

Regional ecosystem 1.3.1

Description: [RE not in use]²: This regional ecosystem occurs in the Mitchell Grass Downs bioregion and is now typically mapped as 4.3.17. *Astrebla pectinata* (Mitchell grass) tussock grasslands, occasionally with *Acacia cambagei* or *Eucalyptus microtheca* emergents. *Astrebla elymoides* in depressions. Occurs on plains on Quaternary alluvium; calcareous grey or brown clays. Not a Wetland. (BVG1M: 22b).

Vegetation communities in this regional ecosystem include:

1.3.1x1: [RE not in use]²: This regional ecosystem is now mapped as 1.3.10. Mixed tussock grassland including *Astrebla* spp., *Aristida latifolia*, *Eulalia aurea*, *Iseilema* spp., *Dichanthium* spp. And *Sarga* spp. Occurs on alluvium within landscapes of Cambrian limestone and metamorphosed basic rocks. Contains Palustrine. (BVG1M: 30a).

Short description: *Astrebla* spp. grassland on alluvial plains

Supplementary descriptions: Christian et al. (1954), Barkly, Wonardo, Kallala, Georgina, Moonah; Neldner (1991), 43

Subregions:

Protected areas:

Extent in reserves:

Wetland: Not a Wetland

Special values:

Comments: 1.3.1: This RE occurs in the Mitchell Grass Downs bioregion and is now typically mapped as 4.3.17.

Estimated extent:¹

VM class: Least concern

Biodiversity status: No concern at present

Biodiversity status notes:

Regional ecosystem 1.3.2

Description: [RE not in use]²: This regional ecosystem occurs in the Mitchell Grass Downs bioregion and is now typically mapped as 4.3.4x1 and 4.3.4x2. Low open woodlands and low woodlands of *Eucalyptus microtheca* (Coolabah) over annual and perennial grasses. Associated species include *Lysiphyllum cunninghamii*, *Acacia stenophylla*, *A. cambagei* and *Eucalyptus camaldulensis*. Occurs on alluvial floodplains and channels. Not a Wetland. (BVG1M: 16a).

Short description: *Eucalyptus microtheca* low open woodland to woodland on alluvial floodplains and channels

Supplementary descriptions: Christian et al. (1954), Georgina, Kallala, Wonardo, Moonah; Neldner (1991), 17

Subregions:

Protected areas:

Extent in reserves:

Wetland: Not a Wetland

Special values:

Comments: 1.3.2: High total grazing pressure leading to degradation along watercourses. **Vachellia farnesiana* is often present.

Estimated extent:¹

VM class: Least concern

Biodiversity status: Of concern

Biodiversity status notes:

Regional ecosystem 1.3.3

Description:	[RE not in use] ² : This regional ecosystem occurs in the Mitchell Grass Downs bioregion and is now typically mapped as 4.3.8 and 4.3.9. <i>Acacia georginae</i> (Georgina gidgee) low woodlands and low open woodlands with <i>Astrebla</i> spp. Grassland understorey. Occurs on alluvial clay plains adjacent to Tertiary and Quaternary sandplains; red and brown clays and earths. Not a Wetland. (BVG1M: 26a).
Short description:	<i>Acacia georginae</i> low woodland to low open woodland on clay plains
Supplementary descriptions:	Christian et al. (1954), Kallala, Moonah; Neldner (1991), 10, 28
Subregions:	
Protected areas:	
Extent in reserves:	
Wetland:	Not a Wetland
Special values:	
Comments:	1.3.3: This vegetation community occurs in the Mitchell Grass Downs bioregion. Subject to limited tree clearing, which may increase soil surface salinity.
Estimated extent: ¹	
VM class:	Of concern
Biodiversity status:	Of concern
Biodiversity status notes:	

Regional ecosystem 1.3.4

Description:	<i>Acacia cambagei</i> low open woodland and low woodland over annual grasses. <i>Eucalyptus leucophylla</i> may be co-dominant to the east of Cloncurry. <i>Acacia georginae</i> may replace <i>Acacia cambagei</i> in the far south west of the bioregion. Occurs on alluvial plains, levees and valley bottoms; red or brown earths and clays. Not a Wetland. (BVG1M: 26a).
	Vegetation communities in this regional ecosystem include: 1.3.4a: <i>Acacia cambagei</i> low open woodland and low woodland over annual grasses. <i>Acacia georginae</i> may replace <i>Acacia cambagei</i> in the far south west of the bioregion. Occurs on alluvial plains and valley bottoms; red or brown earths and clays. Not a Wetland. (BVG1M: 26a). 1.3.4b: <i>Acacia cambagei</i> and <i>Eucalyptus leucophylla</i> low woodland. A sparse ground layer occurs which includes tussock grasses and <i>Triodia longiceps</i> . Occurs on levees of creeks flowing onto clay plains. Not a Wetland. (BVG1M: 26a). 1.3.4x1: [RE not in use] ² : This vegetation community is now mapped as 1.3.13a. <i>Aristida</i> spp. sparse tussock grassland, bare for much of the year, sometimes with <i>Triodia longiceps</i> with scattered emergent trees of <i>Grevillea striata</i> and/or <i>Acacia cambagei</i> and/or <i>Atalaya hemiglaucula</i> and/or <i>Acacia excelsa</i> subsp. <i>angusta</i> and/or <i>Corymbia</i> spp. and/or <i>Eucalyptus</i> spp. and/or <i>Hakea</i> spp. Occurs on flat bare areas adjacent watercourses. Not a Wetland. (BVG1M: 31a).
Short description:	<i>Acacia cambagei</i> low open woodland to woodland on alluvium, sometimes with <i>Eucalyptus leucophylla</i>
Supplementary descriptions:	Christian et al. (1954), Mount Isa, Waverley; Perry et al. (1964), Quamby
Subregions:	3, 1, 2.8, (5.6), (2), (5.1), (4.2), (2.2), (4.3), (4.7), (2.3), (5.9)
Protected areas:	
Extent in reserves:	No representation
Wetland:	Not a Wetland
Special values:	
Comments:	1.3.4: Occurs from the far south of the bioregion to about 50km north of Camooweal.
Estimated extent: ¹	Pre-clearing 55000 ha; Remnant 2021 54000 ha
VM class:	Least concern
Biodiversity status:	No concern at present
Biodiversity status notes:	Threatening processes other than clearing.

Regional ecosystem 1.3.5

Description: Variable open woodland to open forest that may include *Corymbia polycarpa*, *Eucalyptus leucophylla*, *C. bella* and *C. grandifolia* over annual and perennial grasses. Associates include *Lysiphyllum cunninghamii*, *Hakea arborescens*, *Eucalyptus pruinosa* and *Melaleuca viridiflora*. Occurs on sandy levees associated with major watercourses in the north of the bioregion. Riverine. (BVG1M: 19b).

Vegetation communities in this regional ecosystem include:

1.3.5x2: [RE not in use]²: This regional ecosystem is now mapped as 1.3.11. *Eucalyptus chlorophylla* low open woodland and low woodland often with *Eucalyptus pruinosa* and/or *Lysiphyllum cunninghamii* with a mixed shrub layer and a ground layer of tussock grasses, often with *Triodia pungens*. Occurs on alluvial terraces associated with major and minor watercourses. Not a Wetland. (BVG1M: 16c).

1.3.5x3: [RE not in use]²: This regional ecosystem is now mapped as 1.3.12. *Terminalia bursarina* open woodland, often with *Corymbia grandifolia* subsp. *grandifolia* and/or *Eucalyptus pruinosa* subsp. *pruinosa* over a dense ground layer of tussock grasses and/or *Triodia pungens*. Occurs on alluvial terraces associated with watercourses draining landscapes of Proterozoic siltstones. Not a Wetland. (BVG1M: 16c).

1.3.5x5: [RE not in use]²: This vegetation community is now mapped as 1.5.10a. *Acacia hammondii* and *Melaleuca* spp. shrubland with *Petalostigma banksii*, sometimes with emergent trees of *Corymbia* spp. and *Melaleuca* spp. and ground layer of *Triodia bitextura* and diverse forbs. Occurs on sandy alluvium in sandstone landscapes. Not a Wetland. (BVG1M: 16c).

Short description:	<i>Corymbia polycarpa</i> , <i>C. bella</i> , <i>C. grandifolia</i> and <i>Eucalyptus chlorophylla</i> in mixed woodlands on sandy levees in the north
Supplementary descriptions:	Christian et al. (1954), Mount Isa, Robinson
Subregions:	3, 4, 2, 2.7, (2.8), (2.2)
Protected areas:	Boodjamulla (Lawn Hill) NP, Boodjamulla NP (Aboriginal Land), Lawn Hill (Stockyard Creek) RR, Lawn Hill (Littles Range) RR, Lawn Hill (Gregory) RR, Lawn Hill (Widdallion) RR, Lawn Hill (Gregory River Base) RR, Lawn Hill (Lilydale) RR, Lawn Hill (Arthur Creek) RR
Extent in reserves:	High
Wetland:	Riverine
Special values:	
Comments:	1.3.5: These communities are often quite mixed and any combination of the species listed in sub-units can be present at a site. Occurs in the northern part of the bioregion. Areas of scalding due to high total grazing pressure.
Estimated extent: ¹	Pre-clearing 39000 ha; Remnant 2021 39000 ha
VM class:	Least concern
Biodiversity status:	No concern at present
Biodiversity status notes:	

Regional ecosystem 1.3.6

Description: Woodland and low woodland of *Corymbia aparrerinja* and *C. terminalis*. Occurs on terraces and floodplains on Quaternary alluvium; alluvial soils, some earths and deep yellow podzolics. Riverine. (BVG1M: 19b).

Vegetation communities in this regional ecosystem include:

1.3.6a: *Corymbia aparrerinja* woodland often with *C. terminalis*, *Eucalyptus leucophylla*, *E. camaldulensis*, *Lysiphyllum cunninghamii* and/or *Acacia cambagei* with a sparse ground layer of tussock grasses with *Triodia longiceps* in some places. Occurs on river terraces. Riverine. (BVG1M: 19b).

1.3.6b: Mixed woodland including *Corymbia terminalis*, *Corymbia aparrerinja*, *Eucalyptus pruinosa*, *Corymbia polycarpa*, *Corymbia confertiflora*, *Eucalyptus leucophylla*, *Eucalyptus camaldulensis* and *Lysiphyllum cunninghamii*, often with a mixed second tree layer of the same species. The variable shrub layer can be quite dense and is generally dominated by *Flueggea virosa* and *Acacia* spp. There is a dense tussock grass ground layer. Occurs on minor drainage lines, levees and floodplains on Quaternary alluvium. Riverine. (BVG1M: 19b).

1.3.6c: *Corymbia aparrerinja* woodland with a sparse shrub layer of *Carissa lanceolata* and mid-dense ground layer of tussock grasses dominated by *Chrysopogon fallax* and *Bothriochloa ewartiana*. Occurs on smaller drainage lines in landscapes of low relief. Riverine. (BVG1M: 19b).

1.3.6d: [RE not in use]²: This vegetation community occurs in the Mitchell Grass Downs bioregion and is mapped as 4.5.5c. *Corymbia aparrerinja* and *Atalaya hemiglauc*a open woodland with *Grevillea striata* and a mixed shrub layer of *Acacia* spp., *Senna* spp., *Eremophila* spp. and *Carissa lanceolata* and ground layer of tussock grasses

and/or *Triodia longiceps*. Occurs on smaller drainage lines in landscapes of low relief. Not a Wetland. (BVG1M: 19b).

1.3.6e: *Corymbia aparrerinja* and *Corymbia polycarpa* woodland. Occurs on levees and floodplains of Minger Creek and associated alluvial systems. Riverine. (BVG1M: 19b).

1.3.6x1: [RE not in use]²: This regional ecosystem is now mapped as 1.3.13. Woodland of *Eucalyptus leucophylla* and/or *Eucalyptus pruinosa* subsp. *pruinosa*, often with *Corymbia terminalis*, *Acacia cambagei*, *Atalaya hemiglauc*a and *C. aparrerinja* with a mixed ground layer of tussock grasses and *Triodia* spp. Occurs on recent alluvial terraces of larger watercourses and in channel deposits of ephemeral streams. Riverine. (BVG1M: 19b).

1.3.6x1a: [RE not in use]²: This vegetation community is now mapped as 1.3.13a. *Eucalyptus leucophylla* and/or *Eucalyptus pruinosa* subsp. *pruinosa* woodland often with *Corymbia terminalis*, *Eucalyptus camaldulensis* and *Acacia cambagei* with a sparse mixed shrub layer and a sparse ground layer dominated by *Bothriochloa ewartiana* and *Sehima nervosum*, often with *Triodia longiceps*. Occurs on ephemeral watercourses with active beds. Not a Wetland. (BVG1M: 19b).

1.3.6x1b: [RE not in use]²: This vegetation community is now mapped as 1.3.13a. *Eucalyptus leucophylla* woodland with a mid-dense ground layer dominated by tussock grasses. Occurs on narrow terraces. Not a Wetland. (BVG1M: 19b).

1.3.6x1c: [RE not in use]²: This vegetation community is now mapped as 1.3.4b. *Acacia cambagei* and *Eucalyptus leucophylla* woodland with a sparse ground layer of tussock grasses and *Triodia longiceps*. Occurs on terraces. Not a Wetland. (BVG1M: 26a).

1.3.6x1d: [RE not in use]²: This vegetation community is now mapped as 1.3.13a. *Eucalyptus leucophylla* and/or *Eucalyptus pruinosa* subsp. *pruinosa* open woodland, often with *Corymbia terminalis*, *Acacia cambagei*, *Atalaya hemiglauc*a, *Grevillea striata* and *C. aparrerinja*, with a scattered shrub layer and mid-dense ground layer of tussock grasses and *Triodia* spp. Occurs on wide terraces adjacent major rivers and other broad alluvial areas. Not a Wetland. (BVG1M: 19b).

1.3.6x1e: [RE not in use]²: This vegetation community is now mapped as 1.3.10. Mixed species grassland dominated by *Dichanthium* spp., *Iseilema* spp., *Eulalia aurea* and/or *Bothriochloa ewartiana*. Occurs on shallow clayey alluvium. Not a Wetland. (BVG1M: 31a).

1.3.6x1f: [RE not in use]²: This vegetation community is now mapped as 1.3.13b. *Eucalyptus leucophylla* and *Corymbia terminalis* and/or *C. aparrerinja* open forest with a *Flueggea virosa* dominated shrub layer and *Dichanthium fecundum* dominated ground layer. Occurs on shallow drainage lines through older alluvium. Not a Wetland. (BVG1M: 19b).

1.3.6x1g: [RE not in use]²: This vegetation community is now mapped as 1.3.15. *Eucalyptus pruinosa* subsp. *pruinosa* low open woodland to woodland. *Eucalyptus leucophylla*, *Corymbia terminalis*, *Corymbia aparrerinja* and *Lysiphyllum cunninghamii* frequently appear and can be dominant in small areas. A mixed shrub layer is usually present with a ground layer of tussock grasses. Occurs on shallow drainage lines through older alluvium. Not a Wetland. (BVG1M: 19c).

1.3.6x2: [RE not in use]²: This regional ecosystem is now mapped as 1.3.14. *Corymbia terminalis* low open woodland often with *Lysiphyllum cunninghamii* and/or *Eucalyptus leucophylla* and/or *Eucalyptus camaldulensis*. A second tree layer of *Terminalia aridicola* and/or *Hakea arborescens* is usually present with a mixed shrub layer including *Acacia* spp., *Carissa lanceolata*, *Grewia savannicola*, *Senna* spp. And *Dodonaea* spp. And mixed ground layer of tussock grasses and *Triodia pungens*. Occurs on recent alluvial terraces of smaller streams in limestone landscapes. Riverine. (BVG1M: 16c).

1.3.6x3: [RE not in use]²: This regional ecosystem is now mapped as 1.3.10. Mixed species grassland dominated by *Dichanthium* spp., *Iseilema* spp., *Eulalia aurea* and/or *Bothriochloa ewartiana*. Occurs on shallow clayey alluvium. Not a Wetland. (BVG1M: 31a).

1.3.6x4: [RE not in use]²: This regional ecosystem is now mapped as 1.3.15. *Eucalyptus pruinosa* subsp. *pruinosa* low open woodland to woodland. *Eucalyptus leucophylla*, *Corymbia terminalis*, *Corymbia aparrerinja* and *Lysiphyllum cunninghamii* frequently appear and can be dominant in small areas. A mixed shrub layer is usually present with a ground layer of tussock grasses. Occurs on shallow drainage lines through older alluvium. Not a Wetland. (BVG1M: 19c).

Short description:	<i>Corymbia aparrerinja</i> , <i>Corymbia terminalis</i> woodland on sandy levees
Supplementary descriptions:	Christian et al. (1954), Mount Isa, Wonorah, Gregory; Perry et al. (1964), Quamby, Kuridala; Neldner (1991), 3
Subregions:	3, 2, 1, (4.2), (2.8), (2.2), (4.7), (2.3), (4.3), (4.1)
Protected areas:	Boodjamulla NP (Aboriginal Land)
Extent in reserves:	Low
Wetland:	Riverine

Special values:	1.3.6: Significant sub-regional fauna habitat due to the number and size of trees with hollows. 1.3.6b: Significant sub-regional fauna habitat due to the number and size of trees with hollows. 1.3.6e: Significant sub-regional fauna habitat due to the number and size of trees with hollows.
Comments:	1.3.6: Small areas of <i>Corymbia polycarpa</i> are present in Mingera Creek and Buckley River catchments. Subject to * <i>Cenchrus pennisetiformis</i> (Cloncurry buffel grass) invasion. 1.3.6a: Occurs in the south and centre of the bioregion. 1.3.6b: Occurs in the central part of the bioregion. 1.3.6c: This describes small ephemeral watercourses in the least fertile areas. Occurs mainly in the far south west of the bioregion. 1.3.6e: This is an outlying southern population of <i>Corymbia polycarpa</i> where it replaces <i>Corymbia terminalis</i> in a community otherwise very similar to 1.3.6a. Only known to occur along and near Mingera Creek. Subject to * <i>Cenchrus pennisetiformis</i> (Cloncurry buffel grass) invasion. 1.3.6x1e: Subject to high grazing pressure. 1.3.6x3: Subject to high grazing pressure.
Estimated extent: ¹	Pre-clearing 76000 ha; Remnant 2021 76000 ha
VM class:	Least concern
Biodiversity status:	No concern at present
Biodiversity status notes:	

Regional ecosystem 1.3.7

Description: *Eucalyptus camaldulensis* fringing woodland with *Melaleuca bracteata* on levees of smaller channels and *M. fluviatilis* or *M. leucadendra* on those of larger ones where water is available for extended periods each year. *Lophostemon grandiflorus* usually present, occasional *Terminalia aridicola*. *Eucalyptus microtheca* or *E. leucophylla* on finer textured soils. Occurs on recent levees and channel deposits of larger tributaries; alluvial soils. Riverine. (BVG1M: 16a).

Vegetation communities in this regional ecosystem include:

1.3.7a: *Eucalyptus camaldulensis* fringing woodland to closed forest, usually with *Lophostemon grandiflorus* and *Melaleuca leucadendra* and/or *M. fluviatilis*. Occurs on recent levees and channel deposits of major watercourses and larger tributaries. Riverine. (BVG1M: 16a).

1.3.7b: *Eucalyptus camaldulensis* fringing woodland, usually with *Lophostemon grandiflorus* and *Melaleuca bracteata* and/or *M. dissitiflora*. Occurs on recent levees and channel deposits of medium and smaller tributaries which are dry for most of the year; alluvial soils. Riverine. (BVG1M: 16a).

1.3.7c: [RE not in use]²: This vegetation community is now mapped as 1.3.13a. *Eucalyptus leucophylla* woodland often with *E. camaldulensis*, *Corymbia terminalis* and *Acacia cambagei* with ground layer dominated by *Bothriochloa ewartiana* and/or *Triodia longiceps*. Occurs on channel deposits in minor watercourses. Riverine. (BVG1M: 19b).

1.3.7d: [RE not in use]²: This vegetation community is now mapped as 1.3.7a. *Melaleuca leucadendra*, *Lophostemon grandiflorus*, *Eucalyptus camaldulensis* and *Livistona rigida* fringing forest where there is permanent water or the channel is confined by topography; *E. camaldulensis* and *Lophostemon grandiflorus* woodland with a dense shrub layer dominated by *Vitex trifolia*, *Flueggea leucopyrus* and *Melaleuca* spp. between permanent holes and where the channel is not closely confined by topography. Occurs on alluvial deposits along major watercourses; alluvial soils. Riverine. (BVG1M: 22c).

1.3.7e: [RE not in use]²: This vegetation community is now mapped as 1.3.7a. Waterholes with aquatic plants with or without fringing woodland of *Eucalyptus camaldulensis* and/or *Melaleuca leucadendra* and/or *Melaleuca fluviatilis* and/or *Eucalyptus microtheca*. Waterholes within major stream channels. Riverine. (BVG1M: 16d).

1.3.7f: Woodland including *Eucalyptus camaldulensis*, *Lophostemon grandiflorus*, *Melaleuca argentea*, *Terminalia bursarina*, *Lysiphyllum cunninghamii* and *Acacia holosericea*. Occurs on within-channel deposits and levees of major watercourses; alluvial soils. Riverine. (BVG1M: 16a).

