



## Regional Ecosystem Technical Descriptions

Technical descriptions provide a detailed description of the full range in structure and floristic composition of regional ecosystems (e.g. 9.10.3) and their component vegetation communities (e.g. 9.10.3a, 9.10.3b).

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.* 2012 section 3.3.1).

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 Science, Information Technology, Innovation and the Arts

### Conditions of use

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Users should reference information contained in the technical descriptions as: Addicott, E.P. and Newton, M. (ed.) (year\*) Technical Descriptions of Regional Ecosystems of the Einasleigh Uplands, (month, year\*) (Queensland Herbarium, Department of Science, Information Technology, Innovation and the Arts: Brisbane). \* Date shown in footnote of individual descriptions.

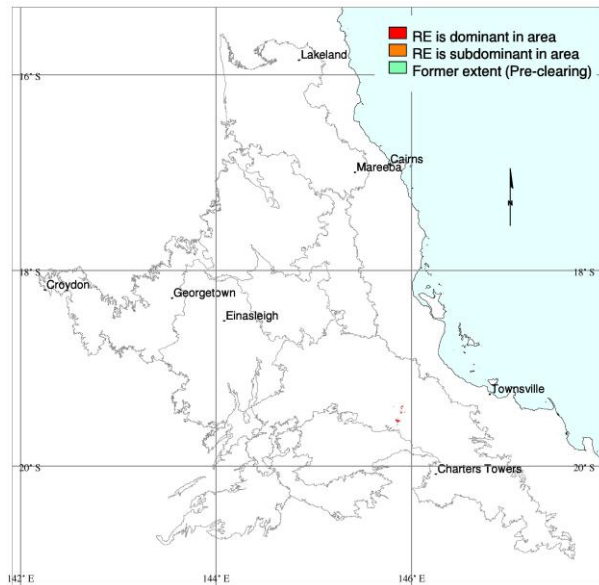
While every effort has been made to ensure the information presented is as reliable as possible, the State of Queensland accepts no liability and gives no assurance in respect of its accuracy and shall not be liable for any loss or damage arising from its use.

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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**Eucalyptus cambageana woodland with a shrub layer of Eremophila mitchellii, Psydrax oleifolia, Flindersia maculosa and Lysiphyllum spp. on clay lenses in Cainozoic plains**



M. Newton

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 1,253 1,169 93%

Species recorded: Total: 17; woody: 9; ground: 9; Avg. spp./site: 17.0; std dev.: 0.0, 1 site(s)

Basal area: Avg./site: 4.0 m<sup>2</sup>/ha, range: 4.0 - 4 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: 27076.

**Stratum: T1**

Height avg. = 16.0m, 1 site

Crown cover avg. = 38.0%, 1 site

Stem density/ha avg. = 100, 1 site

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

*Frequent species (cover, frequency): Eucalyptus cambageana (38, 100%)*

**Stratum: T2**

Height avg. = 5.0m, 1 site

Crown cover avg. = 0.6%, 1 site

Stem density/ha avg. = 160, 1 site

*Dominant species (relative cover, frequency): Eremophila mitchellii (96, 100%), Psydrax oleifolia (1, 100%), Owenia acidula (1, 100%), Lysiphyllum carronii (1, 100%), Flindersia dissosperma (1, 100%)*

*Frequent species (cover, frequency): Eremophila mitchellii (2, 100%), Flindersia dissosperma (100%), Lysiphyllum carronii (100%), Owenia acidula (100%), Psydrax oleifolia (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.

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

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

**Stratum: S1**

Height avg. = 1.5m, 1 site

Crown cover avg. = 0.0%, 1 site

Stem density/ha avg. = 300, 1 site

*Dominant species (relative cover, frequency):* *Owenia acidula* (14, 100%), *Lysiphyllum carronii* (14, 100%), *Flindersia dissosperma* (14, 100%), *Eremophila mitchellii* (14, 100%), *Carissa ovata* (14, 100%)

*Frequent species (cover, frequency):* *Atalaya hemiglauca* (100%), *Capparis lasiantha* (100%), *Carissa ovata* (100%), *Eremophila mitchellii* (100%), *Flindersia dissosperma* (100%), *Lysiphyllum carronii* (100%), *Owenia acidula* (100%)

**Stratum: G**

Height avg. = 0.3m, 1 site

PFC avg. = 25.0%, 1 site

*Dominant species (relative cover, frequency):* *Paspalidium indet.* (69, 100%), *Enteropogon indet.* (27, 100%), *Boerhavia indet.* (2, 100%)

*Frequent species (cover, frequency):* **GRAMINOIDS:** *Dactyloctenium radulans* (100%), *Enteropogon indet.* (7, 100%), *Paspalidium indet.* (18, 100%), *Pennisetum ciliare\** (100%)

**FORBS:** *Angiosperm indet.* (100%), *Boerhavia indet.* (1, 100%), *Chenopodiaceae indet.* (100%), *Maireana indet.* (100%), *Salsola kali* (100%)

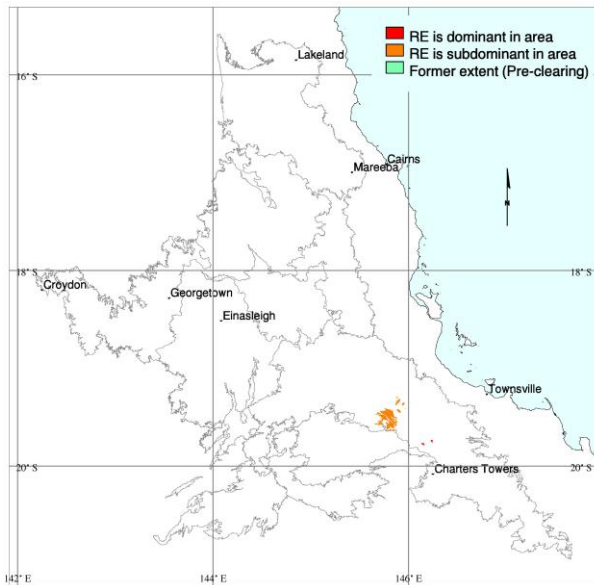
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Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency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

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

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

**Eucalyptus persistens or E. brownii open-woodland with a shrub layer of Eremophila mitchellii, Psydrax oleifolia, Flindersia maculosa and Lysiphylum spp. on clay lenses in Cainozoic plains**



M. Newton

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 10,155 9,974 98%

Species recorded: Total: 38; woody: 17; ground: 25; Avg. spp./site: 28.0; std dev.: 0.0, 2 site(s)

Basal area: Avg./site: 7.0 m<sup>2</sup>/ha, range: 6.5 - 8 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: 27082, 27084.

**Stratum: T1**

Height avg. = 16.5m, range 16-17m, 2 sites

Crown cover avg. = 18.1%, range 15.9-20.3%, 2 sites

Stem density/ha avg. = 110, range 80-140, 2 sites

*Dominant species (relative cover, frequency): Eucalyptus persistens (94, 100%), Lysiphylum carronii (12, 50%)*

*Frequent species (cover, frequency): Eucalyptus persistens (17, 100%), Eremophila mitchellii (50%), Lysiphylum carronii (2, 50%), Ventilago viminalis (50%)*

**Stratum: T2**

Height avg. = 7.0m, range 6-8m, 2 sites

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

Stem density/ha avg. = 140, 1 site

*Dominant species (relative cover, frequency): Lysiphylum carronii (33, 50%), Flindersia dissosperma (33, 50%), Eucalyptus persistens (33, 100%), Eremophila mitchellii (33, 100%)*

*Frequent species (cover, frequency): Eremophila mitchellii (100%), Eucalyptus persistens (100%), Flindersia dissosperma (50%), Lysiphylum carronii (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.

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

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

**Stratum: S1**

Height avg. = 3.0m, range 3-3m, 2 sites

Crown cover avg. = 1.6%, range 1.6-1.6%, 2 sites

Stem density/ha avg. = 1100, range 680-1520, 2 sites

*Dominant species (relative cover, frequency): Erythroxylum australe (48, 50%), Atalaya hemiglauca (22, 100%), Carissa ovata (22, 100%), Angiosperm indet. (14, 100%), Maytenus cunninghamii (13, 50%)*

*Frequent species (cover, frequency): Angiosperm indet. (100%), Atalaya hemiglauca (1, 100%), Carissa ovata (1, 100%), Eremophila mitchellii (100%), Ventilago viminalis (100%), Acacia indet. (50%), Capparis lasiantha (50%), Cryptostegia grandiflora\* (50%), Dendrobium canaliculatum (50%), Dolichandrone heterophylla (50%), Erythroxylum australe (1, 50%), Eucalyptus persistens (50%), Flindersia dissosperma (50%), Lysiphyllum carronii (50%), Maytenus cunninghamii (50%), Psydrax oleifolia (50%), Santalum lanceolatum (50%)*

**Stratum: G**

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

PFC avg. = 33.0%, range 24-42%, 2 sites

*Dominant species (relative cover, frequency): Carissa ovata (29, 50%), Chrysopogon fallax (27, 100%), Bothriochloa bladhii (19, 100%), Pennisetum ciliare\* (12, 100%), Enteropogon indet. (9, 50%)*

*Frequent species (cover, frequency): GRAMINOIDS: Aristida indet. (1, 100%), Bothriochloa bladhii (6, 100%), Chrysopogon fallax (11, 100%), Echinochloa indet. (2, 100%), Enneapogon indet. (2, 100%), Melinis repens\* (1, 100%), Pennisetum ciliare\* (3, 100%), Bothriochloa pertusa\* (50%), Capillipedium parviflorum (50%), Cyperus indet. (50%), Enteropogon indet. (4, 50%), Poaceae indet. (50%)*

*FORBS: Brunoniella indet. (100%), Grewia retusifolia (100%), Sida indet. (100%), Angiosperm indet. (50%), Boerhavia indet. (50%), Cajanus indet. (50%), Capparis lasiantha (50%), Carissa ovata (7, 50%), Hybanthus indet. (1, 50%), Indigofera pratensis (50%), Lysiphyllum carronii (50%), Ocimum indet. (50%), Salsola kali (50%)*

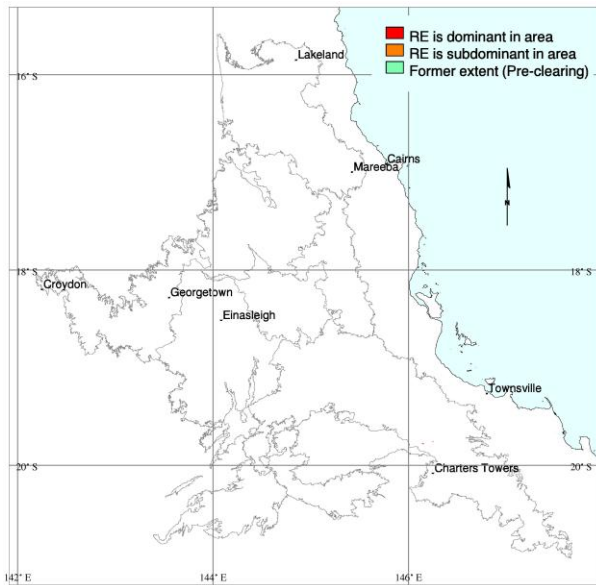
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Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency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

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species 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 Lysiphyllum carronii open-woodland on Cainozoic clays**



M. Newton

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 137 137 100%

Species recorded: Total: 42; woody: 14; ground: 31; Avg. spp./site: 32.0; std dev.: 0.0, 1 site(s)

Basal area: Avg./site: 2.8 m<sup>2</sup>/ha, range: 2.0 - 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: 27081, 27083.

**Stratum: T1**

Height avg. = 17.0m, range 14-20m, 2 sites

Crown cover avg. = 13.8%, range 13.8-13.8%, 2 sites

Stem density/ha avg. = 90, range 60-120, 2 sites

*Dominant species (relative cover, frequency): Acacia harpophylla (80, 100%), Lysiphyllum carronii (20, 100%)*

*Frequent species (cover, frequency): Acacia harpophylla (12, 100%), Lysiphyllum carronii (3, 100%), Cryptostegia grandiflora\* (50%)*

**Stratum: T2**

Height avg. = 4.5m, range 4-5m, 2 sites

Crown cover avg. = 1.1%, range 0.6-1.6%, 2 sites

Stem density/ha avg. = 310, range 180-440, 2 sites

*Dominant species (relative cover, frequency): Lysiphyllum carronii (43, 100%), Eremophila mitchellii (43, 100%), Acacia harpophylla (16, 50%), Owenia acidula (3, 50%), Erythroxylum australe (3, 50%)*

*Frequent species (cover, frequency): Cryptostegia grandiflora\* (100%), Eremophila mitchellii (100%), Lysiphyllum carronii (4, 100%), Psyrdrax oleifolia (100%), Acacia harpophylla (2, 50%), Atalaya hemiglauca (50%), Erythroxylum australe (50%), Eucalyptus persistens (50%), Owenia acidula (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.

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

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

**Stratum: S1**

Height avg. = 1.4m, range 1.3-1.5m, 2 sites

Crown cover avg. = 1.5%, range 0.0-2.9%, 2 sites

Stem density/ha avg. = 1070, range 560-1580, 2 sites

*Dominant species (relative cover, frequency):* *Psydrax oleifolia* (64, 100%), *Angiosperm indet.* (10, 50%), *Atalaya hemiglauca* (10, 100%), *Carissa ovata* (6, 100%), *Santalum lanceolatum* (4, 50%)

*Frequent species (cover, frequency):* *Atalaya hemiglauca* (100%), *Carissa ovata* (100%), *Cryptostegia grandiflora\** (100%), *Eremophila mitchellii* (100%), *Lysiphyllum carronii* (100%), *Psydrax oleifolia* (1, 100%), *Acacia harpophylla* (50%), *Acacia indet.* (50%), *Angiosperm indet.* (50%), *Bursaria incana* (50%), *Erythroxylum australe* (50%), *Santalum lanceolatum* (50%)

**Stratum: G**

Height avg. = 0.5m, 1 site

PFC avg. = 72.0%, 1 site

*Dominant species (relative cover, frequency):* *Dichanthium indet.* (62, 50%), *Dactyloctenium indet.* (23, 50%), *Sporobolus indet.* (4, 50%), *Eragrostis indet.* (3, 50%), *Pennisetum ciliare\** (3, 50%)

*Frequent species (cover, frequency):* **GRAMINOIDS:** *Aristida indet.* (50%), *Bothriochloa pertusa\** (50%), *Chrysopogon fallax* (50%), *Dactyloctenium indet.* (17, 50%), *Dichanthium indet.* (45, 50%), *Echinochloa indet.* (2, 50%), *Enteropogon indet.* (50%), *Eragrostis indet.* (2, 50%), *Oxychloris scariosa* (50%), *Pennisetum ciliare\** (2, 50%), *Poaceae indet.* (50%), *Sporobolus indet.* (3, 50%)

**FORBS:** *Brunoniella indet.* (50%), *Convolvulaceae indet.* (50%), *Grevillea striata* (50%), *Maireana indet.* (50%), *Phyllanthus indet.* (50%), *Ptilotus indet.* (50%), *Sida indet.* (1, 50%)

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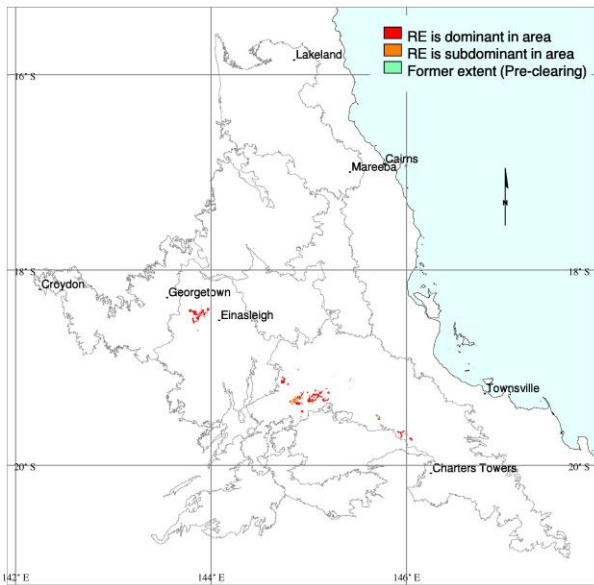
Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum.

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

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



**Eucalyptus similis open-forest on red kandosols on Tertiary plateaus, mesas and tablelands**



M. Newton

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 22,516 21,523 96%

Species recorded: Total: 90; woody: 25; ground: 68; Avg. spp./site: 25.2; std dev.: 5.6, 5 site(s)

Basal area: Avg./site: 5.6 m<sup>2</sup>/ha, range: 3.0 - 11 m<sup>2</sup>/ha, std. deviation: 3 m<sup>2</sup>/ha, 6 site(s)

Structural formation: Woodland: 50%; open-forest: 50%, 6 site(s)

Representative sites: 26123, 26676, 26681, 26696, 26878, 26886.

**Stratum: E**

Height avg. = 16.0m, range 16-16m, 2 sites  
 Crown cover avg. = 6.7%, range 1.6-11.8%, 2 sites  
 Stem density/ha avg. = 40, range 40-40, 2 sites

*Frequent species (cover, frequency): Corymbia clarksoniana (6, 17%), Corymbia erythrophloia (17%), Eucalyptus crebra (4, 17%), Eucalyptus drepanophylla (1, 17%)*

**Stratum: T1**

Height avg. = 11.0m, range 8-13m, 6 sites  
 Crown cover avg. = 49.1%, range 27.0-64.7%, 6 sites  
 Stem density/ha avg. = 193, range 120-340, 6 sites

*Dominant species (relative cover, frequency): Eucalyptus similis (80, 83%), Corymbia setosa (43, 50%), Corymbia erythrophloia (16, 33%), Corymbia clarksoniana (3, 50%), Eucalyptus crebra (1, 33%)*

*Frequent species (cover, frequency): Eucalyptus similis (37, 83%), Corymbia clarksoniana (2, 50%), Corymbia setosa (17, 50%), Corymbia erythrophloia (8, 33%), Eucalyptus crebra (33%), Corymbia polycarpa (17%), Eucalyptus cullenii (17%), Eucalyptus drepanophylla (17%), Eucalyptus exserta (6, 17%), Grevillea glauca (17%), Grevillea parallela (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.

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

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

**Stratum: T2**

Height avg. = 7.2m, range 6-8m, 3 sites

Crown cover avg. = 14.2%, range 1.6-29.2%, 3 sites

Stem density/ha avg. = 167, range 40-360, 3 sites

*Dominant species (relative cover, frequency): Melaleuca nervosa (69, 33%), Grevillea glauca (53, 33%), Grevillea parallela (27, 33%), Acacia julifera (1, 33%)*

*Frequent species (cover, frequency): Acacia julifera (33%), Grevillea glauca (7, 33%), Grevillea parallela (4, 33%), Melaleuca nervosa (5, 33%), Eucalyptus crebra (17%)*

**Stratum: S1**

Height avg. = 2.4m, range 1-3m, 4 sites

Crown cover avg. = 5.0%, range 2.9-7.9%, 4 sites

Stem density/ha avg. = 525, range 40-1340, 4 sites

*Dominant species (relative cover, frequency): Petalostigma banksii (63, 33%), Grevillea parallela (1, 33%)*

*Frequent species (cover, frequency): Grevillea parallela (33%), Petalostigma banksii (4, 33%), Acacia julifera (4, 17%), Acacia julifera subsp. julifera (17%), Acacia longispicata (17%), Acacia simsii (17%), Bossiaea armitii (17%), Corymbia erythrophloia (17%), Eucalyptus similis (17%), Gastrolobium grandiflorum (17%), Grevillea glauca (17%), Grewia retusifolia (2, 17%), Hovea indet. (2, 17%), Indigofera pratensis (17%), Leptosema oxylobioides (17%), Planchonia careya (17%), Pogonolobus reticulatus (17%)*

**Stratum: G**

Height avg. = 0.6m, range 0.5-0.8m, 5 sites

PFC avg. = 77.2%, range 28-99%, 5 sites

*Dominant species (relative cover, frequency): Sarga plumosum (50, 33%), Themeda triandra (40, 83%), Uraria lagopodioides (8, 33%), Aristida calycina (5, 50%), Eragrostis interrupta (4, 33%)*

*Frequent species (cover, frequency): GRAMINOIDS: Themeda triandra (32, 83%), Aristida calycina (2, 50%), Alloteropsis semialata (33%), Eragrostis interrupta (4, 33%), Heteropogon contortus (4, 33%), Heteropogon triticeus (33%), Melinis repens\* (33%), Panicum indet. (4, 33%), Sarga plumosum (28, 33%), Aristida indet. (7, 17%), Arundinella setosa (6, 17%), Capillipedium indet. (2, 17%), Chrysopogon fallax (2, 17%), Cymbopogon bombycinus (4, 17%), Digitaria ammophila (17%), Digitaria brownii (17%), Enneapogon polyphyllus (17%), Eriachne mucronata (8, 17%), Mnesithea formosa (17%), Panicum effusum var. simile (17%), Schizachyrium fragile (17%)*

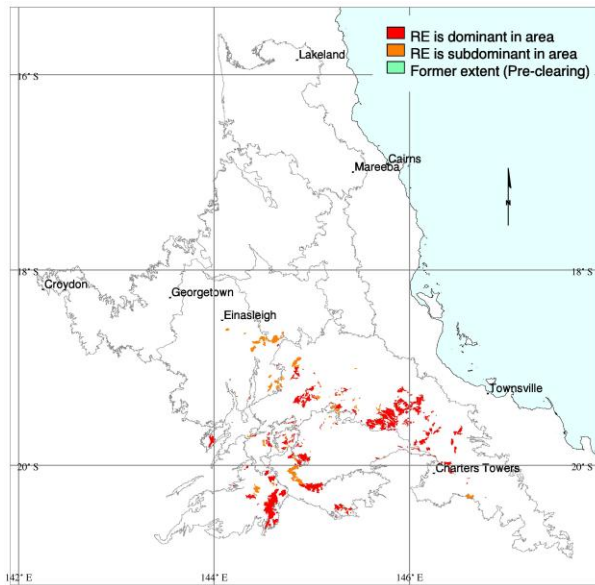
*FORBS: Cyathillium cinereum (50%), Glycine tomentella (1, 50%), Tephrosia juncea (50%), Blumea saxatilis (33%), Crotalaria medicaginea (33%), Glycine indet. (1, 33%), Poranthera microphylla (33%), Rhynchosia minima (1, 33%), Uraria lagopodioides (7, 33%), Zornia indet. (33%), Zornia muelleriana subsp. muelleriana (33%), Zornia muriculata (33%), Aeschynomene brevifolia (17%), Brunoniella acaulis (17%), Brunoniella australis (17%), Brunoniella indet. (17%), Chamaecrista absus (17%), Chamaecrista indet. (17%), Crotalaria brevis (17%), Crotalaria indet. (2, 17%), Desmodium brachypodium (17%), Desmodium filiforme (17%), Desmodium indet. (17%), Desmodium rhytidophyllum (7, 17%), Dianella rara (17%), Evolvulus alsinoides (17%), Galactia tenuiflora (17%), Galactia tenuiflora forma sericea (17%), Indigofera linifolia (17%), Indigofera linnaei (17%), Indigofera pratensis (1, 17%), Lomandra indet. (17%), Lomandra longifolia (17%), Lomandra multiflora (4, 17%), Phyllanthus virgatus (17%), Pogonolobus reticulatus (17%), Pterocaulon sphacelatum (17%), Pycnospora lutescens (17%), Wedelia indet. (17%), Wedelia spilanthis (1, 17%)*

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

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species 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 or E. drepanophylla and Corymbia clarksoniana woodland on sand plains**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 185,184 180,363 97%

Species recorded: Total: 152; woody: 49; ground: 114; Avg. spp./site: 26.3; std dev.: 5.7, 10 site(s)

Basal area: Avg./site: 6.1 m<sup>2</sup>/ha, range: 3.0 - 11 m<sup>2</sup>/ha, std. deviation: 3 m<sup>2</sup>/ha, 8 site(s)

Structural formation: Woodland: 55%; open-woodland: 45%, 11 site(s)

Representative sites: 19296, 25797, 25829, 26108, 26679, 26680, 26876, 26899, 26903, 27115, 27118.

**Stratum: T1**

Height avg. = 18.1m, range 15-22m, 11 sites

Crown cover avg. = 28.4%, range 9.8-54.3%, 11 sites

Stem density/ha avg. = 114, range 40-300, 7 sites

Dominant species (relative cover, frequency): *Eucalyptus crebra* (81, 82%), *Corymbia clarksoniana* (23, 73%)

Frequent species (cover, frequency): *Eucalyptus crebra* (20, 82%), *Corymbia clarksoniana* (9, 73%), *Corymbia dallachiana* (3, 18%), *Corymbia erythrophloia* (3, 9%), *Corymbia lamprophylla* (9%), *Corymbia tessellaris* (9%), *Eucalyptus brownii* (2, 9%), *Eucalyptus camaldulensis* (9%), *Eucalyptus drepanophylla* (25, 9%), *Eucalyptus exilipes* (34, 9%), *Eucalyptus platyphylla* (9%)

**Stratum: T2**

Height avg. = 7.2m, range 5-11m, 6 sites

Crown cover avg. = 5.6%, range 0.0-27.0%, 7 sites

Stem density/ha avg. = 136, range 20-420, 5 sites

Frequent species (cover, frequency): *Alphitonia excelsa* (18%), *Corymbia clarksoniana* (18%), *Eucalyptus crebra* (18%), *Grevillea glauca* (18%), *Grevillea parallela* (1, 18%), *Petalostigma pubescens* (18%), *Acacia excelsa* (9%), *Acacia shirleyi* (3, 9%), *Archidendropsis basaltica* (9%), *Bursaria incana* (9%), *Corymbia dallachiana* (9%), *Corymbia lamprophylla* (6, 9%), *Corymbia setosa* (6, 9%), *Denhamia oleaster* (9%), *Eucalyptus exilipes* (6, 9%), *Eucalyptus exserta* (2, 9%), *Eucalyptus persistens* (9%), *Geijera salicifolia* (9%), *Grevillea striata* (9%), *Hakea lorea subsp. lorea* (9%), *Persoonia falcata* (9%), *Petalostigma banksii* (9%), *Terminalia aridicola* (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.

