11%), *Portulaca pilosa*\* (11%), *Pseuderanthemum variabile* (11%), *Sida spinosa*\* (1, 11%), *Solanum nemophilum* (1, 11%), *Solanum parvifolium* subsp. *parvifolium* (11%), *Sonchus oleraceus*\* (11%), *Spermacoce brachystema* (11%), *Tephrosia filipes* (11%), *Wahlenbergia gracilis* (11%)

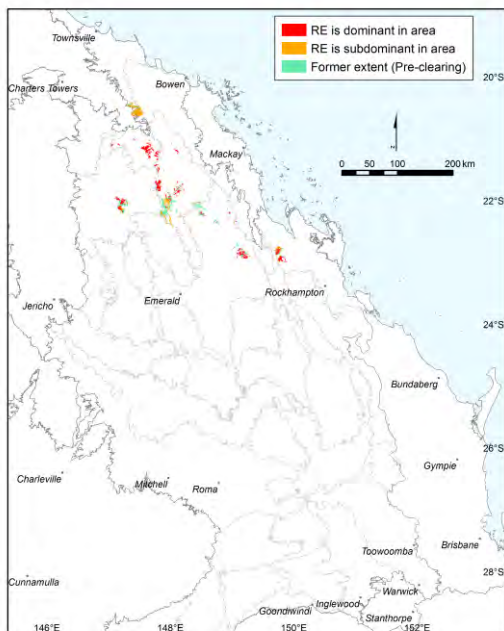
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**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with 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 intermedia +/- E. moluccana +/- C. dallachiana woodland**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 134,284 91,598 68%

Species\_recorded: Total: 31; woody: 14; ground: 19; Avg. spp./site: 31.0; std dev.: 0.0, 1 site(s)

Basal area: Avg./site: 3.0 m<sup>2</sup>/ha, range: 3.0 - 3 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 19187.

**Stratum: Tree 1**

Height avg. = 13.0m, 1 site

Crown cover avg. = 15.0%, 1 site

Dominant species (relative cover, frequency): *Corymbia tessellaris* (50, 100%), *Eucalyptus crebra* (25, 100%), *Corymbia clarksoniana* (25, 100%)

Frequent species (cover, frequency): *Acacia excelsa* subsp. *excelsa* (100%), *Corymbia clarksoniana* (5, 100%), *Corymbia tessellaris* (10, 100%), *Eucalyptus crebra* (5, 100%), *Grevillea striata* (100%)

**Stratum: Shrub 1**

Height avg. = 1.2m, 1 site

Crown cover avg. = 4.0%, 1 site

Dominant species (relative cover, frequency): *Ventilago viminalis* (21, 100%), *Ehretia membranifolia* (21, 100%), *Alphitonia excelsa* (21, 100%), *Jasminum didymum* (10, 100%), *Corymbia clarksoniana* (10, 100%)

Frequent species (cover, frequency): *Acacia excelsa* subsp. *excelsa* (100%), *Alectryon diversifolius* (100%), *Alphitonia excelsa* (1, 100%), *Capparis* indet. (100%), *Carissa ovata* (100%), *Corymbia clarksoniana* (1, 100%), *Corymbia tessellaris* (100%), *Ehretia membranifolia* (1, 100%), *Grevillea striata* (100%), *Grewia latifolia* (100%), *Jasminum didymum* (1, 100%), *Owenia acidula* (100%), *Ventilago viminalis* (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.

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**Stratum: Shrub 2**

Height avg. = 0.5m, 1 site

Crown cover avg. = 50.0%, 1 site

*Dominant species (relative cover, frequency): Acacia excelsa subsp. excelsa (100, 100%)**Frequent species (cover, frequency): Acacia excelsa subsp. excelsa (10, 100%)***Stratum: Ground**

Height avg. = 0.5m, 1 site

PFC avg. = 10.0%, 1 site

*Dominant species (relative cover, frequency): Grewia latifolia (11, 100%), Tragus australianus (11, 100%), Cenchrus ciliaris\* (11, 100%), Parsonsia lanceolata (11, 100%), Jasminum didymum (11, 100%)**Frequent species (cover, frequency): GRAMINOIDS: Bothriochloa decipiens (100%), Cenchrus ciliaris\* (1, 100%), Chloris divaricata (100%), Chrysopogon fallax (1, 100%), Dactyloctenium radulans (100%), Enneapogon purpurascens (1, 100%), Heteropogon contortus (100%), Paspalidium distans (100%), Tragus australianus (1, 100%)**FORBS: Boerhavia sp. (St George A.Hill AQ399299) (100%), Breynia oblongifolia (100%), Euphorbia tannensis subsp. eremophila (100%), Grewia latifolia (1, 100%), Jasminum didymum (1, 100%), Melhania oblongifolia (100%), Parsonsia lanceolata (1, 100%), Ptilotus macrocephalus (100%), Tinospora smilacina (100%), Trianthema triquetra (1, 100%)*

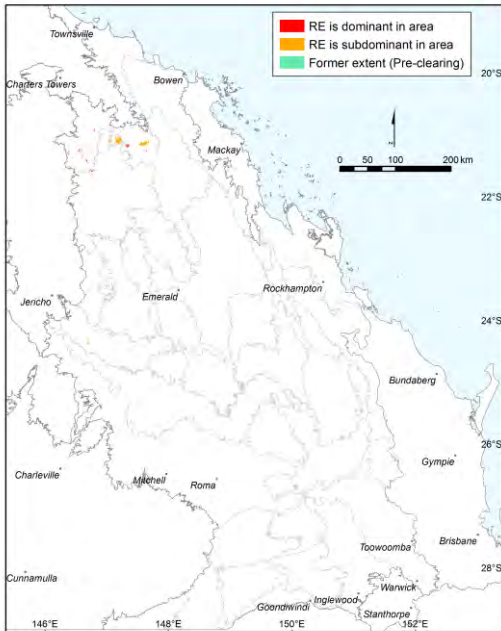

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Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 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

Melaleuca tamariscina shrubland on Cainozoic sand plains and/or remnant surfaces



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 10,619 9,881 93%

Species\_recorded: Total: 90; woody: 14; ground: 81; Avg. spp./site: 26.2; std dev.: 9.6, 5 site(s)

Basal area: Avg./site: 10.4 m<sup>2</sup>/ha, range: 3.5 - 14 m<sup>2</sup>/ha, std. deviation: 4 m<sup>2</sup>/ha, 5 site(s)

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

Representative\_sites 19215, 28950, 61336, 61354, 61355.

**Stratum: Emergent**

Height avg. = 9.8m, range 8-12m, 3 sites

Crown cover avg. = 2.3%, range 0.0-5.0%, 3 sites

Frequent species (cover, frequency): *Acacia shirleyi* (3, 20%), *Corymbia lamprophylla* (2, 20%), *Eucalyptus melanophloia* (3, 20%), *Eucalyptus tholiformis* (20%), *Melaleuca tamariscina* (1, 20%)

**Stratum: Tree 1**

Height avg. = 6.1m, range 5-7m, 4 sites

Crown cover avg. = 20.5%, range 8.0-30.0%, 4 sites

Dominant species (relative cover, frequency): *Melaleuca tamariscina* (93, 80%), *Eucalyptus persistens* (6, 40%)

Frequent species (cover, frequency): *Melaleuca tamariscina* (23, 80%), *Eucalyptus persistens* (2, 40%), *Acacia shirleyi* (20%), *Eucalyptus melanophloia* (3, 20%)

**Stratum: Tree 2**

Height avg. = 2.6m, range 2-3.2m, 2 sites

Crown cover avg. = 3.0%, range 1.0-5.0%, 2 sites

Dominant species (relative cover, frequency): *Melaleuca tamariscina* (95, 40%)

Frequent species (cover, frequency): *Melaleuca tamariscina* (3, 40%), *Melaleuca nervosa* (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. = 1.9m, range 0.5-5m, 5 sites

Crown cover avg. = 13.4%, range 2.0-27.0%, 5 sites

Dominant species (relative cover, frequency): *Melaleuca tamariscina* (72, 80%), *Acacia leptostachya* (51, 40%), *Acacia tenuissima* (3, 40%), *Santalum lanceolatum* (1, 40%)

Frequent species (cover, frequency): *Melaleuca tamariscina* (13, 80%), *Acacia leptostachya* (8, 40%), *Acacia tenuissima* (40%), *Santalum lanceolatum* (40%), *Acacia cretata* (2, 20%), *Acacia galioides* (20%), *Alphitonia excelsa* (20%), *Melaleuca nervosa* (20%), *Ventilago viminalis* (20%)

**Stratum: Shrub 2**

Height avg. = 1.0m, 1 site

Crown cover avg. = 6.0%, 1 site

Frequent species (cover, frequency): *Melaleuca tamariscina* (6, 20%)

**Stratum: Ground**

Height avg. = 0.3m, range 0.15-0.5m, 4 sites

PFC avg. = 26.4%, range 6-70%, 5 sites

Dominant species (relative cover, frequency): *Triodia pungens* (61, 60%), *Fimbristylis dichotoma* (35, 40%), *Aristida helicophylla* (15, 40%), *Digitaria brownii* (5, 80%), *Cheilanthes sieberi* (4, 40%)