1.3.7g: *Eucalyptus camaldulensis* woodland often with *Corymbia capricornia* and *Eucalyptus miniata* with a mixed shrub layer in which *Melaleuca viridiflora* is prominent. Ground layer of tussock grasses and *Triodia* spp. Occurs on watercourses in gorges in pre-Cambrian sandstone formations. Riverine. (BVG1M: 16a).

Short description:	<i>Eucalyptus camaldulensis</i> woodland on channels and levees
Supplementary descriptions:	Christian et al. (1954), Waverley, Gregory; Perry et al. (1964), Quamby, Kuridala, Argylla, Torwood; Neldner (1991), 1, 2
Subregions:	3, 2, 4.2, 1, (4), (2.2), (2.8), (2.7), (4.7), (4.3), (2.3), (4.1)
Protected areas:	Boodjamulla (Lawn Hill) NP, Boodjamulla NP (Aboriginal Land), Lawn Hill (Stockyard Creek) RR, Lawn Hill (Arthur Creek) RR, Lawn Hill (Littles Range) RR, Lawn Hill (Widdallion) RR, Lawn Hill (Lilydale) RR, Lawn Hill (Gregory) RR
Extent in reserves:	Medium
Wetland:	Riverine
Special values:	1.3.7: Important seasonal water bird habitat; regional corridor for fauna.
Comments:	1.3.7: Includes a number of within-channel ecosystems. Survey required to verify condition and faunal values. Severely degraded by high total grazing pressure. 1.3.7f: <i>Terminalia bursarina</i> is a key species for this subunit. Occurs in the northern part of the bioregion. Subject to degradation by high total grazing pressure.
Estimated extent: ¹	Pre-clearing 163000 ha; Remnant 2021 162000 ha
VM class:	Least concern
Biodiversity status:	Endangered
Biodiversity status notes:	Threatening processes other than clearing.

Regional ecosystem 1.3.8

Description: [RE not in use]²: This regional ecosystem is now mapped as 1.3.7f. Woodland including *Eucalyptus camaldulensis* (red gum), *Lophostemon grandiflorus*, *Melaleuca argentea*, *Terminalia bursarina*, *Lysiphyllum cunninghamii* and *Acacia holosericea*. Occurs on within-channel deposits and levees of major watercourses; alluvial soils. Riverine. (BVG1M: 16a).

Vegetation communities in this regional ecosystem include:

1.3.8x1: [RE not in use]²: This vegetation community is now mapped as 1.3.7g. Woodland of *Eucalyptus camaldulensis* often with *Corymbia* spp. and *Eucalyptus* spp. with a mixed shrub layer in which *Melaleuca viridiflora* is prominent. Ground layer of tussock grasses and *Triodia* spp. Occurs on watercourses in gorges in pre-Cambrian sandstone formations. Riverine. (BVG1M: 16a).

Short description: *Eucalyptus camaldulensis* woodland on channels and levees (north)

Supplementary descriptions: Christian et al. (1954), Robinson, Redbank

Subregions:

Protected areas:

Extent in reserves:

Wetland: Riverine

Special values:

Comments: 1.3.8: Subject to degradation by high total grazing pressure.

Estimated extent:¹

VM class: Least concern

Biodiversity status: Endangered

Biodiversity status notes: Threatening processes other than clearing.

Regional ecosystem 1.3.9

Description: Fringing woodland of *Melaleuca leucadendra*, *Lophostemon grandiflorus*, *Eucalyptus camaldulensis* and *Livistona rigida*. *Corymbia aparrerinja* and *Lysiphyllum cunninghamii* occur on sandier levees and *Eucalyptus microtheca* occurs on finer textured lower alluvial terraces on lower reaches. Shrub understorey of *Acacia* spp. Occurs on alluvial deposits along spring fed perennial watercourses; alluvial soils. Riverine. (BVG1M: 22c).

Vegetation communities in this regional ecosystem include:

1.3.9a: Fringing closed forest including *Melaleuca fluviatilis*, *Melaleuca leucadendra*, *Nauclea orientalis*, *Ficus racemosa*, *Livistona rigida*, *Eucalyptus camaldulensis* and *Lophostemon grandiflorus*. Occurs on alluvial deposits along major perennial watercourses and fringing large permanent waterholes. Riverine. (BVG1M: 22c).

1.3.9b: Fringing woodland of *Melaleuca leucadendra*, *Lophostemon grandiflorus*, *Eucalyptus camaldulensis* and *Livistona rigida*. *Corymbia aparrerinja* and *Lysiphyllum cunninghamii* occur on sandier levees and *Eucalyptus microtheca* occurs on finer textured lower alluvial terraces on lower reaches. Shrub understorey of *Acacia* spp. Occurs on alluvial deposits along perennial watercourses; alluvial soils. Riverine. (BVG1M: 22c).

Short description:	Forest or woodland fringing perennial watercourses and on associated alluvium
Supplementary descriptions:	Christian et al. (1954), Thornton
Subregions:	2, 3, 4, (2.7), (2.2), (2.8)
Protected areas:	Boodjamulla NP (Aboriginal Land), Boodjamulla (Lawn Hill) NP, Lawn Hill (Gregory) RR, Lawn Hill (Stockyard Creek) RR, Lawn Hill (Widdallion) RR, Lawn Hill (Gregory River Base) RR
Extent in reserves:	High
Wetland:	Riverine
Special values:	1.3.9: Includes the only perennial watercourses in arid and semi-arid Queensland. Habitat for threatened species including purple-crowned fairy-wren <i>Malurus coronatus</i> . 1.3.9a: Includes the only perennial watercourses in arid and semi-arid Queensland. Habitat for threatened species including purple-crowned fairy-wren <i>Malurus coronatus</i> . 1.3.9b: Includes the only perennial watercourses in arid and semi-arid Queensland. Habitat for threatened species including purple-crowned fairy-wren <i>Malurus coronatus</i> .
Comments:	1.3.9: Survey urgently required to verify condition. Aquatic ecosystems poorly known but threatened by increasing human use. Other threatening processes include weed infestation and disturbance by feral pigs. 1.3.9a: Aquatic ecosystems poorly known but threatened by grazing and increasing human use. Other threatening processes include weed infestation and disturbance by feral pigs. 1.3.9b: Survey urgently required to verify condition. Occurs in spring fed creeks and rivers in sub-region 4. Aquatic ecosystems poorly known but threatened by increasing human use. Other threatening processes include weed infestation and disturbance by feral pigs.
Estimated extent:¹	Pre-clearing 4000 ha; Remnant 2021 4000 ha
VM class:	Of concern
Biodiversity status:	Of concern
Biodiversity status notes:	Threatening processes other than clearing.

Regional ecosystem 1.3.10

Description: Mixed tussock grassland including *Astrebla* spp., *Aristida latifolia*, *Eulalia aurea*, *Iseilema* spp., *Dichanthium* spp. and *Sarga* spp. Occurs on alluvium within landscapes of Cambrian limestone and metamorphosed basic rocks. Not a Wetland. (BVG1M: 30a).

Short description: Mixed tussock grassland on shallow alluvium

Supplementary descriptions:

Subregions: 2, 3

Protected areas: Boodjamulla NP (Aboriginal Land)

Extent in reserves: Low

Wetland: Not a Wetland

Special values:

Comments: 1.3.10: This vegetation community was previously mapped as 1.3.1x1. Subject to over-grazing because it occurs as smaller patches in less fertile landscapes.

Estimated extent:¹ Pre-clearing 6000 ha; Remnant 2021 6000 ha

VM class: Of concern

Biodiversity status: Of concern

Biodiversity status notes:

Regional ecosystem 1.3.11

Description: *Eucalyptus chlorophylla* low open woodland and low woodland often with *Eucalyptus pruinosa* and/or *Lysiphyllum cunninghamii* with a mixed shrub layer and a ground layer of tussock grasses, often with *Triodia pungens*. Occurs on alluvial terraces associated with major and minor watercourses. Not a Wetland. (BVG1M: 18c).

Short description: *Eucalyptus chlorophylla* open woodland on alluvium

Supplementary descriptions:

Subregions: 4, (2.7), (3), (2), (2.2)

Protected areas: Boodjamulla (Lawn Hill) NP, Lawn Hill (Littles Range) RR, Lawn Hill (Stockyard Creek) RR, Lawn Hill (Arthur Creek) RR, Lawn Hill (Widdallion) RR, Boodjamulla NP (Aboriginal Land)

Extent in reserves: High

Wetland: Not a Wetland

Special values:

Comments: 1.3.11: This vegetation community was previously mapped as 1.3.5x2. Occurs mostly in sub-region 4. Subject to high grazing pressure.

Estimated extent:¹ Pre-clearing 19000 ha; Remnant 2021 19000 ha

VM class: Least concern

Biodiversity status: No concern at present

Biodiversity status notes:

Regional ecosystem 1.3.12

Description: *Terminalia bursarina* open woodland, often with *Corymbia grandifolia* and/or *Eucalyptus pruinosa* over a dense ground layer of tussock grasses and/or *Triodia pungens*. Occurs on recent levees associated with watercourses draining landscapes of Proterozoic siltstones. Riverine. (BVG1M: 27c).

Short description: *Terminalia bursarina* open woodland on recent levees

Supplementary descriptions:

Subregions: 4

Protected areas: Boodjamulla (Lawn Hill) NP, Lawn Hill (Littles Range) RR, Lawn Hill (Arthur Creek) RR

Extent in reserves: High

Wetland: Riverine

Special values:

Comments: 1.3.12: This vegetation community was previously mapped as 1.3.5x3.

Estimated extent:¹ Pre-clearing 3000 ha; Remnant 2021 3000 ha

VM class: Of concern

Biodiversity status: Of concern

Biodiversity status notes:

Regional ecosystem 1.3.13

Description: Woodland of *Eucalyptus leucophylla*, commonly with *Corymbia terminalis*, *Acacia cambagei*, *Atalaya hemiglauca* and *C. aparrerinja* with a mixed ground layer of tussock grasses and *Triodia* spp. Occurs on recent levees of larger watercourses and in-channel deposits of ephemeral streams. Not a Wetland. (BVG1M: 19b).

Vegetation communities in this regional ecosystem include:

1.3.13a: Woodland of *Eucalyptus leucophylla*, commonly with *Corymbia terminalis*, *Acacia cambagei*, *Atalaya hemiglauca* and *C. aparrerinja*. Occasional canopy species include *Corymbia confertiflora*, *Lysiphyllum cunninghamii* and *Eucalyptus pruinosa*. The ground layer is a mix of tussock grasses and *Triodia* spp. Occurs on recent levees of larger watercourses and in-channel deposits of ephemeral streams. Not a Wetland. (BVG1M: 19b).

1.3.13b: *Eucalyptus leucophylla* and *Corymbia terminalis* and/or *C. aparrerinja* open forest with a *Flueggea virosa* dominated shrub layer and *Dichanthium fecundum* dominated ground layer. Occurs on recent alluvium in valley infill in the north of the bioregion. Not a Wetland. (BVG1M: 19b).

Short description: *Eucalyptus leucophylla* woodland on levees and minor drainage lines

Supplementary descriptions:

Subregions: 3, 1, (2), (4.2), (2.2), (2.8), (2.7), (4), (2.3), (4.3), (4.7), (4.1)

Protected areas: Lawn Hill (Stockyard Creek) RR, Boodjamulla (Lawn Hill) NP, Lawn Hill (Widdallion) RR, Lawn Hill (Gregory) RR, Lawn Hill (Gregory River Base) RR, Lawn Hill (Gorge Mouth) RR, Boodjamulla NP (Aboriginal Land)

Extent in reserves: Low

Wetland: Not a Wetland

Special values: 1.3.13: Potential habitat for NCA listed species: *Ipomoea antonschmidii*, *Ptilotus maconochiei*.

Comments: 1.3.13: This vegetation community was previously mapped as 1.3.6x1. Subject to high grazing pressure and Cloncurry buffel (*Cenchrus pennisetiformis*) invasion.

1.3.13a: This vegetation community was previously mapped as 1.3.6x1a. Subject to high grazing pressure and *Cenchrus pennisetiformis* (Cloncurry buffel) invasion.

1.3.13b: This vegetation community was previously mapped as 1.3.6x1c. Occurs on Lawn Hill map sheet. Subject to high grazing pressure and Cloncurry buffel (*Cenchrus pennisetiformis*) invasion.

Estimated extent:¹ Pre-clearing 151000 ha; Remnant 2021 150000 ha

VM class: Least concern

Biodiversity status: No concern at present

Biodiversity status notes:

Regional ecosystem 1.3.14

Description: *Corymbia terminalis* low open woodland often with *Lysiphyllum cunninghamii* and/or *Eucalyptus leucophylla* and/or *Eucalyptus camaldulensis*. A second tree layer of *Terminalia aridicola* and/or *Hakea arborescens* is usually present with a mixed shrub layer including *Acacia* spp., *Carissa lanceolata*, *Grewia savannicola*, *Senna* spp. And *Dodonaea* spp. And mixed ground layer of tussock grasses and *Triodia pungens*. Occurs on recent levees of smaller streams in limestone landscapes. Riverine. (BVG1M: 19b).

Short description: *Corymbia terminalis* low open woodland on levees of minor streams in limestone country

Supplementary descriptions:

Subregions: 2, (1), (4.7), (3), (4), (2.2)

Protected areas: Boodjamulla (Lawn Hill) NP, Boodjamulla NP (Aboriginal Land), Lawn Hill (Gregory) RR

Extent in reserves: High

Wetland: Riverine

Special values:

Comments: 1.3.14: This vegetation community was previously mapped as 1.3.6x2.

Estimated extent:¹ Pre-clearing 15000 ha; Remnant 2021 15000 ha

VM class: Least concern

Biodiversity status: No concern at present

Biodiversity status notes:

Regional ecosystem 1.3.15

Description: *Eucalyptus pruinosa* low open woodland to woodland. *Eucalyptus leucophylla*, *Corymbia terminalis*, *Corymbia aparrerinja* and *Lysiphyllum cunninghamii* frequently appear and can be dominant in small areas. A mixed shrub layer is usually present with a ground layer of tussock grasses. Occurs on recent levees of bigger watercourses and fringing shallow drainage lines through older alluvium. Riverine. (BVG1M: 19c).

Short description: *Eucalyptus pruinosa* low woodland on recent alluvium

Supplementary descriptions:

Subregions: 1, 3, 2, (4.7), (2.7)

Protected areas: Boodjamulla NP (Aboriginal Land), Lawn Hill (Lilydale) RR, Wiliyan-ngurru NP, Boodjamulla (Lawn Hill) NP

Extent in reserves: Low

Wetland: Riverine

Special values:

Comments: 1.3.15: This vegetation community was previously mapped as 1.3.6x4. Occurs mainly in the central section of the bioregion.

Estimated extent:¹ Pre-clearing 45000 ha; Remnant 2021 45000 ha

VM class: Least concern

Biodiversity status: No concern at present

Biodiversity status notes:

Regional ecosystem 1.5.1

Description: *Eucalyptus miniata* woodland over a *Triodia bitextura* dominated ground layer. *Corymbia capricornia* commonly occurs and *Corymbia ferruginea* is occasionally present. Occurs on undulating plateau surfaces; lateritic red earths. Not a Wetland. (BVG1M: 14b).

Vegetation communities in this regional ecosystem include:

1.5.1x1: [RE not in use]²: This regional ecosystem is now mapped as 1.5.10. *Acacia hammondii* or *Acacia torulosa*; *Melaleuca viridiflora*, *Melaleuca nervosa* and *Petalostigma quadriloculare* shrubland, often with emergent trees including *Eucalyptus pruinosa*, *Corymbia polycarpa* and *Melaleuca* spp. Ground layer of *Triodia* spp. and diverse forbs. Occurs on older sandy alluvium on undulating plateau surfaces. Not a Wetland. (BVG1M: 14b).

1.5.1x1a: [RE not in use]²: This vegetation community is now mapped as 1.5.10a. *Acacia hammondii*, *Melaleuca viridiflora*, *Melaleuca nervosa* and *Petalostigma quadriloculare* shrubland, often with emergent trees including *Eucalyptus pruinosa*, *Corymbia polycarpa* and *Melaleuca* spp. Ground layer of *Triodia* spp. and diverse forbs. Occurs on older sandy alluvium on undulating plateau surfaces. Not a Wetland. (BVG1M: 14b).

1.5.1x1b: [RE not in use]²: This vegetation community is now mapped as 1.5.10b. *Acacia torulosa*, *Melaleuca viridiflora*, *Eucalyptus pruinosa* and *Petalostigma quadriloculare* shrubland, often with emergent trees including *Eucalyptus pruinosa* and *Melaleuca* spp. Ground layer of *Triodia bitextura* and diverse forbs. Occurs on clayey soils exposed after stripping of lateritic profile. Not a Wetland. (BVG1M: 14b).

1.5.1x2: *Eucalyptus whitei* low open woodland with *Triodia bitextura* ground layer. Occurs on sandy soils with psolitic gravel in the far north of the bioregion. Not a Wetland. (BVG1M: 17c).

Short description: *Eucalyptus miniata* woodland on red earths on laterised plateaus

Supplementary descriptions: Christian et al. (1954), Wonorah

Subregions: 3, 4, (2.7)

Protected areas: Lawn Hill (Stockyard Creek) RR, Boodjamulla (Lawn Hill) NP

Extent in reserves: Medium

Wetland: Not a Wetland

Special values:

Comments: 1.5.1: May be significant habitat for some species but more information required. Ecosystem generally in good condition due to low total grazing pressure. Restricted regional ecosystem subject to increasing total grazing pressures and periodic wildfire.
1.5.1x2: May be significant habitat for some species but more information required. Subregion 4. Ecosystem generally in good condition due to low total grazing pressure. Restricted regional ecosystem subject to periodic wildfire.

Estimated extent:¹ Pre-clearing 16000 ha; Remnant 2021 16000 ha

VM class: Least concern

Biodiversity status: No concern at present

Biodiversity status notes:

Regional ecosystem 1.5.2

Description: Variable woodland which may include *Eucalyptus pruinosa*, *Corymbia ferruginea*, *C. polycarpa*, *C. terminalis* and *C. capricornia*. Prominent lower tree and shrub storey may include *Lysiphyllum cunninghamii*, *Petalostigma banksii*, *Acacia holosericea*, *Carissa lanceolata*, *Ventilago viminalis*, *Hakea arborescens* and *Atalaya hemiglauc*. Moderate ground cover of perennial and annual grasses. Occurs on small sandplains, usually adjacent to Jurassic-Cretaceous plateaus and Tertiary surfaces; sandy red loams. Not a Wetland. (BVG1M: 19c).

Vegetation communities in this regional ecosystem include:

1.5.2a: Low open woodland of mixed species which may include *Eucalyptus leucophloia*, *Eucalyptus pruinosa*, *Corymbia grandifolia*, *C. terminalis* and *C. capricornia* with a variable shrub layer and ground layer mixed tussock grasses often with *Triodia pungens*. Occurs on small sandplains. Not a Wetland. (BVG1M: 19c).

1.5.2b: *Corymbia capricornia* and *Corymbia grandifolia* low open woodland usually with *Corymbia polycarpa*. A second tree layer including *Melaleuca viridiflora* and *Eucalyptus pruinosa* usually occurs. A variable shrub layer is consistently present. The ground layer is mixed and dominated by a combination of tussock and hummock grasses. *Corymbia ferruginea* frequently occurs in the north. Occurs on gravelly Tertiary surfaces with areas of impeded drainage. Not a Wetland. (BVG1M: 19c).

1.5.2c: Mixed woodland of *Corymbia polycarpa*, *Lysiphyllum cunninghamii*, *Ventilago viminalis* and *Atalaya hemiglauc* with shrub layer dominated by *Petalostigma pubescens* and ground layer of tussock grasses and *Triodia pungens*. Occurs on small sandplains. Not a Wetland. (BVG1M: 19c).

1.5.2e: [RE not in use]²: This vegetation community is now mapped as 1.5.10a. Shrubland of *Acacia hammondii*, *Melaleuca* spp. and *Petalostigma quadriloculare*, often with emergent trees including *Eucalyptus pruinosa* subsp. *pruinosa*, *E. leucophloia*, *Corymbia* spp. and *Melaleuca* spp. Ground layer of *Triodia* spp. And diverse forbs. Occurs on small sandplains, usually adjacent to Proterozoic plateaus and Tertiary surfaces; sandy red loams. Not a Wetland. (BVG1M: 19c).

1.5.2x1: [RE not in use]²: This regional ecosystem is now mapped as 1.5.11. *Melaleuca citrolens* and/or *Eucalyptus pruinosa* low open woodland often with *Melaleuca viridiflora* and occasional *Melaleuca stenostachya* with a mixed shrub layer of *Petalostigma banksii*, *Carissa lanceolata* and *Acacia* spp. over a ground layer of *Triodia pungens*. Occurs on small tertiary sandplains. Not a Wetland. (BVG1M: 19c).