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

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

**Stratum: S1**

Height avg. = 2.3m, range 1-5m, 10 sites

Crown cover avg. = 1.0%, range 0.0-6.1%, 10 sites

Stem density/ha avg. = 273, range 40-660, 6 sites

*Dominant species (relative cover, frequency):* *Petalostigma pubescens* (41, 45%), *Eucalyptus crebra* (40, 27%), *Maytenus cunninghamii* (31, 36%), *Erythroxylum australe* (9, 27%), *Atalaya hemiglaucula* (9, 27%)

*Frequent species (cover, frequency):* *Petalostigma pubescens* (45%), *Maytenus cunninghamii* (36%), *Atalaya hemiglaucula* (27%), *Erythroxylum australe* (27%), *Eucalyptus crebra* (27%), *Breynia oblongifolia* (18%), *Carissa lanceolata* (18%), *Corymbia clarksoniana* (18%), *Persoonia falcata* (18%), *Acacia bidwillii* (9%), *Acacia excelsa* (9%), *Acacia indet.* (9%), *Acacia nesophila* (9%), *Acacia shirleyi* (9%), *Alphitonia excelsa* (9%), *Alstonia constricta* (9%), *Bursaria incana* (9%), *Capparis canescens* (9%), *Capparis indet.* (9%), *Carissa ovata* (9%), *Corymbia setosa* (9%), *Denhamia oleaster* (9%), *Dolichandrone heterophylla* (9%), *Eucalyptus drepanophylla* (9%), *Eucalyptus exilipes* (2, 9%), *Geijera salicifolia* (9%), *Grevillea glauca* (9%), *Grewia retusifolia* (9%), *Melaleuca nervosa* (9%), *Owenia acidula* (9%), *Pandorea pandorana* (9%), *Petalostigma banksii* (3, 9%), *Terminalia aridicola* (9%), *Terminalia indet.* (9%)

**Stratum: S2**

Height avg. = 0.8m, 1 site

Crown cover avg. = 0.6%, 1 site

*Frequent species (cover, frequency):* *Breynia oblongifolia* (9%), *Grewia retusifolia* (9%), *Tephrosia brachyodon* (9%), *Waltheria indica* (9%)

**Stratum: G**

Height avg. = 0.7m, range 0.3-1.4m, 10 sites

PFC avg. = 55.6%, range 20-99%, 10 sites

*Dominant species (relative cover, frequency):* *Heteropogon contortus* (22, 73%), *Themeda triandra* (19, 45%), *Melinis repens*\* (18, 45%), *Heteropogon triticeus* (11, 45%), *Chrysopogon fallax* (9, 36%)

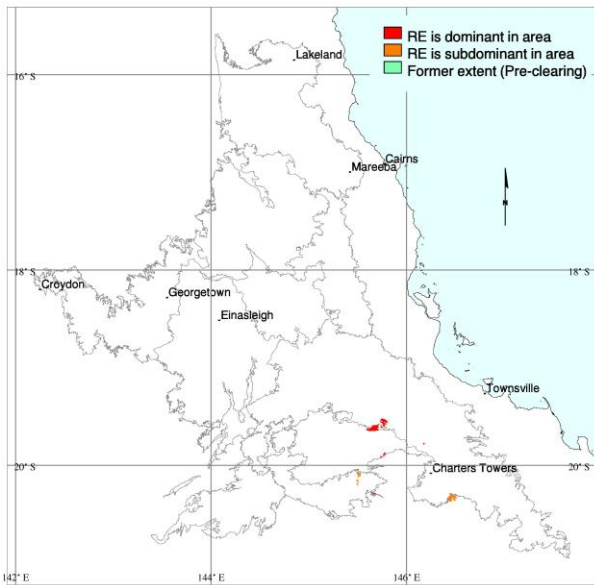
*Frequent species (cover, frequency):* GRAMINOIDS: *Heteropogon contortus* (10, 73%), *Heteropogon triticeus* (5, 45%), *Melinis repens*\* (10, 45%), *Themeda triandra* (19, 45%), *Aristida calycina* (36%), *Chrysopogon fallax* (4, 36%), *Aristida indet.* (1, 27%), *Eragrostis indet.* (27%), *Tripogon loliiformis* (1, 27%), *Aristida holathera* var. *holathera* (18%), *Arundinella nepalensis* (3, 18%), *Bothriochloa bladhii* (3, 18%), *Bothriochloa pertusa*\* (2, 18%), *Chrysopogon indet.* (5, 18%), *Enneapogon lindleyanus* (2, 18%), *Eriachne indet.* (1, 18%), *Panicum indet.* (2, 18%), *Sarga plumosum* (32, 18%), *Abildgaardia indet.* (9%), *Aristida queenslandica* (9%), *Bothriochloa decipiens* var. *cloncurrans* (20, 9%), *Bothriochloa decipiens* var. *decipiens* (5, 9%), *Cleistochloa subjuncea* (9%), *Cymbopogon ambiguus* (6, 9%), *Cymbopogon bombycinus* (9%), *Cymbopogon indet.* (1, 9%), *Cyperus indet.* (1, 9%), *Cyperus leiocaulon* (9%), *Dichanthium indet.* (9%), *Digitaria breviglumis* (4, 9%), *Digitaria indet.* (2, 9%), *Digitaria longiflora* (2, 9%), *Enneapogon indet.* (9%), *Eriachne mucronata* (9%), *Eulalia aurea* (9%), *Fimbristylis dichotoma* (10, 9%), *Fimbristylis indet.* (9%), *Panicum effusum* (9%), *Paspalidium gracile* (9%), *Perotis rara* (1, 9%), *Scleria brownii* (3, 9%), *Scleria sphacelata* (9%), *Setaria indet.* (9%), *Sporobolus indet.* (9%), *Urochloa piligera* (9%)  
 FORBS: *Grewia retusifolia* (3, 55%), *Evolvulus alsinoides* (45%), *Stylosanthes indet.* (1, 45%), *Glycine indet.* (36%), *Indigofera linnaei* (2, 36%), *Rostellularia adscendens* (36%), *Angiosperm indet.* (27%), *Cyanthillium cinereum* (27%), *Glycine tomentella* (1, 27%), *Indigofera pratensis* (27%), *Malvastrum americanum*\* (27%), *Phyllanthus indet.* (27%), *Sida indet.* (27%), *Asteraceae indet.* (18%), *Brunoniella australis* (18%), *Chrysocephalum apiculatum* (18%), *Crotalaria indet.* (18%), *Crotalaria medicaginea* (18%), *Desmodium indet.* (18%), *Hybanthus enneaspermus* (18%), *Solanum ellipticum* (18%), *Tephrosia juncea* (18%), *Wedelia indet.* (1, 18%), *Aeschynomene brevifolia* (9%), *Alternanthera denticulata* (9%), *Alysicarpus indet.* (9%), *Brunoniella indet.* (9%), *Bursaria incana* (9%), *Chamaecrista absus* var. *absus* (1, 9%), *Commelina diffusa* (9%), *Commelina indet.* (9%), *Desmodium filiforme* (7, 9%), *Desmodium muelleri* (6, 9%), *Erythroxylum australe* (9%), *Galactia tenuiflora* (2, 9%), *Glycine clandestina* (9%), *Hovea indet.* (9%), *Hybanthus indet.* (9%), *Indigofera colutea* (1, 9%), *Indigofera hirsuta* (9%), *Jacquemontia indet.* (9%), *Lamprolobium fruticosum* (9%), *Larsenaikia ochreatea* (9%), *Laxmannia gracilis* (9%), *Lomandra indet.* (9%), *Lomandra multiflora* (9%), *Lomandra multiflora* subsp. *multiflora* (9%), *Murdannia indet.* (9%), *Myoporum acuminatum* (9%), *Notelaea indet.* (9%), *Persoonia falcata* (9%), *Petalostigma pubescens* (9%), *Pimelea indet.* (9%), *Polycarpha corymbosa* (9%), *Polymeria indet.* (9%), *Poranthera microphylla* (9%), *Pratia indet.* (5, 9%), *Rhynchosia minima* (9%), *Richardia brasiliensis*\* (9%), *Rostellularia adscendens* var. *hispida* (9%), *Sauropus indet.* (9%), *Sauropus trachyspermus* (9%), *Sida cordifolia*\* (9%), *Sida hackettiana* (9%), *Solanum indet.* (9%), *Spermacoce indet.* (9%), *Wedelia spilanthisoides* (9%), *Zornia indet.* (9%), *Zornia muriculata* (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.

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species 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 +/- Corymbia dallachiana woodland on sand plains**



M. Newton

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 12,228 12,143 99%

Species recorded: Total: 23; woody: 5; ground: 18; Average species per site and standard deviation not available

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

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

Representative sites: 27092.

**Stratum: T1**

Height avg. = 12.0m, 1 site

Crown cover avg. = 13.8%, 1 site

Stem density/ha avg. = 120, 1 site

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

*Frequent species (cover, frequency): Acacia indet. (100%), Eucalyptus melanophloia (15, 100%), Petalostigma pubescens (100%)*

**Stratum: T2**

Height avg. = 5.0m, 1 site

Crown cover avg. = 6.1%, 1 site

Stem density/ha avg. = 140, 1 site

*Dominant species (relative cover, frequency): Petalostigma pubescens (96, 100%), Eucalyptus melanophloia (3, 100%)*

*Frequent species (cover, frequency): Acacia indet. (100%), Alphitonia excelsa (100%), Eucalyptus melanophloia (100%), Petalostigma pubescens (7, 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.

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

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

**Stratum: S1**

Height avg. = 2.0m, 1 site

Crown cover avg. = 0.0%, 1 site

Stem density/ha avg. = 160, 1 site

*Dominant species (relative cover, frequency):* *Petalostigma pubescens* (20, 100%), *Eucalyptus melanophloia* (20, 100%), *Carissa ovata* (20, 100%), *Alphitonia excelsa* (20, 100%), *Acacia indet.* (20, 100%)

*Frequent species (cover, frequency):* *Acacia indet.* (100%), *Alphitonia excelsa* (100%), *Carissa ovata* (100%), *Eucalyptus melanophloia* (100%), *Petalostigma pubescens* (100%)

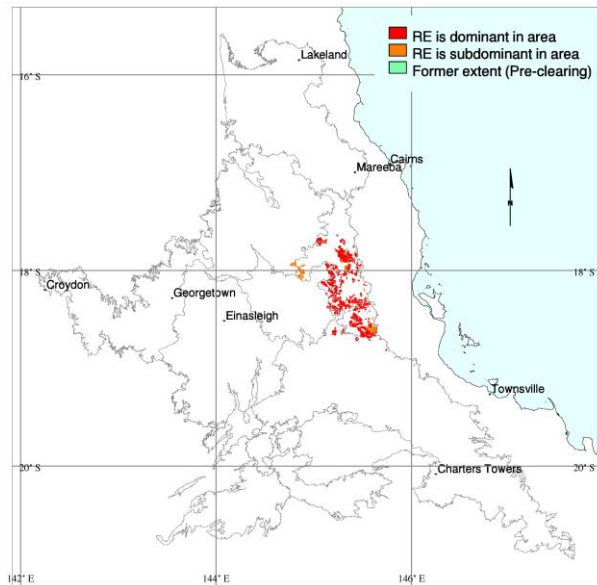
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Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency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

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species 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 clarksoniana and C. citriodora +/- E. portuensis mixed woodland on Tertiary plains**



J.E. Kemp

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 85,966 82,381 96%

Species recorded: Total: 105; woody: 24; ground: 86; Avg. spp./site: 35.2; std dev.: 10.8, 5 site(s)

Basal area: Avg./site: 9.3 m<sup>2</sup>/ha, range: 4.3 - 14 m<sup>2</sup>/ha, std. deviation: 3 m<sup>2</sup>/ha, 5 site(s)

Structural formation: Woodland: 80%; open-forest: 20%, 5 site(s)

Representative sites: 26071, 26073, 26300, 37926, 37928.

**Stratum: E**

Height avg. = 20.0m, 1 site  
Crown cover avg. = 0.0%, 1 site

*Frequent species (cover, frequency): Corymbia citriodora (20%), Corymbia clarksoniana (20%), Eucalyptus crebra (20%), Eucalyptus portuensis (20%)*

**Stratum: T1**

Height avg. = 15.0m, range 8-20m, 5 sites  
Crown cover avg. = 32.4%, range 9.8-58.0%, 5 sites  
Stem density/ha avg. = 316, range 80-1160, 5 sites

*Dominant species (relative cover, frequency): Corymbia clarksoniana (44, 100%), Eucalyptus portuensis (34, 60%), Corymbia citriodora (17, 100%), Eucalyptus crebra (16, 100%)*

*Frequent species (cover, frequency): Corymbia citriodora (8, 100%), Corymbia clarksoniana (9, 100%), Eucalyptus crebra (5, 100%), Eucalyptus portuensis (10, 60%), Acacia crassicaarpa (40%), Acacia flavescens (40%), Allocasuarina littoralis (20%), Dendrobium canaliculatum (20%), Eucalyptus reducta (20%), Grevillea glauca (20%), Grevillea parallela (20%), Melaleuca nervosa (20%), Persoonia falcata (20%), Petalostigma pubescens (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.

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

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

**Stratum: T2**

Height avg. = 8.1m, range 3.5-14m, 4 sites

Crown cover avg. = 1.4%, range 0.0-4.4%, 4 sites

Stem density/ha avg. = 190, range 40-520, 4 sites

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

*Frequent species (cover, frequency): Corymbia clarksoniana (80%), Eucalyptus crebra (40%), Acacia crassicarpa (20%), Acacia flavescens (1, 20%), Acacia holosericea (20%), Callitris intratropica (20%), Corymbia citriodora (20%), Eucalyptus portuensis (4, 20%), Grevillea glauca (20%), Grevillea parallela (1, 20%), Melaleuca nervosa (20%), Persoonia falcata (20%), Petalostigma pubescens (20%)*

**Stratum: S1**

Height avg. = 2.4m, range 1.8-4m, 5 sites

Crown cover avg. = 4.6%, range 0.0-11.8%, 5 sites

Stem density/ha avg. = 756, range 20-2060, 5 sites

*Dominant species (relative cover, frequency): Acacia flavescens (46, 80%), Grevillea parallela (28, 60%), Acacia holosericea (19, 60%), Corymbia clarksoniana (16, 100%), Petalostigma pubescens (7, 100%)*

*Frequent species (cover, frequency): Corymbia clarksoniana (100%), Petalostigma pubescens (100%), Acacia flavescens (4, 80%), Eucalyptus crebra (80%), Pogonolobus reticulatus (80%), Acacia holosericea (2, 60%), Eucalyptus portuensis (60%), Grevillea parallela (60%), Acacia crassicarpa (40%), Corymbia citriodora (40%), Grevillea glauca (40%), Melaleuca nervosa (40%), Acacia disparrima (20%), Allocasuarina littoralis (20%), Alphitonia pomaderroides (20%), Gastrolobium grandiflorum (20%), Grewia retusifolia (20%), Indigofera pratensis (20%), Maytenus cunninghamii (20%), Persoonia falcata (20%), Stylosanthes scabra\* (20%)*

**Stratum: G**

Height avg. = 0.5m, range 0.4-0.6m, 5 sites

PFC avg. = 51.8%, range 29-93%, 5 sites

*Dominant species (relative cover, frequency): Themeda triandra (44, 100%), Heteropogon contortus (17, 60%), Eragrostis brownii (14, 40%), Praxelis clematidea\* (9, 80%), Whiteochloa airoides (9, 40%)*

*Frequent species (cover, frequency): GRAMINOIDS: Themeda triandra (22, 100%), Heteropogon contortus (15, 60%), Abildgaardia ovata (40%), Alloteropsis semialata (2, 40%), Arundinella indet. (1, 40%), Chrysopogon fallax (3, 40%), Eragrostis brownii (7, 40%), Eragrostis spartinooides (1, 40%), Heteropogon triticeus (3, 40%), Mnesithea rottboellioides (2, 40%), Scleria indet. (2, 40%), Whiteochloa airoides (5, 40%), Abildgaardia indet. (20%), Aristida calycina (20%), Aristida indet. (20%), Aristida queenslandica var. dissimilis (20%), Arundinella setosa (20%), Elionurus citreus (20%), Eragrostis sororia (20%), Eriachne stipacea (20%), Fimbristylis acicularis (20%), Fimbristylis cinnamometorum (20%), Melinis repens\* (20%), Panicum decompositum (4, 20%), Panicum effusum (20%), Panicum indet. (20%), Panicum seminudum var. cairnsianum (20%), Sarga plumosum (20%), Schizachyrium fragile (20%), Scleria brownii (20%), Urochloa mosambicensis\* (20%), Urochloa subquadripara\* (2, 20%)*

*FORBS: Praxelis clematidea\* (4, 80%), Breynia oblongifolia (60%), Grewia retusifolia (60%), Stylosanthes indet. (2, 60%), Asteraceae indet. (40%), Brunoniella acaulis (1, 40%), Crotalaria montana (40%), Fabaceae indet. (1, 40%), Flemingia parviflora (40%), Glycine indet. (40%), Glycine tomentella (40%), Lomandra indet. (40%), Lomandra multiflora (40%), Pycnospora lutescens (40%), Rostellularia adscendens (40%), Spermacoce latifolia\* (40%), Stylosanthes scabra\* (2, 40%), Acacia holosericea (20%), Alysicarpus vaginalis\* (1, 20%), Blumea indet. (20%), Brunoniella australis (20%), Cassytha filiformis (1, 20%), Chamaecrista rotundifolia (20%), Clerodendrum indet. (20%), Conyza indet. (20%), Crotalaria medicaginea (20%), Desmodium brachypodum (20%), Desmodium campylocaulon (1, 20%), Desmodium rhytidophyllum (20%), Dianella caerulea (20%), Emilia sonchifolia\* (20%), Epaltes australis (20%), Eremophila debilis (20%), Hibbertia longifolia (20%), Indigofera pratensis (20%), Leucopogon indet. (20%), Lomandra multiflora subsp. multiflora (20%), Mitracarpus hirtus\* (20%), Parsonsia lanceolata (20%), Phyllanthus fuernrohrii (1, 20%), Phyllanthus virgatus (20%), Pterocaulon indet. (20%), Ruellia tuberosa\* (20%), Sida cordifolia\* (20%), Sida indet. (20%), Sida rhombifolia\* (20%), Spermacoce indet. (1, 20%), Stylidium indet. (20%), Stylosanthes guianensis\* (20%), Thecanthes cornucopiae (20%), Tricoryne elatior (20%), Wedelia indet. (20%), Xyris indet. (20%), Zornia muriculata (20%)*

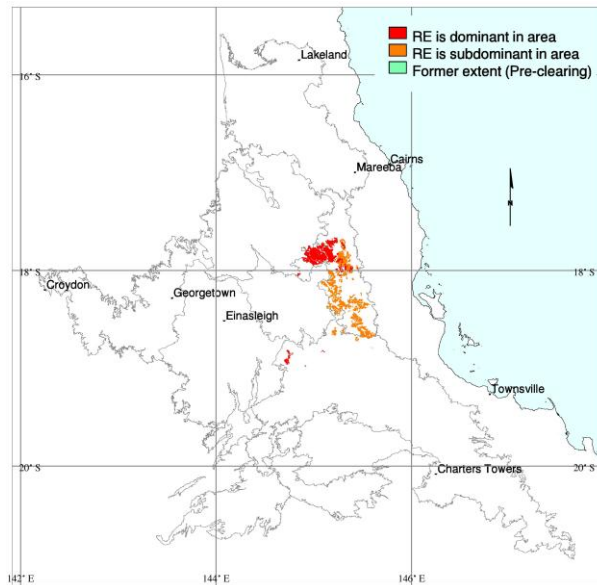
Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum.

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species 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 Corymbia clarksoniana and/or C. intermedia +/- C. dallachiana woodland on sand plains**



J.E. Kemp

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 60,891 57,781 95%

Species recorded: Total: 60; woody: 12; ground: 49; Avg. spp./site: 33.5; std dev.: 6.5, 2 site(s)

Basal area: Avg./site: 12.8 m<sup>2</sup>/ha, range: 11.5 - 14 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: 26029, 37931.

**Stratum: T1**

Height avg. = 18.0m, range 16-20m, 2 sites

Crown cover avg. = 24.7%, range 20.3-29.2%, 2 sites

Stem density/ha avg. = 200, range 160-240, 2 sites

*Dominant species (relative cover, frequency): Corymbia erythrophloia (67, 50%), Eucalyptus crebra (64, 50%), Corymbia clarksoniana (36, 50%), Eucalyptus granitica (33, 50%)*

*Frequent species (cover, frequency): Corymbia clarksoniana (6, 50%), Corymbia erythrophloia (16, 50%), Eucalyptus crebra (11, 50%), Eucalyptus granitica (8, 50%)*

**Stratum: T2**

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

Crown cover avg. = 4.2%, range 0.6-7.9%, 2 sites

Stem density/ha avg. = 150, range 140-160, 2 sites

*Dominant species (relative cover, frequency): Acacia crassicarpa (93, 50%), Grevillea glauca (37, 100%), Pogonolobus reticulatus (26, 50%), Eucalyptus crebra (2, 50%), Corymbia clarksoniana (2, 50%)*

*Frequent species (cover, frequency): Grevillea glauca (1, 100%), Acacia crassicarpa (1, 50%), Corymbia clarksoniana (50%), Corymbia erythrophloia (50%), Eucalyptus crebra (50%), Pogonolobus reticulatus (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.

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

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

**Stratum: S1**

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

Crown cover avg. = 0.8%, range 0.0-1.6%, 2 sites

Stem density/ha avg. = 640, range 640-640, 2 sites

*Dominant species (relative cover, frequency):* *Lantana camara*\* (72, 50%), *Corymbia erythrophloia* (46, 50%), *Grevillea glauca* (26, 100%), *Petalostigma pubescens* (7, 50%), *Corymbia clarksoniana* (7, 50%)

*Frequent species (cover, frequency):* *Grevillea glauca* (100%), *Acacia crassicarpa* (50%), *Corymbia clarksoniana* (50%), *Corymbia erythrophloia* (1, 50%), *Eucalyptus granitica* (50%), *Grevillea parallela* (50%), *Lantana camara*\* (50%), *Melaleuca nervosa* (50%), *Petalostigma pubescens* (50%), *Planchonia careya* (50%), *Pogonolobus reticulatus* (50%)

**Stratum: G**

Height avg. = 0.6m, range 0.5-0.6m, 2 sites

PFC avg. = 37.5%, range 30-45%, 2 sites

*Dominant species (relative cover, frequency):* *Themeda triandra* (51, 100%), *Eragrostis brownii* (18, 50%), *Sporobolus jacquemontii*\* (12, 50%), *Praxelis clematidea*\* (8, 50%), *Arundinella nepalensis* (6, 50%)

*Frequent species (cover, frequency):* **GRAMINOIDS:** *Heteropogon contortus* (2, 100%), *Heteropogon triticeus* (2, 100%), *Themeda triandra* (18, 100%), *Abildgaardia ovata* (50%), *Alloteropsis semialata* (1, 50%), *Aristida* *indet.* (50%), *Arundinella nepalensis* (2, 50%), *Eragrostis brownii* (9, 50%), *Melinis repens*\* (50%), *Mnesithea rottboellioides* (2, 50%), *Panicum effusum* (50%), *Paspalidium* *indet.* (1, 50%), *Sarga plumosum* (2, 50%), *Schizachyrium fragile* (50%), *Scleria brownii* (50%), *Scleria* *indet.* (50%), *Setaria pumila* *subsp. pallidifusca*\* (50%), *Sporobolus jacquemontii*\* (6, 50%)

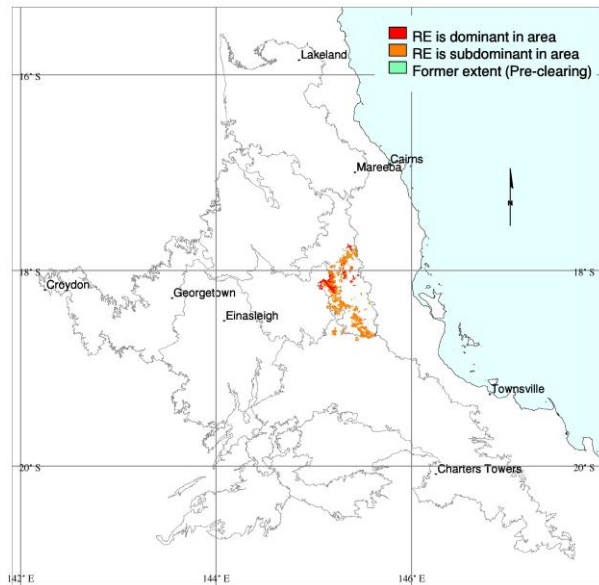
**FORBS:** *Crotalaria montana* (100%), *Flemingia parviflora* (1, 100%), *Stylosanthes scabra*\* (1, 100%), *Breynia oblongifolia* (50%), *Brunoniella australis* (50%), *Cassipoupa filiformis* (50%), *Conyza* *indet.* (50%), *Corymbia clarksoniana* (50%), *Cyanthillium cinereum* (50%), *Desmodium rhytidophyllum* (50%), *Dianella caerulea* (1, 50%), *Dianella* *indet.* (50%), *Glycine* *indet.* (50%), *Glycine tomentella* (50%), *Grewia retusifolia* (50%), *Ipomoea* *indet.* (50%), *Lomandra multiflora* (50%), *Lomandra multiflora* *subsp. multiflora* (50%), *Mitracarpus hirtus*\* (50%), *Phyllanthus virgatus* (50%), *Polygala* *indet.* (50%), *Praxelis clematidea*\* (4, 50%), *Pterocaulon sphacelatum* (50%), *Richardia brasiliensis*\* (1, 50%), *Sida cordifolia*\* (50%), *Sida rhombifolia*\* (50%), *Spermacoce latifolia*\* (1, 50%), *Stachytarpheta jamaicensis*\* (50%), *Stylosanthes guianensis*\* (50%), *Tephrosia filipes* (50%), *Wahlenbergia gracilis* (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.

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species 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. tereticornis +/- Corymbia clarksoniana +/- Lophostemon suaveolens woodland on Tertiary plains**



J.E. Kemp

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 26,622 25,247 95%

Species recorded: Total: 82; woody: 23; ground: 63; Avg. spp./site: 30.3; std dev.: 7.9, 4 site(s)

Basal area: Avg./site: 7.9 m<sup>2</sup>/ha, range: 5.5 - 9 m<sup>2</sup>/ha, std. deviation: 1 m<sup>2</sup>/ha, 4 site(s)

Structural formation: Woodland: 100%, 4 site(s)

Representative sites: 26074, 26080, 37454, 37929.