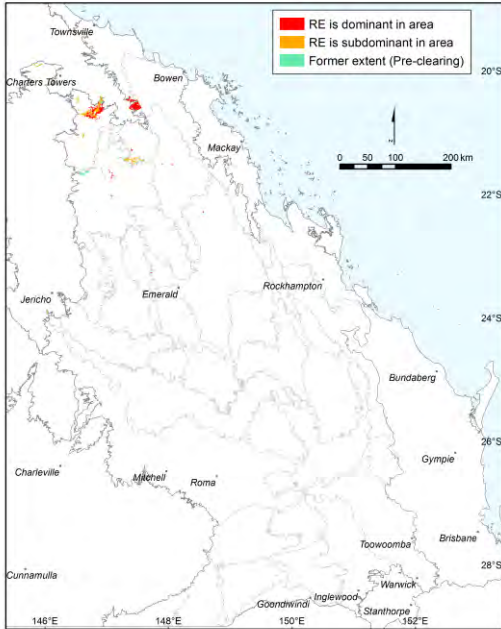
Frequent species (cover, frequency): GRAMINOIDS: *Digitaria brownii* (1, 80%), *Chrysopogon fallax* (60%), *Eriachne mucronata* forma (Alpha C.E.Hubbard 7882) (60%), *Heteropogon contortus* (60%), *Themeda triandra* (60%), *Triodia pungens* (15, 60%), *Aristida helicophylla* (2, 40%), *Digitaria hystrichoides* (40%), *Eragrostis lacunaria* (40%), *Eragrostis sororia* (40%), *Fimbristylis dichotoma* (25, 40%), *Panicum effusum* (40%), *Alloteropsis cimicina* (20%), *Alloteropsis semialata* (20%), *Aristida acuta* (20%), *Aristida calycina* (20%), *Aristida hygrometrica* (20%), *Aristida queenslandica* (1, 20%), *Bothriochloa decipiens* (20%), *Bothriochloa decipiens* var. *decipiens* (1, 20%), *Calyptochloa gracillima* subsp. *gracillima* (20%), *Capillipedium parviflorum* (20%), *Chloris divaricata* (20%), *Cymbopogon obtectus* (20%), *Cyperus* *indet.* (20%), *Cyperus pulchellus* (3, 20%), *Cyperus squarrosus* (4, 20%), *Dactyloctenium radulans* (20%), *Digitaria* *indet.* (1, 20%), *Digitaria violascens*\* (20%), *Enneapogon polyphyllus* (20%), *Enneapogon virens* (20%), *Eragrostis* *indet.* (1, 20%), *Eriachne ciliata* (20%), *Eriochloa pseudoacrotricha* (20%), *Melinis repens*\* (20%), *Mnesithea formosa* (20%), *Paspalidium distans* (20%), *Sporobolus scabridus* (20%), *Thyridolepis xerophila* (1, 20%), *Tragus australianus* (4, 20%), *Triodia mitchellii* (5, 20%), *Tripogon loliiformis* (20%) FORBS: *Cheilanthes sieberi* subsp. *sieberi* (60%), *Acacia leptostachya* (40%), *Cheilanthes sieberi* (2, 40%), *Evolvulus alsinoides* var. *sericeus* (40%), *Goodenia rosulata* (40%), *Heliotropium peninsulare* (40%), *Iphigenia indica* (40%), *Leptosema oxylobioides* (40%), *Melaleuca tamariscina* (40%), *Murdannia graminea* (2, 40%), *Phyllanthus virgatus* (40%), *Stylidium eriorhizum* (40%), *Stylosanthes humilis*\* (40%), *Tricoryne elatior* (40%), *Acacia galioides* (20%), *Acacia julifera* subsp. *julifera* (20%), *Acacia lazaridis* (20%), *Acacia tenuissima* (20%), *Alternanthera nana* (20%), *Arthropodium* *indet.* (20%), *Corchorus pumilio* (20%), *Corymbia dallachiana* (20%), *Evolvulus alsinoides* (20%), *Hibiscus burtonii* (20%), *Hibiscus sturtii* (20%), *Hybanthus* *indet.* (20%), *Jacquemontia paniculata* (20%), *Melhania oblongifolia* (20%), *Myoporum acuminatum* (20%), *Ruellia tuberosa*\* (20%), *Santalum lanceolatum* (20%), *Sida atherophora* (20%), *Spermacoce brachystema* (20%), *Stylosanthes scabra*\* (20%), *Thysanotus tuberosus* (20%), *Trianthema triquetra* (20%), *Waltheria indica* (20%), *Zornia dyctiocarpa* var. *filifolia* (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

**Corymbia clarksoniana woodland and other Corymbia spp. and Eucalyptus spp. on Cainozoic sand plains and/or remnant surfaces**



Jesse Rowland

**Pre-clearing area (ha), remnant area (ha) and per cent remaining:** 60,508 49,015 81%

**Species recorded:** Total: 108; woody: 44; ground: 70; Avg. spp./site: 23.8; std dev.: 6.5, 6 site(s)

**Basal area:** Avg./site: 5.7 m<sup>2</sup>/ha, range: 3.0 - 10 m<sup>2</sup>/ha, std. deviation: 3 m<sup>2</sup>/ha, 5 site(s)

**Structural formation:** Open-woodland: 86%; woodland: 14%, 7 site(s)

**Representative sites** 1905, 2382, 2672, 19139, 19165, 19166, 19221.

**Stratum: Tree 1**

**Height avg. = 14.1m, range 10-25m, 7 sites**  
**Crown cover avg. = 17.3%, range 9.0-38.0%, 7 sites**

*Dominant species (relative cover, frequency): Corymbia clarksoniana (55, 86%), Eucalyptus crebra (40, 43%), Corymbia dallachiana (33, 57%)*

*Frequent species (cover, frequency): Corymbia clarksoniana (9, 86%), Corymbia dallachiana (5, 57%), Eucalyptus crebra (3, 43%), Acacia indet. (14%), Bursaria incana (3, 14%), Eucalyptus melanophloia (14%), Lysicarpus angustifolius (25, 14%), Melaleuca nervosa (3, 14%)*

**Stratum: Tree 2**

**Height avg. = 6.8m, range 6-9m, 4 sites**  
**Crown cover avg. = 2.7%, range 2.0-4.0%, 4 sites**

*Dominant species (relative cover, frequency): Petalostigma pubescens (62, 43%), Denhamia cunninghamii (5, 29%), Grevillea parallela (3, 29%)*

*Frequent species (cover, frequency): Petalostigma pubescens (2, 43%), Denhamia cunninghamii (29%), Grevillea parallela (29%), Acacia torulosa (14%), Corymbia clarksoniana (14%), Grevillea glauca (14%), Hakea lorea (14%), Larsenaikia ochreatea (14%), Lysicarpus angustifolius (2, 14%), Petalostigma banksii (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. = 2.0m, range 1.2-3.5m, 7 sites

Crown cover avg. = 3.4%, range 2.0-7.9%, 7 sites

Dominant species (relative cover, frequency): *Petalostigma pubescens* (39, 29%), *Eucalyptus crebra* (18, 29%), *Acacia sericophylla* (17, 29%), *Bursaria incana* (14, 71%), *Erythroxylum australe* (10, 100%)

Frequent species (cover, frequency): *Erythroxylum australe* (100%), *Bursaria incana* (71%), *Alphitonia excelsa* (43%), *Acacia sericophylla* (1, 29%), *Breynia oblongifolia* (29%), *Corymbia clarksoniana* (29%), *Eucalyptus crebra* (29%), *Petalostigma banksii* (29%), *Petalostigma pubescens* (2, 29%), *Acacia excelsa* (1, 14%), *Acacia excelsa subsp. excelsa* (14%), *Acacia flavescens* (14%), *Acacia julifera* (14%), *Acacia julifera subsp. curvinervia* (1, 14%), *Acacia leptocarpa* (14%), *Acacia shirleyi* (2, 14%), *Acacia torulosa* (4, 14%), *Archidendropsis basaltica* (14%), *Brachychiton rupestris* (14%), *Capparis canescens* (14%), *Carissa lanceolata* (3, 14%), *Dodonaea triangularis* (14%), *Grevillea striata* (14%), *Grewia latifolia* (14%), *Hakea chordophylla* (14%), *Jasminum didymum* (14%), *Larsenaikia jardinei* (14%), *Larsenaikia ochreatea* (14%), *Lysicarpus angustifolius* (14%), *Melaleuca nervosa* (14%), *Persoonia falcata* (14%), *Psyrdrax attenuata* (14%), *Psyrdrax indet.* (14%), *Psyrdrax oleifolia* (14%), *Santalum lanceolatum* (14%), *Stylosanthes indet.* (14%), *Terminalia indet.* (14%)

**Stratum: Ground**

Height avg. = 0.6m, range 0.3-1m, 6 sites

PFC avg. = 30.3%, range 6-60%, 6 sites

Dominant species (relative cover, frequency): *Heteropogon contortus* (26, 33%), *Themeda triandra* (23, 50%), *Aristida holathera* var. *holathera* (20, 33%), *Aristida calycina* (15, 67%), *Chrysopogon fallax* (8, 33%)

Frequent species (cover, frequency): GRAMINOIDS: *Aristida calycina* (6, 67%), *Themeda triandra* (3, 50%), *Aristida holathera* var. *holathera* (2, 33%), *Chrysopogon fallax* (1, 33%), *Fimbristylis dichotoma* (33%), *Heteropogon contortus* (9, 33%), *Aristida indet.* (25, 17%), *Aristida jerichoensis* (17%), *Aristida queenslandica* var. *queenslandica* (2, 17%), *Cenchrus ciliaris*\* (17%), *Cymbopogon refractus* (20, 17%), *Enneapogon polyphyllus* (1, 17%), *Eragrostis desertorum* (17%), *Eragrostis elongata* (17%), *Eragrostis lacunaria* (17%), *Eragrostis sororia* (17%), *Eragrostis speciosa* (17%), *Eriachne aristidea* (17%), *Eriachne indet.* (17%), *Eriachne mucronata* (17%), *Melinis repens*\* (17%), *Poaceae indet.* (50, 17%), *Sporobolus scabridus* (1, 17%), *Tragus australianus* (17%), *Triodia pungens* (39, 17%), *Tripogon loliformis* (17%)

FORBS: *Sida indet.* (67%), *Grewia latifolia* (50%), *Dodonaea indet.* (33%), *Euphorbia hyssopifolia*\* (1, 33%), *Evolvulus alsinoides* (33%), *Melhania oblongifolia* (33%), *Phyllanthus indet.* (33%), *Acacia indet.* (17%), *Alphitonia excelsa* (17%), *Bursaria incana* (17%), *Chamaecrista absus* var. *absus* (17%), *Cheilanthes sieberi* (17%), *Convolvulaceae indet.* (17%), *Enchylaena tomentosa* (17%), *Erythroxylum australe* (17%), *Euphorbia indet.* (17%), *Euphorbiaceae indet.* (17%), *Glycine indet.* (17%), *Glycine tomentella* (17%), *Gomphrena celosioides*\* (17%), *Hibiscus krichauffianus* (17%), *Jacquemontia paniculata* var. *tomentosa* (17%), *Lomandra longifolia* (17%), *Malvastrum americanum* var. *americanum*\* (17%), *Parthenium hysterophorus*\* (3, 17%), *Peripleura hispidula* var. *setosa* (17%), *Phyllanthus virgatus* (17%), *Pittosporum spinescens* (17%), *Pseuderanthemum variabile* (1, 17%), *Psyrdrax indet.* (17%), *Rhynchosia minima* (17%), *Rhynchosia minima* var. *australis* (17%), *Rostellularia adscendens* subsp. *adscendens* (17%), *Sida* sp. (*Musselbrook M.B.Thomas+ MRS437*) (17%), *Sida trichopoda* (17%), *Spermacoce brachystema* (17%), *Trianthema triquetra* (17%), *Waltheria indica* (17%)