Short description: Mixed eucalypt woodland on sandy plains

Supplementary descriptions:

Subregions: 3, 4, 2.7, (2.8), (2), (2.2)

Protected areas: Boodjamulla (Lawn Hill) NP, Lawn Hill (Stockyard Creek) RR, Lawn Hill (Widdallion) RR, Boodjamulla NP (Aboriginal Land), Lawn Hill (Arthur Creek) RR

Extent in reserves: High

Wetland: Not a Wetland

Special values:

Comments: 1.5.2a: Mainly subregion 4 and far north of subregion 3.
1.5.2b: Mainly far north of subregion 3 and subregion 4.
1.5.2c: This is a community of restricted extent and occurs only along the margins of sub-region 2 and sub-region 4 within 40km of the Northern Territory border.

Estimated extent:¹ Pre-clearing 49000 ha; Remnant 2021 49000 ha

VM class: Least concern

Biodiversity status: No concern at present

Biodiversity status notes:

Regional ecosystem 1.5.3

Description: *Eucalyptus leucophloia* low open woodland to woodland sometimes with shrubby understorey dominated by *Acacia* spp. Usually *Triodia* spp. dominated ground cover. Includes areas of *Corymbia terminalis* woodland. Occurs on undulating plateau surfaces, valley infill and outwash plains. Not a Wetland. (BVG1M: 19a).

Short description: *Eucalyptus leucophloia* low open woodland to woodland on sandy and gravelly red soils

Supplementary descriptions: Christian et al. (1954), Wonorah, Yelvertoft; Neldner (1991), 31

Subregions: 3, 1, 4, 2, (2.8), (2.7), (2.2), (4.2), (4.7), (4.3), (2.3)

Protected areas: Boodjamulla (Lawn Hill) NP, Boodjamulla NP (Aboriginal Land), Lawn Hill (Stockyard Creek) RR, Lawn Hill (Littles Range) RR, Lawn Hill (Arthur Creek) RR, Lawn Hill (Lilydale) RR, Lawn Hill (Widdallion) RR, Wiliyan-ngurru NP, Lawn Hill (Gregory) RR

Extent in reserves: Low

Wetland: Not a Wetland

Special values:

Comments: 1.5.3: Widespread throughout the bioregion.

Estimated extent:¹ Pre-clearing 290000 ha; Remnant 2021 289000 ha

VM class: Least concern

Biodiversity status: No concern at present

Biodiversity status notes:

Regional ecosystem 1.5.4

Description: *Eucalyptus leucophylla* and/or *Corymbia terminalis* low open woodland to low woodland over annual grasses with areas of *Triodia* spp. Occasional *Corymbia aparrerinja*, *Atalaya hemiglauc*a and *Grevillea striata* and small areas of *Acacia cambagei* and *Eucalyptus leucophloia*. Occurs on plains and valley bottoms; red earths, shallow loams, clays and skeletal soils. Not a Wetland. (BVG1M: 19b).

Vegetation communities in this regional ecosystem include:

1.5.4a: *Corymbia terminalis* low open woodland, scattered shrub layer of *Carissa lanceolata* and tussock grass ground layer. *Eucalyptus pruinosa* is commonly present in the north. Occurs on older alluvial and residual soils with significant clay content. Not a Wetland. (BVG1M: 19b).

1.5.4b: [RE not in use]²: This vegetation community is now mapped as 1.5.12. *Triodia longiceps* hummock grassland sometimes with emergent *Corymbia terminalis*. Occurs on small sandsheets and outwash areas in valley bottoms. Not a Wetland. (BVG1M: 33b).

1.5.4c: *Eucalyptus leucophylla* low open mallee woodland often with *Eucalyptus gamophylla*, *Eucalyptus odontocarpa*, *Corymbia terminalis*, *Eucalyptus leucophloia* and *Eucalyptus normantonensis*. Mixed shrub layer of *Acacia* spp., *Senna* spp. and *Eremophila* spp. and ground layer of *Triodia pungens* and tussock grasses. Occurs on small sandsheets and outwash areas in valley bottoms. Not a Wetland. (BVG1M: 19b).

1.5.4d: *Eucalyptus leucophylla* and *Corymbia terminalis* low open woodland to low woodland, over annual grasses with areas of *Triodia* spp. Occasional *Corymbia aparrerinja*, *Atalaya hemiglauc*a and *Grevillea striata* and small areas of *Acacia cambagei* and *Eucalyptus leucophloia*. Occurs on plains and valley bottoms; red earths, shallow loams, clays and skeletal soils. Not a Wetland. (BVG1M: 19b).

1.5.4e: [RE not in use]²: This vegetation community is now mapped as 1.5.4a. Low open woodland of *Corymbia terminalis* with *Eucalyptus leucophloia*, *Acacia cambagei*, *Atalaya hemiglauc*a and *Grevillea striata* with a sparse to very sparse shrub layer of *Acacia chisholmii* and *Carissa lanceolata* often with *Eremophila mitchellii* and a sparse to very sparse ground layer of *Enneapogon* spp. and *Aristida* spp. often with *Triodia* spp. Can include substantial bare areas. Occurs on undulating plains of colluvial and outwash deposits. Not a Wetland. (BVG1M: 19b).

1.5.4x1: [RE not in use]²: This regional ecosystem is now mapped as 1.5.13. *Eucalyptus pruinosa* low open woodland often with *Corymbia terminalis*, *E. leucophylla*, *Acacia cambagei* or *Grevillea striata* and with a sparse mixed shrub layer and dense tussock grass ground layer dominated by *Aristida* spp. with *Triodia* spp. often present. Occurs on older alluvial and residual soils. Not a Wetland. (BVG1M: 19c).

1.5.4x1a: [RE not in use]²: This vegetation community is now mapped as 1.5.13. *Eucalyptus pruinosa* low open woodland often with *Corymbia terminalis*, *C. aparrerinja*, *E. leucophylla*, *E. leucophloia*, *Acacia cambagei* and *Grevillea striata* and with a sparse mixed shrub layer and a mid-dense ground layer dominated by *Aristida* spp. with some areas of *Triodia* spp. Occurs on sandsheet. Not a Wetland. (BVG1M: 19c).

1.5.4x1b: [RE not in use]²: This vegetation community is now mapped as 1.5.13. *Eucalyptus pruinosa* subsp. *pruinosa* low open woodland with or without *Corymbia terminalis* and with a sparse mixed shrub layer

dominated by *Acacia chisholmii* and a sparse to very sparse ground layer dominated by *Triodia* spp. Occurs on outwash plains on the eastern margins of the Northwest Highlands adjacent the southern Gulf Plains. Not a Wetland. (BVG1M: 19c).

1.5.4x2: [RE not in use]²: This vegetation community is now mapped as 1.5.4a. Low open woodland of *Corymbia terminalis* with *Eucalyptus leucophloia*, *Acacia cambagei*, *Atalaya hemiglauc* and *Grevillea striata* with a sparse to very sparse shrub layer of *Acacia chisholmii* and *Carissa lanceolata* often with *Eremophila mitchellii* and a sparse to very sparse ground layer of *Enneapogon* spp. and *Aristida* spp. often with *Triodia* spp. Can include substantial bare areas. Occurs on undulating plains of colluvial and outwash deposits. Not a Wetland. (BVG1M: 19a).

1.5.4x3: [RE not in use]²: This regional ecosystem is now mapped as 1.5.15. Open tussock grassland of *Aristida contorta*, *A. ingrata*, *A. inaequiglumis*, *Enneapogon* spp., *Eulalia aurea* often with *Triodia pungens* wooded with low trees including *Atalaya hemiglauc*, *Eucalyptus pruinosa* subsp. *pruinosa*, *Lysiphyllum* spp., *Acacia cambagei*, *E. leucophylla* and *Corymbia aparrerinja*. Includes substantial areas of bare ground. Occurs on gravelly red plains. Not a Wetland. (BVG1M: 31b).

1.5.4x4: [RE not in use]²: This regional ecosystem is now mapped as 1.5.3. *Eucalyptus leucophloia* low open woodland often with *Corymbia terminalis*, *Eucalyptus pruinosa* subsp. *pruinosa* or *Acacia cambagei* to low open woodland with a sparse to mid-dense ground layer dominated by *Triodia* spp. and/or *Eulalia aurea*. Occurs on valley floors and flats amongst low metamorphic hills. Not a Wetland. (BVG1M: 19a).

1.5.4x6: [RE not in use]²: This regional ecosystem is now mapped as 1.6.1. Low open woodland of *Corymbia terminalis*, *C. aparrerinja* and *Ventilago viminalis* with a scattered to dense shrub layer dominated by *Acacia stipuligera* and diverse ground layer. Occasional treeless E-W linear dunes. Occurs on relict sand dunes and associated aeolian sandplains. Not a Wetland. (BVG1M: 19b).

1.5.4x6a: [RE not in use]²: This vegetation community is now mapped as 1.6.1. Mixed forbland dominated by *Crotalaria novae-hollandiae*, *Trianthema pilosa*, *Aristida holathera*, *Eriachne* sp., *Corynotheca micrantha* var. *divaricata* and *Distimake davenportii* on linear dunes. Occurs on relict sand dunes. Not a Wetland. (BVG1M: 19b).

1.5.4x6b: [RE not in use]²: This vegetation community is now mapped as 1.5.17. Low open woodland to woodland of *Corymbia aparrerinja* and/or *Corymbia terminalis*, often with *Ventilago viminalis*. A mid-dense shrub layer dominated by *Acacia stipuligera* may be present at times. Diverse ground layer usually dominated by *Triodia pungens*. In places trees are absent. Occurs aeolian sandplains associated with relict sand dunes. Not a Wetland. (BVG1M: 19b).

1.5.4x7: [RE not in use]²: This vegetation community is now mapped as 1.5.14b. *Corymbia aparrerinja* open woodland often with *Grevillea striata*, *Corymbia terminalis* and *Eucalyptus leucophylla*. Sparse mixed shrub layer and ground layer of *Triodia pungens* and tussock grasses. Occurs on red sandy and loamy soils. Not a Wetland. (BVG1M: 19b).

Short description:	<i>Eucalyptus leucophylla</i> and/or <i>Corymbia terminalis</i> low open woodland on red earths
Supplementary descriptions:	Christian et al. (1954), Waverley; Neldner (1991), 15, 19; Perry et al. (1964), Quamby, Kuridala
Subregions:	3, 1, (2.8), (4.7), (2.2), (2), (4.2), (2.3), (2.7), (4.3)
Protected areas:	Wiliyan-ngurru NP, Boodjamulla NP (Aboriginal Land)
Extent in reserves:	Low
Wetland:	Not a Wetland
Special values:	1.5.4: Potential habitat for NCA listed species: <i>Ipomoea antonschmidii</i> .
Comments:	1.5.4: * <i>Cenchrus pennisetiformis</i> (Cloncurry buffel grass) is invading the ecosystem and changing its floristics and structure.
Estimated extent: ¹	Pre-clearing 356000 ha; Remnant 2021 352000 ha
VM class:	Least concern
Biodiversity status:	No concern at present
Biodiversity status notes:	Threatening processes other than clearing.

Regional ecosystem 1.5.5

Description: [RE not in use]²: This regional ecosystem is now mapped as 1.5.13. *Eucalyptus pruinosa* low open woodland with shrubby understorey dominated by *Acacia* spp. often with *Ventilago viminalis*, *Corymbia aparrerinja*, *Grevillea striata* and *Atalaya hemiglauca*. Moderate ground cover of annual and perennial grasses. Occurs in depressions in Tertiary plateaus and on shallow residual Tertiary surfaces overlying limestones; red-brown earths, non-calcic brown soils and shallow loams. Not a Wetland. (BVG1M: 19c).

Vegetation communities in this regional ecosystem include:

1.5.5a: [RE not in use]²: This vegetation community is now mapped as 1.5.13. *Eucalyptus pruinosa* subsp. *pruinosa* (silver-leaved box) low open woodland with shrubby understorey dominated by *Acacia* spp. often with *Ventilago viminalis*, *Corymbia aparrerinja*, *Grevillea striata* and *Atalaya hemiglauca*. Moderate ground cover of annual and perennial grasses. Occurs in depressions in Tertiary plateaus and on shallow residual Tertiary surfaces overlying limestones; red-brown earths, non-calcic brown soils and shallow loams. Not a Wetland. (BVG1M: 19c).

1.5.5b: [RE not in use]²: This vegetation community is now mapped as 1.5.10b. Swampy low open woodland of *Eucalyptus pruinosa* subsp. *pruinosa* with dense shrub layer dominated by *Melaleuca viridiflora* and *Acacia* spp. and ground layer dominated by *Triodia bitextura*. Occurs on areas of impeded drainage adjacent Tertiary plateau surfaces. Not a Wetland. (BVG1M: 19c).

1.5.5x1: [RE not in use]²: This vegetation community is now mapped as 1.5.14. *Corymbia aparrerinja* open woodland, often with *Corymbia terminalis*. A second tree layer of *Eucalyptus pruinosa* is usually present with a mixed shrub layer and ground layer of tussock grasses and *Triodia pungens*. Occurs on shallow residual Tertiary surfaces overlying limestones. Not a Wetland. (BVG1M: 19c).

Short description: *Eucalyptus pruinosa* subsp. *pruinosa* low open woodland on red earth plains

Supplementary descriptions: Christian et al. (1954), Yelvertoft, Wonorah

Subregions:

Protected areas:

Extent in reserves:

Wetland: Not a Wetland

Special values:

Comments: 1.5.5: Periodic wildfires and high total grazing pressure are leading to changes in structure and floristics of the natural vegetation.
1.5.5a: Periodic wildfires and high total grazing pressure are leading to changes in structure and floristics of the natural vegetation.

Estimated extent:¹

VM class: Least concern

Biodiversity status: Of concern

Biodiversity status notes:

Regional ecosystem 1.5.6

Description: *Atalaya hemiglauca*, *Acacia cambagei*, *Acacia excelsa*, *Ventilago viminalis*, *Grevillea striata*, *Hakea lorea* subsp. *lorea*, *Ehretia saligna*, *Corymbia terminalis* and *C. aparrerinja* low open woodland. Shrubby understorey includes *Acacia* spp. and *Carissa lanceolata*. Occasional *Acacia aneura* in the west. Areas dominated by *Ventilago viminalis* in the Camooweal area. Ground cover dominated by *Aristida contorta*, sometimes forming grasslands. Occurs on outwash plains from ranges of strongly folded pre-Cambrian rocks, usually adjacent to clay plains; red earths and clays. Not a Wetland. (BVG1M: 27b).

Vegetation communities in this regional ecosystem include:

1.5.6a: [RE not in use]²: This vegetation community is now mapped as 1.5.15. *Aristida contorta* annual grasslands, usually with *Aristida inaequiglumis*, that are bare for most of the year and can be dominated by forbs. Occurs on older alluvium. Not a Wetland. (BVG1M: 31b).

1.5.6b: [RE not in use]²: This vegetation community is now mapped as 4.5.8x1. *Aristida latifolia* tussock grassland with scattered emergent trees including *Atalaya hemiglauca*, *Grevillea striata*, *Eucalyptus pruinosa* and *Corymbia terminalis*. Occurs on older alluvium and outwash areas with significant clay content. Not a Wetland. (BVG1M: 31b).

1.5.6c: Mixed low open woodland including *Atalaya hemiglauca*, *Acacia excelsa*, *Acacia cambagei*, *Ventilago viminalis*, *Grevillea striata*, *Hakea lorea* subsp. *lorea*, *Ehretia saligna*, *Corymbia terminalis* and *C. aparrerinja*. Scattered shrub layer includes *Acacia* spp. and *Carissa lanceolata*. Mixed ground layer usually dominated by *Aristida contorta*, sometimes forming grasslands. Areas of *Acacia aneura* are occasionally present. Occurs on outwash plains from ranges of strongly folded pre-Cambrian rocks, usually adjacent to clay plains; red earths and clays. Not a Wetland. (BVG1M: 27a).

1.5.6d: *Ventilago viminalis* low open woodland, often with *Atalaya hemiglauca*, *Eucalyptus pruinosa*, *Erythrina vespertilio*. Sometimes groved with *Eulalia aurea* grassland in open areas. Occurs on the margins of sandplains adjacent to clays; variety of medium-textured soils. Not a Wetland. (BVG1M: 27a).

1.5.6x1: [RE not in use]²: This vegetation community is now mapped as 1.5.6c. Variable low open woodland which may include *Acacia cambagei*, *Grevillea striata*, *Atalaya hemiglauca*, *Acacia excelsa* subsp. *angusta*, *Corymbia* spp., *Eucalyptus* spp., *Hakea* spp. and *Owenia* spp. with a scattered shrub layer dominated by *Carissa lanceolata* and a mixed ground layer of tussock grasses often with *Triodia pungens*. Includes areas of grassland. Soils include sandy loams, red earths and light clays. Occurs on outwash plains from ranges of pre-Cambrian rocks, usually adjacent to clay plains. Not a Wetland. (BVG1M: 26a).

1.5.6x2: [RE not in use]²: This regional ecosystem is now mapped as 1.5.16. *Acacia cambagei* low woodland with generally sparse ground layer of *Triodia longiceps* and/or tussock grasses. Bare patches are common. Occurs on older alluvial and residual soils. Not a Wetland. (BVG1M: 26a).

Short description: *Atalaya hemiglauca*, *Ventilago viminalis*, *Grevillea striata* low open woodland on red earth plains

Supplementary descriptions: Neldner (1991), 14, 40, 46; Perry et al. (1964), Quamby, Kuridala

Subregions: 3, 1, (4.2), (4.7), (2.8), (4.3), (2.3), (2)

Protected areas: Wiliyan-ngurru NP

Extent in reserves: Low

Wetland: Not a Wetland

Special values:

Comments: 1.5.6: Community of arid landscapes that are usually sparsely vegetated. Occurs in the south and west of the bioregion. Prone to scalding.
1.5.6c: Prone to scalding.

Estimated extent:¹ Pre-clearing 313000 ha; Remnant 2021 313000 ha

VM class: Least concern

Biodiversity status: No concern at present

Biodiversity status notes:

Regional ecosystem 1.5.7

Description: *Acacia aneura* low woodland, often groved and often including *Eucalyptus leucophloia* and/or *Acacia cambagei* as sub-dominant species with a variable shrub layer of *Senna* spp. and *Acacia* spp. and ground layer of tussock grasses and *Triodia* spp. Occurs on Tertiary and Quaternary outwash sandplains, in places reworked by wind; deep loamy red earths. Not a Wetland. (BVG1M: 23a).

Vegetation communities in this regional ecosystem include:

1.5.7a: [RE not in use]²: This vegetation community is now mapped as 1.5.7. Low open woodland of *Acacia aneura*, often groved and often including *Eucalyptus leucophloia* and/or *Acacia cambagei* as sub-dominant species with a variable shrub layer of *Senna* spp. and *Acacia* spp. and ground layer of tussock grasses and *Triodia* spp. Occurs on sandsheets. Not a Wetland. (BVG1M: 23a).

1.5.7b: [RE not in use]²: This vegetation community is now mapped as 1.5.18. Low open woodland of *Corymbia capricornia*, usually with *C. aparrerinja* and *Eucalyptus odontocarpa* with a ground layer of *Triodia pungens* and/or *Aristida hygrometrica*. Occurs on older alluvium around low metamorphic hills. Not a Wetland. (BVG1M: 19a).

1.5.7x1: [RE not in use]²: This regional ecosystem is now mapped as 1.5.17. *Corymbia terminalis* low open woodland on sandy red soils. Associated species include *Grevillea striata*, *Acacia excelsa*, *Corymbia aparrerinja*, *Acacia aneura*, *Atalaya hemiglaucula* and *Hakea lorea* subsp. *lorea*. Ground layer dominated by *Triodia pungens*. Occurs on Tertiary and Quaternary outwash sandplains, in places reworked by wind; deep loamy red earths. Not a Wetland. (BVG1M: 19b).

1.5.7x2: [RE not in use]²: This regional ecosystem is now mapped as 4.5.5x2. *Erythrina vespertilio* and *Corymbia aparrerinja* low open woodland. Occurs on sandy residual soils. Not a Wetland. (BVG1M: 18c).

1.5.7x3: [RE not in use]²: This regional ecosystem is now mapped as 1.5.18. *Corymbia capricornia* low open woodland, often with *C. aparrerinja* and *Eucalyptus odontocarpa* with a ground layer of *Triodia pungens* and/or *Aristida hygrometrica*. Occurs on red sandy soils around low metamorphic hills with silcrete and ferricrete cover. Not a Wetland. (BVG1M: 19a).

Short description: *Acacia aneura* low woodland on sandy red earth plains

Supplementary descriptions: Christian et al. (1954), Bundella, Wonorah; Neldner (1991), 21, 24

Subregions: 1, 3, (4.2), (4.7)

Protected areas:

Extent in reserves: No representation

Wetland: Not a Wetland

Special values:

Comments:

Estimated extent:¹ Pre-clearing 61000 ha; Remnant 2021 61000 ha

VM class: Least concern

Biodiversity status: No concern at present

Biodiversity status notes:

Regional ecosystem 1.5.8

Description: [RE not in use]²: This regional ecosystem is now mapped as 1.5.19. *Acacia cambagei*, *Atalaya hemiglauca* and *Ventilago viminalis* low open woodland. Sparse shrub layer and sparse ground cover of annual and perennial grasses. Occurs on Tertiary and Quaternary outwash plains; red-brown earths and red-brown solonetz. Not a Wetland. (BVG1M: 26a).