**Stratum: T1**

Height avg. = 23.8m, range 19-30m, 4 sites

Crown cover avg. = 31.4%, range 27.0-35.9%, 4 sites

Stem density/ha avg. = 105, range 80-160, 4 sites

*Dominant species (relative cover, frequency): Eucalyptus moluccana (99, 75%), Eucalyptus tereticornis (85, 25%), Corymbia clarksoniana (15, 25%), Eucalyptus crebra (2, 50%)*

*Frequent species (cover, frequency): Eucalyptus moluccana (29, 75%), Eucalyptus crebra (1, 50%), Corymbia citriodora (25%), Corymbia clarksoniana (5, 25%), Eucalyptus tereticornis (27, 25%)*

**Stratum: T2**

Height avg. = 6.3m, range 4-8m, 4 sites

Crown cover avg. = 5.6%, range 0.0-22.5%, 4 sites

Stem density/ha avg. = 310, range 80-880, 4 sites

*Dominant species (relative cover, frequency): Acacia aulacocarpa (99, 25%), Eucalyptus moluccana (42, 50%), Melaleuca viridiflora (39, 75%), Eucalyptus crebra (33, 25%), Callitris intratropica (33, 25%)*

*Frequent species (cover, frequency): Melaleuca viridiflora (75%), Eucalyptus moluccana (50%), Petalostigma pubescens (50%), Acacia aulacocarpa (20, 25%), Alphitonia excelsa (25%), Callitris intratropica (25%), Corymbia clarksoniana (25%), Eucalyptus crebra (25%), Grevillea glauca (25%), Melaleuca nervosa (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.

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

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

**Stratum: S1**

Height avg. = 2.0m, range 1.5-3m, 4 sites

Crown cover avg. = 0.7%, range 0.0-2.9%, 4 sites

Stem density/ha avg. = 830, range 280-2140, 4 sites

*Dominant species (relative cover, frequency): Lantana camara cv. Gol Gol (77, 25%), Melaleuca viridiflora (53, 75%), Callitris intratropica (29, 50%), Melaleuca nervosa (20, 25%), Capparis arborea (8, 25%)*

*Frequent species (cover, frequency): Melaleuca viridiflora (2, 75%), Petalostigma pubescens (75%), Acacia bidwillii (50%), Acacia crassicaarpa (50%), Callitris intratropica (3, 50%), Eucalyptus crebra (50%), Eucalyptus moluccana (50%), Acacia aulacocarpa (25%), Alphitonia excelsa (25%), Capparis arborea (25%), Capparis indet. (25%), Corymbia clarksoniana (25%), Eremophila debilis (25%), Grevillea coriacea (25%), Grevillea glauca (25%), Grevillea parallela (25%), Lantana camara cv. Gol Gol (2, 25%), Maytenus cunninghamii (25%), Melaleuca nervosa (1, 25%), Persoonia falcata (25%), Stylosanthes scabra\* (25%)*

**Stratum: G**

Height avg. = 0.3m, range 0.2-0.4m, 3 sites

PFC avg. = 44.3%, range 27-77%, 4 sites

*Dominant species (relative cover, frequency): Chrysopogon fallax (32, 75%), Melinis repens\* (19, 25%), Sporobolus jacquemontii\* (13, 50%), Fimbristylis dichotoma (12, 50%), Themeda triandra (12, 75%)*

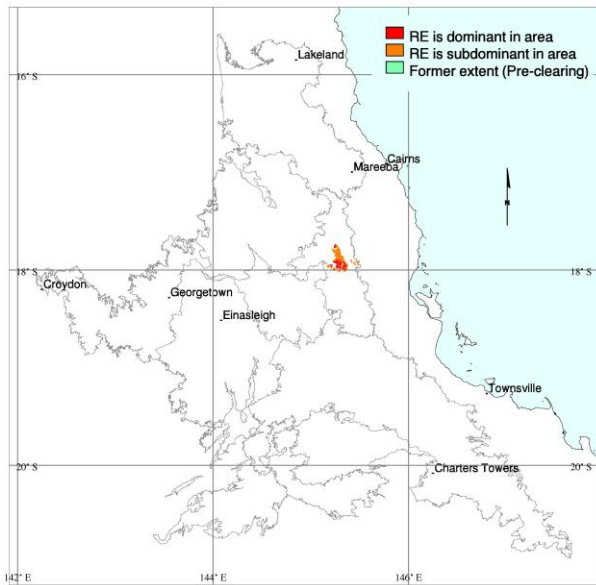
*Frequent species (cover, frequency): GRAMINOIDS: Chrysopogon fallax (14, 75%), Themeda triandra (5, 75%), Aristida calycina (50%), Aristida superpendens (6, 50%), Cyperus indet. (3, 50%), Cyperus pulchellus (50%), Eragrostis brownii (7, 50%), Eragrostis sororia (1, 50%), Fimbristylis dichotoma (7, 50%), Heteropogon contortus (1, 50%), Panicum indet. (50%), Paspalidium distans (1, 50%), Schizachyrium fragile (2, 50%), Sporobolus jacquemontii\* (10, 50%), Abildgaardia ovata (25%), Aristida queenslandica var. dissimilis (2, 25%), Arundinella indet. (25%), Arundinella setosa (25%), Eragrostis spartinooides (7, 25%), Eriachne rara (1, 25%), Fimbristylis depauperata (25%), Fuirena incrassata (3, 25%), Fuirena indet. (25%), Melinis repens\* (5, 25%), Panicum effusum (25%), Rhynchospora indet. (3, 25%), Sacciolepis indica (25%), Scleria indet. (1, 25%) FORBS: Praxelis clematidea\* (3, 100%), Blumea saxatilis (50%), Breynia oblongifolia (50%), Brunoniella acaulis (1, 50%), Epaltes australis (50%), Fabaceae indet. (50%), Murdannia graminea (50%), Phyllanthus indet. (1, 50%), Rostellularia adscendens (1, 50%), Stylosanthes scabra\* (1, 50%), Acacia aulacocarpa (3, 25%), Acacia crassicaarpa (25%), Camptacra barbata (25%), Cassytha pubescens (2, 25%), Crotalaria indet. (25%), Dianella rara (25%), Eriocaulon indet. (25%), Evolvulus alsinoides (25%), Evolvulus alsinoides var. decumbens (25%), Lobelia quadrangularis (25%), Lomandra indet. (25%), Lomandra multiflora (25%), Oldenlandia mitrasacmoides (25%), Petalostigma pubescens (25%), Phacellothrix cladochaeta (25%), Phyllanthus virgatus (25%), Ruellia tuberosa\* (1, 25%), Sida indet. (25%), Sida rhombifolia\* (25%), Sonchus indet. (25%), Spermacoe indet. (1, 25%), Spermacoe latifolia\* (25%), Striga curviflora (25%), Stylosanthes indet. (1, 25%), Zornia muriculata (25%)*

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

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

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

**Callitris intratropica +/- Melaleuca viridiflora low woodland on Tertiary plains**



J.E. Kemp

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 8,523 8,366 98%

Species recorded: Total: 87; woody: 24; ground: 69; Avg. spp./site: 32.3; std dev.: 18.4, 3 site(s)

Basal area: Avg./site: 11.1 m<sup>2</sup>/ha, range: 7.3 - 16 m<sup>2</sup>/ha, std. deviation: 3 m<sup>2</sup>/ha, 4 site(s)

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

Representative sites: 26072, 26096, 37452, 37904, 37925.

**Stratum: E**

Height avg. = 11.0m, 1 site  
 Crown cover avg. = 0.0%, 1 site  
 Stem density/ha avg. = 40, 1 site

*Frequent species (cover, frequency): Corymbia clarksoniana (20%), Eucalyptus crebra (20%)*

**Stratum: T1**

Height avg. = 13.6m, range 6-18m, 5 sites  
 Crown cover avg. = 31.1%, range 2.9-61.4%, 5 sites  
 Stem density/ha avg. = 400, range 200-600, 2 sites

*Dominant species (relative cover, frequency): Eucalyptus crebra (84, 60%), Callitris intratropica (58, 40%), Corymbia clarksoniana (15, 40%)*

*Frequent species (cover, frequency): Eucalyptus crebra (13, 60%), Callitris intratropica (29, 40%), Corymbia clarksoniana (6, 40%), Allocasuarina inophloia (32, 20%), Alphitonia pomaderroides (1, 20%), Corymbia citriodora (2, 20%), Grevillea glauca (1, 20%), Melaleuca nervosa (20%), Melaleuca viridiflora (20%), Petalostigma pubescens (20%)*

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

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

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

**Stratum: T2**

Height avg. = 6.7m, range 4-9m, 3 sites

Crown cover avg. = 18.7%, range 0.0-38.0%, 3 sites

Stem density/ha avg. = 1440, 1 site

*Dominant species (relative cover, frequency): Callitris intratropica (99, 60%), Corymbia clarksoniana (1, 40%)*

*Frequent species (cover, frequency): Callitris intratropica (26, 60%), Corymbia clarksoniana (40%), Melaleuca viridiflora (40%), Petalostigma pubescens (40%), Acacia flavescens (20%), Corymbia citriodora (20%), Dendrobium canaliculatum (20%), Eucalyptus crebra (20%), Lophostemon suaveolens (20%)*

**Stratum: S1**

Height avg. = 2.2m, range 1.8-3m, 4 sites

Crown cover avg. = 4.6%, range 0.6-11.8%, 5 sites

Stem density/ha avg. = 3510, range 760-6260, 2 sites

*Dominant species (relative cover, frequency): Callitris intratropica (77, 60%), Petalostigma pubescens (10, 60%), Acacia crassicarpa (9, 40%), Melaleuca viridiflora (6, 60%)*

*Frequent species (cover, frequency): Callitris intratropica (7, 60%), Melaleuca viridiflora (60%), Petalostigma pubescens (60%), Acacia crassicarpa (40%), Acacia flavescens (6, 20%), Acacia holosericea (20%), Acacia simsii (20%), Allocasuarina littoralis (1, 20%), Corymbia citriodora (6, 20%), Corymbia clarksoniana (20%), Eucalyptus crebra (20%), Gastrolobium grandiflorum (1, 20%), Grevillea mimosoides (20%), Grevillea pteridifolia (1, 20%), Hovea densivellosa (20%), Jacksonia thesioides (1, 20%), Lantana camara\* (20%), Melaleuca nervosa (20%), Persoonia falcata (20%)*

**Stratum: G**

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

PFC avg. = 37.3%, range 15-67%, 3 sites

*Dominant species (relative cover, frequency): Chrysopogon fallax (8, 40%), Schizachyrium fragile (8, 40%), Themeda triandra (5, 40%), Evolvulus alsinoides (1, 40%)*

*Frequent species (cover, frequency): GRAMINOIDS: Chrysopogon fallax (1, 40%), Schizachyrium fragile (1, 40%), Themeda triandra (3, 40%), Alloteropsis semialata (4, 20%), Aristida queenslandica var. dissimilis (3, 20%), Aristida queenslandica var. queenslandica (38, 20%), Aristida superpendens (5, 20%), Dichanthium indet. (20%), Ectrosia leporina (10, 20%), Eragrostis brownii (3, 20%), Eragrostis indet. (1, 20%), Eriachne indet. (20%), Eriachne mucronata (1, 20%), Fimbristylis cinnamometorum (5, 20%), Fimbristylis indet. (20%), Heteropogon triticeus (1, 20%), Panicum effusum (20%), Paspalidium distans (3, 20%), Poaceae indet. (1, 20%), Scleria brownii (1, 20%)*

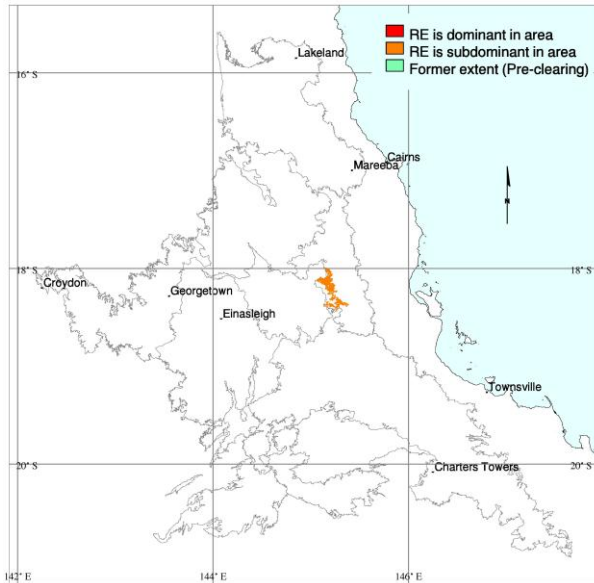
*FORBS: Evolvulus alsinoides (40%), Acacia crassicarpa (20%), Alphitonia pomaderroides (20%), Blumea saxatilis (20%), Brunoniella acaulis (1, 20%), Cassytha filiformis (20%), Cheilanthes sieberi subsp. sieberi (20%), Convolvulaceae indet. (20%), Crotalaria montana (20%), Cyanthillium cinereum (20%), Desmodium rhytidophyllum (20%), Dodonaea lanceolata (20%), Emilia sonchifolia\* (20%), Fabaceae indet. (20%), Galactia tenuiflora (20%), Gastrolobium grandiflorum (20%), Glycine indet. (20%), Gonocarpus acanthocarpus (20%), Goodenia indet. (3, 20%), Hibbertia longifolia (20%), Jacksonia thesioides (20%), Leptosema oxylobioides (20%), Liliaceae indet. (20%), Lomandra indet. (1, 20%), Lomandra multiflora (20%), Melaleuca nervosa (2, 20%), Melichrus adpressus (20%), Melichrus urceolatus (20%), Phyllanthus fuernrohrii (20%), Phyllanthus indet. (20%), Phyllanthus virgatus (20%), Poranthera microphylla (20%), Praxelis clematidea\* (3, 20%), Pycnospora lutescens (20%), Rostellularia adscendens (20%), Ruellia tuberosa\* (1, 20%), Sida rhombifolia\* (20%), Sida spinosa\* (20%), Spermacoce indet. (20%), Spermacoce latifolia\* (20%), Striga curviflora (20%), Stylidium eriorhizum (20%), Stylosanthes guianensis var. guianensis\* (20%), Stylosanthes scabra\* (1, 20%), Tephrosia filipes (20%), Zornia muriculata (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.

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

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

**Corymbia intermedia and Eucalyptus crebra +/- C. citriodora +/- E. portuensis woodland on Tertiary plains**



I.D. Fox

Pre-clearing area (ha), remnant area (ha) and per cent remaining:    3,667            3,524            96%

Species recorded:            Total: 68; woody: 21; ground: 50; Avg. spp./site: 23.0; std dev.: 1.9, 4 site(s)

Basal area:                    Avg./site: 13.0 m<sup>2</sup>/ha, range: 8.0 - 16 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:        26040, 26278, 26279, 26284.

**Stratum: T1**

Height avg. = 21.3m, range 20-22m, 4 sites

Crown cover avg. = 44.2%, range 29.2-67.8%, 4 sites

Stem density/ha avg. = 175, range 100-300, 4 sites

*Dominant species (relative cover, frequency): Eucalyptus crebra (73, 50%), Eucalyptus granitica (51, 25%), Corymbia intermedia (33, 100%), Eucalyptus portuensis (28, 50%), Corymbia citriodora (15, 25%)*

*Frequent species (cover, frequency): Corymbia intermedia (12, 100%), Eucalyptus crebra (17, 50%), Eucalyptus portuensis (16, 50%), Corymbia citriodora (7, 25%), Corymbia dallachiana (25%), Corymbia tessellaris (25%), Eucalyptus granitica (31, 25%), Lophostemon grandiflorus (25%), Lophostemon suaveolens (25%)*

**Stratum: T2**

Height avg. = 12.0m, range 10-14m, 2 sites

Crown cover avg. = 21.2%, range 0.0-42.3%, 2 sites

Stem density/ha avg. = 80, range 80-80, 2 sites

*Dominant species (relative cover, frequency): Eucalyptus portuensis (98, 25%), Corymbia tessellaris (50, 25%), Corymbia intermedia (25, 50%), Corymbia citriodora (1, 25%)*

*Frequent species (cover, frequency): Corymbia intermedia (50%), Corymbia citriodora (25%), Corymbia tessellaris (25%), Eucalyptus portuensis (2, 25%)*

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

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

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

**Stratum: S1**

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

Crown cover avg. = 2.6%, range 0.0-4.4%, 4 sites

Stem density/ha avg. = 770, range 120-1260, 4 sites

*Dominant species (relative cover, frequency):* *Acacia flavescens* (44, 75%), *Eucalyptus portuensis* (41, 50%), *Petalostigma pubescens* (31, 25%), *Alphitonia pomaderroides* (28, 25%), *Maytenus cunninghamii* (17, 25%)

*Frequent species (cover, frequency):* *Acacia flavescens* (1, 75%), *Corymbia intermedia* (75%), *Grevillea glauca* (75%), *Persoonia falcata* (75%), *Eucalyptus portuensis* (4, 50%), *Acacia indet.* (25%), *Acacia leptostachya* (25%), *Alphitonia pomaderroides* (1, 25%), *Corymbia citriodora* (25%), *Corymbia dallachiana* (25%), *Corymbia tessellaris* (25%), *Eucalyptus crebra* (25%), *Grevillea parallela* (25%), *Jacksonia indet.* (25%), *Maytenus cunninghamii* (25%), *Petalostigma pubescens* (1, 25%), *Pogonolobus reticulatus* (25%), *Xylomelum scottianum* (25%)

**Stratum: G**

Height avg. = 0.5m, 1 site

PFC avg. = 65.8%, range 44-83%, 4 sites

*Dominant species (relative cover, frequency):* *Themeda triandra* (86, 50%), *Bothriochloa pertusa*\* (47, 25%), *Elionurus citreus* (32, 25%), *Stylosanthes indet.* (30, 25%), *Praxelis clematidea*\* (26, 25%)

*Frequent species (cover, frequency):* **GRAMINOIDS:** *Heteropogon triticeus* (5, 75%), *Alloteropsis semialata* (50%), *Heteropogon contortus* (50%), *Sporobolus indet.* (1, 50%), *Themeda triandra* (61, 50%), *Aristida indet.* (25%), *Bothriochloa pertusa*\* (39, 25%), *Cymbopogon indet.* (2, 25%), *Cyperus indet.* (2, 25%), *Elionurus citreus* (13, 25%), *Fimbristylis indet.* (7, 25%), *Melinis repens*\* (5, 25%), *Mnesithea rottboellioides* (25%), *Panicum indet.* (25%)

**FORBS:** *Lomandra indet.* (1, 75%), *Cyanthillium cinereum* (50%), *Desmodium indet.* (50%), *Grewia retusifolia* (50%), *Pterocaulon indet.* (50%), *Acmella grandiflora* var. *brachyglossa* (25%), *Breynia oblongifolia* (25%), *Brunoniella acaulis* (25%), *Chamaecrista rotundifolia* cv. *Wynn* (13, 25%), *Crotalaria medicaginea* (25%), *Desmodium brachypodium* (25%), *Desmodium gangeticum* (25%), *Desmodium rhytidophyllum* (25%), *Dianella indet.* (25%), *Eustrephus latifolius* (25%), *Flemingia parviflora* (25%), *Glycine clandestina* (25%), *Glycine indet.* (25%), *Glycine tomentella* (25%), *Helichrysum indet.* (25%), *Indigofera indet.* (25%), *Knoxia sumatrensis* (25%), *Malvastrum americanum* var. *americanum*\* (25%), *Melichrus urceolatus* (25%), *Peripleura bicolor* (25%), *Phyllanthus fuernrohrii* (25%), *Phyllanthus virgatus* (25%), *Pogonolobus reticulatus* (25%), *Polycarpha corymbosa* (25%), *Praxelis clematidea*\* (10, 25%), *Rostellularia adscendens* (25%), *Rostellularia adscendens* subsp. *adscendens* (25%), *Spermacoce indet.* (25%), *Stylosanthes indet.* (25, 25%), *Uraria picta* (25%), *Xylomelum scottianum* (25%)

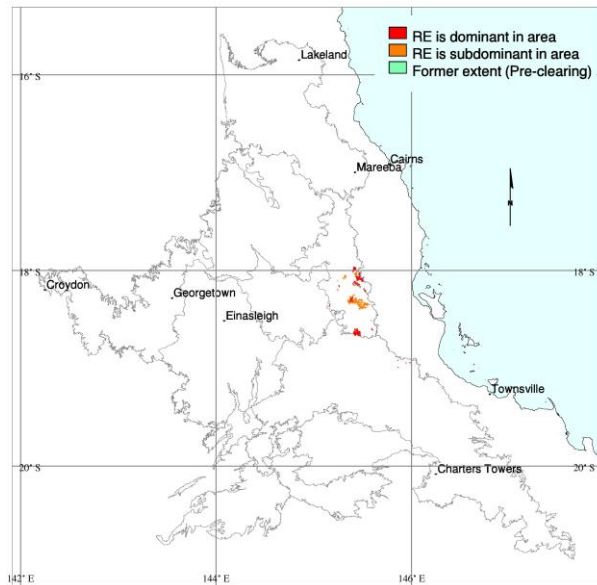
Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum.

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

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



**Corymbia intermedia +/- E. portuensis +/- E. tereticornis +/- Lophostemon suaveolens woodland on Tertiary plains**



J.E. Kemp

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 16,527 15,209 92%

Species recorded: Total: 138; woody: 26; ground: 121; Avg. spp./site: 38.3; std dev.: 4.9, 6 site(s)

Basal area: Avg./site: 16.4 m<sup>2</sup>/ha, range: 11.0 - 31 m<sup>2</sup>/ha, std. deviation: 7 m<sup>2</sup>/ha, 6 site(s)

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

Representative sites: 26037, 26039, 26085, 26781, 26787, 37934, 37936.

**Stratum: T1**

Height avg. = 24.9m, range 17-30m, 7 sites

Crown cover avg. = 51.7%, range 31.4-67.8%, 7 sites

Stem density/ha avg. = 133, range 80-200, 6 sites

*Dominant species (relative cover, frequency): Eucalyptus portuensis (49, 71%), Corymbia intermedia (41, 100%), Lophostemon suaveolens (16, 57%), Eucalyptus tereticornis (16, 57%)*

*Frequent species (cover, frequency): Corymbia intermedia (22, 100%), Eucalyptus portuensis (28, 71%), Eucalyptus tereticornis (13, 57%), Lophostemon suaveolens (7, 57%), Eucalyptus exserta (29%), Corymbia clarksoniana (5, 14%), Corymbia tessellaris (8, 14%)*

**Stratum: T2**

Height avg. = 8.5m, range 7-12m, 6 sites

Crown cover avg. = 3.6%, range 0.6-9.8%, 6 sites

Stem density/ha avg. = 392, range 80-1520, 5 sites

*Dominant species (relative cover, frequency): Acacia flavescens (50, 29%), Eucalyptus portuensis (50, 43%), Allocasuarina littoralis (46, 29%), Lophostemon suaveolens (39, 57%), Acacia crassicaarpa (13, 29%)*

*Frequent species (cover, frequency): Lophostemon suaveolens (1, 57%), Eucalyptus portuensis (1, 43%), Acacia crassicaarpa (29%), Acacia flavescens (6, 29%), Allocasuarina littoralis (6, 29%), Corymbia intermedia (29%), Melaleuca nervosa (29%), Melaleuca viridiflora (29%), Allocasuarina torulosa (2, 14%), Corymbia clarksoniana (14%), Grevillea glauca (1, 14%), Persoonia falcata (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.