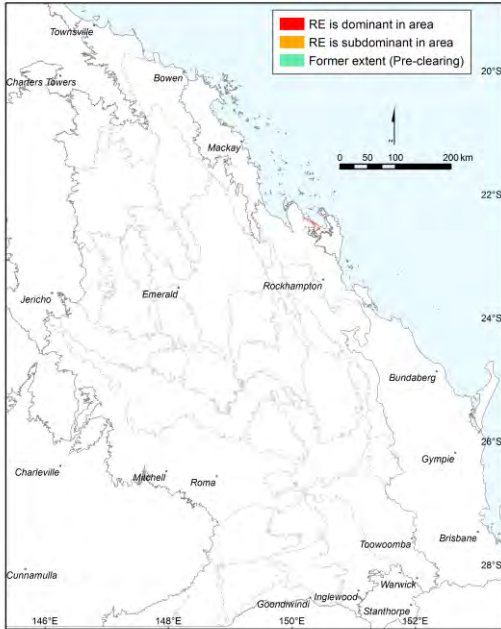
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Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 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 exserta and/or Corymbia clarksoniana and/or Eucalyptus crebra &/or Corymbia trachyphloia and/or C. citriodora woodland**



Jesse Rowland

**Pre-clearing area (ha), remnant area (ha) and per cent remaining:** 6,277 6,272 100%

**Species\_recorded:** Total: 58; woody: 14; ground: 45; Avg. spp./site: 34.5; std dev.: 3.5, 2 site(s)

**Basal area:** Avg./site: 14.5 m<sup>2</sup>/ha, range: 9.0 - 20 m<sup>2</sup>/ha, std. deviation: 6 m<sup>2</sup>/ha, 2 site(s)

**Structural formation:** Woodland: 50%; open-forest: 50%, 2 site(s)

**Representative\_sites** 40752, 40904.

**Stratum: Emergent**

**Height avg. = 18.0m, 1 site**

**Crown cover avg. = 3.0%, 1 site**

*Dominant species (relative cover, frequency): Corymbia trachyphloia (100, 50%)*

*Frequent species (cover, frequency): Corymbia trachyphloia (3, 50%)*

**Stratum: Tree 1**

**Height avg. = 15.0m, range 11-19m, 2 sites**

**Crown cover avg. = 40.5%, range 26.0-55.0%, 2 sites**

*Dominant species (relative cover, frequency): Lysicarpus angustifolius (100, 50%), Eucalyptus exserta (46, 50%), Corymbia clarksoniana (40, 50%), Eucalyptus crebra (13, 50%)*

*Frequent species (cover, frequency): Corymbia clarksoniana (11, 50%), Eucalyptus crebra (4, 50%), Eucalyptus exserta (12, 50%), Lysicarpus angustifolius (55, 50%)*

**Stratum: Tree 2**

**Height avg. = 8.0m, 1 site**

**Crown cover avg. = 29.0%, 1 site**

*Dominant species (relative cover, frequency): Allocasuarina luehmannii (41, 50%), Lysicarpus angustifolius (29, 50%), Melaleuca viridiflora (25, 50%), Petalostigma pubescens (5, 50%)*

*Frequent species (cover, frequency): Allocasuarina luehmannii (12, 50%), Lysicarpus angustifolius (9, 50%), Melaleuca viridiflora (8, 50%), Petalostigma pubescens (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, 1 site

Crown cover avg. = 5.5%, range 3.0-8.0%, 2 sites

Dominant species (relative cover, frequency): *Allocasuarina luehmannii* (47, 50%), *Acacia flavescens* (44, 50%), *Corymbia clarksoniana* (19, 100%), *Coelospermum reticulatum* (16, 50%), *Petalostigma pubescens* (13, 100%)

Frequent species (cover, frequency): *Corymbia clarksoniana* (1, 100%), *Lysicarpus angustifolius* (1, 100%), *Petalostigma pubescens* (1, 100%), *Acacia flavescens* (4, 50%), *Allocasuarina luehmannii* (2, 50%), *Coelospermum reticulatum* (1, 50%), *Melaleuca viridiflora* (50%), *Planchonia careya* (1, 50%)

**Stratum: Shrub 2**

Crown cover avg. = 10.0%, 1 site

Dominant species (relative cover, frequency): *Planchonia careya* (29, 50%), *Acacia leptocarpa* (29, 50%), *Petalostigma pubescens* (19, 50%), *Corymbia clarksoniana* (10, 50%), *Alphitonia excelsa* (10, 50%)

Frequent species (cover, frequency): *Acacia flavescens* (50%), *Acacia leptocarpa* (3, 50%), *Alphitonia excelsa* (1, 50%), *Coelospermum reticulatum* (50%), *Corymbia clarksoniana* (1, 50%), *Corymbia trachyphloia* (50%), *Melaleuca nervosa* (50%), *Melaleuca viridiflora* (50%), *Petalostigma pubescens* (2, 50%), *Planchonia careya* (3, 50%)

**Stratum: Ground**

Height avg. = 0.4m, range 0.3-0.5m, 2 sites

PFC avg. = 46.5%, range 28-65%, 2 sites

Dominant species (relative cover, frequency): *Eremochloa bimaculata* (39, 100%), *Themeda triandra* (36, 50%), *Schizachyrium pseudeulalia* (26, 50%), *Paspalidium gausum* (10, 50%), *Schizachyrium fragile* (10, 50%)

Frequent species (cover, frequency): GRAMINOIDS: *Cymbopogon refractus* (1, 100%), *Eremochloa bimaculata* (20, 100%), *Abildgaardia vaginata* (50%), *Aristida queenslandica* var. *dissimilis* (50%), *Cyperus gracilis* (2, 50%), *Cyperus pulchellus* (50%), *Digitaria gibbosa* (50%), *Digitaria parviflora* (50%), *Eragrostis brownii* (50%), *Eragrostis spartinooides* (50%), *Fimbristylis dichotoma* (50%), *Heteropogon contortus* (3, 50%), *Mnesithea formosa* (50%), *Paspalidium gausum* (5, 50%), *Rhynchospora heterochaeta* (50%), *Schizachyrium fragile* (5, 50%), *Schizachyrium pseudeulalia* (6, 50%), *Setaria indet.* (50%), *Themeda triandra* (8, 50%)

FORBS: *Blumea saxatilis* (100%), *Cassytha filiformis* (100%), *Phyllanthus fuernrohrii* (100%), *Phyllanthus virgatus* (100%), *Brunoniella acaulis* (50%), *Buchnera gracilis* (50%), *Coronidium lanuginosum* (50%), *Desmodium rhytidophyllum* (50%), *Dianella caerulea* (50%), *Evolvulus alsinoides* (50%), *Glycine tabacina* (50%), *Glycine tomentella* (50%), *Lomandra confertifolia* subsp. *pallida* (1, 50%), *Lomandra longifolia* (50%), *Murdannia graminea* (50%), *Parsonia straminea* (50%), *Peripleura diffusa* (50%), *Petalostigma pubescens* (1, 50%), *Rostellularia adscendens* (50%), *Sida cordifolia*\* (50%), *Spermacoce brachystema* (50%), *Stylidium eriorhizum* (50%), *Stylosanthes scabra*\* (50%), *Zornia dyctiocarpa* (50%)

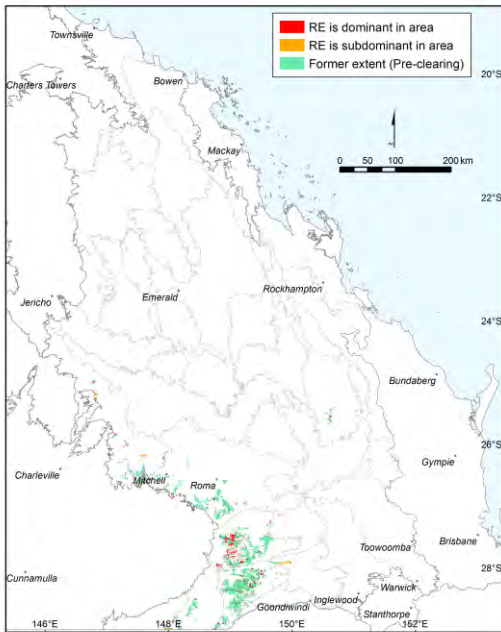
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Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 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 +/- Acacia aneura +/- E. melanophloia woodland on Cainozoic sand plains and/or remnant surfaces**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 572,105 95,569 17%

Species\_recorded: Total: 92; woody: 20; ground: 73; Avg. spp./site: 31.0; std dev.: 4.6, 4 site(s)

Basal area: Avg./site: 12.1 m<sup>2</sup>/ha, range: 6.0 - 22 m<sup>2</sup>/ha, std. deviation: 6 m<sup>2</sup>/ha, 4 site(s)

Structural formation: Open-woodland: 75%; unrecorded: 25%, 4 site(s)

Representative\_sites 16631, 17090, 17096, 28855.

**Stratum: Tree 1**

Height avg. = 14.0m, range 10-16m, 4 sites

Crown cover avg. = 17.3%, range 12.0-25.0%, 4 sites

Dominant species (relative cover, frequency): *Eucalyptus populnea* (81, 100%), *Eucalyptus melanophloia* (31, 50%), *Brachychiton populneus* (8, 25%), *Eucalyptus tereticornis* (6, 25%)

Frequent species (cover, frequency): *Eucalyptus populnea* (15, 100%), *Eucalyptus melanophloia* (5, 50%), *Brachychiton populneus* (1, 25%), *Eucalyptus tereticornis* (1, 25%)

**Stratum: Tree 2**

Height avg. = 5.1m, range 4-7m, 4 sites

Crown cover avg. = 13.8%, range 3.0-40.0%, 4 sites

Dominant species (relative cover, frequency): *Acacia aneura* (100, 25%), *Eremophila mitchellii* (97, 25%), *Eucalyptus populnea* (78, 25%), *Acacia ixiophylla* (30, 50%), *Myoporum acuminatum* (30, 25%)

Frequent species (cover, frequency): *Acacia ixiophylla* (1, 50%), *Acacia aneura* (40, 25%), *Amyema quandang* (25%), *Callitris glaucophylla* (25%), *Capparis loranthifolia* (25%), *Eremophila mitchellii* (3, 25%), *Eucalyptus melanophloia* (1, 25%), *Eucalyptus populnea* (6, 25%), *Eucalyptus tereticornis* (1, 25%), *Geijera parviflora* (25%), *Melaleuca decora* (25%), *Myoporum acuminatum* (1, 25%), *Psychdrax oleifolia* (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. = 1.6m, range 1.4-2m, 3 sites

Crown cover avg. = 6.0%, range 4.0-10.0%, 3 sites

*Dominant species (relative cover, frequency): Senna artemisioides subsp. coriacea (56, 25%), Geijera parviflora (52, 50%), Senna artemisioides subsp. zygophylla (43, 25%), Eremophila mitchellii (32, 50%), Alectryon diversifolius (14, 25%)*

*Frequent species (cover, frequency): Eremophila mitchellii (2, 50%), Geijera parviflora (3, 50%), Acacia deanei (1, 25%), Alectryon diversifolius (1, 25%), Capparis loranthifolia (25%), Denhamia cunninghamii (25%), Eucalyptus populnea (25%), Parsonsia eucalyptophylla (25%), Senna artemisioides subsp. coriacea (5, 25%), Senna artemisioides subsp. zygophylla (2, 25%)*