Vegetation communities in this regional ecosystem include:

1.5.8x1: [RE not in use]²: This vegetation community is now mapped as 4.5.6x2c. *Acacia georginae* low open woodland. Occurs on flat plains with deep sandy red earths and sandy surfaced texture contrast soils. Not a Wetland. (BVG1M: 26a).

Short description: *Acacia cambagei* and *Atalaya hemiglauca* low open woodland on red earth plains

Supplementary descriptions: Christian et al. (1954), Bundella, Moonah; Neldner (1991), 5, 7, 8, 26

Subregions:

Protected areas:

Extent in reserves:

Wetland: Not a Wetland

Special values:

Comments:

Estimated extent:¹

VM class: Least concern

Biodiversity status: No concern at present

Biodiversity status notes:

Regional ecosystem 1.5.9

Description: [RE not in use]²: This regional ecosystem is now mapped as 1.5.6d. Low open woodland of *Ventilago viminalis* (vine tree), with a shrubby understorey and a ground cover of annual and perennial grasses. Occurs on the margins of sandplains adjacent to clays; variety of medium-textured soils. Not a Wetland. (BVG1M: 27a).

Short description: *Ventilago viminalis* low open woodland on loams on sand sheet margins

Supplementary descriptions: Christian et al. (1954), Wonorah, Yelvertoft

Subregions:

Protected areas:

Extent in reserves:

Wetland: Not a Wetland

Special values:

Comments:

Estimated extent:¹

VM class: Least concern

Biodiversity status: Of concern

Biodiversity status notes:

Regional ecosystem 1.5.10

Description: *Acacia hammondii* or *Acacia torulosa*; *Melaleuca viridiflora*, *Melaleuca nervosa* and *Petalostigma quadriloculare* shrubland, often with emergent trees including *Eucalyptus pruinosa*, *Corymbia polycarpa* and *Melaleuca* spp. Ground layer of *Triodia* spp. and diverse forbs. Occurs on older sandy alluvium on undulating plateau surfaces. Not a Wetland. (BVG1M: 21b).

Vegetation communities in this regional ecosystem include:

1.5.10a: *Acacia hammondii*, *Melaleuca viridiflora*, *Melaleuca nervosa* and *Petalostigma quadriloculare* shrubland, often with emergent trees including *Eucalyptus pruinosa*, *Corymbia polycarpa* and *Melaleuca* spp. Ground layer of *Triodia* spp. and diverse forbs. Some swampy areas with emergent *Eucalyptus pruinosa*. Occurs on older sandy alluvium with impeded drainage. Not a Wetland. (BVG1M: 21b).

1.5.10b: *Acacia torulosa*, *Melaleuca viridiflora*, *Eucalyptus pruinosa* and *Petalostigma quadriloculare* shrubland, often with emergent trees including *Eucalyptus pruinosa* and *Melaleuca* spp. Ground layer of *Triodia bitextura* and diverse forbs. Occurs around the edge of a Tertiary plateau known as 'The Desert' on the Camooweal map sheet. Not a Wetland. (BVG1M: 21b).

Short description: Mixed shrubland on older sandy alluvium

Supplementary descriptions:

Subregions: 4, 3, (2.7)

Protected areas: Boodjamulla (Lawn Hill) NP, Lawn Hill (Stockyard Creek) RR, Lawn Hill (Arthur Creek) RR

Extent in reserves: High

Wetland: Not a Wetland

Special values:

Comments: 1.5.10: This vegetation community was previously mapped as 1.5.1x1.
1.5.10a: This vegetation community was previously mapped as 1.5.1x1a.
1.5.10b: This vegetation community was previously mapped as 1.5.1x1b.

Estimated extent:¹ Pre-clearing 5000 ha; Remnant 2021 5000 ha

VM class: Of concern

Biodiversity status: Of concern

Biodiversity status notes:

Regional ecosystem 1.5.11

Description: Melaleuca citrolens and/or Eucalyptus pruinosa low open woodland often with Melaleuca viridiflora and occasional Melaleuca stenostachya with a mixed shrub layer of Petalostigma banksii, Carissa lanceolata and Acacia spp. over a ground layer of Triodia pungens. Occurs on small tertiary sandplains. Not a Wetland. (BVG1M: 21b).

Vegetation communities in this regional ecosystem include:

1.5.11x1: Eucalyptus chlorophylla, Melaleuca viridiflora and Melaleuca citrolens woodland. Mixed ground layer of tussock grasses +/- Triodia bitextura. Occurs on soils with sandy surfaces over clay in the far north of the bioregion. Not a Wetland. (BVG1M: 21b).

Short description: Melaleuca citrolens and/or Eucalyptus pruinosa low open woodland on sandy plains

Supplementary descriptions:

Subregions: 4, 2.7

Protected areas:

Extent in reserves: No representation

Wetland: Not a Wetland

Special values:

Comments: 1.5.11: This vegetation community was previously mapped as 1.5.2x1.

1.5.11x1: Northern part of sub-region 4.

Estimated extent:¹ Pre-clearing 19000 ha; Remnant 2021 19000 ha

VM class: Least concern

Biodiversity status: No concern at present

Biodiversity status notes:

Regional ecosystem 1.5.12

Description: Triodia longiceps hummock grassland sometimes with emergent Corymbia terminalis. Occurs on small sandsheets and outwash areas in valley bottoms. Not a Wetland. (BVG1M: 33b).

Short description: Triodia longiceps hummock grassland on older alluvium

Supplementary descriptions:

Subregions: 3, (2.8), (4.3), (4.2)

Protected areas:

Extent in reserves: No representation

Wetland: Not a Wetland

Special values:

Comments: 1.5.12: This vegetation community was previously mapped as 1.5.4b. Occurs in the south east part of the bioregion.

Estimated extent:¹ Pre-clearing 2000 ha; Remnant 2021 2000 ha

VM class: Of concern

Biodiversity status: Of concern

Biodiversity status notes:

Regional ecosystem 1.5.13

Description: *Eucalyptus pruinosa* low open woodland often with *Corymbia terminalis*, *E. leucophylla*, *Acacia cambagei* or *Grevillea striata* and with a sparse mixed shrub layer and dense tussock grass ground layer dominated by *Aristida* spp. with *Triodia* spp. often present. Occurs on older alluvial and residual soils. Not a Wetland. (BVG1M: 19c).

Short description: *Eucalyptus pruinosa* low open woodland on older alluvial and residual soils

Supplementary descriptions:

Subregions: 1, 3, 2.8, (2.2), (2), (4), (4.7), (2.7), (2.3)

Protected areas: Lawn Hill (Arthur Creek) RR, Wiliyan-ngurru NP, Boodjamulla (Lawn Hill) NP, Lawn Hill (Widdallion) RR, Boodjamulla NP (Aboriginal Land), Lawn Hill (Stockyard Creek) RR, Lawn Hill (Gregory) RR, Lawn Hill (Lilydale) RR

Extent in reserves: Low

Wetland: Not a Wetland

Special values:

Comments: 1.5.13: This vegetation community was previously mapped as 1.5.4x1.

Estimated extent:¹ Pre-clearing 320000 ha; Remnant 2021 319000 ha

VM class: Least concern

Biodiversity status: No concern at present

Biodiversity status notes:

Regional ecosystem 1.5.14

Description: *Corymbia aparrerinja* open woodland often with *Grevillea striata*, *Corymbia terminalis* and *Eucalyptus leucophylla*. Sparse mixed shrub layer and ground layer of *Triodia pungens* and tussock grasses. Occurs on sandy red earths. Not a Wetland. (BVG1M: 19b).

Vegetation communities in this regional ecosystem include:

1.5.14a: *Corymbia aparrerinja* open woodland, often with *Corymbia terminalis*. A second tree layer of *Eucalyptus pruinosa* is usually present with a mixed shrub layer and ground layer of tussock grasses and *Triodia pungens*. Occurs on shallow residual Tertiary surfaces overlying limestones. Not a Wetland. (BVG1M: 19b).

1.5.14b: *Corymbia aparrerinja* open woodland often with *Grevillea striata*, *Corymbia terminalis* and *Eucalyptus leucophylla*. Sparse mixed shrub layer and ground layer of *Triodia pungens* and tussock grasses. Occurs on sandy red earths. Not a Wetland. (BVG1M: 19b).

Short description: *Corymbia aparrerinja* open woodland on sandy red earths

Supplementary descriptions:

Subregions: 2, 3, (2.8), (4), (4.2)

Protected areas: Boodjamulla NP (Aboriginal Land), Boodjamulla (Lawn Hill) NP, Lawn Hill (Lilydale) RR

Extent in reserves: High

Wetland: Not a Wetland

Special values:

Comments: 1.5.14: This vegetation community was previously mapped as 1.5.5x1.

1.5.14a: This vegetation community was previously mapped as 1.5.5x1.

1.5.14b: This vegetation community was previously mapped as 1.5.4x7. Occurs in the south east of the bioregion.

Estimated extent:¹ Pre-clearing 11000 ha; Remnant 2021 11000 ha

VM class: Least concern

Biodiversity status: No concern at present

Biodiversity status notes:

Regional ecosystem 1.5.15

Description: *Aristida contorta* annual grasslands, usually with *Aristida inaequiglumis*, that are bare for most of the year and can be dominated by forbs. Occurs on older alluvium and residual soils. Not a Wetland. (BVG1M: 31b).

Short description: *Aristida contorta* annual grasslands on hard setting red soils

Supplementary descriptions:

Subregions: 3, 1, 2.8, (4.2), (2.2), (2.3), (2), (4.7)

Protected areas:

Extent in reserves: No representation

Wetland: Not a Wetland

Special values:

Comments: 1.5.15: This vegetation community was previously mapped as 1.5.6a. Occurs in southern and central parts of the bioregion on hard setting red soils.

Estimated extent:¹ Pre-clearing 14000 ha; Remnant 2021 14000 ha

VM class: Least concern

Biodiversity status: No concern at present

Biodiversity status notes:

Regional ecosystem 1.5.16

Description: *Acacia cambagei* low woodland with generally sparse ground layer of *Triodia longiceps* and/or tussock grasses. Bare patches are common. Occurs on older alluvial and residual soils. Not a Wetland. (BVG1M: 26a).

Short description: *Acacia cambagei* low woodlands on red earths

Supplementary descriptions:

Subregions: 3, 1, (2.8), (2.2), (4.2), (4.3), (2), (4.7), (2.3)

Protected areas:

Extent in reserves: No representation

Wetland: Not a Wetland

Special values:

Comments: 1.5.16: This vegetation community was previously mapped as 1.5.6x2.

Estimated extent:¹ Pre-clearing 180000 ha; Remnant 2021 177000 ha

VM class: Least concern

Biodiversity status: No concern at present

Biodiversity status notes:

Regional ecosystem 1.5.17

Description: *Corymbia terminalis* low open woodland on sandy red soils. Associated species include *Grevillea striata*, *Acacia excelsa*, *Corymbia aparrerinja*, *Acacia aneura*, *Atalaya hemiglauca* and *Hakea lorea* subsp. *lorea*. Ground layer dominated by *Triodia pungens*. Occurs on Tertiary and Quaternary outwash sandplains, in places reworked by wind; deep loamy red earths. Not a Wetland. (BVG1M: 19b).

Short description: *Corymbia terminalis* low open woodland on sandy red earth plains

Supplementary descriptions:

Subregions: 1, (4.7)

Protected areas: Wiliyan-ngurru NP

Extent in reserves: Low

Wetland: Not a Wetland

Special values:

Comments: 1.5.17: This vegetation community was previously mapped as 1.5.7x1.

Estimated extent:¹ Pre-clearing 92000 ha; Remnant 2021 88000 ha

VM class: Least concern

Biodiversity status: No concern at present

Biodiversity status notes:

Regional ecosystem 1.5.18

Description: *Corymbia capricornia* low open woodland, often with *C. aparrerinja* and *Eucalyptus odontocarpa* with a ground layer of *Triodia pungens* and/or *Aristida hygrometrica*. Occurs on red sandy soils around low metamorphic hills with silcrete and ferricrete cover. Not a Wetland. (BVG1M: 19a).

Short description: *Corymbia capricornia* low open woodland on red sands around low metamorphic hills

Supplementary descriptions:

Subregions: 1, (4.7)

Protected areas:

Extent in reserves: No representation

Wetland: Not a Wetland

Special values:

Comments: 1.5.18: This vegetation community was previously mapped as 1.5.7x3.

Estimated extent:¹ Pre-clearing 10000 ha; Remnant 2021 10000 ha

VM class: Of concern

Biodiversity status: Of concern

Biodiversity status notes:

Regional ecosystem 1.5.19

Description: *Acacia georginae* and *Acacia aneura* low woodland. Associated species include *Atalaya hemiglauc*, *Acacia excelsa* subsp. *angusta*, *Eucalyptus victrix*, *Acacia sericophylla* and *Acacia cambagei*. Shrub layer of *Senna* spp. and *Eremophila* spp. Tussock grass ground layer dominated by *Aristida inaequiglumis*. Occurs on flat plains with deep sandy red earths and sandy surfaced texture contrast soils. Not a Wetland. (BVG1M: 26a).

Short description: *Acacia georginae* and *A. aneura* low woodland on sandy red plains

Supplementary descriptions:

Subregions: 1, 3, (4.7)

Protected areas:

Extent in reserves: No representation

Wetland: Not a Wetland

Special values:

Comments: 1.5.19: This vegetation community was previously mapped as 1.5.8.

Estimated extent:¹ Pre-clearing 134000 ha; Remnant 2021 132000 ha

VM class: Least concern

Biodiversity status: No concern at present

Biodiversity status notes:

Regional ecosystem 1.6.1

Description: Mixed forbland dominated by *Crotalaria novae-hollandiae*, *Trianthema pilosa*, *Aristida holathera*, *Eriachne* sp., *Corynotheca micrantha* var. *divaricata* and *Distimake davenportii* on linear dunes and associated sand plains. *Acacia stipuligera* is a feature of this community but comes and goes in response to fire. Occurs on relict sand dunes and associated aeolian sandplains. Not a Wetland. (BVG1M: 33a).

Short description: Mixed forbland with *Acacia stipuligera* on linear sand dunes and associated sandplains

Supplementary descriptions:

Subregions: 1, (4.7)

Protected areas:

Extent in reserves: No representation

Wetland: Not a Wetland

Special values:

Comments: 1.6.1: This vegetation community was previously mapped as 1.5.4x6.

Estimated extent:¹ Pre-clearing 3000 ha; Remnant 2021 3000 ha

VM class: Of concern

Biodiversity status: Of concern

Biodiversity status notes:

Regional ecosystem 1.7.1

Description: Low open woodland of *Eucalyptus leucophloia* and/or *Corymbia aspera* and/or *E. normantonensis* over *Triodia* spp. Occurs on lateritic surfaces and on silcrete. Not a Wetland. (BVG1M: 19a).

Vegetation communities in this regional ecosystem include:

- 1.7.1a: *Eucalyptus leucophloia* low open woodland. *E. normantonensis* may occur in the south of the bioregion. *Triodia* spp. ground layer. Occurs on lateritic surfaces and on silcrete. Not a Wetland. (BVG1M: 19a).
- 1.7.1b: [RE not in use]²: This vegetation community is now mapped as 1.7.5. Scalds or sparse annual forblands or sparse annual tussock grasslands. Occurs on exposed kaolinite. Not a Wetland. (BVG1M: 24a).
- 1.7.1c: [RE not in use]²: This vegetation community is now mapped as 1.7.3. *Triodia pungens* hummock grassland. Occurs on lateritic surfaces and on silcrete. Not a Wetland. (BVG1M: 19a).
- 1.7.1d: [RE not in use]²: This vegetation community is now mapped as 1.7.4. *Triodia brizoides* and/or *Triodia molesta* hummock grassland often with emergent shrubs of *Acacia* spp., *Senna* spp. and *Eremophila* spp. Occurs in scattered patches on eroded plateaus on skeletal soils formed largely on the exposed weathered zone. Not a Wetland. (BVG1M: 24a).
- 1.7.1e: *Eucalyptus leucophloia* low open woodland. An *Acacia* spp. shrub layer may be present. The ground layer is dominated by *Triodia pungens*. Occurs on silcrete overlying limestone. Not a Wetland. (BVG1M: 19a).
- 1.7.1f: [RE not in use]²: This vegetation community is now mapped as 1.5.3. Low open woodland to low woodland of *Eucalyptus leucophloia*, scattered shrub layer of *Acacia* spp. and a sparse ground layer of *Triodia pungens* and/or tussock grasses +/- treeless areas. Occurs on small patches of deeper soils on the edge of eroding tertiary surfaces. Not a Wetland. (BVG1M: 19a).
- 1.7.1g: [RE not in use]²: This vegetation community is now mapped as 1.7.5a. Low open forest of *Acacia shirleyi*. Occurs on the edge of eroding tertiary surfaces. Not a Wetland. (BVG1M: 24a).
- 1.7.1h: [RE not in use]²: This vegetation community is now mapped as 1.7.6. Low woodland of *Acacia shirleyi* with a shrub layer of *Acacia shirleyi* with a sparse mixed ground layer on red soil plains. Occurs on the edge of eroding tertiary surfaces. Not a Wetland. (BVG1M: 24a).
- 1.7.1i: [RE not in use]²: This vegetation community is now mapped as 1.9.5b. Open mallee shrubland of *Eucalyptus leucophylla* with a ground layer of *Triodia pungens*. Occurs on the edge of eroding tertiary surfaces. Not a Wetland. (BVG1M: 19b).
- 1.7.1j: [RE not in use]²: This vegetation community is now mapped as 1.7.1a. Low open woodland to low woodland of *Eucalyptus leucophloia* over a ground layer of *Triodia pungens* +/- tussock grasses. On limestone around the edge of eroding Tertiary surfaces. Not a Wetland. (BVG1M: 19a).
- 1.7.1k: [RE not in use]²: This vegetation community is now mapped as 1.9.4c. Low open woodland of *Corymbia terminalis* with a second tree layer of *Ventilago viminalis* and *Atalaya hemiglauc*a and with a mixed ground layer dominated by *Enneapogon polyphyllus* and/or *Aristida* spp. +/- sink holes. On limestone around the edge of eroding Tertiary surfaces. Not a Wetland. (BVG1M: 19a).
- 1.7.1x1: [RE not in use]²: This regional ecosystem is now mapped as 1.7.5. *Acacia shirleyi* low woodland to low open forest. Occurs on laterite. Not a Wetland. (BVG1M: 24a).
- 1.7.1x2: [RE not in use]²: This regional ecosystem is now mapped as 1.7.6. *Acacia shirleyi* low woodland with a shrub layer of *Acacia shirleyi* with a sparse mixed ground layer on red soil plains. Occurs on shallow soils overlying laterite. Not a Wetland. (BVG1M: 24a).
- 1.7.1x3: [RE not in use]²: This regional ecosystem is now mapped as 1.7.7. Low open woodland of *Corymbia capricornia*, often with *Eucalyptus leucophloia*. Mixed shrub layer usually including *Grevillea wickhamii*. Ground layer of *Triodia pungens* and *Schizachyrium fragile*. Occurs on silcrete. Not a Wetland. (BVG1M: 19a).
- 1.7.1x3a: [RE not in use]²: This vegetation community is now mapped as 1.7.7a. Low open woodland of *Corymbia capricornia*, often with *Eucalyptus leucophloia*. Mixed shrub layer usually including *Grevillea wickhamii*. Ground layer usually dominated *Triodia pungens*. Occurs on silcrete. Not a Wetland. (BVG1M: 19a).
- 1.7.1x3b: [RE not in use]²: This vegetation community is now mapped as 1.7.7b. *Corymbia capricornia* low open woodland often with *Eucalyptus miniata*, *Eucalyptus herbertiana*, *Eucalyptus leucophloia* and/or *Corymbia ferruginea* with a *Petalostigma quadriloculare* dominated shrub layer and ground layer of *Triodia bitextura* and tussock grasses. Occurs on silcrete. Not a Wetland. (BVG1M: 19a).
- 1.7.1x4: [RE not in use]²: This vegetation community is now mapped as 1.7.1e. Low open woodland of *Eucalyptus leucophloia* +/- *Acacia* spp. shrub layer and ground layer of *Triodia pungens*. Occurs on silcrete overlying limestone. Not a Wetland. (BVG1M: 19a).
- 1.7.1x5: [RE not in use]²: This vegetation community is now mapped as 1.7.7b. Low woodland of *Corymbia capricornia* often with *Eucalyptus miniata* and/or *Eucalyptus herbertiana* and/or *Eucalyptus leucophloia* and/or *Corymbia ferruginea* with a *Petalostigma quadriloculare* dominated shrub layer and ground layer of *Triodia bitextura* and tussock grasses. Occurs on silcrete. Not a Wetland. (BVG1M: 19a).