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

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

**Stratum: S1**

Height avg. = 2.9m, range 1.5-5m, 7 sites

Crown cover avg. = 5.0%, range 0.6-11.8%, 7 sites

Stem density/ha avg. = 1400, range 360-2780, 6 sites

*Dominant species (relative cover, frequency):* *Acacia flavescens* (53, 71%), *Acacia crassicarpa* (25, 57%), *Planchonia careya* (24, 43%), *Allocasuarina littoralis* (18, 29%), *Eucalyptus portuensis* (17, 43%)

*Frequent species (cover, frequency):* *Acacia flavescens* (5, 71%), *Lophostemon suaveolens* (71%), *Acacia crassicarpa* (1, 57%), *Eucalyptus portuensis* (1, 43%), *Melaleuca viridiflora* (43%), *Persoonia falcata* (43%), *Planchonia careya* (1, 43%), *Allocasuarina littoralis* (29%), *Alphitonia pomaderroides* (29%), *Corymbia intermedia* (29%), *Eucalyptus tereticornis* (29%), *Grevillea glauca* (29%), *Melaleuca nervosa* (29%), *Pogonolobus reticulatus* (29%), *Allocasuarina torulosa* (14%), *Breynia oblongifolia* (14%), *Corymbia tessellaris* (14%), *Grevillea parallela* (14%), *Grevillea pteridifolia* (14%), *Grewia retusifolia* (14%), *Lantana camara*\* (14%), *Petalostigma pubescens* (14%), *Sida cordifolia*\* (1, 14%), *Sida rhombifolia*\* (1, 14%)

**Stratum: G**

Height avg. = 0.6m, range 0.3-0.8m, 6 sites

PFC avg. = 43.8%, range 21-80%, 6 sites

*Dominant species (relative cover, frequency):* *Eriachne trisetata* (40, 29%), *Themeda triandra* (37, 86%), *Mnesithea rottboellioides* (20, 57%), *Eriachne pallescens* var. *pallescens* (15, 29%), *Heteropogon triticeus* (9, 86%)

*Frequent species (cover, frequency):* **GRAMINOIDS:** *Heteropogon triticeus* (5, 86%), *Themeda triandra* (20, 86%), *Mnesithea rottboellioides* (10, 57%), *Alloteropsis semialata* (1, 43%), *Chrysopogon fallax* (1, 43%), *Sarga plumosum* (1, 43%), *Abildgaardia* *indet.* (29%), *Arundinella setosa* (29%), *Eragrostis spartinooides* (29%), *Eriachne pallescens* var. *pallescens* (4, 29%), *Eriachne trisetata* (14, 29%), *Schizachyrium* *indet.* (29%), *Abildgaardia ovata* (14%), *Aristida* *indet.* (14%), *Aristida queenslandica* var. *queenslandica* (14%), *Arundinella nepalensis* (10, 14%), *Cleistochloa subjuncea* (1, 14%), *Digitaria longiflora* (14%), *Digitaria parviflora* (5, 14%), *Ectrosia leporina* (14%), *Elionurus citreus* (14%), *Entolasia stricta* (14%), *Eriachne pallescens* (14%), *Fimbristylis cinnamometorum* (14%), *Fimbristylis dichotoma* (14%), *Imperata cylindrica* (2, 14%), *Panicum effusum* (14%), *Panicum effusum* var. *effusum* (14%), *Paspalidium gracile* (14%), *Sacciolepis indica* (14%), *Schoenus apogon* var. *apogon* (14%), *Schoenus punctatus* (1, 14%), *Schoenus sparteus* (14%), *Scleria brownii* (14%), *Scleria* *indet.* (14%), *Scleria mackaviensis* (14%), *Scleria rugosa* (14%), *Scleria tricuspidata* (14%), *Setaria surgens* (14%), *Thaumastochloa pubescens* (14%), *Whiteochloa airoides* (14%)

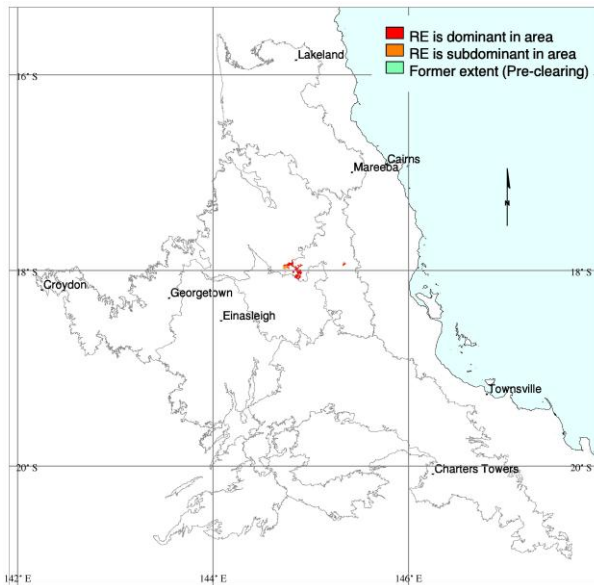
**FORBS:** *Cyanthillium cinereum* (57%), *Dianella caerulea* (57%), *Phyllanthus virgatus* (57%), *Desmodium rhytidophyllum* (1, 43%), *Flemingia parviflora* (43%), *Lomandra longifolia* (43%), *Spermacoce* *indet.* (43%), *Tricoryne anceps* subsp. *pterochaulon* (43%), *Cartonema brachyantherum* (29%), *Cassytha filiformis* (29%), *Chamaecrista nomame* (29%), *Crotalaria montana* (29%), *Desmodium brachypodium* (29%), *Dianella* *indet.* (29%), *Emilia sonchifolia*\* (29%), *Hibbertia longifolia* (29%), *Hybanthus stellarioides* (29%), *Hypericum gramineum* (29%), *Lomandra multiflora* (29%), *Melaleuca nervosa* (29%), *Mitracarpus hirtus*\* (29%), *Persoonia falcata* (29%), *Richardia brasiliensis*\* (29%), *Acacia flavescens* (1, 14%), *Acmella grandiflora* var. *brachyglossa* (14%), *Alphitonia pomaderroides* (2, 14%), *Blumea saxatilis* (1, 14%), *Breynia oblongifolia* (14%), *Brunoniella acaulis* (14%), *Centrolepis exserta* (14%), *Commelina lanceolata* (14%), *Crassocephalum crepidioides*\* (14%), *Crotalaria lanceolata* subsp. *lanceolata*\* (14%), *Crotalaria medicaginea* (14%), *Desmodium filiforme* (14%), *Desmodium gangeticum* (14%), *Dianella longifolia* (14%), *Dianella longifolia* var. *longifolia* (14%), *Drosera spatulata* (14%), *Emilia sonchifolia* var. *javanica*\* (14%), *Evolvulus alsinoides* (14%), *Galactia tenuiflora* (14%), *Galactia tenuiflora* var. *lucida* (14%), *Glycine clandestina* var. *clandestina* (14%), *Glycine tabacina* (14%), *Glycine tomentella* (14%), *Grevillea glauca* (14%), *Grevillea pteridifolia* (14%), *Haloragis heterophylla* (14%), *Hardenbergia violacea* (14%), *Hybanthus enneaspermus* (14%), *Hybanthus* *indet.* (14%), *Knoxia sumatrensis* (14%), *Laxmannia gracilis* (14%), *Lomandra filiformis* subsp. *filiformis* (14%), *Melaleuca viridiflora* (14%), *Melichrus* *indet.* (14%), *Mitrasacme brachystemonea* (14%), *Murdannia graminea* (14%), *Pogonolobus reticulatus* (14%), *Polymeria calycina* (14%), *Polymeria* *indet.* (14%), *Poranthera microphylla* (14%), *Praxelis clematidea*\* (1, 14%), *Pterochaulon sphacelatum* (14%), *Pycnospora lutescens* (14%), *Rhynchosia minima* var. *minima* (1, 14%), *Rostellularia adscendens* subsp. *adscendens* (14%), *Rotala occultiflora* (14%), *Spermacoce latifolia*\* (14%), *Spermacoce multicaulis* (14%), *Stachytarpheta jamaicensis*\* (14%), *Stylosanthes scabra*\* (14%), *Tephrosia juncea* (14%), *Vigna lanceolata* (14%), *Vigna vexillata* var. *angustifolia* (14%), *Wahlenbergia caryophylloides* (14%), *Wedelia spilanthis* (14%), *Xanthorrhoea johnsonii* (14%), *Zornia muriculata* subsp. *muriculata* (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.

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species 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, E. crebra and Corymbia clarksoniana +/- Callitris intratropica woodland on Tertiary plains**



J.E. Kemp

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 5,481 5,171 94%

Species recorded: Total: 63; woody: 20; ground: 46; Avg. spp./site: 35.5; std dev.: 5.5, 2 site(s)

Basal area: Avg./site: 5.4 m<sup>2</sup>/ha, range: 2.8 - 10 m<sup>2</sup>/ha, std. deviation: 3 m<sup>2</sup>/ha, 3 site(s)

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

Representative sites: 26093, 37455, 37927, 37930.

**Stratum: T1**

Height avg. = 15.8m, range 8-21m, 4 sites

Crown cover avg. = 15.1%, range 4.4-40.2%, 4 sites

Stem density/ha avg. = 80, 1 site

*Dominant species (relative cover, frequency): Eucalyptus crebra (46, 75%), Callitris intratropica (34, 75%), Eucalyptus exserta (33, 75%), Corymbia dallachiana (24, 25%), Eucalyptus portuensis (13, 25%)*

*Frequent species (cover, frequency): Callitris intratropica (11, 75%), Corymbia clarksoniana (75%), Eucalyptus crebra (2, 75%), Eucalyptus exserta (1, 75%), Acacia indet. (4, 25%), Corymbia dallachiana (1, 25%), Corymbia tessellaris (25%), Eucalyptus portuensis (1, 25%)*

**Stratum: T2**

Height avg. = 7.7m, range 6-9m, 3 sites

Crown cover avg. = 9.4%, range 0.0-20.3%, 3 sites

Stem density/ha avg. = 1520, 1 site

*Dominant species (relative cover, frequency): Callitris intratropica (98, 50%), Eucalyptus exserta (24, 50%), Eucalyptus crebra (16, 75%), Melaleuca viridiflora (3, 50%), Petalostigma pubescens (1, 50%)*

*Frequent species (cover, frequency): Eucalyptus crebra (75%), Callitris intratropica (15, 50%), Eucalyptus exserta (50%), Melaleuca viridiflora (50%), Petalostigma pubescens (50%), Acacia crassicaarpa (25%), Allocasuarina littoralis (25%), Corymbia clarksoniana (25%), Eucalyptus portuensis (25%), Grevillea coriacea (25%), Lophostemon suaveolens (25%), Melaleuca nervosa (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.

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

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

**Stratum: S1**

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

Crown cover avg. = 4.3%, range 0.0-9.8%, 4 sites

Stem density/ha avg. = 280, 1 site

*Dominant species (relative cover, frequency): Melaleuca viridiflora (51, 100%), Grevillea mimosoides (26, 25%), Callitris intratropica (25, 50%), Persoonia falcata (17, 25%), Grevillea coriacea (17, 25%)*

*Frequent species (cover, frequency): Melaleuca viridiflora (3, 100%), Callitris intratropica (1, 50%), Grevillea pteridifolia (50%), Petalostigma pubescens (50%), Acacia simsii (25%), Eucalyptus crebra (25%), Grevillea coriacea (25%), Grevillea mimosoides (1, 25%), Hovea lanceolata (25%), Melaleuca nervosa (25%), Persoonia falcata (25%)*

**Stratum: G**

Height avg. = 0.2m, range 0.2-0.25m, 2 sites

PFC avg. = 34.5%, range 20-49%, 2 sites

*Dominant species (relative cover, frequency): Ectrosia leporina (32, 50%), Chrysopogon fallax (22, 25%), Eremochloa bimaculata (20, 25%), Fimbristylis cinnamometorum (18, 50%), Themeda triandra (18, 25%)*

*Frequent species (cover, frequency): GRAMINOIDS: Alloteropsis semialata (1, 50%), Ectrosia leporina (6, 50%), Fimbristylis cinnamometorum (7, 50%), Abildgaardia indet. (25%), Aristida superpendens (1, 25%), Chrysopogon fallax (10, 25%), Elionurus citreus (1, 25%), Eragrostis indet. (25%), Eremochloa bimaculata (9, 25%), Eriachne indet. (25%), Fimbristylis indet. (25%), Pseudopogonatherum contortum (25%), Schizachyrium fragile (25%), Schizachyrium indet. (4, 25%), Scleria indet. (25%), Themeda triandra (3, 25%)*

*FORBS: Hypericum gramineum (50%), Lomandra multiflora (50%), Murdannia graminea (50%), Poranthera microphylla (50%), Wahlenbergia indet. (50%), Xyris indet. (50%), Asteraceae indet. (25%), Blumea saxatilis (25%), Caladenia carnea (25%), Cartonema brachyantherum (25%), Cartonema indet. (25%), Centranthera cochinchinensis (25%), Centrolepis exserta (25%), Centrolepis indet. (25%), Cheilanthes indet. (25%), Desmodium trichostachyum (25%), Drosera burmanni (25%), Eriocaulon indet. (25%), Flemingia parviflora (25%), Glycine indet. (25%), Goodenia indet. (25%), Melaleuca viridiflora (1, 25%), Persoonia falcata (1, 25%), Portulaca indet. (25%), Rotala mexicana (25%), Spermacoce indet. (25%), Stackhousia intermedia (25%), Stylosanthes indet. (25%)*

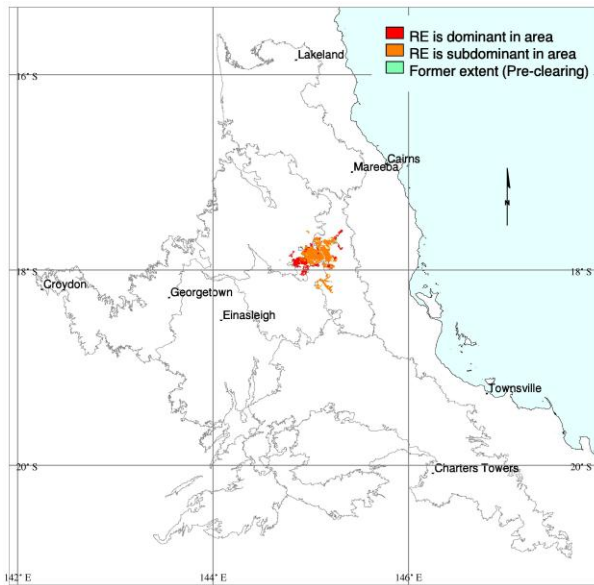
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Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency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

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

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

**Eucalyptus leptophleba +/- Corymbia clarksoniana woodland on Tertiary remnants**



M. Newton

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 48,401 44,236 91%

Species recorded: Total: 75; woody: 9; ground: 68; Avg. spp./site: 29.3; std dev.: 8.6, 3 site(s)

Basal area: Avg./site: 6.7 m<sup>2</sup>/ha, range: 4.8 - 9 m<sup>2</sup>/ha, std. deviation: 2 m<sup>2</sup>/ha, 4 site(s)

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

Representative sites: 26083, 26165, 26172, 37307.

**Stratum: T1**

Height avg. = 17.0m, range 12-22m, 4 sites

Crown cover avg. = 31.1%, range 13.8-52.4%, 4 sites

Stem density/ha avg. = 73, range 40-100, 3 sites

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

Frequent species (cover, frequency): *Eucalyptus leptophleba* (31, 100%), *Corymbia clarksoniana* (25%), *Eucalyptus platyphylla* (25%)

**Stratum: S1**

Height avg. = 1.9m, range 0.8-3m, 3 sites

Crown cover avg. = 2.8%, range 0.0-7.9%, 3 sites

Stem density/ha avg. = 570, range 520-620, 2 sites

Dominant species (relative cover, frequency): *Petalostigma pubescens* (96, 50%), *Acacia bidwillii* (71, 25%), *Eucalyptus platyphylla* (14, 25%), *Eucalyptus leptophleba* (8, 50%), *Melaleuca viridiflora* (4, 25%)

Frequent species (cover, frequency): *Eucalyptus leptophleba* (50%), *Petalostigma pubescens* (1, 50%), *Acacia bidwillii* (25%), *Eucalyptus platyphylla* (25%), *Hakea persiehana* (25%), *Maytenus cunninghamii* (25%), *Melaleuca nervosa* (25%), *Melaleuca viridiflora* (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.

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

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

**Stratum: G**

Height avg. = 0.4m, range 0.3-0.6m, 3 sites

PFC avg. = 69.0%, range 57-82%, 3 sites

*Dominant species (relative cover, frequency):* *Heteropogon contortus* (30, 75%), *Fimbristylis indet.* (15, 50%), *Bothriochloa decipiens* (14, 25%), *Aristida superpendens* (14, 25%), *Chrysopogon fallax* (13, 25%)

*Frequent species (cover, frequency):* **GRAMINOIDS:** *Heteropogon contortus* (22, 75%), *Fimbristylis indet.* (10, 50%), *Panicum indet.* (2, 50%), *Sarga plumosum* (8, 50%), *Sporobolus jacquemontii\** (4, 50%), *Aristida superpendens* (12, 25%), *Bothriochloa decipiens* (10, 25%), *Chloris divaricata* (25%), *Chloris indet.* (25%), *Chrysopogon fallax* (11, 25%), *Cyperaceae indet.* (1, 25%), *Cyperus difformis* (1, 25%), *Cyperus pulchellus* (1, 25%), *Cyperus pumilus* (1, 25%), *Dichanthium sericeum* (25%), *Echinochloa colona\** (25%), *Ectrosia lasioclada* (2, 25%), *Elytrophorus spicatus* (25%), *Eragrostis brownii* (25%), *Eragrostis elongata* (6, 25%), *Eragrostis indet.* (7, 25%), *Eragrostis schultzii* (2, 25%), *Eragrostis sororia* (25%), *Eragrostis spartinoides* (6, 25%), *Eragrostis tenellula* (2, 25%), *Eriachne rara* (25%), *Eriochloa indet.* (5, 25%), *Panicum seminudum var. cairnsianum* (25%), *Setaria indet.* (25%), *Setaria surgens* (25%), *Sorghum indet.* (25%), *Sporobolus indet.* (25%), *Themeda triandra* (25%)  
**FORBS:** *Asteraceae indet.* (50%), *Gomphrena celosioides\** (1, 50%), *Grewia retusifolia* (50%), *Phyllanthus indet.* (2, 50%), *Pterocaulon redolens* (1, 50%), *Rostellularia adscendens* (1, 50%), *Ruellia tuberosa\** (3, 50%), *Acacia bidwillii* (4, 25%), *Achyranthes aspera* (25%), *Ammannia multiflora* (25%), *Blumea saxatilis* (25%), *Breynia oblongifolia* (25%), *Cayratia indet.* (25%), *Chamaecrista absus var. absus* (6, 25%), *Crotalaria calycina* (1, 25%), *Cucumis anguria var. anguria\** (25%), *Cyanthillium cinereum* (25%), *Desmodium indet.* (1, 25%), *Drosera indica* (25%), *Drosera spatulata* (25%), *Emilia sonchifolia\** (25%), *Epaltes australis* (25%), *Fabaceae indet.* (25%), *Goodenia indet.* (25%), *Mitracarpus hirtus\** (25%), *Sida acuta\** (25%), *Sida hackettiana* (25%), *Spermacoce indet.* (25%), *Stylosanthes indet.* (1, 25%), *Stylosanthes scabra\** (25%), *Wahlenbergia caryophylloides* (1, 25%), *Wahlenbergia indet.* (25%), *Waltheria indica* (1, 25%), *Zornia indet.* (25%)

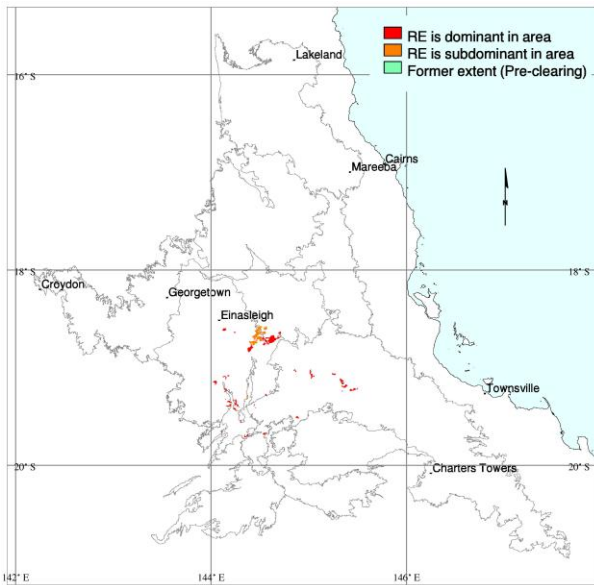
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Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency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

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

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

**Eucalyptus leptophleba and/or E. crebra woodland on yellow earths on plains**



S. L. Thompson

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 21,349 20,886 98%

Species recorded: Total: 39; woody: 14; ground: 27; Avg. spp./site: 23.0; std dev.: 6.0, 2 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: Woodland: 50%; open-woodland: 50%, 2 site(s)

Representative sites: 25979, 26310.

**Stratum: T1**

Height avg. = 19.5m, range 16-23m, 2 sites

Crown cover avg. = 9.3%, range 0.6-18.1%, 2 sites

Stem density/ha avg. = 50, range 40-60, 2 sites

*Dominant species (relative cover, frequency): Eucalyptus leptophleba (95, 100%), Eucalyptus platyphylla (3, 50%), Corymbia clarksoniana (3, 50%), Brachychiton indet. (3, 50%)*

*Frequent species (cover, frequency): Eucalyptus leptophleba (9, 100%), Brachychiton indet. (50%), Corymbia clarksoniana (50%), Eucalyptus platyphylla (50%)*

**Stratum: T2**

Height avg. = 6.5m, range 4-9m, 2 sites

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

Stem density/ha avg. = 40, 1 site

*Dominant species (relative cover, frequency): Hakea lorea subsp. lorea (50, 50%), Eucalyptus leptophleba (50, 50%), Petalostigma pubescens (20, 50%), Melaleuca nervosa (20, 50%), Brachychiton indet. (20, 50%)*

*Frequent species (cover, frequency): Acacia julifera subsp. julifera (50%), Atalaya hemiglauca (50%), Brachychiton indet. (50%), Eucalyptus leptophleba (50%), Hakea lorea subsp. lorea (50%), Melaleuca nervosa (50%), Petalostigma pubescens (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.

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

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

**Stratum: S1**

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

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

Stem density/ha avg. = 170, range 120-220, 2 sites

*Dominant species (relative cover, frequency):* *Acacia julifera* subsp. *julifera* (73, 50%), *Maytenus cunninghamii* (25, 50%), *Hakea lorea* subsp. *lorea* (25, 50%), *Dolichandrone heterophylla* (25, 50%), *Carissa ovata* (25, 50%)

*Frequent species (cover, frequency):* *Acacia julifera* subsp. *julifera* (50%), *Atalaya hemiglauca* (50%), *Breynia oblongifolia* (50%), *Carissa ovata* (50%), *Dolichandrone heterophylla* (50%), *Eucalyptus leptophleba* (50%), *Grewia retusifolia* (50%), *Hakea lorea* subsp. *lorea* (50%), *Maytenus cunninghamii* (50%), *Melaleuca nervosa* (50%)

**Stratum: G**

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

PFC avg. = 65.5%, range 60-71%, 2 sites

*Dominant species (relative cover, frequency):* *Setaria surgens* (37, 50%), *Aristida* *indet.* (13, 100%), *Spermacoce* *indet.* (11, 50%), *Phyllanthus virgatus* (10, 50%), *Desmodium* *indet.* (9, 50%)

*Frequent species (cover, frequency):* **GRAMINOIDS:** *Aristida* *indet.* (7, 100%), *Heteropogon contortus* (1, 100%), *Melinis repens*\* (100%), *Capillipedium* *indet.* (2, 50%), *Dichanthium* *indet.* (50%), *Digitaria* *indet.* (50%), *Elionurus citreus* (1, 50%), *Eragrostis* *indet.* (50%), *Eragrostis speciosa* (50%), *Heteropogon triticeus* (2, 50%), *Panicum* *indet.* (50%), *Perotis rara* (50%), *Setaria surgens* (27, 50%)

**FORBS:** *Evolvulus alsinoides* (100%), *Acanthospermum hispidum*\* (50%), *Achyranthes aspera* (50%), *Aphyllodium biarticulatum* (50%), *Breynia oblongifolia* (50%), *Desmodium* *indet.* (7, 50%), *Dianella* *indet.* (2, 50%), *Grewia retusifolia* (50%), *Lomandra* *indet.* (1, 50%), *Phyllanthus virgatus* (8, 50%), *Portulaca* *indet.* (50%), *Spermacoce* *indet.* (8, 50%), *Stylosanthes* *indet.* (50%), *Wedelia* *indet.* (50%)

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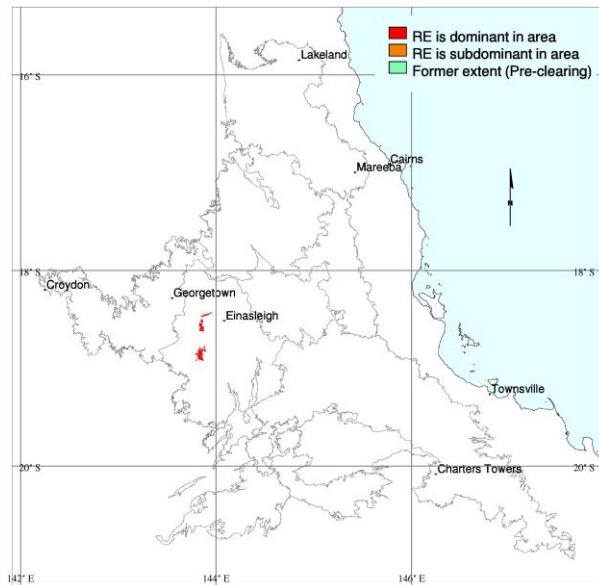
Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum.

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species 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 Corymbia erythrophloia +/- Corymbia dallachiana and/or Corymbia polycarpa woodland on Tertiary plateaus**



K. McDonald

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 11,296 11,002 97%

Species recorded: Total: 32; woody: 14; ground: 24; Avg. spp./site: 16.0; std dev.: 3.0, 2 site(s)

Basal area: Avg./site: 10.7 m<sup>2</sup>/ha, range: 10.0 - 12 m<sup>2</sup>/ha, std. deviation: 1 m<sup>2</sup>/ha, 3 site(s)

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

Representative sites: 26695, 26776, 39424.

**Stratum: T1**

Height avg. = 15.3m, range 15-16m, 3 sites

Crown cover avg. = 40.5%, range 27.0-63.1%, 3 sites

Stem density/ha avg. = 130, range 80-180, 2 sites

*Dominant species (relative cover, frequency): Eucalyptus crebra (97, 67%), Eucalyptus whitei (47, 33%), Corymbia polycarpa (34, 33%), Corymbia pocillum (19, 33%), Corymbia clarksoniana (7, 33%)*

*Frequent species (cover, frequency): Eucalyptus crebra (43, 67%), Corymbia clarksoniana (4, 33%), Corymbia dallachiana (33%), Corymbia erythrophloia (33%), Corymbia pocillum (4, 33%), Corymbia polycarpa (8, 33%), Eucalyptus whitei (11, 33%)*

**Stratum: T2**

Height avg. = 6.0m, 1 site

Crown cover avg. = 1.6%, 1 site

*Dominant species (relative cover, frequency): Acacia longispicata (98, 33%), Corymbia pocillum (2, 33%)*

*Frequent species (cover, frequency): Acacia longispicata (2, 33%), Corymbia pocillum (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.