**Stratum: Ground**

Height avg. = 0.5m, range 0.25-0.8m, 4 sites

PFC avg. = 36.8%, range 17-60%, 4 sites

*Dominant species (relative cover, frequency): Thyridolepis xerophila (37, 75%), Cymbopogon refractus (20, 100%), Cenchrus ciliaris\* (18, 25%), Eremophila indet. (16, 25%), Eremophila deserti (16, 25%)*

*Frequent species (cover, frequency): GRAMINOIDS: Cymbopogon refractus (4, 100%), Panicum effusum (1, 75%), Thyridolepis xerophila (21, 75%), Aristida calycina (1, 50%), Aristida jerichoensis var. subspinulifera (6, 50%), Enneapogon gracilis (1, 50%), Enteropogon acicularis (1, 50%), Eragrostis lacunaria (1, 50%), Heteropogon contortus (1, 50%), Panicum decompositum (4, 50%), Paspalidium constrictum (5, 50%), Ancistrachne uncinulata (25%), Aristida caput-medusae (25%), Aristida gracilipes (3, 25%), Aristida jerichoensis (25%), Aristida obscura (1, 25%), Aristida vagans (2, 25%), Bothriochloa decipiens (25%), Cenchrus ciliaris\* (10, 25%), Chloris divaricata (25%), Chloris truncata (25%), Cyperus fulvus (25%), Cyperus gracilis (25%), Dichanthium sericeum (1, 25%), Digitaria brownii (1, 25%), Enneapogon indet. (1, 25%), Enneapogon polyphyllus (25%), Eragrostis elongata (25%), Eragrostis indet. (1, 25%), Gahnia aspera (25%), Paspalidium distans (25%), Rytidosperma bipartitum (1, 25%), Scleria mackaviensis (25%), Themeda triandra (2, 25%)*

*FORBS: Brunoniella australis (100%), Cyanthillium cinereum (50%), Glossocardia bidens (50%), Hibiscus krichauffianus (1, 50%), Oxalis indet. (1, 50%), Abutilon fraseri (25%), Abutilon malvifolium (1, 25%), Alternanthera denticulata (1, 25%), Cheilanthes sieberi (1, 25%), Dianella longifolia (25%), Dichondra indet. (25%), Dodonaea viscosa (25%), Einadia nutans subsp. linifolia (1, 25%), Eremophila debilis (25%), Eremophila deserti (3, 25%), Eremophila indet. (3, 25%), Eustrephus latifolius (1, 25%), Evolvulus alsinoides (25%), Glycine clandestina var. clandestina (1, 25%), Glycine indet. (25%), Gnaphalium indet. (25%), Ipomoea polpha subsp. weirana (1, 25%), Lomandra filiformis (25%), Lomandra longifolia (25%), Lomandra multiflora subsp. multiflora (25%), Malvastrum americanum var. americanum\* (25%), Nyssanthes erecta (1, 25%), Phyllanthus indet. (1, 25%), Psydrax oleifolia (1, 25%), Rostellularia adscendens (25%), Sclerolaena diacantha (1, 25%), Sida corrugata (1, 25%), Sida indet. (25%), Sida spinosa\* (25%), Solanum ellipticum (1, 25%), Solanum ferocissimum (1, 25%), Wahlenbergia communis (1, 25%)*

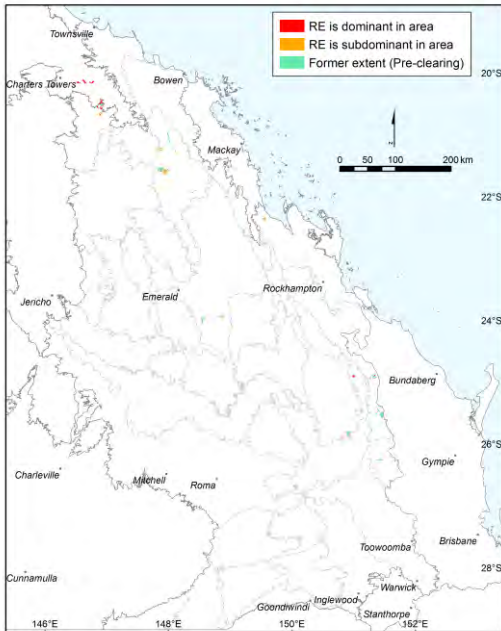
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**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with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

Semi-evergreen vine thicket on Cainozoic sand plains and/or remnant surfaces



Bill McDonald

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 43,680 14,453 33%

Species\_recorded: Total: 158; woody: 119; ground: 74; Avg. spp./site: 48.2; std dev.: 16.3, 6 site(s)

Basal area: Avg./site: 23.2 m<sup>2</sup>/ha, range: 10.0 - 36 m<sup>2</sup>/ha, std. deviation: 9 m<sup>2</sup>/ha, 6 site(s)

Structural formation: Woodland: 17%; open-forest: 17%; unrecorded: 67%, 6 site(s)

Representative\_sites 16549, 16552, 16948, 19274, 40990, 40992.

**Stratum: Emergent**

Height avg. = 19.0m, range 18-20m, 2 sites

Crown cover avg. = 10.0%, range 5.0-15.0%, 2 sites

Frequent species (cover, frequency): *Acacia fasciculifera* (15, 17%), *Backhousia kingii* (5, 17%), *Flindersia collina* (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. = 14.4m, range 10-25m, 6 sites

Crown cover avg. = 41.3%, range 21.0-55.0%, 6 sites

*Dominant species (relative cover, frequency):* *Owenia venosa* (38, 50%), *Planchonella cotinifolia* (23, 33%), *Coatesia paniculata* (17, 33%), *Flindersia collina* (13, 33%), *Grevillea helmsiae* (11, 33%)

*Frequent species (cover, frequency):* *Acacia fasciculifera* (2, 50%), *Brachychiton rupestris* (2, 50%), *Owenia venosa* (18, 50%), *Tinospora smilacina* (1, 50%), *Vitex lignum-vitae* (5, 50%), *Coatesia paniculata* (9, 33%), *Croton insularis* (33%), *Dinosperma erythrococcum* (1, 33%), *Ficus rubiginosa* (4, 33%), *Flindersia australis* (4, 33%), *Flindersia collina* (7, 33%), *Grevillea helmsiae* (6, 33%), *Notelaea microcarpa* (33%), *Planchonella cotinifolia* (12, 33%), *Polyscias elegans* (2, 33%), *Strychnos psilosperma* (3, 33%), *Trophis scandens subsp. scandens* (1, 33%), *Alectryon subdentatus* (2, 17%), *Alphitonia excelsa* (2, 17%), *Alstonia constricta* (1, 17%), *Austrosteenisia blackii var. blackii* (1, 17%), *Backhousia kingii* (20, 17%), *Bursaria incana* (1, 17%), *Cadellia pentastylis* (19, 17%), *Capparis arborea* (17%), *Casuarina cristata* (2, 17%), *Cissus oblonga* (1, 17%), *Claoxylon tenerifolium subsp. tenerifolium* (17%), *Denhamia disperma* (17%), *Denhamia pittosporoides subsp. pittosporoides* (2, 17%), *Dioscorea transversa* (17%), *Diospyros geminata* (17%), *Diospyros humilis* (17%), *Ehretia membranifolia* (17%), *Excoecaria dallachyana* (8, 17%), *Falcataria toona* (3, 17%), *Geijera salicifolia* (17%), *Glossocarya hemiderma* (3, 17%), *Gyrocarpus americanus subsp. americanus* (1, 17%), *Jasminum simplicifolium subsp. australiense* (17%), *Melicope micrococca* (8, 17%), *Parsonsia leichhardtii* (17%), *Parsonsia longipetiolata* (17%), *Parsonsia rotata* (17%), *Planchonella pohlmaniana* (1, 17%), *Psydrax odorata* (1, 17%), *Psydrax odorata forma (Brigooda P.I.Forster PIF5657)* (1, 17%), *Stephania japonica* (17%), *Terminalia porphyrocarpa* (7, 17%)

**Stratum: Tree 2**

Height avg. = 7.3m, range 5-10m, 6 sites

Crown cover avg. = 31.5%, range 8.0-65.0%, 6 sites

*Dominant species (relative cover, frequency):* *Strychnos psilosperma* (64, 33%), *Owenia venosa* (61, 33%), *Coatesia paniculata* (27, 33%), *Planchonella cotinifolia* (11, 50%), *Flindersia collina* (7, 33%)

*Frequent species (cover, frequency):* *Bursaria incana* (1, 67%), *Croton insularis* (2, 67%), *Cupaniopsis parvifolia* (1, 67%), *Planchonella cotinifolia* (3, 50%), *Arytera foveolata* (1, 33%), *Atalaya salicifolia* (33%), *Coatesia paniculata* (7, 33%), *Dinosperma erythrococcum* (2, 33%), *Excoecaria dallachyana* (33%), *Exocarpos latifolius* (1, 33%), *Flindersia collina* (3, 33%), *Gossia bidwillii* (1, 33%), *Grevillea helmsiae* (1, 33%), *Owenia venosa* (20, 33%), *Psydrax odorata forma (Brigooda P.I.Forster PIF5657)* (2, 33%), *Strychnos psilosperma* (23, 33%), *Acacia disparrima subsp. disparrima* (4, 17%), *Acacia fasciculifera* (1, 17%), *Acacia maidenii* (17%), *Acronychia laevis* (1, 17%), *Acronychia pauciflora* (17%), *Alectryon connatus* (17%), *Alphitonia excelsa* (17%), *Auranticarpa rhombifolia* (17%), *Backhousia kingii* (10, 17%), *Cadellia pentastylis* (4, 17%), *Capparis mitchellii* (17%), *Casearia multinervosa* (1, 17%), *Cayratia acris* (1, 17%), *Croton acronychioides* (1, 17%), *Cymbidium canaliculatum* (17%), *Dioscorea transversa* (17%), *Drypetes deplanchei* (17%), *Ehretia membranifolia* (17%), *Elaeodendron australe var. integrifolium* (17%), *Erythroxyllum sp. (Splityard Creek L.Pedley 5360)* (1, 17%), *Falcataria toona* (1, 17%), *Fontainea fugax* (17%), *Geijera salicifolia* (17%), *Glossocarya hemiderma* (17%), *Gynochthodes canthoides* (17%), *Gyrocarpus americanus subsp. americanus* (17%), *Hoya australis subsp. australis* (1, 17%), *Melicope micrococca* (17%), *Melodorum leichhardtii* (17%), *Notelaea microcarpa* (2, 17%), *Pandorea pandorana* (17%), *Parsonsia eucalyptophylla* (17%), *Pittosporum spinescens* (1, 17%), *Pittosporum viscidum* (17%), *Psydrax johnsonii* (17%), *Psydrax odorata* (1, 17%), *Sarcomelicope simplicifolia subsp. simplicifolia* (17%), *Secamone elliptica* (17%), *Terminalia porphyrocarpa* (3, 17%), *Vitex lignum-vitae* (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 2-6m, 6 sites