Short description: *Eucalyptus leucophloia* low open woodland on silcrete and lateritic surfaces

Supplementary descriptions:	Christian et al. (1954), Yelvertoft, Wonorah; Perry et al. (1964), Torwood; Neldner (1991), 30
Subregions:	2, 1, 3, (4), (2.2), (2.8), (4.3), (2.7), (4.7), (4.2)
Protected areas:	Boodjamulla (Lawn Hill) NP, Boodjamulla NP (Aboriginal Land), Lawn Hill (Stockyard Creek) RR, Wiliyan-ngurru NP, Lawn Hill (Lilydale) RR, Lawn Hill (Littles Range) RR, Lawn Hill (Widdallion) RR, Lawn Hill (Gregory) RR
Extent in reserves:	High
Wetland:	Not a Wetland
Special values:	1.7.1: Potential habitat for NCA listed species: <i>Solanum carduiforme</i> , <i>Trachymene glandulosa</i> .
Comments:	
Estimated extent: ¹	Pre-clearing 421000 ha; Remnant 2021 420000 ha
VM class:	Least concern
Biodiversity status:	No concern at present
Biodiversity status notes:	

Regional ecosystem 1.7.2

Description: *Eucalyptus pruinosa* low open woodland, often with *Eucalyptus leucophloia*. A shrub layer of *Acacia citriodora* may be present. Ground cover of *Triodia pungens* and tussock grasses. Occurs on eroded Tertiary surfaces. Not a Wetland. (BVG1M: 19c).

Vegetation communities in this regional ecosystem include:

1.7.2a: *Eucalyptus pruinosa* low open woodland, often with *Eucalyptus leucophloia*. A shrub layer of *Acacia citriodora* may be present. Ground cover of *Triodia pungens* and tussock grasses. Occurs on eroded Tertiary surfaces. Shallow red/brown earths overlying ferricrete. Not a Wetland. (BVG1M: 19c).

1.7.2b: [RE not in use]²: This vegetation community is now mapped as 1.5.13. *Lysiphyllum cunninghamii* low open woodland +/- *Eucalyptus pruinosa* subsp. *pruinosa* with scattered shrub layer of *Carissa lanceolata* and/or *Acacia* spp. And ground layer of tussock grasses. Occurs on eroded Tertiary surfaces; calcareous red-brown earths. Not a Wetland. (BVG1M: 19c).

1.7.2x1: [RE not in use]²: This vegetation community is now mapped as 1.7.7b. *Eucalyptus miniata* and/or *Corymbia capricornia* low open woodland +/- *Eucalyptus pruinosa* with a dense shrub layer of *Acacia calligera* and sparse mixed ground layer. Occurs on the edges of sandsheets overlying Tertiary surfaces. Not a Wetland. (BVG1M: 19c).

Short description:	<i>Eucalyptus pruinosa</i> +/- <i>Eucalyptus leucophloia</i> low open woodland on eroded Tertiary surfaces
Supplementary descriptions:	
Subregions:	1, (2), (3), (4.7)
Protected areas:	Wiliyan-ngurru NP
Extent in reserves:	Medium
Wetland:	Not a Wetland
Special values:	
Comments:	1.7.2: High total grazing pressure and spread of <i>*Cenchrus pennisetiformis</i> (Cloncurry buffel grass) are leading to changes in structure and floristics of native vegetation.
Estimated extent: ¹	Pre-clearing 63000 ha; Remnant 2021 63000 ha
VM class:	Least concern
Biodiversity status:	No concern at present
Biodiversity status notes:	

Regional ecosystem 1.7.3

Description: *Triodia pungens* hummock grassland on remnant lateritic surfaces. Occurs on ferricrete and on silcrete. Not a Wetland. (BVG1M: 33b).

Short description: *Triodia pungens* hummock grassland on ferricrete and on silcrete

Supplementary descriptions:

Subregions: 1, 2, 4.7

Protected areas:

Extent in reserves: No representation

Wetland: Not a Wetland

Special values:

Comments: 1.7.3: This vegetation community was previously mapped as 1.7.1c.

Estimated extent:¹ Pre-clearing 5000 ha; Remnant 2021 5000 ha

VM class: Of concern

Biodiversity status: Of concern

Biodiversity status notes:

Regional ecosystem 1.7.4

Description: *Triodia brizoides* and/or *Triodia molesta* hummock grassland often with emergent shrubs of *Acacia* spp., *Senna* spp. and *Eremophila* spp. Occurs on ferricrete and on silcrete in the south of the bioregion. Not a Wetland. (BVG1M: 33b).

Short description: *Triodia brizoides* and/or *T. molesta* hummock grassland on ferricrete and on silcrete

Supplementary descriptions:

Subregions: 3, (4.2)

Protected areas:

Extent in reserves: No representation

Wetland: Not a Wetland

Special values:

Comments: 1.7.4: This vegetation community was previously mapped as 1.7.1d.

Estimated extent:¹ Pre-clearing 6000 ha; Remnant 2021 6000 ha

VM class: Of concern

Biodiversity status: Of concern

Biodiversity status notes:

Regional ecosystem 1.7.5

Description: Acacia shirleyi low woodland to low open forest. Occurs on lateritic scarps and hills. Not a Wetland. (BVG1M: 24a).

Vegetation communities in this regional ecosystem include:

1.7.5a: Acacia shirleyi low woodland to low open forest. Occurs on lateritic scarps and hills. Not a Wetland. (BVG1M: 24a).

1.7.5b: Low woodland to open forest of Acacia shirleyi. Occurs on degraded remnants of ferricrete on metamorphic hills. Not a Wetland. (BVG1M: 24a).

Short description: Acacia shirleyi low woodland on lateritic scarps and hills

Supplementary descriptions:

Subregions: 3, 1, (2), (4), (2.2), (4.2), (4.3)

Protected areas: Boodjamulla (Lawn Hill) NP, Lawn Hill (Stockyard Creek) RR, Lawn Hill (Littles Range) RR, Lawn Hill (Arthur Creek) RR

Extent in reserves: Low

Wetland: Not a Wetland

Special values:

Comments: 1.7.5: This vegetation community was previously mapped as 1.7.1x1.
1.7.5a: This vegetation community was previously mapped as 1.7.1x1.
1.7.5b: This community occurs on hills that once had ferricrete capping which has now been stripped off. A cover of small to medium sized ferricrete rocks remains. This vegetation community was previously mapped as 1.11.2x8. Occurs on steep metamorphic hills mainly in the eastern portion of the Camooweal 1:250000 map sheet.

Estimated extent:¹ Pre-clearing 111000 ha; Remnant 2021 110000 ha

VM class: Least concern

Biodiversity status: No concern at present

Biodiversity status notes:

Regional ecosystem 1.7.6

Description: Acacia shirleyi low woodland with a shrub layer of Acacia shirleyi with a sparse mixed ground layer on red soil plains. Occurs on shallow soils overlying ferricrete. Not a Wetland. (BVG1M: 24a).

Short description: Acacia shirleyi low woodland on red soil plains overlying ferricrete

Supplementary descriptions:

Subregions: 1, 3, (2), (4)

Protected areas: Boodjamulla (Lawn Hill) NP, Lawn Hill (Stockyard Creek) RR

Extent in reserves: Low

Wetland: Not a Wetland

Special values:

Comments: 1.7.6: Occurs on sandy soils up to 50cm deep overlying laterite This vegetation community was previously mapped as 1.7.1x2.

Estimated extent:¹ Pre-clearing 12000 ha; Remnant 2021 12000 ha

VM class: Least concern

Biodiversity status: No concern at present

Biodiversity status notes:

Regional ecosystem 1.7.7

Description: Low open woodland of *Corymbia capricornia*, commonly with *Eucalyptus leucophloia*. *Eucalyptus miniata*, *Eucalyptus herbertiana* and *Corymbia ferruginea* are commonly present in the north. Mixed shrub layer usually including *Grevillea wickhamii*. Ground layer of *Triodia* spp. and *Schizachyrium fragile*. Occurs on silcrete. Not a Wetland. (BVG1M: 19a).

Vegetation communities in this regional ecosystem include:

1.7.7a: Low open woodland of *Corymbia capricornia*, often with *Eucalyptus leucophloia*. Mixed shrub layer usually including *Grevillea wickhamii*. Ground layer of *Triodia pungens* and/or *Triodia bitextura*. Occurs on silcrete. Not a Wetland. (BVG1M: 19a).

1.7.7b: *Corymbia capricornia* and/or *Eucalyptus miniata* low open woodland often with *Eucalyptus herbertiana*, *Eucalyptus leucophloia* and/or *Corymbia ferruginea*. *Eucalyptus tetrodonta* may be present in the far north. A second tree layer of *Terminalia canescens* may be present. The shrub layer is mixed and includes *Petalostigma quadriloculare*, *Grevillea dryandri*, *Terminalia canescens* and *Acacia calligera*. Ground layer of *Triodia* spp. and tussock grasses. Occurs on silcrete and lateritic surfaces. Not a Wetland. (BVG1M: 19a).

Short description: *Corymbia capricornia* +/- *Eucalyptus leucophloia* or *E. miniata* low open woodland on silcrete

Supplementary descriptions:

Subregions: 3, 4, 1, (2.7), (2.8), (2.2), (2), (4.7)

Protected areas: Boodjamulla (Lawn Hill) NP, Lawn Hill (Stockyard Creek) RR, Lawn Hill (Arthur Creek) RR, Lawn Hill (Littles Range) RR, Lawn Hill (Widdallion) RR, Boodjamulla NP (Aboriginal Land), Lawn Hill (Gorge Mouth) RR, Lawn Hill (Lilydale) RR

Extent in reserves: High

Wetland: Not a Wetland

Special values: 1.7.7: Potential habitat for NCA listed species: *Ipomoea antonschmidii*.

Comments: 1.7.7: This vegetation community was previously mapped as 1.7.1x3.
1.7.7a: This vegetation community was previously mapped as 1.7.1x3a. Widespread in high points in the landscape in the south and centre of the bioregion.
1.7.7b: This vegetation community was previously mapped as 1.7.1x3b. Occurs widely in the north of the bioregion particularly on silcrete or ferricrete capping on and adjacent to Proterozoic sandstone formations.

Estimated extent:¹ Pre-clearing 575000 ha; Remnant 2021 575000 ha

VM class: Least concern

Biodiversity status: No concern at present

Biodiversity status notes:

Regional ecosystem 1.9.1

Description: *Astrebala pectinata* and/or *Aristida latifolia* grassland, commonly with *Bothriochloa ewartiana*, *Eulalia aurea*, *Dichanthium* spp. and *Sarga* spp. Occasional trees include *Acacia* spp. and *Atalaya hemiglauc*a. Occurs on low hills and gently undulating to near-level plains on calcareous Cambrian sediments; grey or brown calcareous clays. Not a Wetland. (BVG1M: 30b).

Vegetation communities in this regional ecosystem include:

1.9.1a: [RE not in use]²: This vegetation community is now mapped as 1.9.1. *Aristida latifolia* and *Enneapogon* spp. with patches of *Eulalia aurea* and *Bothriochloa ewartiana*. Scattered trees of *Ventilago viminalis*, *Atalaya hemiglauc*a, *Denhamia oleaster*, *Owenia acidula*, *Lysiphyllum cunninghamii* and *Acacia cambagei* are common. Occurs on stony rises with shallower soils on limestone geologies. Not a Wetland. (BVG1M: 31b).

1.9.1b: [RE not in use]²: This vegetation community is now mapped as 1.9.1. *Astrebala pectinata* grassland wooded with *Vachellia sutherlandii*. Occurs on rises on downs. Not a Wetland. (BVG1M: 30b).

1.9.1c: [RE not in use]²: This vegetation community is now mapped as 1.9.11a. Low open woodland of *Lysiphyllum cunninghamii*, *Corymbia terminalis*, *Eucalyptus leucophylla* and *Ventilago viminalis* with ground layer of mixed tussock grasses. Includes treeless areas. Occurs close to the northern edge of the Barkly Tableland. Not a Wetland. (BVG1M: 27a).

1.9.1d: [RE not in use]²: This vegetation community is now mapped as 1.9.1. *Astrebala pectinata* (Mitchell grass) grassland, with *A. elymoides* in depressions and annual grasses on stony rises. Occasional trees include *Acacia* spp. And *Atalaya hemiglauc*a. *Eucalyptus microtheca* in depressions and along watercourses. Occurs on low hills and gently undulating to near-level plains on calcareous Cambrian sediments; grey or brown calcareous clays. Not a Wetland. (BVG1M: 30b).

1.9.1x1: [RE not in use]²: This regional ecosystem is now mapped as 1.9.9. *Acacia cambagei* low woodland on clays, usually with tussock grass ground layer including *Astrebala pectinata*. Occurs on self-mulching clays. Not a Wetland. (BVG1M: 26a).

1.9.1x2: [RE not in use]²: This vegetation community is now mapped as 1.5.4a. Low open woodland of *Corymbia terminalis* +/- *Eucalyptus pruinosa* subsp. *pruinosa* with a second tree layer of *Ventilago viminalis* and *Atalaya hemiglauc*a and with a mixed ground layer dominated by *Enneapogon polyphyllus* and/or *Aristida* spp. Occurs on stony rises with shallower soils on limestone geologies. Not a Wetland. (BVG1M: 19b).

1.9.1x3: [RE not in use]²: This vegetation community is now mapped as 1.7.1a. Tall shrubland of *Eucalyptus normantonensis* with a dense hummock grass ground layer of *Triodia longiceps*. Occurs on lithosols in stony hills. Not a Wetland. (BVG1M: 19b).

1.9.1x4: [RE not in use]²: This vegetation community is now mapped as 4.9.13b. *Senna artemisioides* subsp. *helmsii* shrubland often with *Senna artemisioides* subsp. *oligophylla*, *Acacia georginae*, *Acacia* spp., *Atalaya hemiglauc*a and *Eremophila* spp. Occurs on stony limestone rises. Not a Wetland. (BVG1M: 24b).

Short description: *Astrebala* spp. grassland on shallow clays on limestones

Supplementary descriptions: Christian et al. (1954), Thornton, Wonard, Neldner (1991), 44

Subregions: 2, 1, (3), (4.7)

Protected areas: Boodjamulla NP (Aboriginal Land)

Extent in reserves: Low

Wetland: Not a Wetland

Special values: 1.9.1: Includes caves and sinkholes that host significant breeding colonies of the ghost bat (*Macroderma gigas*) and the orange leafnosed-bat (*Rhinonictis aurantia*).
1.9.1d: Includes caves and sinkholes that host significant breeding colonies of the ghost bat (*Macroderma gigas*) and the orange leafnosed-bat (*Rhinonictis aurantia*).

Comments: 1.9.1: Outlier of Mitchell Grass Downs bioregion.
1.9.1d: Outlier of Mitchell Grass Downs bioregion.

Estimated extent:¹ Pre-clearing 10000 ha; Remnant 2021 10000 ha

VM class: Least concern

Biodiversity status: No concern at present

Biodiversity status notes:

Regional ecosystem 1.9.2

Description: [RE not in use]²: This regional ecosystem is now mapped in part as 1.9.4b and in part as 1.9.11c. Mixed shrubby woodland dominated by *Lysiphyllum cunninghamii* and *Brachychiton* spp. With *Corymbia terminalis* on lower slopes. Well-developed understorey of *Triodia* spp. Occurs on stony hills on Tertiary limestones; skeletal soils. Not a Wetland. (BVG1M: 27c).

Vegetation communities in this regional ecosystem include:

1.9.2a: [RE not in use]²: This vegetation community is now mapped as 1.9.11c. Low open woodland of *Eucalyptus leucophylla* over a ground layer of tussock grasses. Occurs on stony hills on Tertiary limestones; skeletal soils. Not a Wetland. (BVG1M: 19b).

1.9.2b: [RE not in use]²: This vegetation community is now mapped as 1.9.4b. Mixed shrubby woodland dominated by *Lysiphyllum cunninghamii* and *Brachychiton* spp. with *Corymbia terminalis* on lower slopes. Well-developed understorey of *Triodia* spp. Occurs on stony hills on Tertiary limestones; skeletal soils. Not a Wetland. (BVG1M: 27c).

Short description: Mixed shrubby woodland on low rocky hills on Tertiary limestones

Supplementary descriptions:

Subregions:

Protected areas:

Extent in reserves:

Wetland: Not a Wetland

Special values: 1.9.2: Internationally significant fossil deposits spanning a period otherwise poorly represented in the Australian fossil record.
1.9.2b: Internationally significant fossil deposits spanning a period otherwise poorly represented in the Australian fossil record.

Comments:

Estimated extent:¹

VM class: Of concern

Biodiversity status: Of concern

Biodiversity status notes:

Regional ecosystem 1.9.3

Description: [RE not in use]²: This regional ecosystem was never mapped. Low open woodland of *Eucalyptus leucophylla* (Cloncurry box) with *Triodia* spp. Understorey. Occurs on low hillocks formed on Mesozoic claystones; skeletal soils. Not a Wetland. (BVG1M: 19b).

Short description: *Eucalyptus leucophylla* low open woodland on hillocks on Mesozoic claystones

Supplementary descriptions:

Subregions:

Protected areas:

Extent in reserves:

Wetland: Not a Wetland

Special values:

Comments:

Estimated extent:¹

VM class: Of concern

Biodiversity status: Of concern

Biodiversity status notes:

Regional ecosystem 1.9.4

Description: Mixed shrubby woodland dominated by *Terminalia* spp., *Lysiphyllum cunninghamii* and *Corymbia terminalis*. Occurs on limestone landscapes with a lot of exposed rock; skeletal soils. Not a Wetland. (BVG1M: 27c).

Vegetation communities in this regional ecosystem include:

1.9.4a: [RE not in use]²: This vegetation community is now mapped as 1.9.10. Sink holes with low open forest of *Celtis strychnoides* and second tree layer of *Ficus* spp. Occurs around sinkholes in Cambrian limestone. Not a Wetland. (BVG1M: 27c).

1.9.4b: Mixed shrubby low open woodland dominated by *Terminalia aridicola*, *Lysiphyllum cunninghamii* and *Corymbia terminalis*. Occurs on rocky rounded hills on limestones; skeletal soils. Not a Wetland. (BVG1M: 27c).

1.9.4c: *Corymbia terminalis* open woodland with a second tree layer of *Eucalyptus leucophylla* and ground layer dominated by *Triodia pungens*. Occurs on rocky rounded hills on limestones; skeletal soils. Not a Wetland. (BVG1M: 19b).

1.9.4d: [RE not in use]²: This vegetation community is now mapped as 1.9.4b. Mixed shrubby woodland dominated by *Lysiphyllum cunninghamii* and *Brachychiton collinus* with *Corymbia terminalis* on lower slopes. Well-developed understorey of *Triodia* spp. Occurs on stony hills on Tertiary limestones; skeletal soils. Not a Wetland. (BVG1M: 27b).

1.9.4e: *Lysiphyllum cunninghamii*, *Diospyros humilis* and *Sersalisia sericea* low open woodland with mixed ground layer dominated by *Heteropogon contortus* and *Melhanianthus ovata*. Occurs on skeletal soils on siltstone and limestone hills in the far north of the bioregion. Not a Wetland. (BVG1M: 27c).

Short description: Mixed shrubby woodland on rocky limestone landscapes

Supplementary descriptions: Christian et al. (1954), Thornton, Redbank, Mount Isa

Subregions: 2, (3), (4), (2.2), (4.7)

Protected areas: Boodjamulla NP (Aboriginal Land), Boodjamulla (Lawn Hill) NP, Lawn Hill (Gregory) RR, Lawn Hill (Lilydale) RR, Lawn Hill (Littles Range) RR

Extent in reserves: High

Wetland: Not a Wetland

Special values: 1.9.4: Potential habitat for NCA listed species: *Ipomoea antonschmidii*.

Comments: 1.9.4e: Only known from the McDermott Formation in the far north of subregion 4. Very good with little grazing although vulnerable to hot fires.

Estimated extent:¹ Pre-clearing 314000 ha; Remnant 2021 313000 ha

VM class: Least concern

Biodiversity status: No concern at present

Biodiversity status notes:

Regional ecosystem 1.9.5

Description: *Eucalyptus leucophylla* low open woodland with a ground layer of *Triodia pungens*. Occurs on low hills on limestones and calcareous shales; calcareous desert soils, some calcareous red-brown earths and skeletal soils. Not a Wetland. (BVG1M: 19b).

Vegetation communities in this regional ecosystem include:

1.9.5a: [RE not in use]²: This vegetation community is now mapped as 1.9.11a. *Corymbia terminalis* and *Lysiphillum cunninghamii* low open woodland. *Senna* spp. shrub layer may be present. Mixed ground layer dominated by tussock grasses. Includes treeless areas. Occurs on skeletal soils on low stepped hills on Cambrian limestones. Not a Wetland. (BVG1M: 19b).

1.9.5b: *Eucalyptus leucophylla* open mallee shrubland with a ground layer of *Triodia pungens*. Occurs on shallow soils overlying limestone. Not a Wetland. (BVG1M: 19b).

1.9.5c: [RE not in use]²: This vegetation community is now mapped as 1.9.12. Hummock grassland of *Triodia pungens* +/- tussock grasses +/- emergent *Corymbia terminalis* and *Eucalyptus leucophylla*. Occurs on shallow soils overlying limestone. Not a Wetland. (BVG1M: 19b).

1.9.5d: [RE not in use]²: This vegetation community is now mapped in part as 1.9.11b and in part as 1.9.11c. Mixed low open woodland including *Eucalyptus leucophylla*, *Eucalyptus pruinosa*, *Eucalyptus leucophloia*, *Corymbia terminalis* and *Ventilago viminalis* over a mixed ground layer of tussock and *Triodia pungens* with occasional shrubs of *Senna* spp. And *Acacia* spp. Occurs on low hills on limestones and calcareous shales; calcareous desert soils, some calcareous red-brown earths and skeletal soils. Not a Wetland. (BVG1M: 19b).