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

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

**Stratum: S1**

Height avg. = 2.3m, range 2-2.5m, 2 sites

Crown cover avg. = 1.6%, range 1.6-1.6%, 2 sites

Stem density/ha avg. = 800, 1 site

*Dominant species (relative cover, frequency): Acacia longispicata (71, 33%), Petalostigma pubescens (39, 33%), Corymbia clarksoniana (39, 33%), Pogonolobus reticulatus (14, 33%), Acacia flavescens (14, 33%)*

*Frequent species (cover, frequency): Grevillea parallela (67%), Acacia flavescens (33%), Acacia longispicata (1, 33%), Corymbia clarksoniana (1, 33%), Corymbia dallachiana (33%), Eucalyptus crebra (33%), Grevillea glauca (33%), Maytenus cunninghamii (33%), Petalostigma pubescens (1, 33%), Pogonolobus reticulatus (33%)*

**Stratum: G**

Height avg. = 0.5m, range 0.3-0.6m, 2 sites

PFC avg. = 45.5%, range 39-52%, 2 sites

*Dominant species (relative cover, frequency): Themeda triandra (55, 67%), Scleria sphacelata (25, 33%), Capillipedium parviflorum (20, 33%), Cajanus acutifolius (16, 33%), Indigofera indet. (8, 33%)*

*Frequent species (cover, frequency): GRAMINOIDS: Themeda triandra (26, 67%), Aristida indet. (33%), Capillipedium parviflorum (8, 33%), Scleria sphacelata (10, 33%)*

*FORBS: Brunoniella australis (1, 67%), Glycine indet. (3, 67%), Grewia retusifolia (67%), Acacia flavescens (33%), Asteraceae indet. (33%), Cajanus acutifolius (9, 33%), Corymbia clarksoniana (33%), Corymbia dallachiana (33%), Desmodium indet. (33%), Eucalyptus crebra (33%), Grevillea parallela (33%), Indigofera colutea (33%), Indigofera indet. (4, 33%), Lomandra indet. (33%), Petalostigma pubescens (33%), Rostellularia adscendens (33%), Spermacoce indet. (33%), Zornia indet. (33%), Zornia muriculata subsp. muriculata (33%)*

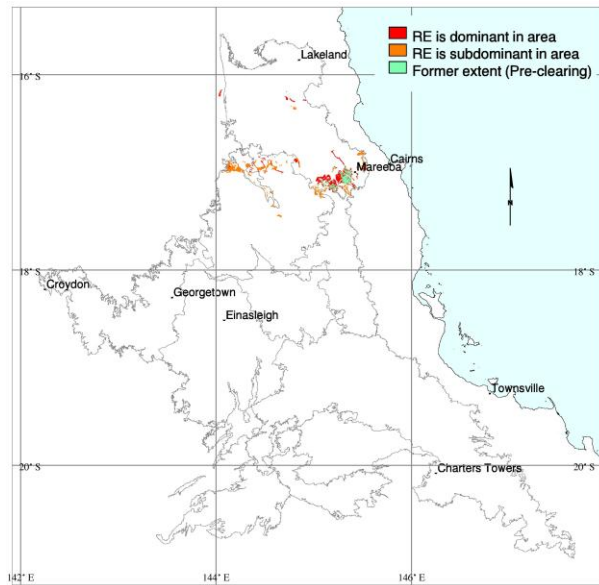
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Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency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

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species 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 and Eucalyptus platyphylla woodland on plains**



G.W. Wilson

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 54,693 28,414 52%

Species recorded: Total: 161; woody: 49; ground: 123; Avg. spp./site: 24.1; std dev.: 8.9, 17 site(s)

Basal area: Avg./site: 8.8 m<sup>2</sup>/ha, range: 7.0 - 13 m<sup>2</sup>/ha, std. deviation: 2 m<sup>2</sup>/ha, 7 site(s)

Structural formation: Woodland: 59%; open-woodland: 41%, 17 site(s)

Representative sites: 25933, 25939, 25940, 25941, 25943, 25951, 25953, 25960, 25961, 25963, 25996, 26153, 26154, 26182, 26920, 26938, 26973.

**Stratum: T1**

Height avg. = 16.6m, range 9-23m, 17 sites

Crown cover avg. = 23.3%, range 4.4-48.5%, 17 sites

Stem density/ha avg. = 105, range 40-360, 17 sites

*Dominant species (relative cover, frequency): Corymbia clarksoniana (55, 94%), Eucalyptus platyphylla (49, 41%), Eucalyptus leptophleba (40, 53%), Corymbia tessellaris (15, 24%)*

*Frequent species (cover, frequency): Corymbia clarksoniana (9, 94%), Eucalyptus leptophleba (5, 53%), Eucalyptus platyphylla (10, 41%), Corymbia tessellaris (24%), Corymbia dallachiana (12%), Erythrophleum chlorostachys (5, 12%), Eucalyptus tereticornis (4, 12%), Acacia leiocalyx (6%), Eucalyptus cullenii (6%), Melaleuca stenostachya (1, 6%)*

**Stratum: T2**

Height avg. = 8.1m, range 4-12m, 15 sites

Crown cover avg. = 8.8%, range 0.0-29.2%, 15 sites

Stem density/ha avg. = 248, range 80-720, 12 sites

*Dominant species (relative cover, frequency): Melaleuca viridiflora (53, 47%), Eucalyptus platyphylla (29, 35%), Alphitonia pomaderroides (29, 35%), Petalostigma pubescens (17, 35%), Corymbia clarksoniana (16, 41%)*

*Frequent species (cover, frequency): Grevillea glauca (47%), Melaleuca viridiflora (4, 47%), Corymbia clarksoniana (41%), Alphitonia pomaderroides (1, 35%), Eucalyptus platyphylla (1, 35%), Petalostigma pubescens (35%), Melaleuca nervosa (1, 29%), Eucalyptus leptophleba (18%), Grevillea parallela (18%), Erythrophleum chlorostachys (12%), Melaleuca stenostachya (12%), Pandanus indet. (12%), Alphitonia excelsa (10, 6%), Brachychiton indet. (6%), Callitris intratropica (5, 6%), Corymbia tessellaris (6%), Grevillea pteridifolia (6%), Lophostemon suaveolens (6%), Melaleuca minutifolia (6%), Parinari nonda (6%), Persoonia falcata (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.

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

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

**Stratum: S1**

Height avg. = 2.4m, range 1.5-4m, 15 sites

Crown cover avg. = 6.2%, range 0.0-27.0%, 15 sites

Stem density/ha avg. = 773, range 100-4560, 14 sites

*Dominant species (relative cover, frequency):* *Melaleuca viridiflora* (43, 53%), *Alphitonia pomaderroides* (23, 35%), *Corymbia clarksoniana* (17, 47%), *Petalostigma pubescens* (15, 41%), *Eucalyptus leptophleba* (12, 29%)

*Frequent species (cover, frequency):* *Melaleuca viridiflora* (4, 53%), *Corymbia clarksoniana* (47%), *Petalostigma pubescens* (1, 41%), *Alphitonia pomaderroides* (35%), *Persoonia falcata* (35%), *Eucalyptus leptophleba* (29%), *Grevillea parallela* (29%), *Melaleuca nervosa* (29%), *Pogonolobus reticulatus* (24%), *Eucalyptus platyphylla* (18%), *Pandanus indet.* (18%), *Planchonia careya* (18%), *Acacia leptocarpa* (12%), *Brachychiton indet.* (12%), *Breynia cernua* (12%), *Capparis indet.* (12%), *Erythrophleum chlorostachys* (12%), *Grevillea glauca* (12%), *Grewia retusifolia* (12%), *Maytenus cunninghamii* (12%), *Melaleuca stenostachya* (12%), *Acacia craspedocarpa* (6%), *Acacia flavescens* (6%), *Acacia holosericea* (6%), *Acacia indet.* (6%), *Acacia leiocalyx* (6%), *Alphitonia excelsa* (6%), *Breynia oblongifolia* (6%), *Corymbia dallachiana* (6%), *Corymbia tessellaris* (6%), *Ehretia indet.* (6%), *Erythroxylum ellipticum* (6%), *Eucalyptus tereticornis* (6%), *Ficus opposita* (6%), *Grevillea mimosoides* (6%), *Grevillea pteridifolia* (6%), *Haemodorum coccineum* (6%), *Hakea persiehana* (6%), *Jacksonia thesioides* (6%), *Lamprolobium fruticosum* (6%), *Lophostemon suaveolens* (6%), *Sida indet.* (6%), *Stylosanthes indet.* (6%), *Wrightia saligna* (6%), *Xylomelum scottianum* (6%)

**Stratum: G**

Height avg. = 0.5m, range 0.1-1m, 17 sites

PFC avg. = 47.5%, range 15-90%, 17 sites

*Dominant species (relative cover, frequency):* *Themeda triandra* (30, 76%), *Heteropogon contortus* (24, 53%), *Eremochloa indet.* (12, 29%), *Aristida indet.* (11, 59%), *Heteropogon triticeus* (10, 47%)

*Frequent species (cover, frequency):* **GRAMINOIDS:** *Themeda triandra* (14, 76%), *Aristida indet.* (1, 59%), *Heteropogon contortus* (16, 53%), *Heteropogon triticeus* (1, 47%), *Sarga plumosum* (1, 47%), *Eragrostis indet.* (29%), *Eremochloa indet.* (4, 29%), *Panicum indet.* (29%), *Imperata cylindrica* (3, 24%), *Melinis repens\** (2, 24%), *Schizachyrium fragile* (1, 24%), *Cymbopogon refractus* (18%), *Alloteropsis semialata* (12%), *Aristida calycina* (4, 12%), *Aristida warburgii* (12%), *Arundinella nepalensis* (1, 12%), *Arundinella setosa* (12%), *Ectrosia leporina* (2, 12%), *Poaceae indet.* (12%), *Pseudopogonatherum irritans* (2, 12%), *Schizachyrium indet.* (6, 12%), *Setaria surgens* (1, 12%), *Arundinella indet.* (6%), *Brachiaria indet.* (6%), *Capillipedium indet.* (6%), *Capillipedium parviflorum* (6%), *Chrysopogon fallax* (6%), *Cyperus indet.* (1, 6%), *Dimeria ornithopoda* (8, 6%), *Eragrostis brownii* (4, 6%), *Eragrostis schultzei* (6%), *Eragrostis spartinoideus* (2, 6%), *Fimbristylis cinnamometorum* (1, 6%), *Fimbristylis indet.* (2, 6%), *Ischaemum indet.* (6%), *Panicum decompositum* (6%), *Rottboellia indet.* (6%), *Sacciolepis indica* (3, 6%), *Scleria indet.* (6%), *Setaria apiculata* (6%), *Setaria sphacelata\** (6%), *Sporobolus jacquemontii\** (6%), *Thaumatococcus indet.* (6%), *Themeda quadrivalvis\** (6%)

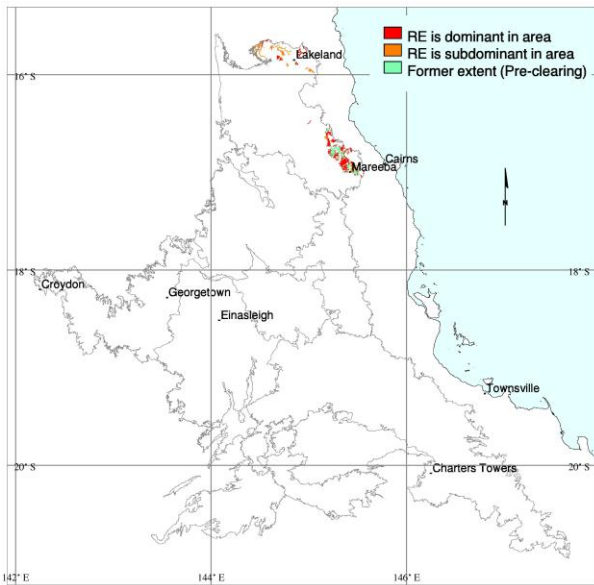
**FORBS:** *Flemingia parviflora* (1, 35%), *Grewia retusifolia* (35%), *Spermacoce indet.* (35%), *Mitracarpus hirtus\** (29%), *Pterocaulon redolens* (29%), *Stylosanthes indet.* (29%), *Fabaceae indet.* (2, 24%), *Dianella indet.* (18%), *Hybanthus enneaspermus* (18%), *Hyptis suaveolens\** (18%), *Lomandra indet.* (1, 18%), *Melaleuca nervosa* (18%), *Phyllanthus virgatus* (1, 18%), *Praxelis clematidea\** (1, 18%), *Rostellularia adscendens* (18%), *Stylosanthes scabra\** (1, 18%), *Breynia oblongifolia* (12%), *Cassytha filiformis* (12%), *Cayratia trifolia* (12%), *Chamaecrista mimosoides* (12%), *Cyanthillium cinereum* (12%), *Euphorbiaceae indet.* (12%), *Maytenus cunninghamii* (12%), *Planchonella indet.* (12%), *Tephrosia juncea* (12%), *Wahlenbergia indet.* (12%), *Abelmoschus moschatus subsp. tuberosus* (6%), *Ammannia multiflora* (6%), *Anagallis pumila* (6%), *Asteraceae indet.* (1, 6%), *Atalaya variifolia* (6%), *Blumea saxatilis* (6%), *Cajanus marmoratus* (6%), *Chamaecrista absus var. absus* (2, 6%), *Corymbia clarksoniana* (1, 6%), *Crotalaria calycina* (6%), *Crotalaria goreensis\** (6%), *Distichostemon malvaceus* (1, 6%), *Eclipta prostrata* (6%), *Emilia sonchifolia\** (6%), *Euphorbia indet.* (6%), *Galactia muelleri* (6%), *Glycine curvata* (6%), *Glycine indet.* (6%), *Grevillea dryandri* (6%), *Haemodorum coccineum* (6%), *Helichrysum newcastlianum* (6%), *Hibbertia longifolia* (6%), *Indigofera indet.* (3, 6%), *Indigofera linnaei* (1, 6%), *Indigofera trifoliata* (6%), *Lobelia indet.* (2, 6%), *Malvastrum indet.* (6%), *Melaleuca viridiflora* (6%), *Murdannia graminea* (6%), *Oldenlandia indet.* (6%), *Parsonia indet.* (6%), *Passiflora foetida\** (6%), *Persoonia falcata* (6%), *Phyllanthus fuernrohrii* (6%), *Polycarpha corymbosa* (6%), *Pterocaulon indet.* (6%), *Rhynchosia minima* (2, 6%), *Rubiaceae indet.* (1, 6%), *Sida indet.* (6%), *Sigesbeckia orientalis* (3, 6%), *Sonchus indet.* (2, 6%), *Stylosanthes guianensis var. intermedia\** (6%), *Stylosanthes humilis\** (6%), *Tephrosia filipes* (6%), *Thecanthes cornucopiae* (6%), *Triumfetta rhomboidea\** (6%), *Uraria lagopodioides* (6%), *Vigna radiata var. sublobata* (6%), *Waltheria indet.* (6%), *Xanthium indet.* (6%), *Xylomelum scottianum* (6%), *Xyris complanata* (6%), *Zornia muelleriana subsp. muelleriana* (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.

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

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

**Eucalyptus leptophleba and E. platyphylla and/or Corymbia clarksoniana woodland on plains**



G.W. Wilson

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 37,941 21,200 56%

Species recorded: Total: 195; woody: 45; ground: 160; Avg. spp./site: 46.7; std dev.: 23.6, 9 site(s)

Basal area: Avg./site: 11.3 m<sup>2</sup>/ha, range: 6.0 - 29 m<sup>2</sup>/ha, std. deviation: 7 m<sup>2</sup>/ha, 9 site(s)

Structural formation: Woodland: 89%; open-woodland: 11%, 9 site(s)

Representative sites: 26919, 26939, 26940, 26941, 27096, 27097, 27098, 27100, 39124.

**Stratum: E**

Height avg. = 28.0m, 1 site

Crown cover avg. = 9.8%, 1 site

Stem density/ha avg. = 40, 1 site

*Frequent species (cover, frequency): Corymbia clarksoniana (11%), Corymbia tessellaris (11%), Eucalyptus leptophleba (11, 11%), Eucalyptus tereticornis (11%)*

**Stratum: T1**

Height avg. = 16.7m, range 11-22m, 9 sites

Crown cover avg. = 32.8%, range 2.9-46.5%, 9 sites

Stem density/ha avg. = 171, range 40-460, 9 sites

*Dominant species (relative cover, frequency): Corymbia clarksoniana (55, 67%), Eucalyptus leptophleba (53, 100%), Eucalyptus platyphylla (11, 56%), Corymbia tessellaris (10, 33%), Brachychiton diversifolius subsp. orientalis (1, 22%)*

*Frequent species (cover, frequency): Eucalyptus leptophleba (12, 100%), Corymbia clarksoniana (18, 67%), Eucalyptus platyphylla (3, 56%), Corymbia tessellaris (3, 33%), Acacia flavescens (22%), Brachychiton diversifolius subsp. orientalis (22%), Corymbia dallachiana (2, 11%), Melaleuca nervosa (11%), Melaleuca viridiflora (11%), Planchonia careya (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.

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

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

**Stratum: T2**

Height avg. = 10.8m, range 7-15m, 4 sites

Crown cover avg. = 18.1%, range 0.0-52.4%, 4 sites

Stem density/ha avg. = 360, range 140-480, 4 sites

*Dominant species (relative cover, frequency): Corymbia clarksoniana (44, 44%), Acacia flavescens (37, 22%), Melaleuca nervosa (33, 22%), Corymbia tessellaris (16, 22%), Eucalyptus leptophleba (8, 33%)*

*Frequent species (cover, frequency): Corymbia clarksoniana (10, 44%), Brachychiton diversifolius subsp. orientalis (1, 33%), Eucalyptus leptophleba (1, 33%), Acacia flavescens (22%), Corymbia tessellaris (2, 22%), Melaleuca nervosa (2, 22%), Planchonia careya (22%), Acacia leptocarpa (11%), Eucalyptus platyphylla (11%), Grevillea glauca (11%), Larsenaikia ochreatea (11%), Lophostemon suaveolens (11%), Melaleuca fluviatilis (11%), Petalostigma pubescens (11%), Siphonodon pendulus (11%)*

**Stratum: S1**

Height avg. = 2.0m, range 1.5-3m, 9 sites

Crown cover avg. = 5.4%, range 0.0-24.7%, 9 sites

Stem density/ha avg. = 540, range 100-1060, 8 sites

*Dominant species (relative cover, frequency): Corymbia clarksoniana (29, 44%), Brachychiton diversifolius subsp. orientalis (27, 22%), Acacia flavescens (22, 33%), Acacia leptocarpa (20, 33%), Eucalyptus platyphylla (14, 22%)*

*Frequent species (cover, frequency): Planchonia careya (67%), Acacia disparrima (44%), Corymbia clarksoniana (44%), Eucalyptus leptophleba (44%), Petalostigma pubescens (44%), Acacia flavescens (1, 33%), Acacia leptocarpa (1, 33%), Antidesma parvifolium (33%), Ficus opposita (33%), Flueggea virosa subsp. melanthesoides (33%), Stylosanthes scabra\* (33%), Brachychiton diversifolius subsp. orientalis (1, 22%), Canarium australicum (22%), Corymbia tessellaris (22%), Eucalyptus platyphylla (22%), Maytenus cunninghamii (22%), Persoonia falcata (22%), Terminalia indet. (22%), Acacia leiocalyx (11%), Antidesma ghaesembilla (11%), Capparis spinosa (11%), Dolichandrone heterophylla (11%), Erythrina vespertilio (11%), Erythroxylum ellipticum (11%), Euroschinus falcatus var. falcatus (11%), Exocarpos latifolius (11%), Ficus indet. (11%), Grevillea coriacea (1, 11%), Grevillea parallela (11%), Hakea persiehana (11%), Larsenaikia ochreatea (11%), Melaleuca nervosa (11%), Melaleuca viridiflora (3, 11%), Pandorea pandorana (11%), Petalostigma banksii (11%), Pogonolobus reticulatus (11%), Wikstroemia indica (11%), Xylomelum scottianum (11%)*

**Stratum: S2**

Height avg. = 0.3m, 1 site

Crown cover avg. = 0.0%, 1 site

Stem density/ha avg. = 1300, 1 site

*Frequent species (cover, frequency): Grewia retusifolia (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.

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

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

**Stratum: G**

Height avg. = 0.7m, range 0.5-1.2m, 8 sites

PFC avg. = 62.4%, range 27-89%, 9 sites

*Dominant species (relative cover, frequency): Themeda triandra (36, 89%), Heteropogon contortus (20, 78%), Digitaria parviflora (13, 44%), Praxelis clematidea\* (10, 22%), Mnesithea rottboellioides (7, 33%)*

*Frequent species (cover, frequency): GRAMINOIDS: Heteropogon triticeus (3, 100%), Themeda triandra (24, 89%), Heteropogon contortus (9, 78%), Capillipedium parviflorum (3, 67%), Sarga plumosum (2, 56%), Arundinella setosa (3, 44%), Digitaria parviflora (7, 44%), Melinis repens\* (1, 44%), Panicum seminudum var. cairnsianum (44%), Paspalidium distans (1, 44%), Scleria brownii (1, 44%), Setaria apiculata (44%), Themeda quadrivalvis\* (2, 44%), Bothriochloa bladhii subsp. bladhii (1, 33%), Eragrostis spartinoides (33%), Fimbristylis dichotoma (1, 33%), Imperata cylindrica (4, 33%), Mnesithea formosa (33%), Mnesithea rottboellioides (5, 33%), Panicum effusum (1, 33%), Alloteropsis semialata (22%), Aristida superpendens (2, 22%), Paspalum paniculatum\* (22%), Schizachyrium indet. (22%), Aristida holathera var. holathera (11%), Aristida perniciososa (11%), Aristida utilis (11%), Bothriochloa bladhii (11%), Bothriochloa decipiens var. cloncurrrens (4, 11%), Bulbostylis barbata (11%), Cyperus scaber (1, 11%), Dichanthium sericeum (1, 11%), Enneapogon robustissimus (1, 11%), Eragrostis brownii (11%), Eragrostis cuningii (11%), Eragrostis speciosa (11%), Fimbristylis indet. (4, 11%), Fimbristylis macrantha (11%), Panicum decompositum var. tenuius (11%), Panicum effusum var. effusum (11%), Panicum trichoides (11%), Poaceae indet. (11%), Schizachyrium fragile (11%), Vacoparis laxiflorum (11%)*

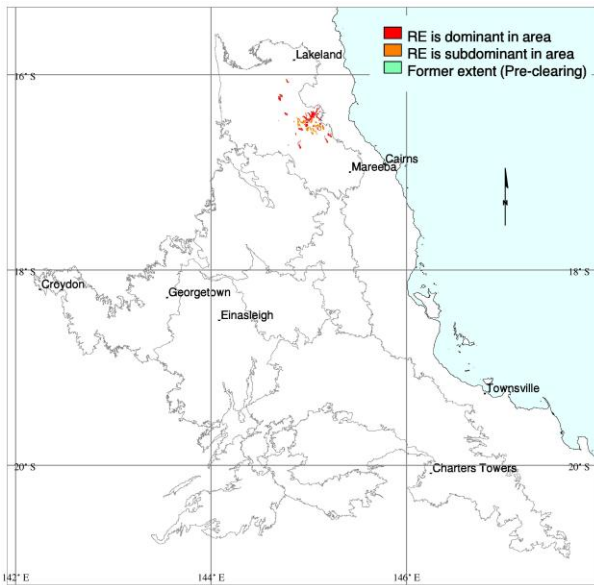
*FORBS: Grewia retusifolia (1, 100%), Crotalaria gorensis\* (67%), Flemingia parviflora (1, 67%), Commelina ensifolia (56%), Passiflora foetida\* (1, 56%), Rostellularia adscendens (56%), Acemella grandiflora var. brachyglossa (1, 44%), Cayratia trifolia (1, 44%), Cyathium cinereum (44%), Galactia tenuiflora (44%), Hibiscus meraukensis (44%), Planchonia careya (2, 44%), Pterocaulon sphacelatum (44%), Spermocoe latifolia\* (2, 44%), Triumfetta rhomboidea\* (44%), Brunoniella acaulis (33%), Crotalaria medicaginea (33%), Crotalaria montana (1, 33%), Dunbaria rotundifolia (33%), Emilia sonchifolia\* (33%), Glycine indet. (33%), Glycine tomentella (33%), Ipomoea eriocarpa (33%), Sida rhombifolia\* (33%), Stylosanthes scabra\* (1, 33%), Wahlenbergia caryophylloides (33%), Xenostegia tridentata (33%), Aristolochia thozetii (22%), Bidens bipinnata\* (22%), Breynia oblongifolia (1, 22%), Chamaecrista absus var. absus (22%), Corymbia clarksoniana (1, 22%), Crotalaria calycina (22%), Desmodium filiforme (22%), Desmodium gangeticum (22%), Desmodium strigillosum\* (2, 22%), Elephantopus scaber\* (22%), Eucalyptus leptophleba (22%), Glycine curvata (22%), Indigofera linnaei (22%), Melaleuca viridiflora (1, 22%), Phyllanthus dallachyanus (22%), Phyllanthus virgatus (22%), Praxelis clematidea\* (3, 22%), Rhynchosia minima (22%), Rhynchosia minima var. minima (22%), Sida spinosa\* (22%), Stephania japonica (22%), Thecanthes cornucopiae (22%), Uraria lagopodioides (22%), Uraria picta (22%), Ageratum houstonianum\* (1, 11%), Albizia procera (11%), Alysicarpus indet. (11%), Anisomeles malabarica (11%), Antidesma parvifolium (1, 11%), Aphyllodium biarticulatum (1, 11%), Aster subulatus\* (11%), Atalaya sericopetala (11%), Blumea saxatilis (11%), Brunoniella acaulis subsp. acaulis (6, 11%), Buchnera ciliata (11%), Buchnera linearis (11%), Cajanus reticulatus (1, 11%), Calyptocarpus vialis\* (11%), Cayratia indet. (11%), Chamaecrista nomame (11%), Chamaecrista nomame var. nomame (11%), Chamaecrista rotundifolia var. rotundifolia\* (11%), Chamaesyce hirta\* (11%), Chamaesyce mitchelliana var. mitchelliana (11%), Chamaesyce vachellii (11%), Chlorophytum laxum (11%), Crassocephalum crepidioides\* (11%), Crotalaria brevis (11%), Cucumis anguria var. anguria\* (11%), Curculigo ensifolia var. ensifolia (11%), Desmodium triflorum\* (1, 11%), Dianella caerulea (11%), Eremophila debilis (11%), Evolvulus alsinoides var. decumbens (11%), Flueggea virosa subsp. melanthesoides (11%), Galactia sp. (Myall Creek J.R. Clarkson 4885) (1, 11%), Glochidion indet. (11%), Glycine clandestina var. clandestina (11%), Goodenia pilosa (11%), Grevillea glauca (11%), Gymnanthera oblonga (11%), Hybanthus emneaspermus (11%), Hyptis suaveolens\* (11%), Indigofera colutea (11%), Macroptilium atropurpureum\* (3, 11%), Marsdenia viridiflora subsp. tropica (11%), Melaleuca nervosa (11%), Mitracarpus hirtus\* (1, 11%), Mitrasacme indet. (11%), Phyllanthus similis (11%), Phyllanthus simplex (1, 11%), Polygala exsuarrosa (11%), Polygala longifolia (11%), Poranthera microphylla (11%), Pterocaulon indet. (11%), Rostellularia adscendens var. latifolia (1, 11%), Sida cordifolia\* (11%), Sida hackettiana (11%), Stylosanthes guianensis var. guianensis\* (3, 11%), Tephrosia indet. (1, 11%), Tricoryne anceps (11%), Vigna indet. (11%), Vigna radiata (11%), Vigna radiata var. sublobata (11%), Waltheria indica (11%), Zornia dyctiocarpa var. filifolia (11%), Zornia muriculata (11%), Zornia muriculata subsp. angustata (11%), Zornia muriculata subsp. muriculata (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.