Crown cover avg. = 22.3%, range 5.0-35.0%, 6 sites

Dominant species (relative cover, frequency): *Acalypha eremorum* (41, 50%), *Strychnos psilosperma* (23, 50%), *Owenia venosa* (10, 33%), *Notelaea microcarpa* (9, 33%), *Bursaria incana* (9, 33%)

Frequent species (cover, frequency): *Capparis arborea* (67%), *Flindersia australis* (67%), *Gossia bidwillii* (67%), *Pittosporum viscidum* (1, 67%), *Acalypha eremorum* (13, 50%), *Alyxia ruscifolia* (1, 50%), *Carissa ovata* (50%), *Croton insularis* (2, 50%), *Denhamia bilocularis* (50%), *Exocarpos latifolius* (1, 50%), *Strychnos psilosperma* (5, 50%), *Alchornea ilicifolia* (33%), *Alstonia constricta* (33%), *Atalaya salicifolia* (33%), *Bursaria incana* (1, 33%), *Coatesia paniculata* (33%), *Croton acronychioides* (2, 33%), *Cupaniopsis parvifolia* (2, 33%), *Cyclophyllum coprosmoides* var. *coprosmoides* (33%), *Ehretia membranifolia* (33%), *Erythroxylum* sp. (*Splityard Creek L.Pedley 5360*) (2, 33%), *Melodorum leichhardtii* (33%), *Notelaea microcarpa* (1, 33%), *Owenia venosa* (5, 33%), *Parsonia eucalyptophylla* (1, 33%), *Parsonia leichhardtii* (33%), *Passiflora aurantia* var. *aurantia* (33%), *Planchonella cotinifolia* (33%), *Psydrax odorata* forma (*Brigooda P.I.Forster PIF5657*) (33%), *Rhodammia dumicola* (33%), *Triflorensia ixoroides* (33%), *Acacia disparrima* subsp. *disparrima* (17%), *Acalypha capillipes* (1, 17%), *Acronychia pauciflora* (17%), *Actephila sessilifolia* (17%), *Alectryon diversifolius* (4, 17%), *Arytera foveolata* (3, 17%), *Backhousia kingii* (3, 17%), *Bouchardatia neurococca* (2, 17%), *Breynia oblongifolia* (17%), *Cadellia pentastylis* (2, 17%), *Capparis loranthifolia* var. *bancroftii* (17%), *Casearia multinervosa* (7, 17%), *Cayratia acris* (2, 17%), *Cleistanthus cunninghamii* (17%), *Clerodendrum floribundum* (17%), *Croton phebalioides* (1, 17%), *Cynanchum viminalis* subsp. *brunonianum* (1, 17%), *Denhamia disperma* (1, 17%), *Diospyros humilis* (17%), *Elaeodendron australe* var. *integrifolium* (17%), *Elaeodendron melanocarpum* (17%), *Eustrephus latifolius* (17%), *Everistia vacciniifolia* (2, 17%), *Everistia vacciniifolia* forma *vacciniifolia* (17%), *Excoecaria dallachyana* (17%), *Ficus rubiginosa* (17%), *Flindersia collina* (9, 17%), *Geitonoplesium cymosum* (1, 17%), *Grevillea helmsiae* (17%), *Gynochthodes canthoides* (17%), *Hoya australis* subsp. *australis* (2, 17%), *Jasminum didymum* subsp. *racemosum* (2, 17%), *Jasminum simplicifolium* subsp. *australiense* (1, 17%), *Murraya ovatifoliolata* (17%), *Pandorea pandorana* (17%), *Pittosporum spinescens* (17%), *Planchonella myrsinifolia* (17%), *Planchonella pohlmaniana* (17%), *Polyscias elegans* (17%), *Psychotria daphnoides* (17%), *Psydrax odorata* (1, 17%), *Psydrax odorata* forma *buxifolia* (17%), *Ricinocarpus ledifolius* (1, 17%), *Solanum seaforthianum*\* (17%), *Solanum semiarmatum* (17%), *Solanum stelligerum* (17%), *Trema tomentosa* (17%), *Turraea pubescens* (17%), *Vitex lignum-vitae* (17%)

**Stratum: Shrub 2**

Height avg. = 1.5m, range 0.5-3m, 4 sites

Crown cover avg. = 14.0%, range 1.0-25.0%, 4 sites

Dominant species (relative cover, frequency): *Carissa ovata* (16, 33%)

Frequent species (cover, frequency): *Carissa ovata* (2, 33%), *Acalypha capillipes* (8, 17%), *Alectryon subdentatus* (17%), *Alphitonia excelsa* (1, 17%), *Alstonia constricta* (17%), *Alyxia ruscifolia* (8, 17%), *Backhousia kingii* (1, 17%), *Bouchardatia neurococca* (17%), *Bursaria incana* (17%), *Capparis arborea* (1, 17%), *Capparis sarmentosa* (17%), *Casearia multinervosa* (2, 17%), *Cleistanthus cunninghamii* (17%), *Croton acronychioides* (17%), *Cupaniopsis parvifolia* (17%), *Deeringia amarantoides* (17%), *Denhamia pittosporoides* subsp. *pittosporoides* (17%), *Dioscorea transversa* (17%), *Drypetes deplanchei* (17%), *Everistia vacciniifolia* forma *vacciniifolia* (8, 17%), *Murraya ovatifoliolata* (1, 17%), *Pittosporum viscidum* (17%), *Psydrax odorata* forma (*Brigooda P.I.Forster PIF5657*) (5, 17%), *Solanum corifolium* (8, 17%), *Solanum stelligerum* (5, 17%), *Strychnos psilosperma* (4, 17%), *Zieria vagans* (3, 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 0.05-1m, 6 sites

PFC avg. = 21.2%, range 1-85%, 6 sites

*Dominant species (relative cover, frequency): Paspalidium criniforme (21, 33%), Ancistrachne uncinulata (13, 67%), Solanum stelligerum (11, 67%), Pseuderanthemum variabile (8, 50%), Cyperus gracilis (8, 50%)*

*Frequent species (cover, frequency): GRAMINOIDS: Ancistrachne uncinulata (5, 67%), Austrostipa ramosissima (1, 67%), Cyperus gracilis (1, 50%), Enteropogon unispiceus (33%), Oplismenus aemulus (33%), Paspalidium criniforme (5, 33%), Paspalidium gracile (33%), Aristida ramosa (5, 17%), Calyptochloa gracillima subsp. gracillima (17%), Chloris divaricata (1, 17%), Eragrostis parviflora (15, 17%), Megathyrsus maximus\* (7, 17%), Sporobolus natalensis\* (1, 17%)*

*FORBS: Solanum stelligerum (1, 67%), Carissa ovata (2, 50%), Einadia nutans (50%), Jasminum didymum subsp. racemosum (50%), Pseuderanthemum variabile (1, 50%), Capparis sarmentosa (33%), Erigeron sumatrensis\* (33%), Jasminum simplicifolium subsp. australiense (33%), Melodorum leichhardtii (33%), Abutilon oxycarpum (15, 17%), Abutilon oxycarpum var. oxycarpum (17%), Acacia fasciculifera (17%), Alphitonia excelsa (17%), Alyxia ruscifolia (17%), Brunoniella australis (1, 17%), Cadellia pentastylis (1, 17%), Capparis arborea (17%), Cayratia clematidea (17%), Cheilanthes sieberi (1, 17%), Coatesia paniculata (17%), Commelina diffusa (17%), Croton acronychioides (17%), Cynanchum viminale subsp. brunonianum (17%), Dendrobium discolor (3, 17%), Dioscorea transversa (17%), Dockrillia bowmanii (3, 17%), Einadia hastata (1, 17%), Elaeodendron australe var. integrifolium (17%), Euchiton indet. (17%), Everistia vacciniifolia (17%), Everistia vacciniifolia forma vacciniifolia (17%), Geijera salicifolia (17%), Geitonoplesium cymosum (17%), Hoya australis subsp. australis (4, 17%), Hydrocotyle indet. (17%), Indigofera indet. (1, 17%), Lepidium indet. (1, 17%), Marsdenia micradenia (17%), Notelaea microcarpa (17%), Nyssanthes erecta (10, 17%), Opuntia stricta\* (17%), Opuntia tomentosa\* (1, 17%), Oxalis corniculata\* (1, 17%), Pandorea pandorana (17%), Parsonsia leichhardtii (17%), Passiflora aurantia var. aurantia (17%), Pimelea latifolia subsp. altior (3, 17%), Pittosporum viscidum (17%), Planchonella cotinifolia (17%), Polymeria pusilla (17%), Psydrax odorata forma (Brigooda P.I.Forster PIF5657) (17%), Rhagodia spinescens (2, 17%), Rivina humilis\* (17%), Secamone elliptica (17%), Solanum corifolium (2, 17%), Solanum parvifolium (1, 17%), Solanum seaforthianum\* (17%), Solanum semiarmatum (1, 17%), Vitex lignum-vitae (17%), Zieria vagans (1, 17%)*

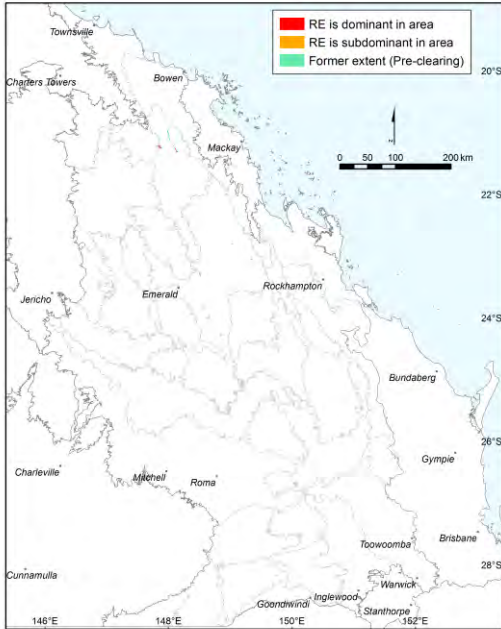
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**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with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

**Acacia harpophylla and/or Casuarina cristata open forest in depressions on Cainozoic sand plains and remnant surfaces**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 14,993 4,232 28%

Species\_recorded: Total: 57; woody: 12; ground: 45; Avg. spp./site: 40.0; std dev.: 0.0, 1 site(s)

Basal area: Avg./site: 23.0 m<sup>2</sup>/ha, range: 22.0 - 24 m<sup>2</sup>/ha, std. deviation: 1 m<sup>2</sup>/ha, 2 site(s)

Structural formation: Woodland: 50%; open-forest: 50%, 2 site(s)

Representative\_sites 17395, 17402.