1.9.5e: [RE not in use]²: This vegetation community is now mapped as 1.9.11c. *Eucalyptus leucophylla* low open woodland over a ground layer of tussock grasses. Occurs on stony hills on Tertiary limestones; skeletal soils. Not a Wetland. (BVG1M: 19b).

1.9.5x1: [RE not in use]²: This regional ecosystem is now mapped as 1.9.12. *Triodia pungens* hummock grassland. Tussock grasses may be present. Emergent *Corymbia terminalis* and *Eucalyptus leucophylla* may occur. Occurs on shallow soils overlying limestone. Not a Wetland. (BVG1M: 19b).

Short description: *Eucalyptus leucophylla* low open woodland on limestone

Supplementary descriptions: Christian et al. (1954), Thornton, Redbank

Subregions: 2, 1, (4), (3), (4.7)

Protected areas: Boodjamulla NP (Aboriginal Land), Lawn Hill (Littles Range) RR

Extent in reserves: Low

Wetland: Not a Wetland

Special values:

Comments: 1.9.5b: Almost all trees of *Eucalyptus leucophylla* multistemmed from the base ie. mallee form. Very extensive community in subregion 2.

Estimated extent:¹ Pre-clearing 75000 ha; Remnant 2021 75000 ha

VM class: Least concern

Biodiversity status: No concern at present

Biodiversity status notes:

Regional ecosystem 1.9.6

Description: [RE not in use]²: This regional ecosystem is now mapped in part as 1.7.1a and in part as 4.9.12x4. Low woodlands and open woodlands of *Eucalyptus leucophloia* (snappy gum) +/- *Corymbia terminalis* (bloodwood) over a *Triodia* spp. Understorey. *Eucalyptus leucophylla* may be present on more gently sloping areas and *Eucalyptus pruinosa* subsp. *Pruinosa*, *Lysiphyllum cunninghamii* or *Corymbia aparrerinja* on colluvial areas. Occasional shrubs and low trees include *Terminalia canescens*, *Petalostigma pubescens* and *Atalaya hemiglauc*. *Corymbia terminalis* may be dominant on chert ridges. Occurs on hills on Cambrian limestones and dolomites; shallow loams, calcareous red-brown earths and skeletal soils. Not a Wetland. (BVG1M: 19a).

Vegetation communities in this regional ecosystem include:

1.9.6a: [RE not in use]²: This vegetation community is now mapped as 1.7.1a. Low woodlands and open woodlands of *Eucalyptus leucophloia* (snappy gum) +/- *Corymbia terminalis* (bloodwood) over a *Triodia* spp. Understorey. *Eucalyptus leucophylla* may be present on more gently sloping areas and *Eucalyptus pruinosa* subsp. *pruinosa*, *Lysiphyllum cunninghamii* or *Corymbia aparrerinja* on colluvial areas. Occasional shrubs and low trees include *Terminalia canescens*, *Petalostigma pubescens* and *Atalaya hemiglauc*. *Corymbia terminalis* may be dominant on chert ridges. Occurs on hills on Cambrian limestones and dolomites; shallow loams, calcareous red-brown earths and skeletal soils. Not a Wetland. (BVG1M: 19a).

1.9.6b: [RE not in use]²: This vegetation community is now mapped as 4.9.13c. Low open woodland of *Eucalyptus pruinosa* subsp. *pruinosa* and/or *Atalaya hemiglauc*. *Ventilago viminalis*, *Corymbia* spp. and *Acacia cambagei* are often present. Occurs on gently undulating landscapes with light clay soils. Not a Wetland. (BVG1M: 19c).

Short description: *Eucalyptus leucophloia* and *Corymbia terminalis* low open woodland on limestone hills

Supplementary descriptions: Christian et al. (1954), Thornton

Subregions:

Protected areas:

Extent in reserves:

Wetland: Not a Wetland

Special values:

Comments:

Estimated extent:¹

VM class: Least concern

Biodiversity status: No concern at present

Biodiversity status notes:

Regional ecosystem 1.9.7

Description: *Eucalyptus pruinosa* low open woodland. Sparse shrub layer of *Acacia* spp. *Triodia pungens* ground layer. Occurs on hills on pre-Cambrian shales; skeletal soils, some shallow loams. Not a Wetland. (BVG1M: 19c).

Vegetation communities in this regional ecosystem include:

1.9.7a: [RE not in use]²: This vegetation community is now mapped as 1.9.13. *Eucalyptus leucophloia* low open woodland with a variable shrub layer of *Acacia* spp., often *Acacia hilliana* or *Acacia phlebocarpa*, over ground cover of *Triodia pungens*. Occurs on hills on pre-Cambrian shales; skeletal soils, some shallow loams. Not a Wetland. (BVG1M: 19a).

1.9.7b: [RE not in use]²: This vegetation community is now mapped as 1.9.14. *Eucalyptus pruinosa* low open woodland. Sparse shrub layer of *Acacia* spp. *Triodia pungens* ground layer. Occurs on hills on pre-Cambrian shales; skeletal soils, some shallow loams. Not a Wetland. (BVG1M: 19c).

1.9.7c: [RE not in use]²: This vegetation community is now mapped as 1.9.7. *Corymbia terminalis* woodland often with *Eucalyptus leucophloia* or *Eucalyptus pruinosa*. Occurs on hills on pre-Cambrian sediments in the north of the bioregion. Not a Wetland. (BVG1M: 19b).

Short description: *Eucalyptus pruinosa* low open woodland on shale hills

Supplementary descriptions: Christian et al. (1954), Mount Isa, Redbank

Subregions: 4, 2.7

Protected areas:

Extent in reserves: No representation

Wetland: Not a Wetland

Special values:

Comments:

Estimated extent:¹ Pre-clearing 1000 ha; Remnant 2021 1000 ha

VM class: Of concern

Biodiversity status: Of concern

Biodiversity status notes:

Regional ecosystem 1.9.8

Description: Spring wetlands. Occurs on undeformed fine-grained sedimentary rock (limestone). Palustrine. (BVG1M: 34e).

Short description: Spring wetlands on undeformed fine-grained sedimentary rock

Supplementary descriptions: Drysdale et al. (1998); Fensham et al. (2004)

Subregions:

Protected areas:

Extent in reserves:

Wetland: Palustrine

Special values: 1.9.8: Potentially significant refugia for remote plant populations and near threatened flora.

Comments: 1.9.8: The biological values are poorly known. Some springs impacted by stock disturbance.

Estimated extent:¹

VM class: Of concern

Biodiversity status: Of concern

Biodiversity status notes:

Regional ecosystem 1.9.9

Description: *Acacia cambagei* low woodland on clays, usually with tussock grass ground layer including *Astrebla pectinata*. Occurs on self-mulching clays developed on Cambrian limestones. Not a Wetland. (BVG1M: 26a).

Short description: *Acacia cambagei* low woodland on clays developed on Cambrian limestones

Supplementary descriptions:

Subregions: 1, 2, 2.8, 3, (4.7), (4.2)

Protected areas:

Extent in reserves: No representation

Wetland: Not a Wetland

Special values:

Comments: 1.9.9: This vegetation community was previously mapped as 1.9.1x1.

Estimated extent:¹ Pre-clearing 5000 ha; Remnant 2021 5000 ha

VM class: Of concern

Biodiversity status: Of concern

Biodiversity status notes:

Regional ecosystem 1.9.10

Description: Sinkholes with low woodland of *Celtis strychnoides* and second tree layer of *Ficus* spp. Occurs around sinkholes in Cambrian limestone. Not a Wetland. (BVG1M: 27c).

Short description: Sinkholes with low woodland of *Celtis strychnoides* and *Ficus* spp.

Supplementary descriptions:

Subregions: 1, 2

Protected areas: Wiliyan-ngurru NP

Extent in reserves: High

Wetland: Not a Wetland

Special values: 1.9.10: Habitat for *Macroderma gigas* (ghost bat) and *Rhinonicteris aurantia* (orange leaf-nosed bat).

Comments: 1.9.10: This vegetation community was previously mapped as 1.9.4a.

Estimated extent:¹ Pre-clearing 20 ha; Remnant 2021 20 ha

VM class: Of concern

Biodiversity status: Of concern

Biodiversity status notes:

Regional ecosystem 1.9.11

Description: *Corymbia terminalis* and/or *Eucalyptus leucophylla* and/or *Lysiphyllum cunninghamii* low open woodland. *Eucalyptus pruinosa*, *Ventilago viminalis* and *Eucalyptus leucophloia* occasionally occur. *Senna* spp. shrub layer may be present. Mixed ground layer dominated by *Triodia pungens* and/or tussock grasses. Includes treeless areas. Occurs on skeletal and shallow soils on limestones; stepped hills; margins of clay plains. Not a Wetland. (BVG1M: 19b).

Vegetation communities in this regional ecosystem include:

1.9.11a: *Corymbia terminalis* and *Lysiphyllum cunninghamii* low open woodland. *Senna* spp. shrub layer may be present. Mixed ground layer dominated by tussock grasses. Includes treeless areas. Occurs on skeletal soils on low stepped hills on Cambrian limestones. Not a Wetland. (BVG1M: 19b).

1.9.11b: Mixed low open woodland including *Eucalyptus leucophylla*, *Corymbia terminalis*, *Eucalyptus pruinosa*, *Eucalyptus leucophloia*, *Lysiphyllum cunninghamii* and *Ventilago viminalis*. Sparse shrub layer of *Senna* spp. and *Acacia* spp. Mixed ground layer of tussock grasses and *Triodia pungens*. Occurs on margins of clay plains which are being incised by creeks cutting into the underlying limestone. Not a Wetland. (BVG1M: 19b).

1.9.11c: *Eucalyptus leucophylla* low open woodland, commonly with *Corymbia terminalis*. Ground layer of *Triodia pungens* and/or tussock grasses. Occurs on skeletal soils on limestones. Not a Wetland. (BVG1M: 19b).

Short description: *Corymbia terminalis* and/or *Eucalyptus leucophylla* and/or *Lysiphyllum cunninghamii* low open woodland on limestone

Supplementary descriptions:

Subregions: 2, 4.7, (1), (3), (2.2)

Protected areas: Boodjamulla NP (Aboriginal Land), Boodjamulla (Lawn Hill) NP, Lawn Hill (Gregory) RR

Extent in reserves: Low

Wetland: Not a Wetland

Special values:

Comments: 1.9.11: This vegetation community was previously mapped as 1.9.5a, 1.9.5d and 1.9.5e.
1.9.11a: This vegetation community was previously mapped as 1.9.5a.
1.9.11b: This vegetation community was previously mapped as 1.9.5d.
1.9.11c: This vegetation community was previously mapped in part as 1.9.5d and in part as 1.9.5e.

Estimated extent:¹ Pre-clearing 81000 ha; Remnant 2021 80000 ha

VM class: Least concern

Biodiversity status: No concern at present

Biodiversity status notes:

Regional ecosystem 1.9.12

Description: *Triodia pungens* hummock grassland. Tussock grasses may be present. Emergent *Corymbia terminalis* and *Eucalyptus leucophylla* may occur. Occurs on shallow soils overlying Cambrian limestones. Not a Wetland. (BVG1M: 33b).

Short description: *Triodia pungens* hummock grassland on Cambrian limestones

Supplementary descriptions:

Subregions: 2, (1)

Protected areas: Boodjamulla NP (Aboriginal Land)

Extent in reserves: Low

Wetland: Not a Wetland

Special values:

Comments: 1.9.12: This vegetation community was previously mapped as 1.9.5x1.

Estimated extent:¹ Pre-clearing 8000 ha; Remnant 2021 8000 ha

VM class: Of concern

Biodiversity status: Of concern

Biodiversity status notes:

Regional ecosystem 1.9.13

Description: Eucalyptus leucophloia low open woodland with a variable shrub layer of Acacia spp., often Acacia hilliana or Acacia phlebocarpa. Ground layer of Triodia pungens. Occurs on hills on pre-Cambrian shales. Not a Wetland. (BVG1M: 19a).

Short description: Eucalyptus leucophloia low open woodland on shale hills

Supplementary descriptions:

Subregions: 4, (2.7), (2.2), (2)

Protected areas: Boodjamulla (Lawn Hill) NP, Lawn Hill (Littles Range) RR, Lawn Hill (Arthur Creek) RR, Lawn Hill (Stockyard Creek) RR

Extent in reserves: High

Wetland: Not a Wetland

Special values:

Comments: 1.9.13: This vegetation community was previously mapped as 1.9.7a. Occurs exclusively in sub-region 4.

Estimated extent:¹ Pre-clearing 58000 ha; Remnant 2021 58000 ha

VM class: Least concern

Biodiversity status: No concern at present

Biodiversity status notes:

Regional ecosystem 1.9.14

Description: Triodia pungens hummock grassland with emergent Eucalyptus pruinosa and occasional Eucalyptus leucophloia. Occurs on hills on pre-Cambrian shales. Not a Wetland. (BVG1M: 33b).

Short description: Triodia pungens hummock grassland with emergent Eucalyptus pruinosa on Precambrian shales

Supplementary descriptions:

Subregions: 4, (2.7), (2.2)

Protected areas: Boodjamulla (Lawn Hill) NP, Lawn Hill (Littles Range) RR, Lawn Hill (Stockyard Creek) RR, Lawn Hill (Arthur Creek) RR

Extent in reserves: High

Wetland: Not a Wetland

Special values:

Comments: 1.9.14: This vegetation community was previously mapped as 1.9.7b. Occurs exclusively in sub-region 4.

Estimated extent:¹ Pre-clearing 23000 ha; Remnant 2021 23000 ha

VM class: Least concern

Biodiversity status: No concern at present

Biodiversity status notes:

Regional ecosystem 1.10.1

Description: [RE not in use]²: This regional ecosystem is now mapped as 1.10.3x2. Shrubby low open woodland of *Corymbia capricornia*. Occasional *C. aspera* and *Terminalia aridicola*. Acacias usually prominent. Ground cover of *Triodia* spp. and annual grasses. Occurs on residual plateaus and scarps on horizontal or gently deformed sandstones and conglomerates; skeletal soils, minor shallow sands. Not a Wetland. (BVG1M: 19a).

Vegetation communities in this regional ecosystem include:

1.10.1x1: [RE not in use]²: This vegetation community is now mapped as 1.7.7b. Low open woodland of *Corymbia capricornia* and/or *Eucalyptus leucophloia* with a sparse mixed shrub layer and ground layer dominated by *Triodia pungens* and/or *Triodia bitextura*. Occurs on residual plateaus and scarps on horizontal or gently deformed Mesozoic sandstones and conglomerates; skeletal soils, minor shallow sands. Not a Wetland. (BVG1M: 19a).

Short description: *Corymbia capricornia* low open woodland on sandstone plateaus

Supplementary descriptions: Christian et al. (1954), Mount Isa, Redbank, Robinson, Wonorah; Perry et al. (1964), Torwood

Subregions:

Protected areas:

Extent in reserves:

Wetland: Not a Wetland

Special values:

Comments:

Estimated extent:¹

VM class: Least concern

Biodiversity status: No concern at present

Biodiversity status notes:

Regional ecosystem 1.10.2

Description: *Eucalyptus miniata* woodland, usually with *Corymbia aspera*, *Eucalyptus herbertiana*, *C. capricornia*, *Owenia vernicosa* and *Acacia plectocarpa* subsp. *tanumbirinis*. *Melaleuca* spp. often present where drainage restricted. *Triodia* spp. understorey. Occurs on plateaus on pre-Cambrian sandstones and conglomerates, and on interbedded acid volcanics; shallow gravels and sands and skeletal soils. Not a Wetland. (BVG1M: 14b).

Vegetation communities in this regional ecosystem include:

1.10.2x1: [RE not in use]²: This regional ecosystem is now mapped as 1.10.9. *Acacia* spp. and/or *Calytrix exstipulata* open shrubland on exposed rock with emergent *Corymbia aspera* and/or *Eucalyptus herbertiana* and ground layer of *Triodia* spp. Occurs on exposed rock on plateau edges of pre-Cambrian sandstones and conglomerates. Not a Wetland. (BVG1M: 14b).

Short description: *Eucalyptus miniata* woodland on sandstone plateaus

Supplementary descriptions: Christian et al. (1954), Robinson, Redbank

Subregions: 4, 2.7, (2.2)

Protected areas: Lawn Hill (Stockyard Creek) RR, Lawn Hill (Arthur Creek) RR, Boodjamulla (Lawn Hill) NP, Lawn Hill (Widdallion) RR, Boodjamulla NP (Aboriginal Land), Lawn Hill (Gorge Mouth) RR

Extent in reserves: Medium

Wetland: Not a Wetland

Special values:

Comments:

Estimated extent:¹ Pre-clearing 28000 ha; Remnant 2021 28000 ha

VM class: Least concern

Biodiversity status: No concern at present

Biodiversity status notes:

Regional ecosystem 1.10.3

Description: *Corymbia aspera* low open woodland with occasional *Gardenia pyriformis*, *Calytrix exstipulata*, *Buchanania obovata*, *Cochlospermum fraseri*, *Eucalyptus miniata*, *Erythroxylum ellipticum*, *Ficus* spp., *Petalostigma banksii*, *Grevillea* spp., *Acacia* spp. and in the north, *Eucalyptus herbertiana* and *Livistona rigida*. Ground cover predominantly *Triodia* spp. between bare rock. Occurs on rugged stony hills on pre-Cambrian sediments and interbedded acid volcanics; rock outcrop and skeletal soils. Not a Wetland. (BVG1M: 27c).

Vegetation communities in this regional ecosystem include:

1.10.3x1: Mixed woodland which may include *Erythrophleum chlorostachys*, *Lysiphyllum cunninghamii*, *Corymbia capricornia*, *Corymbia grandifolia*, *Eucalyptus miniata*, *Eucalyptus leucophloia* and *Eucalyptus chlorophylla*. A second tree layer of *Terminalia canescens* is consistently present. The ground layer is dominated by *Triodia* spp. Occurs on outliers of rugged stony hills on pre-Cambrian sediments occurring around the margins of subregion 4. Not a Wetland. (BVG1M: 27c).

1.10.3x2: Shrubby low open woodland of *Corymbia capricornia*. Occasional *C. aspera* and *Terminalia aridicola*. Acacias usually prominent. Ground cover of *Triodia* spp. And annual grasses. Occurs on residual plateaus and scarps on horizontal or gently deformed sandstones and conglomerates; skeletal soils, minor shallow sands. Not a Wetland. (BVG1M: 19a).

Short description: *Corymbia aspera* low open woodland on rocky soils

Supplementary descriptions: Christian et al. (1954), Robinson

Subregions: 4, 2.7, (2.2), (2)

Protected areas: Lawn Hill (Arthur Creek) RR, Boodjamulla (Lawn Hill) NP, Lawn Hill (Stockyard Creek) RR, Lawn Hill (Widdallion) RR, Boodjamulla NP (Aboriginal Land), Lawn Hill (Gorge Mouth) RR, Lawn Hill (Littles Range) RR

Extent in reserves: High

Wetland: Not a Wetland

Special values: 1.10.3: Potential habitat for NCA listed species: *Solanum carduiforme*.

Comments: 1.10.3x1: The tree layer of this community is extremely variable. Occurs on small outliers of Proterozoic sandstone outcropping in the Gulf Plains bioregion around the margins of subregion 4.
1.10.3x2: This vegetation community was previously mapped as 1.10.1.

Estimated extent:¹ Pre-clearing 47000 ha; Remnant 2021 47000 ha

VM class: Least concern

Biodiversity status: No concern at present

Biodiversity status notes:

Regional ecosystem 1.10.4

Description: *Eucalyptus leucophloia* low open woodland. Mixed shrub layer commonly dominated by *Acacia* spp. Ground cover of *Triodia* spp. and annual grasses. Occurs on skeletal soils on sandstone plateaus. Not a Wetland. (BVG1M: 19a).

Vegetation communities in this regional ecosystem include:

1.10.4a: *Eucalyptus leucophloia* low open woodland. *Acacias* usually prominent, forming shrublands in the far south. Ground cover of *Triodia* spp. and annual grasses. Occurs on near horizontally bedded sandstones and conglomerates; skeletal soils. Not a Wetland. (BVG1M: 19a).

1.10.4b: *Eucalyptus leucophloia* low open woodland over *Triodia* spp. or annual grasses. Occasional *Eucalyptus pruinosa* and *C. grandifolia* and *Melaleuca viridiflora* on lower slopes. Sparse low shrubs include *Acacia* spp., *Grevillea dryandri*, *Terminalia canescens* and *Petalostigma quadriloculare*. *Terminalia bursarina* on creek lines. Occurs on rocky hills on pre-Cambrian sediments and interbedded acid volcanics; skeletal soils, shallow earthy sands. Not a Wetland. (BVG1M: 19a).

Short description: *Eucalyptus leucophloia* low open woodland on sandstone plateaus

Supplementary descriptions: Christian et al. (1954), Wonorah; Neldner (1991), part 16, part 39; Perry et al. (1964), Torwood

Subregions: 3, 4, (2.7), (2.2), (1), (2.8), (4.3), (2), (4.2)

Protected areas: Boodjamulla (Lawn Hill) NP, Lawn Hill (Littles Range) RR, Lawn Hill (Arthur Creek) RR, Lawn Hill (Stockyard Creek) RR, Lawn Hill (Gorge Mouth) RR, Boodjamulla NP (Aboriginal Land), Lawn Hill (Widdallion) RR

Extent in reserves: High

Wetland: Not a Wetland

Special values: 1.10.4: Potential habitat for NCA listed species: *Trachymene glandulosa*.