Frequent species: Cover (mean of all values > zero) and frequency (percent of total sites) of all species occurring in more than 5% of sites ordered by decreasing frequency. Ground layer species 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 and Eucalyptus leptophleba and/or E. cullenii woodland on plains**



J.E. Kemp

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 12,638 12,304 97%

Species recorded: Total: 68; woody: 14; ground: 61; Avg. spp./site: 60.0; std dev.: 0.0, 1 site(s)

Basal area: Avg./site: 11.3 m<sup>2</sup>/ha, range: 8.0 - 14 m<sup>2</sup>/ha, std. deviation: 2 m<sup>2</sup>/ha, 3 site(s)

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

Representative sites: 26148, 26596, 27086.

**Stratum: T1**

Height avg. = 13.7m, range 10-19m, 3 sites

Crown cover avg. = 39.3%, range 31.4-50.5%, 3 sites

Stem density/ha avg. = 427, range 260-720, 3 sites

*Dominant species (relative cover, frequency): Corymbia clarksoniana (75, 100%), Erythrophleum chlorostachys (46, 33%), Eucalyptus cullenii (7, 67%), Eucalyptus platyphylla (4, 33%), Grevillea parallela (4, 33%)*

*Frequent species (cover, frequency): Corymbia clarksoniana (22, 100%), Eucalyptus cullenii (1, 67%), Eucalyptus leptophleba (1, 67%), Erythrophleum chlorostachys (13, 33%), Eucalyptus platyphylla (1, 33%), Grevillea parallela (2, 33%), Melaleuca nervosa (33%), Melaleuca viridiflora (33%), Petalostigma banksii (33%)*

**Stratum: T2**

Height avg. = 11.0m, 1 site

Crown cover avg. = 24.7%, 1 site

Stem density/ha avg. = 1120, 1 site

*Dominant species (relative cover, frequency): Melaleuca nervosa (44, 33%), Corymbia clarksoniana (30, 33%), Melaleuca viridiflora (26, 33%)*

*Frequent species (cover, frequency): Corymbia clarksoniana (5, 33%), Melaleuca nervosa (7, 33%), Melaleuca viridiflora (4, 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.

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

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



**Stratum: S1**

Height avg. = 1.9m, range 1.5-2.5m, 3 sites

Crown cover avg. = 4.7%, range 0.6-11.8%, 3 sites

Stem density/ha avg. = 40, 1 site

*Dominant species (relative cover, frequency): Eucalyptus leptophleba (44, 33%), Petalostigma banksii (33, 33%), Erythrophleum chlorostachys (33, 33%), Melaleuca viridiflora (31, 67%), Petalostigma pubescens (28, 33%)*

*Frequent species (cover, frequency): Corymbia clarksoniana (67%), Melaleuca viridiflora (67%), Acacia flavescens (33%), Erythrophleum chlorostachys (33%), Eucalyptus leptophleba (33%), Hibiscus meraukensis (33%), Hyptis suaveolens\* (33%), Petalostigma banksii (33%), Petalostigma pubescens (33%), Planchonia careya (33%)*

**Stratum: G**

Height avg. = 0.7m, 1 site

PFC avg. = 70.0%, 1 site

*Dominant species (relative cover, frequency): Panicum seminudum var. cairnsianum (22, 33%), Desmodium filiforme (12, 33%), Heteropogon contortus (10, 33%), Themeda quadrivalvis\* (9, 33%), Corymbia clarksoniana (8, 33%)*

*Frequent species (cover, frequency): GRAMINOIDS: Alloteropsis indet. (1, 33%), Aristida superpendens (2, 33%), Arundinella setosa (1, 33%), Dactyloctenium aegyptium\* (33%), Fimbristylis acicularis (1, 33%), Fimbristylis dichotoma (33%), Heteropogon contortus (7, 33%), Heteropogon triticeus (33%), Melinis repens\* (33%), Panicum seminudum var. cairnsianum (16, 33%), Panicum trichoides (33%), Scleria novae-hollandiae (33%), Setaria apiculata (1, 33%), Sporobolus caroli (33%), Themeda arguens (2, 33%), Themeda quadrivalvis\* (7, 33%), Urochloa polyphylla (1, 33%)*

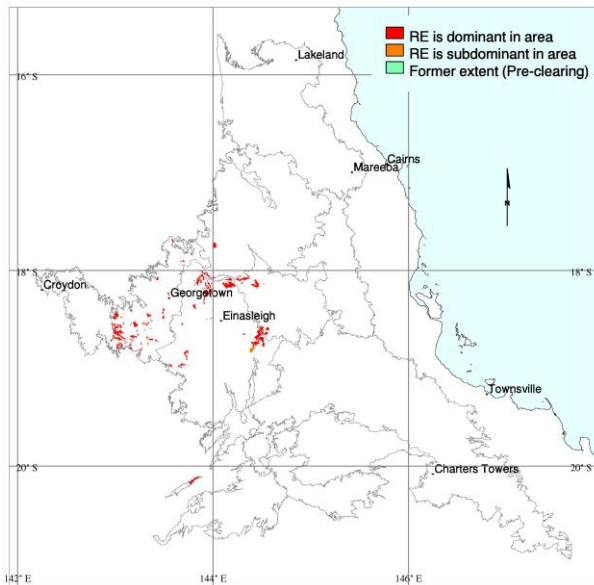
*FORBS: Aeschynomene villosa\* (1, 33%), Alternanthera nana (33%), Alysicarpus schomburgkii (33%), Brachychiton diversifolius subsp. orientalis (33%), Cassytha indet. (33%), Cayratia trifolia (33%), Chamaesyce vachellii (33%), Corchorus aestuans (33%), Corymbia clarksoniana (6, 33%), Crotalaria medicaginea (33%), Crotalaria montana (33%), Cucumis anguria var. anguria\* (33%), Desmodium filiforme (9, 33%), Desmodium pullenii (2, 33%), Dunbaria rotundifolia (1, 33%), Evolvulus alsinoides (33%), Flemingia parviflora (4, 33%), Galactia tenuiflora (33%), Glycine tomentella (33%), Goodenia pilosa (33%), Hibiscus meraukensis (1, 33%), Hybanthus enneaspermus (33%), Hyptis suaveolens\* (1, 33%), Indigofera hirsuta (33%), Ipomoea eriocarpa (33%), Ipomoea gracilis (33%), Melaleuca nervosa (1, 33%), Melaleuca viridiflora (1, 33%), Pandanus indet. (33%), Petalostigma pubescens (33%), Phyllanthus similis (33%), Planchonia careya (2, 33%), Sida rhombifolia\* (1, 33%), Sida spinosa\* (33%), Spermacoce latifolia\* (33%), Stylosanthes indet. (1, 33%), Stylosanthes scabra\* (33%), Tephrosia indet. (33%), Tephrosia juncea (1, 33%), Thecanthes cornucopiae (33%), Vigna radiata var. sublobata (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.

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

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

**Eucalyptus microneura +/- Corymbia pocillum or C. erythrophloia +/- Terminalia spp. low woodland on undulating plains**



Mark Newton

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 58,047 57,140 98%

Species recorded: Total: 90; woody: 33; ground: 64; Avg. spp./site: 28.2; std dev.: 7.1, 5 site(s)

Basal area: Avg./site: 6.8 m<sup>2</sup>/ha, range: 6.0 - 8 m<sup>2</sup>/ha, std. deviation: 1 m<sup>2</sup>/ha, 4 site(s)

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

Representative sites: 26059, 26523, 26639, 26640, 26707.

**Stratum: T1**

Height avg. = 7.0m, range 5-10m, 5 sites

Crown cover avg. = 23.9%, range 18.1-29.2%, 5 sites

Stem density/ha avg. = 184, range 60-340, 5 sites

*Dominant species (relative cover, frequency): Eucalyptus microneura (54, 100%), Terminalia platyptera (17, 60%), Terminalia aridicola (15, 40%), Erythrophleum chlorostachys (9, 60%)*

*Frequent species (cover, frequency): Eucalyptus microneura (10, 100%), Erythrophleum chlorostachys (1, 60%), Erythroxylum ellipticum (60%), Terminalia platyptera (3, 60%), Terminalia aridicola (3, 40%), Atalaya hemiglauca (20%), Cochlospermum gillivraei (20%), Corymbia erythrophloia (3, 20%), Dolichandrone heterophylla (20%), Eucalyptus crebra (20%), Eucalyptus leptophleba (7, 20%), Gardenia vilhelmii (2, 20%), Melaleuca citrolens (7, 20%), Petalostigma banksii (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.

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

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

**Stratum: S1**

Height avg. = 1.9m, range 1.5-2m, 5 sites

Crown cover avg. = 10.8%, range 0.0-33.7%, 5 sites

Stem density/ha avg. = 740, range 320-1560, 5 sites

*Dominant species (relative cover, frequency): Melaleuca citrolens (28, 40%), Gardenia vilhelmii (21, 100%), Maytenus cunninghamii (12, 60%), Carissa lanceolata (11, 100%), Petalostigma banksii (7, 60%)*

*Frequent species (cover, frequency): Carissa lanceolata (100%), Gardenia vilhelmii (2, 100%), Maytenus cunninghamii (1, 60%), Petalostigma banksii (60%), Cryptostegia grandiflora\* (40%), Eucalyptus microneura (40%), Melaleuca citrolens (40%), Acacia bidwillii (20%), Acacia chisholmii (3, 20%), Alchornea ilicifolia (20%), Alphonsea pomaderroides (20%), Atalaya hemiglaucula (20%), Capparis canescens (20%), Corymbia erythrophloia (1, 20%), Diospyros humilis (20%), Dodonaea physocarpa (20%), Dolichandrone heterophylla (20%), Erythrophleum chlorostachys (1, 20%), Erythroxylum ellipticum (20%), Eucalyptus leptophleba (3, 20%), Glycine indet. (1, 20%), Grevillea parallela (20%), Grewia retusifolia (20%), Hakea arborescens (2, 20%), Melaleuca stenostachya (20%), Santalum lanceolatum (20%), Stylosanthes indet. (20%), Terminalia aridicola (1, 20%), Terminalia aridicola subsp. chillagoensis (1, 20%), Terminalia platyptera (2, 20%), Xylomelum scottianum (20%)*

**Stratum: G**

Height avg. = 0.7m, range 0.5-0.9m, 5 sites

PFC avg. = 59.8%, range 30-83%, 5 sites

*Dominant species (relative cover, frequency): Aristida indet. (41, 80%), Schizachyrium indet. (20, 60%), Capillipedium parviflorum (14, 40%), Heteropogon contortus (10, 80%), Themeda triandra (7, 40%)*

*Frequent species (cover, frequency): GRAMINOIDS: Aristida indet. (23, 80%), Heteropogon contortus (6, 80%), Schizachyrium indet. (17, 60%), Capillipedium parviflorum (9, 40%), Panicum decompositum (2, 40%), Setaria indet. (40%), Themeda triandra (6, 40%), Aristida calycina var. calycina (10, 20%), Enneapogon lindleyanus (1, 20%), Enneapogon polyphyllus (20%), Eragrostis indet. (2, 20%), Melinis repens\* (20%), Panicum indet. (10, 20%), Perotis rara (3, 20%), Pseudopogonatherum indet. (1, 20%), Sarga plumosum (16, 20%), Setaria surgens (20%), Sporobolus indet. (10, 20%), Tripogon loliiformis (1, 20%)*

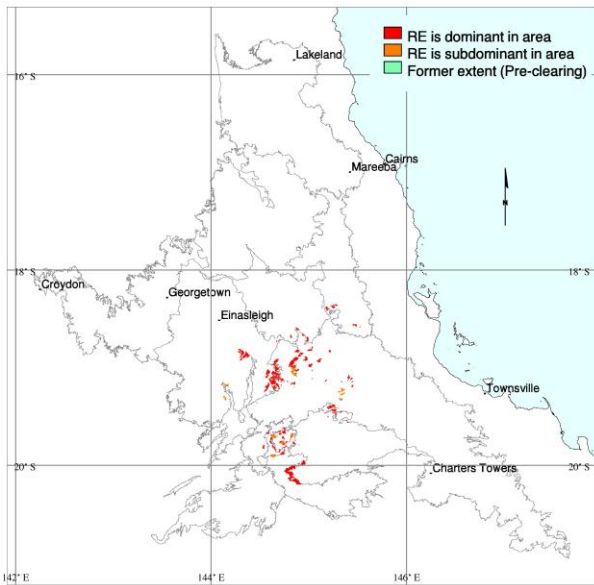
*FORBS: Brunoniella australis (1, 60%), Grewia retusifolia (60%), Melhania oblongifolia (60%), Acacia bidwillii (40%), Desmodium varians (2, 40%), Hibiscus meraukensis (40%), Phyllanthus indet. (40%), Sida indet. (40%), Angiosperm indet. (20%), Blumea indet. (1, 20%), Blumea saxatilis (20%), Carissa lanceolata (6, 20%), Chamaesyce indet. (20%), Commelina ensifolia (20%), Denhamia oleaster (20%), Dodonaea physocarpa (20%), Erythrophleum chlorostachys (2, 20%), Evolvulus alsinoides (20%), Heliotropium peninsulare (20%), Hibiscus indet. (20%), Hybanthus enneaspermus (1, 20%), Hybanthus indet. (20%), Hyptis indet. (20%), Indigofera indet. (20%), Indigofera linnaei (1, 20%), Ipomoea eriocarpa (20%), Ipomoea indet. (20%), Lamiaceae indet. (20%), Malvaceae indet. (20%), Malvastrum americanum\* (20%), Malvastrum americanum var. americanum\* (20%), Marsdenia viridiflora (20%), Melaleuca citrolens (2, 20%), Pandorea pandorana (20%), Polycarpaea corymbosa (20%), Pterocaulon redolens (20%), Pterocaulon sphacelatum (20%), Ptilotus indet. (20%), Rostellularia adscendens (20%), Rostellularia adscendens subsp. adscendens (20%), Spermaceae indet. (3, 20%), Stylosanthes indet. (20%), Zornia muelleriana subsp. muelleriana (1, 20%), Zornia muriculata (20%), Zornia muriculata subsp. muriculata (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.

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

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

**Eucalyptus persists +/- E. crebra woodland on flats on Tertiary remnant plains**



C. Kahler

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 55,676 54,986 99%

Species recorded: Total: 88; woody: 16; ground: 75; Avg. spp./site: 37.7; std dev.: 8.3, 3 site(s)

Basal area: Avg./site: 6.9 m<sup>2</sup>/ha, range: 2.9 - 10 m<sup>2</sup>/ha, std. deviation: 3 m<sup>2</sup>/ha, 3 site(s)

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

Representative sites: 26923, 37329, 39388.

**Stratum: T1**

Height avg. = 15.7m, range 13-18m, 3 sites

Crown cover avg. = 29.2%, range 9.8-46.5%, 3 sites

Stem density/ha avg. = 133, range 60-260, 3 sites

*Dominant species (relative cover, frequency): Eucalyptus persistens (100, 67%), Eucalyptus brownii (99, 33%)*

*Frequent species (cover, frequency): Eucalyptus crebra (67%), Eucalyptus persistens (40, 67%), Corymbia clarksoniana (33%), Corymbia dallachiana (33%), Dendrobium canaliculatum (33%), Eucalyptus brownii (11, 33%)*

**Stratum: T2**

Height avg. = 5.5m, range 5-6m, 2 sites

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

Stem density/ha avg. = 30, range 20-40, 2 sites

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

*Frequent species (cover, frequency): Eucalyptus brownii (33%), Eucalyptus persistens (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.

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

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

**Stratum: S1**

Height avg. = 2.2m, range 1.5-3m, 3 sites

Crown cover avg. = 2.6%, range 0.0-6.1%, 3 sites

Stem density/ha avg. = 480, range 380-540, 3 sites

*Dominant species (relative cover, frequency):* *Petalostigma banksii* (50, 67%), *Carissa lanceolata* (36, 100%), *Eucalyptus brownii* (17, 33%), *Dolichandrone heterophylla* (17, 33%), *Bursaria incana* (17, 33%)

*Frequent species (cover, frequency):* *Atalaya hemiglauca* (100%), *Carissa lanceolata* (2, 100%), *Maytenus cunninghamii* (100%), *Petalostigma banksii* (1, 67%), *Breynia oblongifolia* (33%), *Bursaria incana* (33%), *Dolichandrone heterophylla* (33%), *Dolichandrone* *indet.* (33%), *Eucalyptus brownii* (33%), *Eucalyptus persistens* (33%), *Melaleuca nervosa* (33%), *Psyrdrax saligna forma saligna* (33%)

**Stratum: G**

Height avg. = 0.6m, range 0.3-0.8m, 3 sites

PFC avg. = 59.3%, range 51-75%, 3 sites

*Dominant species (relative cover, frequency):* *Bothriochloa decipiens* *var. decipiens* (47, 33%), *Bothriochloa* *indet.* (37, 33%), *Chrysopogon fallax* (12, 100%), *Heteropogon contortus* (12, 100%), *Aristida queenslandica* *var. queenslandica* (11, 33%)

*Frequent species (cover, frequency):* **GRAMINOIDS:** *Chrysopogon fallax* (8, 100%), *Heteropogon contortus* (8, 100%), *Themeda triandra* (3, 100%), *Cyperus difformis* (2, 67%), *Digitaria brownii* (1, 67%), *Eragrostis tenellula* (2, 67%), *Melinis repens*\* (2, 67%), *Panicum effusum* (2, 67%), *Scleria brownii* (5, 67%), *Aristida calycina* *var. calycina* (33%), *Aristida* *indet.* (4, 33%), *Aristida jerichoensis* *var. subspinulifera* (33%), *Aristida queenslandica* *var. queenslandica* (6, 33%), *Bothriochloa decipiens* *var. cloncurrrensii* (6, 33%), *Bothriochloa decipiens* *var. decipiens* (25, 33%), *Bothriochloa ewartiana* (2, 33%), *Bothriochloa* *indet.* (28, 33%), *Cymbopogon bombycinus* (33%), *Cyperus castaneus* (33%), *Cyperus fulvus* (33%), *Cyperus* *indet.* (5, 33%), *Cyperus squarrosus* (33%), *Enneapogon lindleyanus* (33%), *Eragrostis brownii* (33%), *Eragrostis schultzei* (2, 33%), *Eriachne mucronata* (2, 33%), *Eriochloa procera* (33%), *Fimbristylis dichotoma* (33%), *Fimbristylis microcarya* (33%), *Heteropogon triticeus* (33%), *Iseilema* *indet.* (3, 33%), *Mnesithea formosa* (33%), *Thaumastochloa* *indet.* (33%)

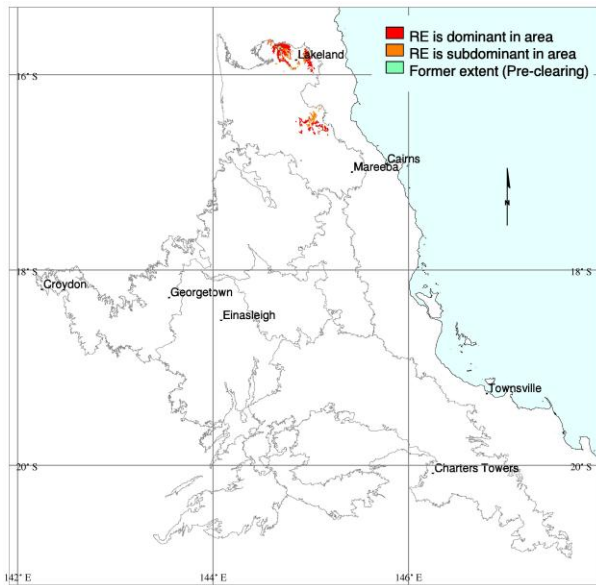
**FORBS:** *Ammannia multiflora* (67%), *Carissa lanceolata* (5, 67%), *Grewia retusifolia* (67%), *Jacquemontia paniculata* (1, 67%), *Pterocaulon redolens* (67%), *Sida hackettiana* (67%), *Asteraceae* *indet.* (33%), *Bidens pilosa*\* (33%), *Blumea diffusa* (33%), *Brunonia australis* (33%), *Brunonia* *indet.* (1, 33%), *Brunoniella acaulis* (33%), *Brunoniella australis* (33%), *Cajanus* *indet.* (33%), *Chamaesyce mitchelliana* (33%), *Crotalaria* *indet.* (33%), *Crotalaria medicaginea* (1, 33%), *Cyanthillium cinereum* (33%), *Evolvulus alsinoides* (33%), *Galactia tenuiflora* *var. lucida* (33%), *Geijera salicifolia* (33%), *Goodenia pilosa* (33%), *Hibiscus* *indet.* (33%), *Hyptis* *indet.* (33%), *Indigofera polygaloides* (33%), *Ipomoea eriocarpa* (33%), *Marsdenia microlepis* (33%), *Melhania oblongifolia* (33%), *Olearia arguta* (33%), *Parsonsia eucalyptophylla* (33%), *Peripleura hispidula* *var. hispidula* (33%), *Polycarpaea corymbosa* (33%), *Pterocaulon serrulatum* (33%), *Rhynchosia minima* (33%), *Rostellularia adscendens* (33%), *Rostellularia adscendens* *var. hispida* (33%), *Sesbania* *indet.* (33%), *Stylosanthes humilis*\* (33%), *Stylosanthes scabra*\* (33%), *Waltheria indica* (33%), *Wedelia spilanthisoides* (33%), *Zornia muriculata* *subsp. angustata* (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.

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

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

**Eucalyptus chlorophylla and/or E. tardecidens woodland on Tertiary plains**



J.E. Kemp

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 32,901 28,741 87%

Species recorded: Total: 140; woody: 29; ground: 114; Avg. spp./site: 35.0; std dev.: 23.9, 7 site(s)

Basal area: Avg./site: 8.1 m<sup>2</sup>/ha, range: 5.0 - 13 m<sup>2</sup>/ha, std. deviation: 3 m<sup>2</sup>/ha, 7 site(s)

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

Representative sites: 25806, 25854, 26147, 26963, 26976, 27071, 27122.

**Stratum: E**

Height avg. = 18.0m, 1 site  
 Crown cover avg. = 6.1%, 1 site  
 Stem density/ha avg. = 120, 1 site

*Frequent species (cover, frequency): Corymbia clarksoniana (2, 14%), Eucalyptus chlorophylla (2, 14%)*

**Stratum: T1**

Height avg. = 13.3m, range 8-22m, 7 sites  
 Crown cover avg. = 23.6%, range 1.6-54.3%, 7 sites  
 Stem density/ha avg. = 230, range 20-500, 6 sites

*Dominant species (relative cover, frequency): Eucalyptus tardecidens (96, 29%), Terminalia platyptera (83, 29%), Eucalyptus cullenii (63, 43%), Eucalyptus chlorophylla (31, 57%), Eucalyptus leptophleba (6, 29%)*

*Frequent species (cover, frequency): Eucalyptus chlorophylla (11, 57%), Corymbia dallachiana (43%), Eucalyptus cullenii (4, 43%), Melaleuca stenostachya (1, 43%), Eucalyptus leptophleba (3, 29%), Eucalyptus tardecidens (22, 29%), Terminalia aridicola subsp. chillagoensis (29%), Terminalia platyptera (20, 29%), Cymbidium canaliculatum (14%), Melaleuca citrolens (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.

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

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

**Stratum: T2**

Height avg. = 7.5m, range 5-10m, 4 sites

Crown cover avg. = 5.6%, range 0.0-13.8%, 4 sites

Stem density/ha avg. = 155, range 100-180, 4 sites

*Dominant species (relative cover, frequency): Melaleuca citrolens (41, 29%), Terminalia platyptera (37, 29%), Melaleuca stenostachya (27, 43%), Grevillea striata (24, 29%), Eucalyptus chlorophylla (9, 29%)*

*Frequent species (cover, frequency): Melaleuca stenostachya (2, 43%), Eucalyptus chlorophylla (1, 29%), Eucalyptus cullenii (29%), Grevillea striata (1, 29%), Melaleuca citrolens (5, 29%), Terminalia aridicola subsp. chillagoensis (29%), Terminalia platyptera (29%), Acacia oraria (14%), Brachychiton diversifolius subsp. orientalis (4, 14%), Santalum lanceolatum (14%)*

**Stratum: S1**

Height avg. = 2.2m, range 1.2-4m, 7 sites

Crown cover avg. = 3.7%, range 0.0-6.1%, 7 sites

Stem density/ha avg. = 1520, range 260-4900, 6 sites

*Dominant species (relative cover, frequency): Flueggea virosa subsp. melanthesoides (48, 29%), Melaleuca stenostachya (32, 29%), Terminalia platyptera (30, 57%), Petalostigma pubescens (15, 29%), Melaleuca citrolens (14, 43%)*

*Frequent species (cover, frequency): Carissa lanceolata (57%), Dolichandrone heterophylla (57%), Terminalia aridicola subsp. chillagoensis (57%), Terminalia platyptera (1, 57%), Eucalyptus chlorophylla (43%), Maytenus cunninghamii (43%), Melaleuca citrolens (43%), Cryptostegia grandiflora\* (29%), Flueggea virosa subsp. melanthesoides (1, 29%), Grevillea parallela (29%), Melaleuca stenostachya (1, 29%), Petalostigma pubescens (29%), Acacia oraria (14%), Cayratia trifolia (14%), Corymbia dallachiana (14%), Croton arnhemicus (14%), Erythroxylum ellipticum (14%), Eucalyptus cullenii (14%), Eucalyptus tardecidens (1, 14%), Gardenia vilhelmii (1, 14%), Grevillea coriacea (14%), Grevillea striata (1, 14%), Melaleuca viridiflora (14%), Petalostigma banksii (2, 14%), Santalum lanceolatum (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.