**Stratum: Emergent**

Height avg. = 17.0m, range 16-18m, 2 sites

Crown cover avg. = 2.5%, range 0.0-5.0%, 2 sites

Dominant species (relative cover, frequency): *Eucalyptus cambageana* (100, 50%), *Casuarina cristata* (100, 50%)

Frequent species (cover, frequency): *Casuarina cristata* (50%), *Eucalyptus cambageana* (5, 50%)

**Stratum: Tree 1**

Height avg. = 12.5m, range 10-15m, 2 sites

Crown cover avg. = 60.0%, range 60.0-60.0%, 2 sites

Dominant species (relative cover, frequency): *Casuarina cristata* (67, 50%), *Acacia harpophylla* (67, 100%)

Frequent species (cover, frequency): *Acacia harpophylla* (40, 100%), *Casuarina cristata* (40, 50%), *Eucalyptus populnea* (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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**Stratum: Shrub 1**

Height avg. = 4.0m, 1 site

Crown cover avg. = 35.0%, 1 site

*Dominant species (relative cover, frequency): Geijera parviflora (51, 50%), Carissa ovata (34, 50%), Senna coronilloides (7, 50%), Everistia vacciniifolia (7, 50%)*

*Frequent species (cover, frequency): Capparis arborea (50%), Capparis canescens (50%), Carissa ovata (10, 50%), Everistia vacciniifolia (2, 50%), Geijera parviflora (15, 50%), Pittosporum spinescens (50%), Psydrax odorata (50%), Senna coronilloides (2, 50%)*

**Stratum: Ground**

Height avg. = 0.3m, 1 site

PFC avg. = 20.0%, 1 site

*Dominant species (relative cover, frequency): Paspalidium caespitosum (17, 100%), Enteropogon unispiceus (17, 100%), Eragrostis lacunaria (7, 100%), Abutilon oxycarpum var. subsagittatum (7, 100%), Nyssanthes erecta (7, 100%)*

*Frequent species (cover, frequency): GRAMINOIDS: Cyperus gracilis (100%), Enteropogon unispiceus (5, 100%), Eragrostis lacunaria (2, 100%), Eriochloa crebra (100%), Paspalidium caespitosum (5, 100%), Paspalidium globoideum (100%), Sporobolus caroli (1, 100%)*

*FORBS: Abutilon oxycarpum var. subsagittatum (2, 100%), Alectryon subdentatus (100%), Aneilema acuminatum (100%), Brunoniella australis (100%), Calandrinia pickeringii (100%), Capparis lasiantha (100%), Clematicissus opaca (100%), Commelina diffusa (2, 100%), Einadia nutans subsp. linifolia (2, 100%), Eremophila debilis (1, 100%), Eustrephus latifolius (100%), Goodenia rotundifolia (100%), Nyssanthes erecta (2, 100%), Opuntia tomentosa\* (100%), Plectranthus parviflorus (100%), Portulaca oleracea\* (2, 100%), Portulaca pilosa\* (2, 100%), Pseuderanthemum variabile (100%), Senecio pinnatifolius var. pinnatifolius (100%), Sida corrugata (100%), Sida trichopoda (1, 100%), Solanum esuriale (100%)*

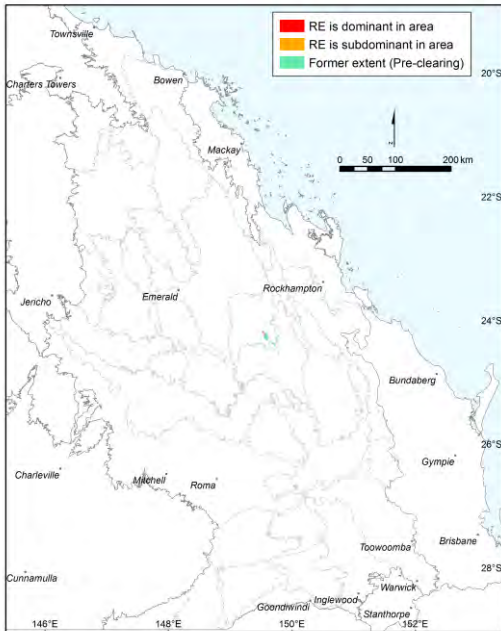
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Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency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

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

**Eucalyptus tereticornis woodland in depressions on Cainozoic sand plains and remnant surfaces**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 5,187 1,329 26%

Species\_recorded: Total: 52; woody: 10; ground: 43; Avg. spp./site: 44.0; std dev.: 0.0, 1 site(s)

Basal area: Avg./site: 13.5 m<sup>2</sup>/ha, range: 13.0 - 14 m<sup>2</sup>/ha, std. deviation: 1 m<sup>2</sup>/ha, 2 site(s)

Structural formation: Woodland: 50%; tall woodland: 50%, 2 site(s)

Representative\_sites 16612, 16839.

**Stratum: Tree 1**

Height avg. = 21.5m, range 17-26m, 2 sites  
 Crown cover avg. = 36.5%, range 33.0-40.0%, 2 sites

Dominant species (relative cover, frequency): *Eucalyptus tereticornis* (59, 100%), *Eucalyptus crebra* (34, 100%), *Eucalyptus melanophloia* (13, 50%), *Lophostemon suaveolens* (2, 50%)

Frequent species (cover, frequency): *Eucalyptus crebra* (12, 100%), *Eucalyptus tereticornis* (22, 100%), *Eucalyptus melanophloia* (5, 50%), *Lophostemon suaveolens* (1, 50%)

**Stratum: Tree 2**

Height avg. = 9.0m, range 5-13m, 2 sites  
 Crown cover avg. = 12.0%, range 4.0-20.0%, 2 sites

Dominant species (relative cover, frequency): *Alphitonia excelsa* (90, 50%), *Eucalyptus crebra* (50, 50%), *Eucalyptus tereticornis* (25, 50%), *Brachychiton populneus* (25, 50%), *Acacia crassa* (10, 50%)

Frequent species (cover, frequency): *Acacia crassa* (2, 50%), *Alphitonia excelsa* (18, 50%), *Brachychiton populneus* (1, 50%), *Eucalyptus crebra* (2, 50%), *Eucalyptus tereticornis* (1, 50%)

**Stratum: Shrub 1**

Height avg. = 6.0m, 1 site  
 Crown cover avg. = 12.0%, 1 site

Dominant species (relative cover, frequency): *Acacia pustula* (75, 50%), *Acacia glaucocarpa* (17, 50%), *Acacia leiocalyx subsp. leiocalyx* (8, 50%)

Frequent species (cover, frequency): *Acacia glaucocarpa* (2, 50%), *Acacia leiocalyx subsp. leiocalyx* (1, 50%), *Acacia pustula* (9, 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: Ground**

Height avg. = 0.2m, 1 site

PFC avg. = 11.0%, 1 site

*Dominant species (relative cover, frequency): Themeda triandra (23, 100%), Cyperus concinnus (17, 100%), Arundinella nepalensis (10, 100%), Carex appressa (8, 100%), Aristida calycina (7, 100%)*

*Frequent species (cover, frequency): GRAMINOIDS: Aristida calycina (2, 100%), Aristida vagans (100%), Arundinella nepalensis (3, 100%), Bothriochloa decipiens var. decipiens (2, 100%), Carex appressa (3, 100%), Cymbopogon refractus (1, 100%), Cyperus concinnus (5, 100%), Dichanthium sericeum (100%), Dichanthium tenue (100%), Digitaria diffusa (100%), Enteropogon indet. (100%), Gahnia aspera (100%), Panicum obseptum (2, 100%), Paspalidium indet. (100%), Themeda triandra (7, 100%)*

*FORBS: Alphonatia excelsa (100%), Brunoniella australis (100%), Cheilanthes tenuifolia (100%), Chrysocephalum apiculatum (100%), Cyathillium cinereum (100%), Denhamia oleaster (100%), Desmodium varians (100%), Dianella brevipedunculata (100%), Dianella longifolia (100%), Eremophila debilis (100%), Eustrephus latifolius (2, 100%), Glycine tabacina (100%), Grewia latifolia (100%), Lomandra filiformis (100%), Opuntia stricta\* (100%), Oxalis perennans (100%), Phyllanthus virgatus (100%), Rostellularia adscendens (1, 100%), Sida hackettiana (100%), Thysanotus tuberosus subsp. tuberosus (100%), Tricoryne elatior (1, 100%), Wahlenbergia communis (100%)*

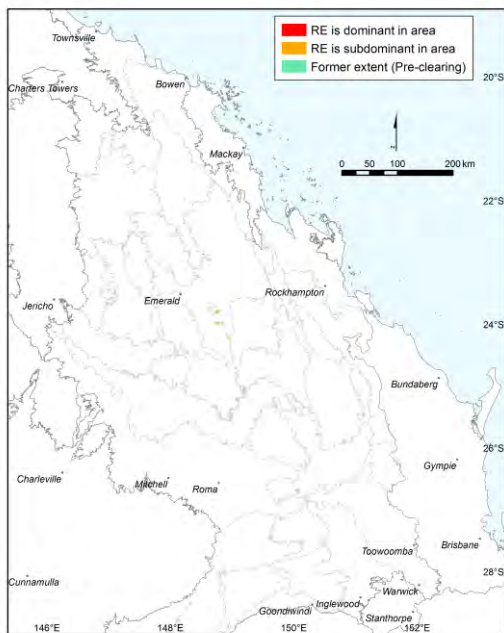
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Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 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

Micromyrtus capricornia shrubland on Cainozoic sand plains and/or remnant surfaces



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 6,559 3,710 57%

Species\_recorded: Total: 68; woody: 15; ground: 53; Avg. spp./site: 33.5; std dev.: 8.5, 2 site(s)

Basal area: Avg./site: 5.5 m<sup>2</sup>/ha, range: 4.0 - 7 m<sup>2</sup>/ha, std. deviation: 2 m<sup>2</sup>/ha, 2 site(s)

Structural formation: Open-woodland: 67%; low woodland: 33%, 3 site(s)

Representative\_sites 17047, 17450, 19253.