Comments: 1.10.4a: Dominance by *Acacia* spp. is ephemeral and related to fire history.

Estimated extent:¹ Pre-clearing 55000 ha; Remnant 2021 54000 ha

VM class: Least concern

Biodiversity status: No concern at present

Biodiversity status notes:

Regional ecosystem 1.10.5

Description: [RE not in use]²: This regional ecosystem is now mapped as 1.7.5a. *Acacia shirleyi* open forest. Occurs on residual plateaus on sandstones; skeletal soils and shallow red earths. Not a Wetland. (BVG1M: 24a).

Short description: *Acacia shirleyi* open forest on skeletal soils and earths on sandstone plateaus

Supplementary descriptions: Christian et al. (1954), Wonorah, Yelvertoft; Perry et al. (1964), Torwood

Subregions:

Protected areas:

Extent in reserves:

Wetland: Not a Wetland

Special values:

Comments:

Estimated extent:¹

VM class: Least concern

Biodiversity status: No concern at present

Biodiversity status notes:

Regional ecosystem 1.10.6

Description: Associated vegetation includes open forest of *Corymbia ptychocarpa* subsp. *ptychocarpa*, with *Melaleuca viridiflora*, *M. leucadendra*, *Syzygium angophoroides*, *Acacia holosericea*, *Pandanus aquaticus*, *Melastoma malabathricum*, *Boronia lanceolata*, *Sersalisia sericea*, *Alphitonia* spp. and *Antidesma parvifolium*. Occurs on springs mostly associated with quartzose sandstone. Palustrine. (BVG1M: 34e).

Short description: Springs mostly associated with quartzose sandstone

Supplementary descriptions: Christian et al. (1954), Robinson; Drysdale et al. (1998); Fensham et al. (2004)

Subregions: 4, (2.7), (2.2)

Protected areas: Boodjamulla (Lawn Hill) NP, Lawn Hill (Stockyard Creek) RR, Lawn Hill (Arthur Creek) RR, Lawn Hill (Widdallion) RR, Lawn Hill (Littles Range) RR, Lawn Hill (Gorge Mouth) RR

Extent in reserves: High

Wetland: Palustrine

Special values: 1.10.6: Regionally significant refugia for remote plant populations.

Comments: 1.10.6: Fire protection required. Impacted by stock trampling.

Estimated extent:¹ Pre-clearing 2000 ha; Remnant 2021 2000 ha

VM class: Of concern

Biodiversity status: Of concern

Biodiversity status notes:

Regional ecosystem 1.10.7

Description: [RE not in use]²: This regional ecosystem is now mapped as 1.10.4b. *Eucalyptus leucophloia* low open woodland over *Triodia* spp. Or annual grasses. Occasional *Eucalyptus pruinosa* or *Corymbia capricornia* on upper slopes and *C. grandifolia* subsp. *Grandifolia* and *Melaleuca viridiflora* on lower slopes. Sparse low shrubs include *Acacia* spp., *Grevillea dryandri*, *Terminalia canescens* and *Petalostigma pubescens*. *Terminalia bursarina* on creek lines. Occurs on rocky hills on pre-Cambrian sediments and interbedded acid volcanics; skeletal soils, shallow earthy sands. Not a Wetland. (BVG1M: 19a).

Short description: *Eucalyptus leucophloia* and *Corymbia grandifolia* subsp. *grandifolia* low open woodland on stony low hills and colluvium

Supplementary descriptions: Christian et al. (1954), Mount Isa, Robinson, Redbank

Subregions:

Protected areas:

Extent in reserves:

Wetland: Not a Wetland

Special values:

Comments:

Estimated extent:¹

VM class: Least concern

Biodiversity status: No concern at present

Biodiversity status notes:

Regional ecosystem 1.10.8

Description: [RE not in use]²: This regional ecosystem was never mapped. This community occurs on LZ9 closely adjoining LZ10. Open woodland of *Eucalyptus pruinosa* subsp. *Pruinosa* (silver-leaved box), with *Melaleuca viridiflora* and occasional *Corymbia grandifolia* subsp. *Grandifolia* subsp. *Grandifolia*, *C. confertiflora* and *Grevillea striata*. Usually shrubby understorey. Ground cover of *Triodia* spp. And annual grasses. Occurs on slopes below pre-Cambrian sandstones; shallow yellow podzolics. Not a Wetland. (BVG1M: 19c).

Short description: *Eucalyptus pruinosa* subsp. *pruinosa* open woodland on slopes adjoining sandstone plateaus

Supplementary descriptions: Christian et al. (1954), Mount Isa

Subregions:

Protected areas:

Extent in reserves:

Wetland: Not a Wetland

Special values:

Comments: 1.10.8: Areas of scalding due to high total grazing pressure.

Estimated extent:¹

VM class: Least concern

Biodiversity status: No concern at present

Biodiversity status notes:

Regional ecosystem 1.10.9

Description: *Acacia* spp. and/or *Calytrix exstipulata* open shrubland on rock pavement with emergent *Corymbia aspera* and/or *Eucalyptus herbertiana* and ground layer of *Triodia* spp. Occurs on exposed rock on plateau edges of pre-Cambrian sandstones and conglomerates. Not a Wetland. (BVG1M: 29b).

Short description: *Acacia* spp. and/or *Calytrix exstipulata* open shrubland on rock pavement

Supplementary descriptions:

Subregions: 4, (2.7)

Protected areas: Lawn Hill (Stockyard Creek) RR, Boodjamulla (Lawn Hill) NP

Extent in reserves: Medium

Wetland: Not a Wetland

Special values:

Comments: 1.10.9: This vegetation community was previously mapped as 1.10.2x1.

Estimated extent:¹ Pre-clearing 9000 ha; Remnant 2021 9000 ha

VM class: Of concern

Biodiversity status: Of concern

Biodiversity status notes:

Regional ecosystem 1.11.1

Description: [RE not in use]²: This regional ecosystem was never mapped. Shrubby woodland of *Terminalia* spp., *Lysiphyllum cunninghamii* and *Cochlospermum fraseri*. Occurs on outcrop on hills on strongly deformed calcareous pre-Cambrian sediments; skeletal soils. Not a Wetland. (BVG1M: 27b).

Vegetation communities in this regional ecosystem include:

1.11.1x1: [RE not in use]²: This regional ecosystem is now mapped as 1.11.6. *Corymbia terminalis* and *Lysiphyllum cunninghamii* low open woodland with a mixed shrub layer and ground layer of *Enneapogon* spp. Occurs on outcrop on hills on strongly deformed calcareous pre-Cambrian sediments; skeletal soils. Not a Wetland. (BVG1M: 27c).

Short description: Mixed shrubby woodland on folded limestones

Supplementary descriptions: Christian et al. (1954), Mount Isa

Subregions:

Protected areas:

Extent in reserves:

Wetland: Not a Wetland

Special values:

Comments:

Estimated extent:¹

VM class: Least concern

Biodiversity status: No concern at present

Biodiversity status notes:

Regional ecosystem 1.11.2

Description: *Eucalyptus leucophloia* low open woodland or low woodland, sometimes with *Eucalyptus leucophylla*, *Corymbia terminalis*, *Corymbia aparrerinja* or *Eucalyptus normantonensis* usually with a *Acacia* spp. dominated shrub layer and *Triodia* spp. and/or tussock grass understorey. Treeless areas common. Occurs on hills and ranges on strongly folded metamorphic pre-Cambrian rocks; soils skeletal, some red earths. Not a Wetland. (BVG1M: 19a).

Vegetation communities in this regional ecosystem include:

1.11.2a: *Eucalyptus leucophloia* low open woodland often with *Corymbia terminalis*, *Corymbia capricornia*, *Terminalia aridicola* and *Eucalyptus leucophylla* with shrub layer of *Acacia* spp. and ground layer of *Triodia* spp. Occurs on steep hills and strike ridges. Not a Wetland. (BVG1M: 19a).

1.11.2d: [RE not in use]²: This vegetation community is now mapped as 1.11.2a. Low open woodland of *Eucalyptus leucophloia* often with *E. leucophylla*, *Corymbia* spp., *Terminalia aridicola* and/or *Brachychiton collinus* on rock outcrops with a very sparse shrub layer of *Acacia* spp. and a sparse to very sparse ground layer of *Triodia pungens*. Occurs on steep rocky slopes and crests on metamorphosed igneous rocks. Not a Wetland. (BVG1M: 19a).

1.11.2e: [RE not in use]²: This vegetation community is now mapped as 1.11.3a. Low open woodland of *Eucalyptus leucophylla* and *E. leucophloia* often with *Acacia cambagei* and *Corymbia terminalis* with a sparse ground layer of *Triodia pungens* and/or *Triodia longiceps*. Occurs on footslopes and lower slopes, broken by creeks and drainages. Not a Wetland. (BVG1M: 19b).

1.11.2f: [RE not in use]²: This vegetation community is now mapped as 1.11.2a. Low open woodland of *Eucalyptus leucophloia* and/or *Corymbia capricornia* and/or *Eucalyptus pruinosa* subsp. *pruinosa* and/or *Corymbia grandifolia* subsp. *grandifolia* over a ground layer of tussock grasses and *Triodia pungens*. Low hills in far north of bioregion. Not a Wetland. (BVG1M: 19a).

1.11.2g: [RE not in use]²: This vegetation community is now mapped as 1.11.12. *Triodia pungens* hummock grassland with emergent trees including *Eucalyptus leucophloia*, *Eucalyptus pruinosa* subsp. *pruinosa*, *Corymbia grandifolia* subsp. *grandifolia*, *Atalaya hemiglaucula* and *Terminalia canescens*. Occurs on hills and ranges on strongly folded metamorphic pre-Cambrian rocks; soils skeletal. Not a Wetland. (BVG1M: 19a).

1.11.2h: Mixed mallee form low open woodland of *Eucalyptus melanophloia* subsp. *nana* and/or *Eucalyptus normantonensis* and/or *Eucalyptus gamophylla* often with *Eucalyptus leucophloia* and *Corymbia capricornia* with mixed shrub layer and *Triodia molesta* dominated ground layer. Occurs on hills and ranges on strongly folded metamorphic pre-Cambrian rocks; soils skeletal. Not a Wetland. (BVG1M: 19a).

1.11.2i: *Eucalyptus normantonensis* low open woodland, often with *Eucalyptus leucophloia* over a *Triodia longiceps* hummock grass ground layer. Occurs on hills and ranges on strongly folded metamorphic pre-

Cambrian rocks; soils skeletal, some red earths. Not a Wetland. (BVG1M: 19d).

1.11.2j: *Eucalyptus herbertiana* and/or *Corymbia capricornia* low open woodland with mixed shrub layer and ground layer of *Triodia pungens* and tussock grasses. Occurs on upper slopes and summits of hills and ranges on strongly folded metamorphic pre-Cambrian rocks, skeletal soils. Not a Wetland. (BVG1M: 19a).

1.11.2x1: [RE not in use]²: This vegetation community is now mapped as 1.7.7a. Low open woodland of *Eucalyptus herbertiana* and/or *Corymbia capricornia*, mixed shrub layer and ground layer of *Triodia pungens* and tussock grasses. Occurs on upper slopes and summits of hills and ranges on strongly folded metamorphic pre-Cambrian rocks, skeletal soils. Not a Wetland. (BVG1M: 19a).

1.11.2x1b: [RE not in use]²: This vegetation community is now mapped as 1.7.7b. Low open woodland of *Eucalyptus herbertiana* and/or *Corymbia capricornia*, mixed shrub layer and ground layer of *Triodia pungens* and tussock grasses. Occurs on hills on Surprise Creek Formation. Not a Wetland. (BVG1M: 19a).

1.11.2x2: [RE not in use]²: This regional ecosystem is now mapped as 1.11.7. *Acacia cambagei* low woodland. Occurs on hills and ranges of fine grained metamorphic sediments. Not a Wetland. (BVG1M: 26a).

1.11.2x2a: [RE not in use]²: This vegetation community is now mapped as 1.7.5b. Low woodland to open forest of *Acacia shirleyi*. Occurs on metamorphic hills. Not a Wetland. (BVG1M: 24a).

1.11.2x2b: [RE not in use]²: This vegetation community is now mapped as 1.11.7. *Acacia cambagei* low woodland with a sparse to very sparse ground layer of tussock grasses and *Triodia* spp. Occurs on colluvial footslopes. Not a Wetland. (BVG1M: 26a).

1.11.2x2c: [RE not in use]²: This vegetation community is now mapped as 1.11.7. *Acacia cambagei* low woodland. Occurs on hills and ranges of fine grained metamorphic sediments. Not a Wetland. (BVG1M: 26a).

1.11.2x3: [RE not in use]²: This regional ecosystem is now mapped as 1.11.8. Low open woodland of *Corymbia aspera*, often with *Terminalia aridicola* subsp. *aridicola*, *Eucalyptus leucophloia* and *C. capricornia* with a *Triodia* spp. understorey. Occurs on rock outcrops on hills and ranges on strongly folded siliceous sedimentary and metamorphic pre-Cambrian rocks; skeletal soils. Not a Wetland. (BVG1M: 19a).

1.11.2x4: [RE not in use]²: This regional ecosystem is now mapped as 1.11.8. *Terminalia aridicola* and/or *Corymbia aspera* low open woodland to low woodland, often with *Brachychiton collinus*, *Ficus* spp., *Alphitonia* spp. and *Trema tomentosa* with mid-dense shrub layer of *Acacia* spp. and/or *Calytrix brownii* and ground layer of mixed tussock grasses and *Triodia* spp. *Calytrix brownii* may be dominant on exposed rock faces. Occurs on rock outcrops on hills and ranges on strongly folded siliceous sedimentary and metamorphic pre-Cambrian rocks. Not a Wetland. (BVG1M: 29b).

1.11.2x5: [RE not in use]²: This regional ecosystem is now mapped as 1.11.9. *Eucalyptus odontocarpa* open shrubland including occasional *Acacia monticola*, *Acacia retivenea* and *Grevillea wickhamii*. *Triodia pungens* ground layer. Occurs on siliceous metamorphics on the far west of the Mount Isa Inlier. Not a Wetland. (BVG1M: 19a).

1.11.2x6: [RE not in use]²: This regional ecosystem is now mapped as 1.11.10. Mixed low open woodland including *Corymbia terminalis*, *Atalaya hemiglauca*, *Eucalyptus leucophylla*, *Hakea lorea* subsp. *lorea*, *Hakea chordophylla*, *Acacia cambagei* and *Corymbia aparrerinja* with a scattered shrub layer mostly of *Senna* spp. and *Eremophila* spp. and very open ground layer of mostly annual species sometimes with *Triodia molesta* and *Triodia brizoides*. Occurs on hard metamorphic plains. Not a Wetland. (BVG1M: 19a).

1.11.2x6a: [RE not in use]²: This vegetation community is now mapped as 1.11.10a. Mixed low open woodland including *Corymbia terminalis*, *Atalaya hemiglauca*, *Hakea lorea* subsp. *lorea*, *Hakea chordophylla*, *Acacia cambagei* and *Corymbia aparrerinja* with a scattered shrub layer mostly of *Senna* spp. and *Eremophila* spp. and very open ground layer of mostly annual species sometimes with *Triodia molesta* and *Triodia brizoides*. Occurs on hard metamorphic plains. Not a Wetland. (BVG1M: 19a).

1.11.2x6b: [RE not in use]²: This vegetation community is now mapped as 1.11.10b. Mixed low open woodland including *Eucalyptus leucophylla*, *Corymbia terminalis*, *Corymbia aparrerinja*, *Atalaya hemiglauca*, *Grevillea striata*, *Hakea* spp., *Acacia excelsa* subsp. *angusta* and *Acacia cambagei* over a sparse ground layer dominated by short annual grasses and forbs. Treeless areas are common. Occurs on undulating landscapes of metamorphosed igneous rocks. Not a Wetland. (BVG1M: 19a).

1.11.2x7: [RE not in use]²: This regional ecosystem is now mapped in part as 1.11.11 and in part as 1.11.12. *Triodia* spp. Hummock grassland. Occurs as a minor component of a number of regional ecosystems. Not a Wetland. (BVG1M: 33b).

1.11.2x7a: [RE not in use]²: This vegetation community is now mapped as 1.11.11. *Triodia* spp. hummock grassland with emergent *Eucalyptus leucophloia* and/or *Eucalyptus leucophylla*. Occurs as a minor component of a number of regional ecosystems in the central and southern parts of the bioregion. Not a Wetland. (BVG1M: 33b).

1.11.2x7b: [RE not in use]²: This vegetation community is now mapped as 1.11.12. *Triodia pungens* hummock grassland with emergent trees including *Eucalyptus leucophloia*, *Eucalyptus pruinosa* subsp. *pruinosa*, *Corymbia grandifolia* subsp. *grandifolia*, *Atalaya hemiglauca* and *Terminalia canescens*. Occurs as a minor component of a number of regional ecosystems in the north of the bioregion. Not a Wetland. (BVG1M: 33b).

1.11.2x8: [RE not in use]²: This vegetation community is now mapped as 1.7.5b. Low woodland to open forest of

Acacia shirleyi. Occurs on metamorphic hills. Not a Wetland. (BVG1M: 24a).

Short description:	Eucalyptus leucophloia low open woodland
Supplementary descriptions:	Christian et al. (1954), Yelvertoft, Mount Isa; Neldner (1991), part 16, part 39; Perry et al. (1964), Argylla, Kuridala, Quamby
Subregions:	3, 1, (2), (2.8), (2.7), (4), (2.2), (4.2), (4.3), (2.3), (4.7)
Protected areas:	Lawn Hill (Stockyard Creek) RR, Lawn Hill (Widdallion) RR, Lawn Hill (Lilydale) RR, Lawn Hill (Arthur Creek) RR, Boodjamulla (Lawn Hill) NP, Boodjamulla NP (Aboriginal Land), Lawn Hill (Gregory) RR, Lawn Hill (Gorge Mouth) RR
Extent in reserves:	Low
Wetland:	Not a Wetland
Special values:	1.11.2: Potential habitat for NCA listed species: Eucalyptus nudicaulis, Ipomoea antonschmidii, Solanum carduiforme, Trachymene glandulosa.
Comments:	1.11.2a: This RE contains small areas of Eucalyptus normantonensis that are too small to map but occasionally occur in the region centred between Mary Kathleen and Mount Isa. Eucalyptus normantonensis dominated communities that are large enough to be mapped at 1:100,000 scale belong in 1.11.2i. 1.11.2j: Occurs on Lawn Hill 1:250000 map sheet. 1.11.2x4: Key driver of this community is protection from fire provided by exposed rock. The larger the fire refuge the richer the community that develops. 1.11.2x7a: Occurs in the central and southern parts of the bioregion. 1.11.2x7b: Occurs in the north of the bioregion.
Estimated extent: ¹	Pre-clearing 1245000 ha; Remnant 2021 1239000 ha
VM class:	Least concern
Biodiversity status:	No concern at present
Biodiversity status notes:	

Regional ecosystem 1.11.3

Description: Low open woodland of *Corymbia terminalis* and/or *Eucalyptus leucophylla* with *Acacia* spp. dominated shrub layer and ground layer of *Triodia* spp. and/or tussock grasses. Includes areas of *Acacia* spp. shrubland and *Triodia* spp. grassland. Occurs on metabasalts and dolerites; some felsic metavolcanics; skeletal soils, some shallow loams. Not a Wetland. (BVG1M: 19b).

Vegetation communities in this regional ecosystem include:

1.11.3a: *Eucalyptus leucophylla* low open woodland often with *Corymbia terminalis*, *C. aparrerinja*, *Eucalyptus leucophloia* and *Atalaya hemiglauc*a with scattered shrubs of *Acacia chisholmii* and a sparse ground layer of *Triodia pungens* and tussock grasses. Occurs on broad low hills; metamorphosed igneous rocks. Not a Wetland. (BVG1M: 19b).

1.11.3b: *Corymbia terminalis* and/or *Eucalyptus leucophylla* low open woodland, commonly with *Corymbia aparrerinja* and *Eucalyptus leucophloia* with a sparse shrub layer dominated by *Acacia chisholmii* and a sparse ground layer dominated by *Triodia pungens*. Occurs on hills, rises: metamorphosed igneous rocks. Not a Wetland. (BVG1M: 19b).

1.11.3c: [RE not in use]²: This vegetation community is now mapped as 1.11.3a. Mixed low open woodland including *Eucalyptus leucophylla*, *Corymbia terminalis*, *Corymbia aparrerinja*, *Atalaya hemiglauc*a, *Grevillea striata*, *Hakea* spp., *Acacia excelsa* subsp. *angusta* and *Acacia cambagei* over a sparse ground layer dominated by short annual grasses and forbs. Treeless areas are common. Occurs on undulating landscapes of metamorphosed igneous rocks. Not a Wetland. (BVG1M: 19b).