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

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

**Stratum: G**

Height avg. = 0.5m, range 0.2-1m, 7 sites

PFC avg. = 50.3%, range 21-75%, 7 sites

*Dominant species (relative cover, frequency): Themeda arguens (39, 29%), Aristida indet. (25, 43%), Chrysopogon fallax (16, 43%), Themeda triandra (15, 43%), Schizachyrium fragile (13, 43%)*

*Frequent species (cover, frequency): GRAMINOIDS: Heteropogon contortus (4, 86%), Ectrosia nervilemma (1, 57%), Sarga plumosum (2, 57%), Aristida indet. (18, 43%), Aristida perniciososa (3, 43%), Chrysopogon fallax (9, 43%), Eragrostis spartinoideus (43%), Mnesithea formosa (2, 43%), Schizachyrium fragile (7, 43%), Themeda triandra (5, 43%), Alloteropsis cimicina (1, 29%), Aristida biglandulosa (3, 29%), Aristida holathera var. holathera (4, 29%), Cyperus indet. (3, 29%), Dichanthium indet. (29%), Digitaria ammophila (29%), Digitaria indet. (1, 29%), Eragrostis indet. (2, 29%), Fimbristylis dichotoma (2, 29%), Schizachyrium indet. (3, 29%), Themeda arguens (16, 29%), Alloteropsis semialata (4, 14%), Aristida pruinosa (4, 14%), Bothriochloa decipiens var. decipiens (1, 14%), Capillipedium indet. (1, 14%), Chloris indet. (10, 14%), Cymbopogon bombycinus (14%), Digitaria bicornis (8, 14%), Digitaria gibbosa (14%), Ectrosia confusa (14%), Ectrosia indet. (18, 14%), Enneapogon lindleyanus (14%), Eragrostis tenellula (14%), Eriachne obtusa (14%), Eriachne rara (14%), Eriachne squarrosa (14%), Eriachne stipacea (14%), Fimbristylis acicularis (14%), Fimbristylis depauperata (14%), Fimbristylis indet. (1, 14%), Heterachne gulliveri (14%), Panicum effusum (1, 14%), Panicum indet. (5, 14%), Panicum mindanaense (2, 14%), Panicum seminudum var. cairnsianum (1, 14%), Pseudopogonatherum contortum (14%), Rhynchospora subtenuifolia (14%), Scleria brownii (14%), Themeda quadrivalvis\* (14%)*

*FORBS: Grewia retusifolia (43%), Hibiscus meraukensis (43%), Sida indet. (1, 43%), Chamaecrista absus var. absus (2, 29%), Cheilanthes nudiuscula (29%), Corchorus aestuans (29%), Crotalaria medicaginea (1, 29%), Crotalaria montana (29%), Desmodium filiforme (29%), Evolvulus alsinoides (1, 29%), Goodenia pilosa (29%), Helicteres sp. (Normanby River J.R.Clarkson+ 7697) (1, 29%), Heliotropium peninsulare (29%), Hybanthus enneaspermus (29%), Indigastrum parviflorum (29%), Ipomoea eriocarpa (29%), Ipomoea polymorpha (1, 29%), Jacquemontia sp. (Fairview R.W.Johnson 4026) (29%), Phyllanthus minutiflorus (29%), Polygala indet. (29%), Sida spinosa\* (29%), Spermacoce brachystema (1, 29%), Stylosanthes humilis\* (1, 29%), Stylosanthes indet. (1, 29%), Stylosanthes scabra\* (1, 29%), Tephrosia leptoclada (29%), Waltheria indica (29%), Zornia muriculata subsp. angustata (29%), Acacia victoriae (14%), Alternanthera micrantha (14%), Brunoniella acaulis (14%), Chamaecrista nomame (14%), Chamaesyce mitchelliana (14%), Cheilanthes nitida (14%), Cryptostegia grandiflora\* (14%), Cucumis anguria var. anguria\* (14%), Dodonaea physocarpa (14%), Galactia muelleri (3, 14%), Galactia tenuiflora (14%), Goodenia armitiana (14%), Gossypium nelsonii (14%), Grevillea striata (1, 14%), Hyptis suaveolens\* (12, 14%), Indigofera colutea (14%), Indigofera linnaei (14%), Indigofera pratensis (14%), Ipomoea coptica (14%), Malvastrum americanum\* (14%), Mitrasacme indet. (14%), Neptunia dimorphantha (14%), Neptunia gracilis (1, 14%), Neptunia monosperma (14%), Oldenlandia mitrasacmoides subsp. mitrasacmoides (14%), Phyllanthus indet. (14%), Phyllanthus virgatus (14%), Rhynchosia minima var. minima (14%), Rostellularia adscendens (14%), Rostellularia adscendens var. clementii (1, 14%), Sauropus indet. (14%), Spermacoce latifolia\* (14%), Tephrosia indet. (14%), Vigna indet. (14%), Wedelia spilanthisoides (14%), Xenostegia tridentata (1, 14%), Zornia dyctiocarpa (2, 14%)*

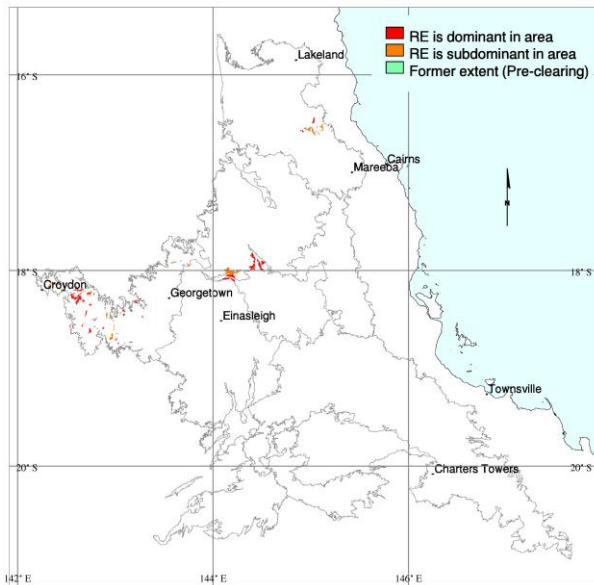
Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency > 20% listed for each stratum.

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

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



**Melaleuca citrolens +/- Terminalia spp. +/- Eremophila mitchellii low woodland on Tertiary plains and low rises**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 24,363 23,803 98%

Species recorded: Total: 164; woody: 24; ground: 146; Avg. spp./site: 46.8; std dev.: 23.3, 6 site(s)

Basal area: Avg./site: 5.1 m<sup>2</sup>/ha, range: 2.0 - 9 m<sup>2</sup>/ha, std. deviation: 2 m<sup>2</sup>/ha, 8 site(s)

Structural formation: Low woodland: 50%; low open-woodland: 50%, 8 site(s)

Representative sites: 26290, 26520, 26811, 26846, 27062, 27063, 27070, 27121.

**Stratum: E**

Height avg. = 9.3m, range 8-12m, 3 sites

Crown cover avg. = 2.5%, range 0.0-4.4%, 3 sites

Stem density/ha avg. = 67, range 20-120, 3 sites

*Dominant species (relative cover, frequency): Eucalyptus cullenii (25, 25%), Corymbia dallachiana (25, 25%)*

*Frequent species (cover, frequency): Corymbia dallachiana (25%), Eucalyptus cullenii (25%), Eucalyptus chlorophylla (13%), Eucalyptus microneura (5, 13%), Melaleuca citrolens (3, 13%), Terminalia platyptera (13%)*

**Stratum: T1**

Height avg. = 6.5m, range 4-9m, 8 sites

Crown cover avg. = 14.9%, range 0.6-33.7%, 8 sites

Stem density/ha avg. = 523, range 40-1200, 8 sites

*Dominant species (relative cover, frequency): Melaleuca citrolens (82, 88%), Terminalia aridicola subsp. chillagoensis (22, 38%), Petalostigma banksii (8, 38%), Terminalia platyptera (4, 75%), Dolichandrone heterophylla (1, 25%)*

*Frequent species (cover, frequency): Melaleuca citrolens (12, 88%), Terminalia platyptera (1, 75%), Eucalyptus cullenii (38%), Petalostigma banksii (1, 38%), Terminalia aridicola subsp. chillagoensis (2, 38%), Dolichandrone heterophylla (25%), Atalaya hemiglauc (13%), Brachychiton diversifolius subsp. orientalis (2, 13%), Corymbia dallachiana (13%), Corymbia indet. (13%), Eremophila mitchellii (13%), Eucalyptus chlorophylla (2, 13%), Eucalyptus indet. (13%), Eucalyptus melanophloia (13%), Gardenia vilhelmii (13%), Grevillea parallela (13%)*

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

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

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

**Stratum: T2**

Height avg. = 4.0m, 1 site

Crown cover avg. = 6.1%, 1 site

Stem density/ha avg. = 200, 1 site

*Frequent species (cover, frequency): Dolichandrone heterophylla (13%), Eucalyptus microneura (1, 13%), Euphorbiaceae indet. (2, 13%), Melaleuca citrolens (1, 13%)*

**Stratum: S1**

Height avg. = 1.7m, range 0.6-4m, 7 sites

Crown cover avg. = 3.8%, range 0.0-13.8%, 7 sites

Stem density/ha avg. = 573, range 60-1500, 6 sites

*Dominant species (relative cover, frequency): Melaleuca citrolens (46, 88%), Carissa lanceolata (27, 25%), Petalostigma banksii (17, 50%), Terminalia aridicola subsp. chillagoensis (16, 50%), Dolichandrone heterophylla (10, 25%)*

*Frequent species (cover, frequency): Melaleuca citrolens (1, 88%), Gardenia villhelmii (75%), Petalostigma banksii (1, 50%), Terminalia aridicola subsp. chillagoensis (50%), Terminalia platyptera (50%), Carissa lanceolata (25%), Dolichandrone heterophylla (25%), Acacia victoriae (13%), Brachychiton diversifolius subsp. orientalis (13%), Carissa ovata (2, 13%), Dodonaea physocarpa (1, 13%), Ehretia membranifolia (13%), Eremophila mitchellii (13%), Eucalyptus cullenii (13%), Eucalyptus indet. (13%), Grevillea parallela (13%), Myoporum indet. (13%)*

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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.

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

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

**Stratum: G**

Height avg. = 0.3m, range 0.2-0.4m, 6 sites

PFC avg. = 64.2%, range 51-85%, 6 sites

*Dominant species (relative cover, frequency):* *Schizachyrium fragile* (16, 50%), *Heteropogon contortus* (15, 50%), *Sarga plumosum* (12, 50%), *Aristida indet.* (9, 25%), *Chrysopogon fallax* (9, 38%)

*Frequent species (cover, frequency):* GRAMINOIDS: *Fimbristylis dichotoma* (4, 63%), *Heteropogon contortus* (9, 50%), *Sarga plumosum* (6, 50%), *Schizachyrium fragile* (10, 50%), *Aristida biglandulosa* (38%), *Aristida latifolia* (1, 38%), *Chrysopogon fallax* (5, 38%), *Eragrostis spartinooides* (1, 38%), *Mnesithea formosa* (1, 38%), *Panicum seminudum* var. *cairnsonianum* (1, 38%), *Alloteropsis cimicina* (2, 25%), *Aristida hygrometrica* (2, 25%), *Aristida indet.* (4, 25%), *Eragrostis tenellula* (25%), *Eriachne indet.* (6, 25%), *Eriachne obtusa* (25%), *Panicum effusum* (25%), *Panicum indet.* (3, 25%), *Paspalidium rarum* (25%), *Setaria surgens* (25%), *Themeda arguens* (1, 25%), *Themeda triandra* (25%), *Aristida calycina* (9, 13%), *Aristida holathera* var. *holathera* (13%), *Aristida superpendens* (13%), *Bothriochloa decipiens* var. *decipiens* (13%), *Brachyachne convergens* (1, 13%), *Capillipedium parviflorum* (71, 13%), *Chloris indet.* (13%), *Chloris lobata* (1, 13%), *Chloris virgata\** (13%), *Cyperus indet.* (13%), *Dichanthium fecundum* (7, 13%), *Digitaria ammophila* (13%), *Digitaria bicornis* (13%), *Ectrosia confusa* (13%), *Enneapogon lindleyanus* (13%), *Eragrostis brownii* (13%), *Eragrostis speciosa* (13%), *Eragrostis tenuifolia\** (1, 13%), *Eriachne ciliata* (13%), *Eriachne rara* (1, 13%), *Eriachne stipacea* (1, 13%), *Perotis rara* (13%), *Rhynchospora indet.* (2, 13%), *Schizachyrium indet.* (6, 13%), *Sporobolus australasicus* (13%), *Sporobolus caroli* (1, 13%), *Themeda quadrivalvis\** (7, 13%), *Urochloa holosericea* subsp. *holosericea* (13%), *Yakirra pauciflora* (13%)

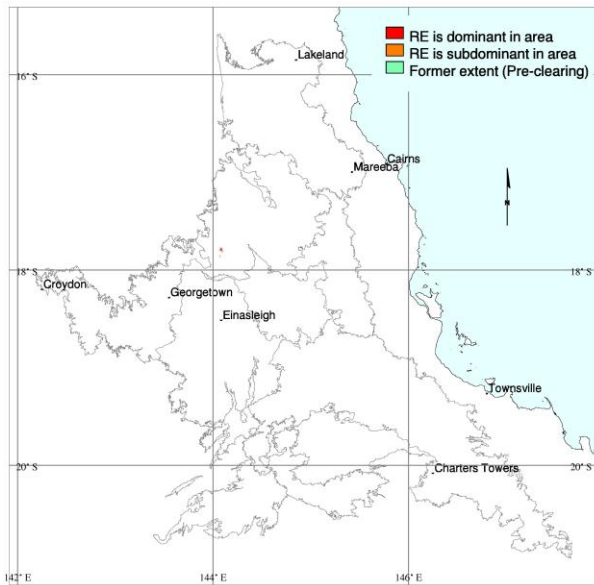
FORBS: *Evolvulus alsinoides* (2, 63%), *Hibiscus meraukensis* (50%), *Hybanthus enneaspermus* (1, 50%), *Chamaecrista absus* var. *absus* (1, 38%), *Crotalaria medicaginea* (1, 38%), *Desmodium pullenii* (38%), *Goodenia pilosa* (1, 38%), *Heliotropium peninsulare* (1, 38%), *Ipomoea polymorpha* (2, 38%), *Melaleuca citrolens* (1, 38%), *Melhania oblongifolia* (38%), *Polygala indet.* (38%), *Rostellularia adscendens* (1, 38%), *Sida spinosa\** (2, 38%), *Spermacoce brachystema* (1, 38%), *Tephrosia leptoclada* (38%), *Vigna indet.* (38%), *Waltheria indica* (38%), *Xenostegia tridentata* (38%), *Zornia muriculata* subsp. *angustata* (38%), *Cayratia trifolia* (25%), *Chamaecrista nomame* (25%), *Chamaesyce vachellii* (25%), *Corchorus aestuans* (1, 25%), *Crotalaria montana* (25%), *Dodonaea physocarpa* (25%), *Galactia tenuiflora* (1, 25%), *Hyptis suaveolens\** (1, 25%), *Indigofera colutea* (25%), *Ipomoea eriocarpa* (25%), *Jacquemontia* sp. (Fairview R.W.Johnson 4026) (25%), *Murdannia graminea* (25%), *Neptunia dimorphantha* (25%), *Oldenlandia mitrasacmoides* subsp. *mitrasacmoides* (25%), *Phyllanthus indet.* (25%), *Polymeria ambigua* (1, 25%), *Portulaca indet.* (25%), *Sida rhombifolia\** (25%), *Stylosanthes humilis\** (25%), *Zornia dyctiocarpa* var. *filifolia* (1, 25%), *Alysicarpus schomburgkii* (13%), *Blumea saxatilis* (13%), *Brunoniella acaulis* (1, 13%), *Buchnera linearis* (13%), *Callicarpa candicans* (13%), *Carissa ovata* (13%), *Cassytha indet.* (13%), *Chamaesyce indet.* (13%), *Chamaesyce mitchelliana* (13%), *Chamaesyce schultzii* (13%), *Cheilanthes nitida* (13%), *Cheilanthes nudiuscula* (1, 13%), *Commelina diffusa* (13%), *Corchorus indet.* (13%), *Cucumis anguria* var. *anguria\** (13%), *Cyanthillium cinereum* (13%), *Desmodium filiforme* (13%), *Dolichandrone heterophylla* (13%), *Fabaceae indet.* (13%), *Goodenia armitiana* (13%), *Goodenia janamba* (13%), *Gossypium nelsonii* (13%), *Grewia retusifolia* (2, 13%), *Helicteres* sp. (Normanby River J.R.Clarkson+ 7697) (13%), *Indigostrum parviflorum* (13%), *Indigofera linifolia* (13%), *Indigofera polygaloides* (1, 13%), *Indigofera pratensis* (13%), *Ipomoea coptica* (13%), *Malvastrum americanum* var. *americanum\** (13%), *Microstachys chamaelea* (13%), *Mitrasacme nudicaulis* (13%), *Mitrasacme pygmaea* (13%), *Oldenlandia mitrasacmoides* (13%), *Petalostigma banksii* (1, 13%), *Phyllanthus carpentariae* (13%), *Phyllanthus collinus* (13%), *Phyllanthus maderaspatensis* (1, 13%), *Phyllanthus minutiflorus* (1, 13%), *Polycarpaea corymbosa* (13%), *Polycarpaea corymbosa* var. *corymbosa* (13%), *Rhynchosia minima* var. *minima* (1, 13%), *Spermacoce latifolia\** (13%), *Stylosanthes scabra\** (13%), *Tephrosia varians* (13%), *Terminalia aridicola* subsp. *chillagoensis* (13%), *Trianthema triquetra* (13%), *Uria lagopodioides* (13%), *Zornia dyctiocarpa* var. *dyctiocarpa* (13%)

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

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

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

**Macropteranthes montana low woodland on plains**



M. Newton

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 426 426 100%

Species recorded: Total: 30; woody: 11; ground: 19; Avg. spp./site: 30.0; std dev.: 0.0, 1 site(s)

Basal area: Avg./site: 10.0 m<sup>2</sup>/ha, range: 10.0 - 10 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: 26395.

**Stratum: T1**

Height avg. = 5.5m, 1 site

Crown cover avg. = 59.7%, 1 site

Stem density/ha avg. = 780, 1 site

*Dominant species (relative cover, frequency): Melaleuca citrolens (60, 100%), Macropteranthes montana (40, 100%)*

*Frequent species (cover, frequency): Denhamia oleaster (100%), Eremophila mitchellii (100%), Macropteranthes montana (22, 100%), Melaleuca citrolens (34, 100%)*

**Stratum: S1**

Height avg. = 2.5m, 1 site

Crown cover avg. = 1.6%, 1 site

Stem density/ha avg. = 300, 1 site

*Dominant species (relative cover, frequency): Wrightia saligna (79, 100%), Macropteranthes montana (12, 100%), Melaleuca citrolens (1, 100%), Gardenia vilhelmii (1, 100%), Eremophila mitchellii (1, 100%)*

*Frequent species (cover, frequency): Acacia indet. (100%), Carissa lanceolata (100%), Cryptostegia grandiflora\* (100%), Diospyros indet. (100%), Dodonaea physocarpa (100%), Eremophila mitchellii (100%), Gardenia vilhelmii (100%), Macropteranthes montana (100%), Melaleuca citrolens (100%), Wrightia saligna (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.

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

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

**Stratum: G**

Height avg. = 0.3m, 1 site

PFC avg. = 40.0%, 1 site

*Dominant species (relative cover, frequency): Schizachyrium fragile (21, 100%), Cyperus indet. (21, 100%), Ocimum tenuiflorum (14, 100%), Sporobolus caroli (14, 100%), Chloris inflata\* (14, 100%)*

*Frequent species (cover, frequency): GRAMINOIDS: Aristida indet. (100%), Aristida pruinosa (100%), Aristida schultzei (100%), Chloris indet. (100%), Chloris inflata\* (4, 100%), Cyperus indet. (6, 100%), Digitaria bicornis (100%), Eragrostis indet. (100%), Eriachne indet. (1, 100%), Heteropogon contortus (100%), Panicum indet. (2, 100%), Schizachyrium fragile (6, 100%), Sporobolus caroli (4, 100%)*

*FORBS: Ocimum tenuiflorum (4, 100%), Polycarpaea spirostylis (1, 100%), Rostellularia adscendens (100%), Ruellia tuberosa\* (100%), Sarcostemma indet. (100%), Stylosanthes scabra\* (100%)*

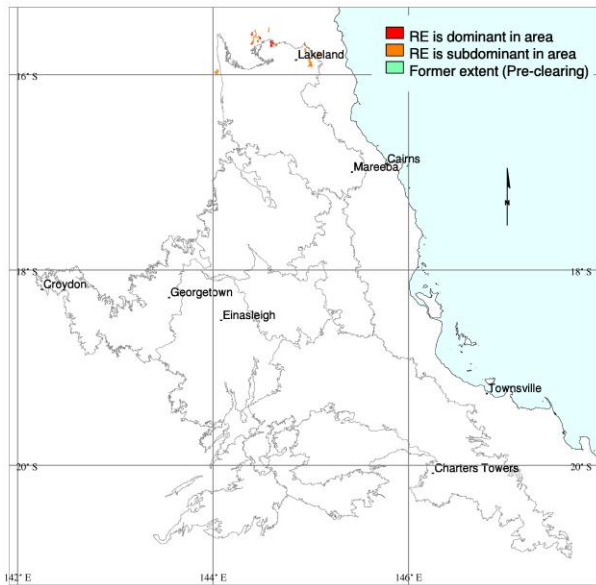
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Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency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

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

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

**Melaleuca citrolens +/- M. foliolosa tall shrubland on footslopes**



M. Newton

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 3,223 3,185 99%

Species recorded: Total: 19; woody: 10; ground: 12; Avg. spp./site: 19.0; std dev.: 0.0, 1 site(s)

Basal area: Avg./site: 5.8 m<sup>2</sup>/ha, range: 5.8 - 6 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: 40727.

**Stratum: T1**

Height avg. = 6.0m, 1 site

Crown cover avg. = 50.5%, 1 site

Stem density/ha avg. = 840, 1 site

*Dominant species (relative cover, frequency): Melaleuca citrolens (97, 100%), Melaleuca foliolosa (2, 100%), Grevillea striata (1, 100%)*

*Frequent species (cover, frequency): Eucalyptus leptophleba (100%), Grevillea striata (100%), Melaleuca citrolens (48, 100%), Melaleuca foliolosa (1, 100%), Terminalia platyptera (100%)*

**Stratum: S1**

Height avg. = 2.0m, 1 site

Crown cover avg. = 1.6%, 1 site

Stem density/ha avg. = 880, 1 site

*Dominant species (relative cover, frequency): Melaleuca citrolens (93, 100%), Grewia retusifolia (2, 100%), Petalostigma banksii (1, 100%), Melaleuca viridiflora (1, 100%), Melaleuca foliolosa (1, 100%)*

*Frequent species (cover, frequency): Carissa lanceolata (100%), Dolichandrone heterophylla (100%), Grewia retusifolia (100%), Melaleuca citrolens (2, 100%), Melaleuca foliolosa (100%), Melaleuca viridiflora (100%), Petalostigma banksii (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.

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

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

**Stratum: G**

Height avg. = 0.3m, 1 site

PFC avg. = 80.0%, 1 site

*Dominant species (relative cover, frequency): Schizachyrium indet. (82, 100%), Rhynchospora indet. (10, 100%), Malvaceae indet. (5, 100%), Heteropogon triticeus (1, 100%), Aristida indet. (1, 100%)*

*Frequent species (cover, frequency): GRAMINOIDS: Aristida indet. (1, 100%), Eragrostis indet. (100%), Eriachne indet. (100%), Heteropogon triticeus (1, 100%), Rhynchospora indet. (8, 100%), Schizachyrium indet. (67, 100%)*

*FORBS: Grewia retusifolia (100%), Hyptis suaveolens\* (100%), Indigofera pratensis (100%), Malvaceae indet. (4, 100%), Melaleuca citrolens (100%), Stylosanthes scabra\* (100%)*

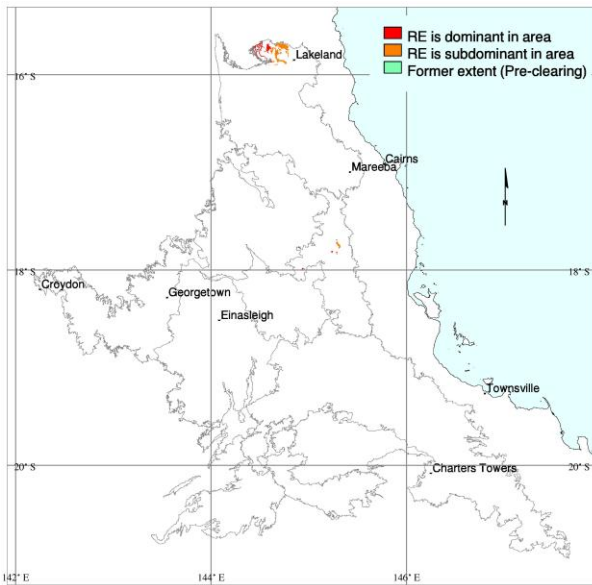
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Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency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

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

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

**Melaleuca viridiflora and/or M. stenostachya low open-woodland on erosional plains**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 7,911 7,477 95%

Species recorded: Total: 73; woody: 28; ground: 52; Avg. spp./site: 28.7; std dev.: 5.8, 3 site(s)

Basal area: Avg./site: 5.7 m<sup>2</sup>/ha, range: 2.0 - 9 m<sup>2</sup>/ha, std. deviation: 3 m<sup>2</sup>/ha, 3 site(s)

Structural formation: Woodland: 33%; low woodland: 33%; low open-woodland: 33%, 3 site(s)

Representative sites: 25807, 27024, 40724.