**Stratum: Emergent**

Height avg. = 8.0m, 1 site

Crown cover avg. = 1.0%, 1 site

Dominant species (relative cover, frequency): *Acacia indet.* (100, 33%)

Frequent species (cover, frequency): *Acacia indet.* (1, 33%)

**Stratum: Tree 1**

Height avg. = 11.0m, range 4-18m, 3 sites

Crown cover avg. = 14.7%, range 4.0-30.0%, 3 sites

Dominant species (relative cover, frequency): *Eucalyptus crebra* (100, 33%), *Acacia julifera* subsp. *curvinervia* (100, 33%), *Eucalyptus melanophloia* (80, 33%), *Eucalyptus populnea* (20, 33%)

Frequent species (cover, frequency): *Acacia julifera* subsp. *curvinervia* (30, 33%), *Eucalyptus crebra* (4, 33%), *Eucalyptus melanophloia* (8, 33%), *Eucalyptus populnea* (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: Shrub 1**

Height avg. = 1.9m, range 1.8-2m, 3 sites

Crown cover avg. = 19.7%, range 9.0-40.0%, 3 sites

Dominant species (relative cover, frequency): *Micromyrtus capricornia* (68, 100%), *Petalostigma pubescens* (43, 33%), *Calytrix tetragona* (38, 33%), *Erythroxylum australe* (7, 33%), *Acacia indet.* (2, 67%)

Frequent species (cover, frequency): *Micromyrtus capricornia* (16, 100%), *Acacia indet.* (1, 67%), *Alphitonia excelsa* (1, 33%), *Breynia oblongifolia* (1, 33%), *Calytrix tetragona* (20, 33%), *Cassia brewsteri* (33%), *Erythroxylum australe* (1, 33%), *Eucalyptus crebra* (33%), *Geijera parviflora* (1, 33%), *Petalostigma pubescens* (7, 33%), *Psyrax oleifolia* (1, 33%)

**Stratum: Shrub 2**

Height avg. = 0.8m, 1 site

Crown cover avg. = 2.0%, 1 site

Dominant species (relative cover, frequency): *Seringia hookeriana* (100, 33%)

Frequent species (cover, frequency): *Seringia hookeriana* (2, 33%)

**Stratum: Ground**

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

PFC avg. = 60.0%, range 40-80%, 2 sites

Dominant species (relative cover, frequency): *Thyridolepis xerophila* (40, 100%), *Aristida calycina* (13, 50%), *Fimbristylis dichotoma* (13, 50%), *Chrysopogon fallax* (7, 50%), *Cheilanthes sieberi subsp. sieberi* (7, 50%)

Frequent species (cover, frequency): GRAMINOIDS: *Cenchrus ciliaris\** (100%), *Eragrostis lacunaria* (3, 100%), *Heteropogon contortus* (100%), *Themeda triandra* (1, 100%), *Thyridolepis xerophila* (26, 100%), *Aristida benthamii var. spinulifera* (50%), *Aristida calycina* (5, 50%), *Aristida holathera var. holathera* (2, 50%), *Aristida jerichoensis var. subspinulifera* (50%), *Bothriochloa decipiens* (2, 50%), *Chrysopogon fallax* (5, 50%), *Digitaria brownii* (2, 50%), *Digitaria divaricatissima* (50%), *Enneapogon indet.* (50%), *Enneapogon lindleyanus* (1, 50%), *Eragrostis sororia* (1, 50%), *Eriachne mucronata forma* (Alpha C.E.Hubbard 7882) (5, 50%), *Fimbristylis dichotoma* (5, 50%), *Panicum buncei* (2, 50%), *Panicum effusum* (50%), *Paspalidium caespitosum* (1, 50%)

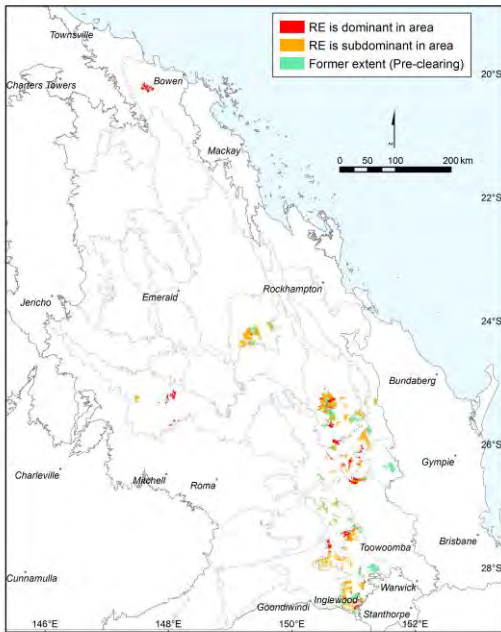
FORBS: *Bidens pilosa\** (1, 50%), *Calotis dentex* (1, 50%), *Cheilanthes sieberi subsp. sieberi* (5, 50%), *Cheilanthes tenuifolia* (1, 50%), *Chrysocephalum apiculatum* (1, 50%), *Coelospermum reticulatum* (1, 50%), *Euphorbia dallachyana* (1, 50%), *Euphorbia tannensis* (50%), *Evolvulus alsinoides* (1, 50%), *Glycine clandestina* (1, 50%), *Gomphrena celosioides\** (1, 50%), *Goodenia rotundifolia* (1, 50%), *Hibiscus sturtii* (1, 50%), *Murdannia graminea* (1, 50%), *Opuntia stricta\** (50%), *Oxalis corniculata\** (1, 50%), *Parsonsia eucalyptophylla* (50%), *Philothea difformis subsp. difformis* (1, 50%), *Phyllanthus maderaspatensis* (50%), *Psyrax forsteri* (1, 50%), *Sida rohlenae* (1, 50%), *Sida sp.* (Musselbrook M.B.Thomas+ MRS437) (50%), *Solanum parvifolium* (1, 50%), *Stylidium eglanulosum* (50%), *Wahlenbergia communis* (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

**Eucalyptus moluccana and/or E. microcarpa and/or E. woollsiana +/- E. crebra woodland on Cainozoic sand plains**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 228,908 150,967 66%

Species\_recorded: Total: 80; woody: 17; ground: 63; Avg. spp./site: 26.0; std dev.: 3.7, 3 site(s)

Basal area: Avg./site: 13.1 m<sup>2</sup>/ha, range: 10.0 - 16 m<sup>2</sup>/ha, std. deviation: 2 m<sup>2</sup>/ha, 4 site(s)

Structural formation: Open-forest: 50%; woodland: 25%; open-woodland: 25%, 4 site(s)

Representative\_sites 16807, 17459, 24580, 28899.

**Stratum: Tree 1**

Height avg. = 21.6m, range 18-26m, 4 sites

Crown cover avg. = 42.7%, range 10.0-84.0%, 4 sites

Dominant species (relative cover, frequency): *Eucalyptus woollsiana* (100, 25%), *Eucalyptus moluccana* (96, 75%), *Allocasuarina luehmannii* (5, 50%)

Frequent species (cover, frequency): *Eucalyptus moluccana* (45, 75%), *Allocasuarina luehmannii* (3, 50%), *Eucalyptus crebra* (25%), *Eucalyptus woollsiana* (30, 25%)

**Stratum: Tree 2**

Height avg. = 12.2m, range 6-18m, 3 sites

Crown cover avg. = 4.0%, range 0.0-10.0%, 3 sites

Dominant species (relative cover, frequency): *Allocasuarina luehmannii* (82, 75%), *Callitris glaucophylla* (50, 25%), *Hakea lorea subsp. lorea* (1, 25%), *Eucalyptus woollsiana* (1, 25%), *Eucalyptus crebra* (1, 25%)

Frequent species (cover, frequency): *Allocasuarina luehmannii* (3, 75%), *Callitris glaucophylla* (1, 25%), *Eucalyptus chloroclada* (25%), *Eucalyptus crebra* (25%), *Eucalyptus woollsiana* (25%), *Hakea lorea subsp. lorea* (25%)

**Stratum: Tree 3**

Height avg. = 7.8m, range 7.5-8m, 2 sites

Crown cover avg. = 12.5%, range 5.0-20.0%, 2 sites

Dominant species (relative cover, frequency): *Atalaya hemiglauca* (86, 25%), *Allocasuarina luehmannii* (75, 25%), *Callitris glaucophylla* (14, 50%), *Owenia acidula* (3, 25%), *Hakea lorea subsp. lorea* (3, 25%)

Frequent species (cover, frequency): *Callitris glaucophylla* (3, 50%), *Acacia harpophylla* (25%), *Allocasuarina luehmannii* (15, 25%), *Atalaya hemiglauca* (3, 25%), *Hakea lorea subsp. lorea* (25%), *Owenia acidula* (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. = 2.3m, range 1.5-3m, 2 sites

Crown cover avg. = 22.3%, range 10.0-30.0%, 3 sites

*Dominant species (relative cover, frequency): Allocasuarina luehmannii (56, 75%), Senna artemisioides subsp. zygophylla (31, 25%), Myoporum acuminatum (31, 25%), Acacia leiocalyx subsp. leiocalyx (20, 50%), Geijera parviflora (19, 25%)*

*Frequent species (cover, frequency): Allocasuarina luehmannii (9, 75%), Acacia leiocalyx subsp. leiocalyx (4, 50%), Callitris glaucophylla (25%), Capparis mitchellii (25%), Eucalyptus crebra (25%), Geijera parviflora (2, 25%), Grevillea striata (1, 25%), Hakea lorea subsp. lorea (25%), Myoporum acuminatum (3, 25%), Petalostigma pubescens (25%), Senna artemisioides subsp. zygophylla (3, 25%)*

**Stratum: Shrub 2**

Height avg. = 1.0m, 1 site

Crown cover avg. = 1.0%, 1 site

*Dominant species (relative cover, frequency): Callitris glaucophylla (100, 25%)*

*Frequent species (cover, frequency): Callitris glaucophylla (2, 25%)*

**Stratum: Ground**

Height avg. = 0.3m, range 0.1-0.5m, 3 sites

PFC avg. = 15.3%, range 1-30%, 3 sites

*Dominant species (relative cover, frequency): Aristida caput-medusae (39, 67%), Brunoniella australis (13, 67%), Allocasuarina indet. (9, 33%), Lomandra multiflora subsp. multiflora (6, 33%), Goodenia delicata (6, 33%)*

*Frequent species (cover, frequency): GRAMINOIDS: Cymbopogon refractus (100%), Aristida calycina (67%), Aristida caput-medusae (6, 67%), Gahnia aspera (67%), Austrostipa verticillata (33%), Chloris ventricosa (33%), Chrysopogon fallax (33%), Cyperus gracilis (33%), Digitaria ramularis (33%), Entolasia stricta (33%), Eragrostis brownii (33%), Eragrostis lacunaria (33%), Eremochloa bimaculata (33%), Fimbristylis dichotoma (33%), Gahnia sieberiana (33%), Sporobolus elongatus (33%)  
FORBS: Brunoniella australis (67%), Allocasuarina indet. (33%), Calotis indet. (33%), Carissa ovata (1, 33%), Cheilanthes distans (1, 33%), Cheilanthes indet. (33%), Cheilanthes sieberi subsp. sieberi (1, 33%), Cyanicula caerulea (33%), Dendrobium indet. (33%), Dianella indet. (33%), Dianella longifolia (33%), Dichondra sp. (Inglewood J.M. Dalby 86/93) (1, 33%), Eremophila debilis (33%), Evolvulus alsinoides (33%), Glandularia aristigera\* (33%), Goodenia delicata (33%), Lomandra filiformis (33%), Lomandra indet. (33%), Lomandra multiflora subsp. multiflora (33%), Maireana microphylla (1, 33%), Murdannia graminea (33%), Myoporum indet. (33%), Opuntia stricta\* (33%), Opuntia tomentosa\* (33%), Oxalis indet. (33%), Parsonsia eucalyptophylla (33%), Rostellularia adscendens (33%), Sida corrugata (33%), Solanum indet. (33%), Spermacoce brachystema (33%), Tricoryne elatior (33%), Wahlenbergia indet. (33%)*