**Stratum: E**

Height avg. = 16.0m, 1 site

Crown cover avg. = 2.9%, 1 site

Stem density/ha avg. = 40, 1 site

*Dominant species (relative cover, frequency): Melaleuca stenostachya (76, 33%), Eucalyptus leptophleba (20, 33%), Corymbia dallachiana (3, 33%)*

*Frequent species (cover, frequency): Corymbia dallachiana (33%), Eucalyptus leptophleba (1, 33%), Melaleuca stenostachya (2, 33%)*

**Stratum: T1**

Height avg. = 9.0m, range 6-13m, 3 sites

Crown cover avg. = 28.0%, range 7.9-42.3%, 3 sites

Stem density/ha avg. = 750, range 600-900, 2 sites

*Dominant species (relative cover, frequency): Melaleuca stenostachya (98, 67%), Melaleuca viridiflora (82, 33%), Eucalyptus moluccana (17, 33%), Grevillea striata (2, 33%), Corymbia dallachiana (1, 67%)*

*Frequent species (cover, frequency): Corymbia dallachiana (67%), Melaleuca stenostachya (37, 67%), Acacia indet. (33%), Allocasuarina littoralis (33%), Corymbia clarksoniana (33%), Erythrophleum chlorostachys (33%), Eucalyptus chlorophylla (33%), Eucalyptus exserta (33%), Eucalyptus leptophleba (33%), Eucalyptus moluccana (1, 33%), Grevillea parallela (33%), Grevillea striata (1, 33%), Melaleuca viridiflora (6, 33%), Petalostigma pubescens (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.

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

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



**Stratum: T2**

Height avg. = 7.5m, 1 site

Crown cover avg. = 6.1%, 1 site

Stem density/ha avg. = 480, 1 site

*Dominant species (relative cover, frequency): Melaleuca stenostachya (49, 33%), Grevillea coriacea (49, 33%), Melaleuca foliolosa (1, 33%), Grevillea striata (1, 33%), Erythroxylum ellipticum (1, 33%)*

*Frequent species (cover, frequency): Erythroxylum ellipticum (33%), Grevillea coriacea (2, 33%), Grevillea striata (33%), Melaleuca foliolosa (33%), Melaleuca stenostachya (2, 33%)*

**Stratum: S1**

Height avg. = 1.7m, range 1-2m, 3 sites

Crown cover avg. = 2.2%, range 0.0-6.1%, 3 sites

Stem density/ha avg. = 730, range 260-1200, 2 sites

*Dominant species (relative cover, frequency): Grevillea striata (62, 33%), Petalostigma banksii (59, 33%), Melaleuca viridiflora (55, 67%), Melaleuca stenostachya (21, 33%), Grewia retusifolia (13, 33%)*

*Frequent species (cover, frequency): Carissa lanceolata (67%), Melaleuca viridiflora (67%), Acacia indet. (33%), Atalaya angustifolia (33%), Capparis indet. (33%), Croton arnhemicus (33%), Distichostemon malvaceus (33%), Dolichandrone heterophylla (33%), Grevillea coriacea (33%), Grevillea striata (33%), Grewia retusifolia (33%), Maytenus cunninghamii (33%), Melaleuca stenostachya (33%), Petalostigma banksii (1, 33%), Phyllanthus indet. (33%), Planchonia careya (33%)*

**Stratum: G**

Height avg. = 0.5m, range 0.3-0.8m, 3 sites

PFC avg. = 57.0%, range 20-86%, 3 sites

*Dominant species (relative cover, frequency): Arundinella setosa (37, 33%), Schizachyrium indet. (22, 67%), Scleria indet. (21, 33%), Ectrosia leporina (19, 67%), Eragrostis indet. (15, 33%)*

*Frequent species (cover, frequency): GRAMINOIDS: Aristida indet. (1, 100%), Ectrosia leporina (13, 67%), Fimbristylis indet. (12, 67%), Panicum indet. (3, 67%), Rhynchospora indet. (4, 67%), Schizachyrium indet. (13, 67%), Alloteropsis semialata (1, 33%), Arundinella setosa (6, 33%), Bothriochloa indet. (6, 33%), Cyperus indet. (33%), Eragrostis indet. (10, 33%), Eriachne indet. (33%), Eriachne squarrosa (33%), Fimbristylis acicularis (2, 33%), Fimbristylis recta (33%), Heteropogon contortus (6, 33%), Heteropogon triticeus (1, 33%), Rhynchospora heterochaeta (33%), Sarga plumosum (1, 33%), Schizachyrium fragile (9, 33%), Schoenus indet. (33%), Scleria indet. (14, 33%), Themeda arguens (5, 33%)*

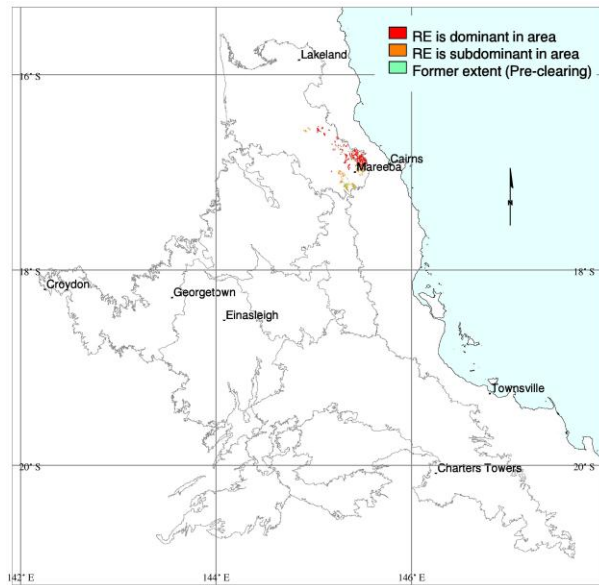
*FORBS: Melaleuca viridiflora (3, 67%), Stylosanthes scabra\* (1, 67%), Ageratum indet. (33%), Asteraceae indet. (2, 33%), Carissa lanceolata (33%), Cartonema spicatum var. humile (33%), Cassytha filiformis (9, 33%), Centipeda borealis (33%), Chamaecrista rotundifolia cv. Wynn (33%), Chamaesyce mitchelliana var. mitchelliana (33%), Cheilanthes indet. (1, 33%), Chrysocephalum apiculatum (33%), Grevillea striata (33%), Grewia retusifolia (33%), Helicteres indet. (33%), Hypericum gramineum (33%), Hyptis suaveolens\* (33%), Laxmannia gracilis (33%), Malvaceae indet. (33%), Malvastrum americanum\* (33%), Malvastrum indet. (33%), Oldenlandia indet. (33%), Poranthera sp. (Mt Ballow G.Leiper AQ502886) (33%), Sida indet. (33%), Spermaceae indet. (33%), Stylosanthes indet. (33%), Tephrosia filipes (33%), Tricoryne anceps subsp. pterocaulon (33%), Wahlenbergia caryophylloides (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.

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

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

**Melaleuca monantha, M. viridiflora and Callitris intratropica mixed low woodland on valley infill**



M. Newton

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 15,032 11,473 76%

Species recorded: Total: 90; woody: 31; ground: 69; Avg. spp./site: 25.7; std dev.: 3.1, 6 site(s)

Basal area: Avg./site: 10.7 m<sup>2</sup>/ha, range: 7.0 - 14 m<sup>2</sup>/ha, std. deviation: 2 m<sup>2</sup>/ha, 6 site(s)

Structural formation: Low woodland: 67%; low open-woodland: 17%; low open-forest: 17%, 6 site(s)

Representative sites: 26149, 26626, 26913, 27057, 27061, 37125.

**Stratum: E**

Height avg. = 12.6m, range 6-16m, 5 sites

Crown cover avg. = 3.7%, range 0.0-9.8%, 5 sites

Stem density/ha avg. = 65, range 40-100, 4 sites

*Dominant species (relative cover, frequency): Eucalyptus cullenii (78, 50%), Corymbia clarksoniana (41, 33%), Eucalyptus leptophleba (17, 33%)*

*Frequent species (cover, frequency): Eucalyptus cullenii (6, 50%), Corymbia clarksoniana (33%), Eucalyptus leptophleba (33%), Callitris intratropica (17%), Corymbia dallachiana (17%), Corymbia intermedia (17%), Eucalyptus crebra (17%), Eucalyptus platyphylla (17%), Grevillea parallela (17%), Grevillea striata (17%)*

**Stratum: T1**

Height avg. = 7.0m, range 4-10m, 6 sites

Crown cover avg. = 44.5%, range 4.4-63.1%, 6 sites

Stem density/ha avg. = 747, range 520-900, 6 sites

*Dominant species (relative cover, frequency): Callitris intratropica (54, 67%), Melaleuca monantha (40, 83%), Melaleuca viridiflora (25, 83%), Melaleuca citrolens (18, 33%), Allocasuarina luehmannii (7, 50%)*

*Frequent species (cover, frequency): Melaleuca monantha (14, 83%), Melaleuca viridiflora (7, 83%), Callitris intratropica (23, 67%), Allocasuarina luehmannii (2, 50%), Grevillea parallela (50%), Corymbia dallachiana (33%), Eucalyptus cullenii (33%), Eucalyptus leptophleba (33%), Melaleuca citrolens (7, 33%), Acacia indet. (17%), Dendrobium indet. (17%), Grevillea glauca (17%), Grevillea striata (17%), Petalostigma banksii (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.

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

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

**Stratum: T2**

Height avg. = 3.0m, range 2-4m, 2 sites

Crown cover avg. = 2.3%, range 1.6-2.9%, 2 sites

Stem density/ha avg. = 610, range 400-820, 2 sites

*Dominant species (relative cover, frequency): Melaleuca viridiflora (49, 33%)*

*Frequent species (cover, frequency): Melaleuca viridiflora (1, 33%), Acacia leptostachya (17%), Grevillea parallela (17%), Melaleuca monantha (17%), Petalostigma banksii (2, 17%)*

**Stratum: S1**

Height avg. = 1.4m, range 0.5-2m, 6 sites

Crown cover avg. = 5.3%, range 0.6-18.1%, 6 sites

Stem density/ha avg. = 953, range 300-1280, 6 sites

*Dominant species (relative cover, frequency): Callitris intratropica (55, 67%), Melaleuca monantha (48, 33%), Melaleuca viridiflora (28, 67%), Jacksonia thesioides (16, 50%), Grevillea parallela (4, 33%)*

*Frequent species (cover, frequency): Callitris intratropica (3, 67%), Melaleuca viridiflora (2, 67%), Jacksonia thesioides (50%), Petalostigma banksii (50%), Exocarpos latifolius (33%), Grevillea parallela (33%), Melaleuca citrolens (33%), Melaleuca monantha (1, 33%), Acacia disparrima subsp. disparrima (17%), Acacia indet. (1, 17%), Acacia leptostachya (17%), Acacia simsii (17%), Cajanus acutifolius (17%), Capparis indet. (17%), Corymbia intermedia (17%), Euroschinus falcatus (17%), Gardenia vilhelmii (17%), Grevillea glauca (17%), Grevillea mimosoides (17%), Grevillea striata (17%), Lamprolobium fruticosum (17%), Lantana camara cv. Gol Gol (17%), Melaleuca bracteata (17%)*

**Stratum: G**

Height avg. = 0.4m, range 0.2-0.5m, 6 sites

PFC avg. = 28.0%, range 13-48%, 6 sites

*Dominant species (relative cover, frequency): Themeda triandra (57, 83%), Liliaceae indet. (10, 33%), Angiosperm indet. (9, 33%), Murdannia vaginata\* (7, 33%), Ruellia tuberosa\* (6, 33%)*

*Frequent species (cover, frequency): GRAMINOIDS: Themeda triandra (17, 83%), Cyperus indet. (50%), Eragrostis indet. (2, 50%), Poaceae indet. (1, 50%), Paspalidium distans (2, 33%), Aristida calycina (1, 17%), Aristida indet. (17%), Aristida queenslandica var. queenslandica (2, 17%), Aristida warburgii (4, 17%), Arundinella indet. (17%), Arundinella nepalensis (17%), Chrysopogon fallax (17%), Cyperaceae indet. (6, 17%), Digitaria breviglumis (3, 17%), Echinochloa indet. (17%), Eragrostis brownii (1, 17%), Eragrostis speciosa (1, 17%), Eriachne pallescens (17%), Eriachne rara (17%), Fimbristylis indet. (17%), Fimbristylis recta (17%), Gahnia aspera (17%), Gahnia indet. (17%), Panicum indet. (2, 17%), Sarga plumosum (17%), Schizachyrium indet. (9, 17%)*

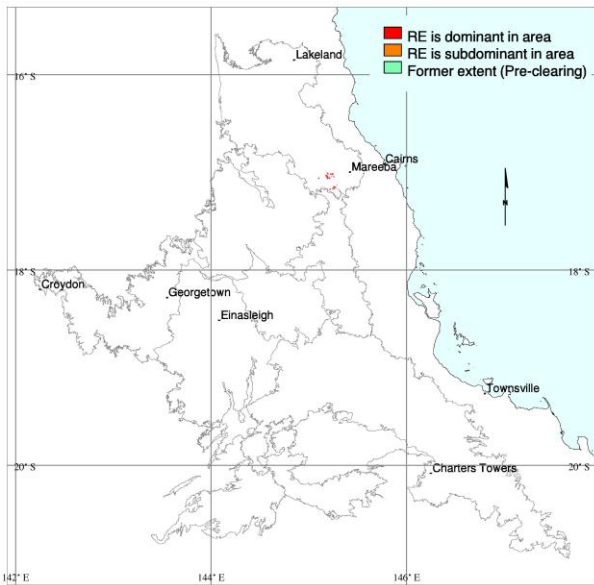
*FORBS: Cheilanthes indet. (100%), Stylosanthes scabra\* (1, 67%), Melaleuca viridiflora (1, 50%), Phyllanthus indet. (50%), Angiosperm indet. (1, 33%), Brunoniella indet. (33%), Desmodium indet. (33%), Ipomoea indet. (33%), Jacksonia thesioides (1, 33%), Liliaceae indet. (1, 33%), Lomandra indet. (33%), Murdannia vaginata\* (3, 33%), Ruellia tuberosa\* (2, 33%), Tephrosia indet. (33%), Tricoryne indet. (33%), Acacia indet. (17%), Acmea grandiflora var. brachyglossa (17%), Ageratum indet. (17%), Brunonia indet. (1, 17%), Buchnera gracilis (1, 17%), Bulbine bulbosa (1, 17%), Callitris intratropica (2, 17%), Cartonema indet. (1, 17%), Convolvulaceae indet. (17%), Corymbia dallachiana (17%), Cyanthillium cinereum (17%), Dendrobium canaliculatum (17%), Distichostemon indet. (17%), Drosera indica (17%), Euphorbia indet. (17%), Exocarpos latifolius (17%), Glycine indet. (17%), Goodeniaceae indet. (17%), Grewia indet. (17%), Melaleuca monantha (2, 17%), Oldenlandia mitrasacmoides subsp. nigricans (1, 17%), Orchidaceae indet. (17%), Petalostigma banksii (3, 17%), Poranthera sp. (Mt Ballow G.Leiper AQ502886) (17%), Pterocaulon indet. (17%), Sauropus indet. (17%), Stylosanthes indet. (17%), Wedelia 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.

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

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

**Melaleuca monantha +/- Callitris intratropica low open-forest on valley infill**



M. Newton

Pre-clearing area (ha), remnant area (ha) and per cent remaining: 2,325 2,068 89%

Species recorded: Total: 43; woody: 19; ground: 26; Avg. spp./site: 19.3; std dev.: 6.2, 3 site(s)

Basal area: Avg./site: 15.0 m<sup>2</sup>/ha, range: 15.0 - 15 m<sup>2</sup>/ha, std. deviation: 0 m<sup>2</sup>/ha, 1 site(s)

Structural formation: Low open-forest: 100%, 3 site(s)

Representative sites: 25935, 25946, 26151.

**Stratum: E**

Height avg. = 10.7m, range 8-12m, 3 sites

Crown cover avg. = 0.4%, range 0.0-0.6%, 3 sites

Stem density/ha avg. = 40, range 20-60, 2 sites

*Dominant species (relative cover, frequency): Corymbia dallachiana (100, 33%), Corymbia clarksoniana (97, 33%), Eucalyptus cullenii (3, 33%)*

*Frequent species (cover, frequency): Corymbia clarksoniana (1, 33%), Corymbia dallachiana (33%), Eucalyptus cullenii (33%)*

**Stratum: T1**

Height avg. = 7.0m, range 5-9m, 3 sites

Crown cover avg. = 67.2%, range 64.7-70.6%, 3 sites

Stem density/ha avg. = 647, range 360-960, 3 sites

*Dominant species (relative cover, frequency): Melaleuca monantha (97, 100%), Melaleuca stenostachya (4, 33%), Dendrobium canaliculatum (2, 100%)*

*Frequent species (cover, frequency): Callitris intratropica (100%), Dendrobium canaliculatum (1, 100%), Melaleuca monantha (63, 100%), Corymbia dallachiana (33%), Grevillea coriacea (33%), Melaleuca stenostachya (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.

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

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

**Stratum: S1**

Height avg. = 1.8m, range 1.5-2m, 3 sites

Crown cover avg. = 5.5%, range 0.0-15.9%, 3 sites

Stem density/ha avg. = 307, range 60-580, 3 sites

*Dominant species (relative cover, frequency): Melaleuca monantha (66, 33%), Petalostigma banksii (45, 100%), Acacia guymeri (32, 33%), Capparis indet. (26, 67%), Wrightia saligna (3, 33%)*

*Frequent species (cover, frequency): Petalostigma banksii (100%), Callitris intratropica (67%), Capparis indet. (67%), Acacia guymeri (3, 33%), Carissa indet. (33%), Corymbia dallachiana (33%), Erythroxylum ellipticum (33%), Exocarpos latifolius (33%), Jacksonia thesioides (33%), Melaleuca monantha (6, 33%), Melaleuca viridiflora (33%), Petalostigma pubescens (33%), Santalum lanceolatum (33%), Wrightia saligna (33%)*

**Stratum: G**

Height avg. = 0.2m, range 0.1-0.3m, 3 sites

PFC avg. = 19.7%, range 1-56%, 3 sites

*Dominant species (relative cover, frequency): Aristida indet. (71, 67%), Schizachyrium fragile (25, 33%), Paspalidium distans (19, 33%), Fimbristylis indet. (18, 33%), Poaceae indet. (11, 33%)*

*Frequent species (cover, frequency): GRAMINOIDS: Aristida indet. (1, 67%), Heteropogon contortus (67%), Themeda triandra (1, 67%), Aristida calycina (2, 33%), Cyperaceae indet. (4, 33%), Eragrostis pubescens (33%), Fimbristylis indet. (10, 33%), Paspalidium distans (11, 33%), Poaceae indet. (6, 33%), Schizachyrium fragile (14, 33%), Scleria indet. (33%)*

*FORBS: Cheilanthes indet. (67%), Polycarpha corymbosa (67%), Stylosanthes indet. (67%), Acacia aulacocarpa (33%), Asteraceae indet. (33%), Buchnera gracilis (33%), Capparis indet. (2, 33%), Celastraceae indet. (33%), Chamaesyce vachellii (33%), Cyanthillium cinereum (1, 33%), Dianella indet. (33%), Lamprolobium fruticosum (33%), Murdannia vaginata\* (33%), Oldenlandia galioides (1, 33%), Ruellia tuberosa\* (3, 33%)*

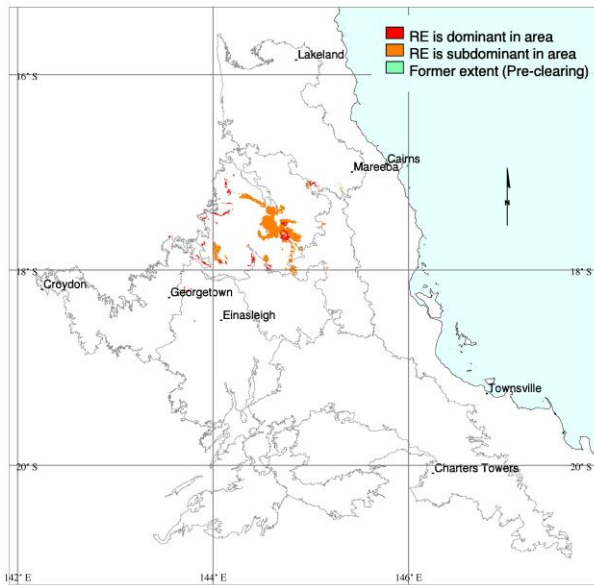
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Dominant species: Relative cover (mean of cover of species / total cover of all species in that stratum for all values > zero) and frequency (percent of total sites) ordered by decreasing relative abundance. Up to five most dominant species with frequency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

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

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

**Eucalyptus tetradonta +/- Erythrophleum chlorostachys woodland on Tertiary remnants**



Pre-clearing area (ha), remnant area (ha) and per cent remaining: 44,600 43,216 97%

Species recorded: Total: 81; woody: 31; ground: 54; Avg. spp./site: 26.3; std dev.: 3.1, 4 site(s)

Basal area: Avg./site: 6.7 m<sup>2</sup>/ha, range: 3.0 - 9 m<sup>2</sup>/ha, std. deviation: 3 m<sup>2</sup>/ha, 3 site(s)

Structural formation: Woodland: 50%; open-woodland: 25%; open-forest: 25%, 4 site(s)

Representative sites: 25938, 26399, 26814, 26816.

**Stratum: T1**

Height avg. = 11.8m, range 9-17m, 4 sites

Crown cover avg. = 44.4%, range 7.9-61.4%, 4 sites

Stem density/ha avg. = 190, range 80-280, 4 sites

*Dominant species (relative cover, frequency): Eucalyptus melanophloia (81, 25%), Eucalyptus chartaboma (79, 25%), Petalostigma pubescens (60, 25%), Eucalyptus tetradonta (51, 75%), Corymbia erythrophloia (20, 25%)*

*Frequent species (cover, frequency): Erythrophleum chlorostachys (1, 100%), Eucalyptus tetradonta (20, 75%), Corymbia clarksoniana (25%), Corymbia confertiflora (25%), Corymbia dallachiana (25%), Corymbia erythrophloia (12, 25%), Corymbia polycarpa (25%), Eucalyptus chartaboma (46, 25%), Eucalyptus cullenii (1, 25%), Eucalyptus melanophloia (5, 25%), Eucalyptus provecta (25%), Petalostigma pubescens (31, 25%)*

**Stratum: T2**

Height avg. = 5.0m, 1 site

Crown cover avg. = 6.1%, 1 site

Stem density/ha avg. = 200, 1 site

*Dominant species (relative cover, frequency): Grevillea glauca (52, 25%), Eucalyptus cullenii (19, 25%), Erythrophleum chlorostachys (19, 25%), Grevillea parallela (7, 25%), Persoonia falcata (1, 25%)*

*Frequent species (cover, frequency): Brachychiton indet. (25%), Callitris intratropica (25%), Erythrophleum chlorostachys (1, 25%), Eucalyptus cullenii (1, 25%), Grevillea glauca (2, 25%), Grevillea parallela (25%), Melaleuca nervosa (25%), Persoonia falcata (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.

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

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

**Stratum: S1**

Height avg. = 2.8m, range 2-4m, 4 sites

Crown cover avg. = 5.8%, range 1.6-13.8%, 4 sites

Stem density/ha avg. = 480, range 200-760, 4 sites

*Dominant species (relative cover, frequency): Erythrophleum chlorostachys (57, 75%), Petalostigma pubescens (43, 75%), Grevillea parallela (17, 25%), Eucalyptus tetradonta (17, 50%), Wrightia saligna (10, 25%)*

*Frequent species (cover, frequency): Erythrophleum chlorostachys (1, 75%), Petalostigma pubescens (1, 75%), Alphitonia pomaderroides (50%), Eucalyptus tetradonta (50%), Gardenia wilhelmii (50%), Angiosperm indet. (25%), Bursaria incana (25%), Cochlospermum indet. (25%), Corymbia dallachiana (25%), Denhamia oleaster (25%), Distichostemon dodecandrus (25%), Dodonaea physocarpa (25%), Dolichandrone heterophylla (25%), Eucalyptus melanophloia (25%), Grevillea parallela (1, 25%), Terminalia aridicola (25%), Terminalia platyphylla (25%), Wrightia saligna (25%), Xanthorrhoea johnsonii (25%)*

**Stratum: G**

Height avg. = 0.6m, range 0.5-0.75m, 4 sites

PFC avg. = 45.5%, range 24-80%, 4 sites

*Dominant species (relative cover, frequency): Themeda triandra (73, 25%), Ectrosia indet. (68, 25%), Schizachyrium fragile (58, 25%), Schizachyrium indet. (28, 25%), Aristida indet. (20, 75%)*

*Frequent species (cover, frequency): GRAMINOIDS: Aristida indet. (6, 75%), Heteropogon contortus (9, 50%), Heteropogon triticeus (2, 50%), Panicum indet. (2, 50%), Sarga plumosum (3, 50%), Arundinella setosa (25%), Capillipedium indet. (25%), Chrysopogon fallax (25%), Cleistochloa subjuncea (25%), Ectrosia indet. (40, 25%), Poaceae indet. (25%), Schizachyrium fragile (40, 25%), Schizachyrium indet. (6, 25%), Setaria indet. (25%), Setaria surgens (1, 25%), Themeda triandra (15, 25%) FORBS: Grewia retusifolia (75%), Crotalaria medicaginea (50%), Glycine indet. (50%), Malvastrum americanum\* (1, 50%), Melhania oblongifolia (50%), Mitrasacme indet. (50%), Oldenlandia indet. (50%), Rostellularia adscendens (50%), Abutilon indet. (25%), Alphitonia pomaderroides (2, 25%), Anisomeles malabarica (25%), Breynia oblongifolia (25%), Corchorus sericeus (25%), Crotalaria montana (25%), Croton arhemicus (25%), Cyanthillium cinereum (25%), Desmodium indet. (1, 25%), Distichostemon dodecandrus (25%), Dodonaea physocarpa (25%), Eucalyptus tetradonta (4, 25%), Evolvulus alsinoides (25%), Flemingia parviflora (25%), Galactia indet. (25%), Heliotropium indet. (1, 25%), Hibbertia longifolia (25%), Hybanthus indet. (25%), Hyptis suaveolens\* (25%), Ipomoea indet. (3, 25%), Lomandra indet. (1, 25%), Malvastrum americanum var. americanum\* (25%), Polycarpaea indet. (25%), Pterocaulon redolens (25%), Pterocaulon sphacelatum (25%), Rhynchosia minima (25%), Sida indet. (25%), Tricoryne anceps subsp. anceps (25%), Triumphetta indet. (1, 25%), Wahlenbergia indet. (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.

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

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