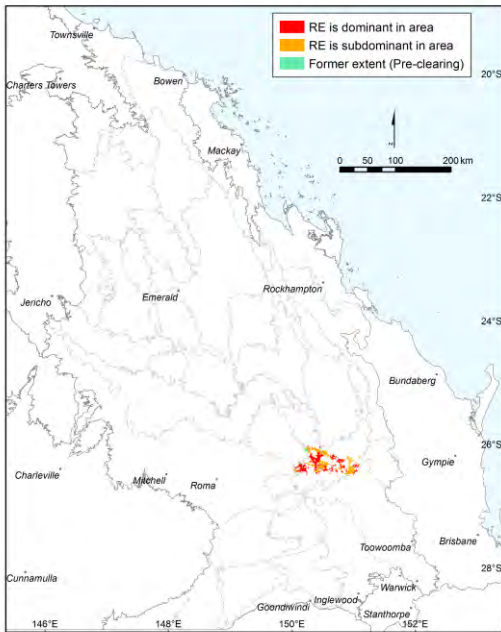
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**Dominant species:** Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with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

**Corymbia bloxsomei +/- Callitris glaucophylla +/- Eucalyptus crebra +/- Angophora leiocarpa woodland on Cainozoic sand plains and/or remnant surfaces**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 76,412 71,589 94%

Species\_recorded: Total: 110; woody: 33; ground: 85; Avg. spp./site: 34.8; std dev.: 6.1, 5 site(s)

Basal area: Avg./site: 17.9 m<sup>2</sup>/ha, range: 7.0 - 33 m<sup>2</sup>/ha, std. deviation: 9 m<sup>2</sup>/ha, 5 site(s)

Structural formation: Woodland: 80%; open-woodland: 20%, 5 site(s)

Representative\_sites 16659, 16661, 16666, 40996, 40997.

**Stratum: Emergent**

Height avg. = 25.0m, 1 site

Crown cover avg. = 4.0%, 1 site

Frequent species (cover, frequency): *Angophora leiocarpa* (4, 20%), *Eucalyptus moluccana* (1, 20%)

**Stratum: Tree 1**

Height avg. = 19.8m, range 11-29m, 5 sites

Crown cover avg. = 33.2%, range 18.0-48.0%, 5 sites

Dominant species (relative cover, frequency): *Corymbia bloxsomei* (59, 80%), *Callitris glaucophylla* (52, 40%), *Allocasuarina luehmannii* (36, 40%)

Frequent species (cover, frequency): *Corymbia bloxsomei* (20, 80%), *Allocasuarina luehmannii* (15, 40%), *Callitris glaucophylla* (16, 40%), *Amyema gaudichaudii* (20%), *Angophora costata subsp. costata* (20%), *Dendrophthoe glabrescens* (20%), *Eucalyptus chloroclada* (4, 20%), *Eucalyptus crebra* (8, 20%), *Eucalyptus longirostrata* (3, 20%), *Lysicarpus angustifolius* (3, 20%), *Melaleuca decora* (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: Tree 2**

Height avg. = 8.0m, range 7-9m, 4 sites

Crown cover avg. = 32.0%, range 19.0-38.0%, 4 sites

*Dominant species (relative cover, frequency): Callitris glaucophylla (61, 80%), Lysicarpus angustifolius (33, 40%), Corymbia bloxsomei (8, 80%), Allocasuarina inophloia (4, 60%)*

*Frequent species (cover, frequency): Callitris glaucophylla (17, 80%), Corymbia bloxsomei (2, 80%), Allocasuarina inophloia (1, 60%), Lysicarpus angustifolius (13, 40%), Allocasuarina luehmannii (6, 20%), Callitris endlicheri (5, 20%), Eucalyptus chloroclada (5, 20%)*

**Stratum: Tree 3**

Height avg. = 5.0m, 1 site

Crown cover avg. = 5.0%, 1 site

*Frequent species (cover, frequency): Acacia conferta (20%), Allocasuarina inophloia (2, 20%), Callitris endlicheri (2, 20%), Callitris glaucophylla (20%), Lysicarpus angustifolius (2, 20%)*

**Stratum: Shrub 1**

Height avg. = 2.2m, range 1-3m, 5 sites

Crown cover avg. = 23.8%, range 1.0-55.0%, 5 sites

*Dominant species (relative cover, frequency): Allocasuarina luehmannii (62, 40%), Acacia conferta (25, 40%), Callitris glaucophylla (9, 80%), Lysicarpus angustifolius (3, 40%), Jacksonia scoparia (2, 40%)*

*Frequent species (cover, frequency): Callitris glaucophylla (2, 80%), Acacia conferta (2, 40%), Allocasuarina luehmannii (5, 40%), Jacksonia scoparia (40%), Leucopogon biflorus (40%), Lysicarpus angustifolius (2, 40%), Acacia caroleae (3, 20%), Acacia crassa subsp. crassa (6, 20%), Acacia johnsonii (1, 20%), Allocasuarina inophloia (2, 20%), Amyema gaudichaudii (20%), Angophora leiocarpa (20%), Boronia glabra (7, 20%), Boronia occidentalis (20%), Dodonaea peduncularis (20%), Eucalyptus chloroclada (20%), Eucalyptus tenuipes (20%), Homoranthus melanostictus (20%), Leucopogon muticus (42, 20%), Melichrus urceolatus (20%), Prostanthera cryptandroides subsp. euphrasioides (35, 20%), Pultenaea microphylla (20%)*

**Stratum: Shrub 2**

Height avg. = 0.5m, 1 site

Crown cover avg. = 32.0%, 1 site

*Frequent species (cover, frequency): Acacia conferta (20%), Acacia johnsonii (2, 20%), Agiortia pleiosperma (20%), Corymbia bloxsomei (20%), Geijera parviflora (20%), Homoranthus melanostictus (24, 20%), Kunzea opposita var. opposita (20%), Leucopogon biflorus (20%), Melichrus urceolatus (6, 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. = 0.2m, range 0.1-0.5m, 5 sites

PFC avg. = 23.2%, range 9-48%, 5 sites

*Dominant species (relative cover, frequency):* *Aristida jerichoensis* var. *jerichoensis* (26, 40%), *Themeda triandra* (11, 80%), *Eulalia aurea* (9, 40%), *Hypericum gramineum* (7, 40%), *Leucopogon biflorus* (6, 40%)

*Frequent species (cover, frequency):* GRAMINOIDS: *Eragrostis sororia* (1, 80%), *Fimbristylis dichotoma* (80%), *Gahnia aspera* (80%), *Themeda triandra* (2, 80%), *Eremochloa bimaculata* (1, 60%), *Aristida caput-medusae* (40%), *Aristida jerichoensis* var. *jerichoensis* (3, 40%), *Arundinella nepalensis* (40%), *Cymbopogon refractus* (40%), *Digitaria diffusa* (40%), *Eulalia aurea* (1, 40%), *Panicum simile* (40%), *Alloteropsis semialata* (20%), *Amphipogon caricinus* (20%), *Aristida calycina* (20%), *Aristida jerichoensis* (20%), *Aristida personata* (1, 20%), *Aristida sciuroides* (3, 20%), *Aristida vagans* (20%), *Cyperus squarrosus* (20%), *Digitaria breviglumis* (20%), *Digitaria parviflora* (20%), *Entolasia stricta* (46, 20%), *Eriachne mucronata* (20%), *Lepidosperma laterale* (4, 20%), *Setaria surgens* (20%), *Sporobolus elongatus* (20%)

FORBS: *Cheilanthes sieberi* (2, 60%), *Laxmannia gracilis* (60%), *Melichrus urceolatus* (60%), *Pomax umbellata* (1, 60%), *Brachyscome microcarpa* (40%), *Chrysocephalum apiculatum* (40%), *Cyanicula caerulea* (40%), *Dianella longifolia* var. *longifolia* (40%), *Dianella revoluta* (40%), *Dodonaea macrossanii* (40%), *Drosera indet.* (40%), *Goodenia delicata* (40%), *Hypericum gramineum* (2, 40%), *Leucopogon biflorus* (1, 40%), *Lomandra leucocephala* (40%), *Lomandra leucocephala* subsp. *leucocephala* (40%), *Lomandra multiflora* subsp. *multiflora* (1, 40%), *Poranthera microphylla* (1, 40%), *Acacia johnsonii* (20%), *Acacia spectabilis* (20%), *Allocasuarina luehmannii* (20%), *Brachyloma daphnoides* (20%), *Brachyscome whitei* subsp. *whitei* (8, 20%), *Brunoniella australis* (20%), *Cheilanthes sieberi* subsp. *sieberi* (20%), *Commelina diffusa* (20%), *Coronidium oxylepis* subsp. *lanatum* (20%), *Corymbia bloxsomei* (20%), *Cyanthillium cinereum* (20%), *Dianella caerulea* (20%), *Erigeron canadensis*\* (20%), *Glycine clandestina* var. *clandestina* (20%), *Gonocarpus micranthus* subsp. *ramosissimus* (6, 20%), *Grevillea floribunda* subsp. *floribunda* (20%), *Grevillea singuliflora* (20%), *Hakea purpurea* (20%), *Hibbertia stricta* (20%), *Hibbertia stricta* var. *hirtiflora* (20%), *Jacksonia scoparia* (20%), *Leucopogon muticus* (20%), *Lomandra confertifolia* (20%), *Lomandra confertifolia* subsp. *pallida* (2, 20%), *Lomandra filiformis* (20%), *Lomandra filiformis* subsp. *filiformis* (20%), *Lomandra longifolia* (20%), *Lomandra patens* (20%), *Mitrasacme paludosa* (20%), *Murdannia graminea* (20%), *Olearia ramulosa* (20%), *Oxalis perennans* (20%), *Persoonia sericea* (20%), *Pimelea linifolia* subsp. *linifolia* (20%), *Platysace ericoides* (20%), *Prostanthera cryptandroides* subsp. *euphrasioides* (20%), *Salvia plebeia* (20%), *Sonchus oleraceus*\* (20%), *Wahlenbergia gracilis* (1, 20%), *Westringia cheelii* (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