1.11.3d: [RE not in use]²: This vegetation community is now mapped as 1.11.13. Mixed grassland including *Astreb*la pectinata, *Eulalia aurea*, *Iseilema* spp., *Brachyachne convergens*, *Bothriochloa ewartiana*, *Aristida latifolia*, *Dichanthium* spp. and *Themeda triandra* with emergent trees of *Corymbia terminalis*, *Atalaya hemiglauc*a or *Eucalyptus leucophylla* and associated *Triodia longiceps* around outcropping rocks. Occurs on minor areas of clay derived from basic metamorphic rocks. Not a Wetland. (BVG1M: 30b).

1.11.3x1: [RE not in use]²: This regional ecosystem is now mapped in part as 1.11.3a, in part as 1.11.11 and in part as 1.11.13. Low open woodland of *Eucalyptus leucophylla* often with *Corymbia terminalis* and *E. leucophloia* with *Acacia* spp. Dominated shrub layer and ground layer of *Triodia* spp. And/or tussock grasses. Includes areas of *Acacia* spp. Shrubland and *Triodia* spp. Grassland. Occurs on hills on strongly folded pre-Cambrian rocks; skeletal soils, some shallow loams. Not a Wetland. (BVG1M: 19b).

1.11.3x1a: [RE not in use]²: This vegetation community is now mapped as 1.11.11. *Triodia* spp. hummock grassland with emergent *Eucalyptus leucophloia* and/or *Eucalyptus leucophylla*. Occurs on hills on strongly folded pre-Cambrian rocks; skeletal soils, some shallow loams. Not a Wetland. (BVG1M: 33b).

1.11.3x1b: [RE not in use]²: This vegetation community is now mapped as 1.11.3a. Low open woodland *Eucalyptus leucophylla* often with *Corymbia terminalis*, *C. aparrerinja* and *E. leucophloia* with a variable, patchy shrub layer dominated by *Acacia* spp. And a very sparse ground layer of *Triodia pungens* with *Triodia* spp. And/or tussock grasses. Occurs on broad low hills; gently undulating. Not a Wetland. (BVG1M: 19b).

1.11.3x1c: [RE not in use]²: This vegetation community is now mapped as 1.11.3a. *Eucalyptus leucophylla* low open woodland with a very sparse ground layer of *Triodia longiceps*. Occurs on low hills. Not a Wetland. (BVG1M: 19b).

1.11.3x1d: [RE not in use]²: This vegetation community is now mapped as 1.11.13. Mixed grassland including *Astreb*la pectinata, *Eulalia aurea*, *Iseilema* spp., *Brachyachne convergens*, *Bothriochloa ewartiana*, *Aristida latifolia*, *Dichanthium* spp. and *Themeda triandra* with emergent trees of *Corymbia terminalis*, *Atalaya hemiglauc*a or *Eucalyptus leucophylla* and associated *Triodia longiceps* around outcropping rocks. Occurs on minor areas of clay derived from basic metamorphic rocks. Not a Wetland. (BVG1M: 19b).

1.11.3x2: [RE not in use]²: This regional ecosystem is now mapped as 1.11.13. Mixed grassland including *Astreb*la pectinata, *Eulalia aurea*, *Iseilema* spp., *Brachyachne convergens*, *Bothriochloa ewartiana*, *Aristida latifolia*, *Dichanthium* spp. and *Themeda triandra* with emergent trees of *Corymbia terminalis*, *Atalaya hemiglauc*a or *Eucalyptus leucophylla* and associated *Triodia longiceps* around outcropping rocks. Occurs on minor areas of clay derived from basic metamorphic rocks. Not a Wetland. (BVG1M: 30b).

1.11.3x3: [RE not in use]²: This regional ecosystem is now mapped as 1.11.14. *Acacia cambagei* low open woodland with ground layer including *Astreb*la spp. Occurs on minor areas of clay soils derived from basic metamorphic rocks. Not a Wetland. (BVG1M: 26a).

Short description: *Corymbia terminalis* and/or *Eucalyptus leucophylla* low open woodland on metamorphics

Supplementary descriptions:

Subregions: 3, (1), (2.8), (2.2), (4.2), (4.3), (2.3)

Protected areas:

Extent in reserves: No representation

Wetland: Not a Wetland
Special values: 1.11.3: Potential habitat for NCA listed species: *Eucalyptus nudicaulis*.
Comments: 1.11.3x1a: This vegetation community is now mapped as 1.11.11.
Estimated extent:¹ Pre-clearing 662000 ha; Remnant 2021 658000 ha
VM class: Least concern
Biodiversity status: No concern at present
Biodiversity status notes:

Regional ecosystem 1.11.4

Description: *Eucalyptus pruinosa* low open woodland with very sparse shrub layer and ground layer of *Triodia pungens* and annual grasses and forbs. Occurs on lower slopes and valley bottoms between ranges formed on strongly folded pre-Cambrian sediments and metamorphic rocks; shallow stony soils, including shallow loams and yellow podzolics. Not a Wetland. (BVG1M: 19c).

Short description: *Eucalyptus pruinosa* low open woodland on fine textured metamorphics

Supplementary descriptions: Christian et al. (1954), Mount Isa

Subregions: 2.7, 4, 3, 2, 2.2, 2.8, (1)

Protected areas: Lawn Hill (Widdallion) RR, Lawn Hill (Stockyard Creek) RR, Lawn Hill (Arthur Creek) RR, Lawn Hill (Lilydale) RR, Lawn Hill (Gorge Mouth) RR, Boodjamulla (Lawn Hill) NP

Extent in reserves: Medium

Wetland: Not a Wetland

Special values:

Comments:

Estimated extent:¹ Pre-clearing 10000 ha; Remnant 2021 10000 ha

VM class: Least concern

Biodiversity status: No concern at present

Biodiversity status notes:

Regional ecosystem 1.11.5

Description: *Cyperus vaginatus* is a characteristic species. Occurs on springs associated with metamorphic rock. Palustrine. (BVG1M: 34e).

Short description: Springs associated with metamorphic rocks

Supplementary descriptions: Fensham et al. (2004)

Subregions:

Protected areas:

Extent in reserves:

Wetland: Palustrine

Special values: 1.11.5: Provides wetland habitat for a flora and fauna.

Comments: 1.11.5: Poorly surveyed, but permanent springs probably of limited extent. Impacted by excavation and stock trampling.

Estimated extent:¹

VM class: Of concern

Biodiversity status: Of concern

Biodiversity status notes:

Regional ecosystem 1.11.6

Description: *Corymbia terminalis* and *Lysiphyllum cunninghamii* low open woodland with a mixed shrub layer and ground layer of *Enneapogon* spp. Occurs on outcrop on hills on strongly deformed calcareous pre-Cambrian sediments; skeletal soils. Not a Wetland. (BVG1M: 19b).

Short description: *Corymbia terminalis* and *Lysiphyllum cunninghamii* low open woodland on folded limestones

Supplementary descriptions:

Subregions: 3, (2.7), (2.2)

Protected areas:

Extent in reserves: No representation

Wetland: Not a Wetland

Special values:

Comments: 1.11.6: This vegetation community was previously mapped as 1.11.1x1.

Estimated extent:¹ Pre-clearing 16000 ha; Remnant 2021 16000 ha

VM class: Least concern

Biodiversity status: No concern at present

Biodiversity status notes:

Regional ecosystem 1.11.7

Description: *Acacia cambagei* low woodland. Occurs on metamorphic hills and ranges. Not a Wetland. (BVG1M: 26a).

Short description: *Acacia cambagei* low woodland on metamorphic hills

Supplementary descriptions:

Subregions: 3, 1, (2.8), (4.2), (4.7)

Protected areas:

Extent in reserves: No representation

Wetland: Not a Wetland

Special values:

Comments: 1.11.7: This vegetation community was previously mapped as 1.11.2x2.

Estimated extent:¹ Pre-clearing 9000 ha; Remnant 2021 8000 ha

VM class: Of concern

Biodiversity status: Of concern

Biodiversity status notes:

Regional ecosystem 1.11.8

Description: *Terminalia aridicola* and/or *Corymbia aspera* low open woodland to low woodland, often with *Brachychiton collinus*, *Ficus* spp., *Alphitonia* spp. and *Trema tomentosa* with mid-dense shrub layer of *Acacia* spp. and/or *Calytrix brownii* and ground layer of mixed tussock grasses and *Triodia* spp. *Calytrix brownii* may be dominant on exposed rock faces. Occurs on rock outcrops on hills and ranges on strongly folded siliceous sedimentary and metamorphic pre-Cambrian rocks. Not a Wetland. (BVG1M: 27c).

Short description: *Terminalia aridicola* and/or *Corymbia aspera* low open woodland to low woodland, usually with vine-scrub species, on rock outcrops

Supplementary descriptions:

Subregions: 3, (2.8), (2.2), (1), (2), (4.3), (4.2)

Protected areas:

Extent in reserves: No representation

Wetland: Not a Wetland

Special values: 1.11.8: Potential habitat for NCA listed species: *Eucalyptus nudicaulis*.

Comments: 1.11.8: Key driver of this community is protection from fire provided by exposed rock. The larger the fire refuge the richer the community that develops. This vegetation community was previously mapped as 1.11.2x4.

Estimated extent:¹ Pre-clearing 30000 ha; Remnant 2021 30000 ha

VM class: Least concern

Biodiversity status: No concern at present

Biodiversity status notes:

Regional ecosystem 1.11.9

Description: *Eucalyptus odontocarpa* open shrubland including occasional *Acacia monticola*, *Acacia retivena* and *Grevillea wickhamii*. *Triodia pungens* ground layer. Occurs on siliceous metamorphics on the far west of the Mount Isa Inlier. Not a Wetland. (BVG1M: 19a).

Short description: *Eucalyptus odontocarpa* open shrubland on siliceous metamorphics

Supplementary descriptions:

Subregions: 1

Protected areas:

Extent in reserves: No representation

Wetland: Not a Wetland

Special values:

Comments: 1.11.9: This vegetation community was previously mapped as 1.11.2x5.

Estimated extent:¹ Pre-clearing 4000 ha; Remnant 2021 4000 ha

VM class: Of concern

Biodiversity status: Of concern

Biodiversity status notes:

Regional ecosystem 1.11.10

Description: Mixed low open woodland including *Corymbia terminalis*, *Atalaya hemiglauca*, *Eucalyptus leucophylla*, *Hakea lorea* subsp. *lorea*, *Hakea chordophylla*, *Acacia cambagei* and *Corymbia aparrerinja* with a scattered shrub layer mostly of *Senna* spp. and *Eremophila* spp. and very open ground layer of mostly annual species sometimes with *Triodia molesta* and *Triodia brizoides*. Occurs on hard metamorphic plains. Not a Wetland. (BVG1M: 19b).

Vegetation communities in this regional ecosystem include:

1.11.10a: Mixed low open woodland including *Corymbia terminalis*, *Atalaya hemiglauca*, *Hakea lorea* subsp. *lorea*, *Hakea chordophylla*, *Acacia cambagei* and *Corymbia aparrerinja* with a scattered shrub layer mostly of *Senna* spp. and *Eremophila* spp. and very open ground layer of mostly annual species sometimes with *Triodia molesta* and *Triodia brizoides*. Occurs on hard metamorphic plains. Not a Wetland. (BVG1M: 19b).

1.11.10b: Mixed low open woodland including *Eucalyptus leucophylla*, *Corymbia terminalis*, *Corymbia aparrerinja*, *Atalaya hemiglauca*, *Grevillea striata*, *Hakea* spp., *Acacia excelsa* subsp. *angusta* and *Acacia cambagei* over a sparse ground layer dominated by short annual grasses and forbs. Treeless areas are common. Occurs on undulating landscapes of metamorphosed igneous rocks. Not a Wetland. (BVG1M: 19b).

Short description: Mixed low open woodland on metamorphic plains

Supplementary descriptions:

Subregions: 3, (4.2), (4.7), (2.8), (1), (4.3)

Protected areas:

Extent in reserves: No representation

Wetland: Not a Wetland

Special values: 1.11.10: Potential habitat for NCA listed species: *Eucalyptus nudicaulis*.

Comments: 1.11.10: These are very open communities with very sparse ground cover. This vegetation community was previously mapped as 1.11.2x6.

1.11.10a: This vegetation community was previously mapped as 1.11.2x6a. Mixed low open woodland including *Corymbia terminalis*, *Atalaya hemiglauca*, *Hakea* spp., and *Corymbia aparrerinja* on bare metamorphic plains.

1.11.10b: This vegetation community was previously mapped as 1.11.2x6b.

Estimated extent:¹ Pre-clearing 170000 ha; Remnant 2021 169000 ha

VM class: Least concern

Biodiversity status: No concern at present

Biodiversity status notes:

Regional ecosystem 1.11.11

Description: *Triodia* spp. hummock grassland with emergent *Eucalyptus leucophloia* and/or *Eucalyptus leucophylla*. Occurs as a minor component of a number of regional ecosystems in the central and southern parts of the bioregion. Not a Wetland. (BVG1M: 33b).

Short description: *Triodia* spp. hummock grassland on metamorphic hills (south)

Supplementary descriptions:

Subregions: 3, 1, (2), (2.8), (4.7)

Protected areas:

Extent in reserves: No representation

Wetland: Not a Wetland

Special values:

Comments: 1.11.11: This vegetation community was previously mapped as 1.11.2x7a.

Estimated extent:¹ Pre-clearing 17000 ha; Remnant 2021 17000 ha

VM class: Least concern

Biodiversity status: No concern at present

Biodiversity status notes:

Regional ecosystem 1.11.12

Description: *Triodia pungens* hummock grassland with emergent trees including *Eucalyptus leucophloia*, *Eucalyptus pruinosa*, *Corymbia grandifolia*, *Atalaya hemiglaucula* and *Terminalia canescens*. Occurs as a minor component of a number of regional ecosystems in the north of the bioregion. Not a Wetland. (BVG1M: 33b).

Short description: *Triodia pungens* hummock grassland (north)

Supplementary descriptions:

Subregions: 3, 2.2, 4, (2), (2.7)

Protected areas: Lawn Hill (Stockyard Creek) RR, Lawn Hill (Widdallion) RR, Boodjamulla (Lawn Hill) NP, Lawn Hill (Lilydale) RR

Extent in reserves: Low

Wetland: Not a Wetland

Special values:

Comments: 1.11.12: This vegetation community was previously mapped as 1.11.2x7b.

Estimated extent:¹ Pre-clearing 15000 ha; Remnant 2021 15000 ha

VM class: Least concern

Biodiversity status: No concern at present

Biodiversity status notes:

Regional ecosystem 1.11.13

Description: Mixed grassland including *Astrebla pectinata*, *Eulalia aurea*, *Iseilema* spp., *Brachyachne convergens*, *Bothriochloa ewartiana*, *Aristida latifolia*, *Dichanthium* spp. and *Themeda triandra* with emergent trees of *Corymbia terminalis*, *Atalaya hemiglaucula* or *Eucalyptus leucophylla* and associated *Triodia longiceps* around outcropping rocks. Occurs on minor areas of clay derived from basic metamorphic rocks. Not a Wetland. (BVG1M: 30b).

Short description: Grassland on clays derived from metamorphic rocks

Supplementary descriptions:

Subregions: 3

Protected areas:

Extent in reserves: No representation

Wetland: Not a Wetland

Special values:

Comments: 1.11.13: This vegetation community was previously mapped as 1.11.3x2. Occurs in the south of the bioregion. Subject to very high grazing pressure because it occurs as small patches in broad infertile landscapes.

Estimated extent:¹ Pre-clearing 400 ha; Remnant 2021 400 ha

VM class: Of concern

Biodiversity status: Endangered

Biodiversity status notes: Rare ecosystem comprised of small fertile areas in infertile landscapes, < 1000ha pre-clearing extent and subject to extreme grazing pressure.

Regional ecosystem 1.11.14

Description: *Acacia cambagei* low open woodland with ground layer including *Astrebla* spp. Occurs on minor areas of clay soils derived from basic metamorphic rocks. Not a Wetland. (BVG1M: 26a).

Short description: *Acacia cambagei* low open woodland on clay soils derived from metamorphic rocks

Supplementary descriptions:

Subregions: 3

Protected areas:

Extent in reserves: No representation

Wetland: Not a Wetland

Special values:

Comments: 1.11.14: This vegetation community was previously mapped as 1.11.3x3. Occurs in the south of the bioregion. Subject to very high grazing pressure because it occurs as small patches in broad infertile landscapes.

Estimated extent:¹ Pre-clearing 400 ha; Remnant 2021 400 ha

VM class: Of concern

Biodiversity status: Endangered

Biodiversity status notes: Rare ecosystem comprised of small fertile areas in infertile landscapes, < 1000ha pre-clearing extent and subject to extreme grazing pressure.

Regional ecosystem 1.12.1

Description: *Eucalyptus leucophloia* low open woodland, sometimes with *E. leucophylla*, *Corymbia terminalis* or *C. aparrerinja* with an *Acacia* spp. dominated shrub layer and *Triodia* spp. dominated ground layer. Includes areas of treeless *Triodia* spp. grasslands and *Acacia* spp. shrublands. Occurs on ranges and stony hills and rises on igneous rocks; skeletal soils and some shallow red earths. Not a Wetland. (BVG1M: 19a).

Vegetation communities in this regional ecosystem include:

1.12.1x1: [RE not in use]²: This regional ecosystem was previously mapped as 1.12.3. *Eucalyptus leucophylla* low open woodland often with *Corymbia terminalis* or *C. aparrerinja*, shrub layer of *Acacia chisholmii* with hummock grass ground layer of *Triodia* spp. Includes areas of treeless *Triodia* spp. Grasslands and *Acacia* spp. Shrublands. Occurs on ranges and stony hills and rises on igneous rocks; skeletal soils and some shallow red earths. Not a Wetland. (BVG1M: 19b).

1.12.1x1a: [RE not in use]²: This vegetation community is now mapped as 1.12.3a. *Eucalyptus leucophylla* low open woodland often with *Corymbia terminalis* or *C. aparrerinja*, shrub layer of *Acacia chisholmii* with hummock grass ground layer of *Triodia* spp. Includes areas of treeless *Triodia* spp. grasslands and *Acacia* spp. shrublands. Occurs on ranges and stony hills and rises on igneous rocks; skeletal soils and some shallow red earths. Not a Wetland. (BVG1M: 19b).

1.12.1x1b: [RE not in use]²: This vegetation community is now mapped as 1.12.3b. Mixed low open woodland including *Eucalyptus leucophylla*, *Atalaya hemiglauc*a, *Corymbia terminalis*, *C. aparrerinja*, *Acacia cambagei*, *Grevillea striata*, *Hakea* spp. and *Acacia excelsa* subsp. *angusta* and a sparse ground layer of short tussock grasses and *Triodia* spp. Occurs on near level plains to undulating rises. Not a Wetland. (BVG1M: 19b).

1.12.1x2: [RE not in use]²: This regional ecosystem is now mapped as 1.12.4. *Acacia cambagei* low woodland. Occurs on stony hills. Not a Wetland. (BVG1M: 26a).

1.12.1x3: [RE not in use]²: This vegetation community is now mapped as 1.12.3c. *Corymbia terminalis* and/or *Eucalyptus leucophylla* low open woodland, sometimes with *Corymbia aparrerinja*, *Eucalyptus leucophloia*, *Atalaya hemiglauc*a and/or *Psyrax attenuata*. *Acacia chisholmii* generally dominates the shrub layer. *Triodia* spp. dominated ground layer. Occurs on dolerite. Not a Wetland. (BVG1M: 19b).

1.12.1x3b: [RE not in use]²: This vegetation community is now mapped as 1.12.5. Mixed grassland including *Eulalia aurea*, *Iseilema* spp., *Brachyachne convergens*, *Bothriochloa ewartiana*, *Aristida latifolia*, *Dichanthium* spp. and *Themeda triandra* with emergent trees of *Corymbia terminalis* +/- *Eucalyptus pruinosa* subsp. *pruinosa* +/- *Eucalyptus leucophylla* often with *Triodia longiceps*, associated with outcropping rocks. Occurs on dolerite. Not a Wetland. (BVG1M: 19b).

1.12.1x5: *Corymbia capricornia* and/or *Eucalyptus herbertiana* low open woodland with ground layer dominated by *Triodia pungens*. Occurs on ranges and stony hills and rises on igneous rocks; skeletal soils and some shallow red earths. Not a Wetland. (BVG1M: 19a).

1.12.1x6: [RE not in use]²: This vegetation community is now mapped as 1.12.3c. *Corymbia terminalis* low open woodland often with *Atalaya hemiglauc*a and *Ventilago viminalis*. Shrub layer dominated by *Acacia chisholmii* and mixed ground layer of *Triodia pungens* and tussock grasses including *Heteropogon contortus* and *Themeda triandra*. Occurs on Colless Volcanics. Not a Wetland. (BVG1M: 19a).

1.12.1x7: [RE not in use]²: This regional ecosystem is now mapped as 1.12.5. Mixed tussock grassland including *Eulalia aurea*, *Iseilema* spp., *Brachyachne convergens*, *Bothriochloa ewartiana*, *Aristida latifolia*, *Dichanthium* spp. and *Themeda triandra* with emergent trees including *Corymbia terminalis*, *Eucalyptus pruinosa* and *Eucalyptus leucophylla* often with *Triodia longiceps*, associated with outcropping rocks. Occurs on basic igneous rocks. Not a Wetland. (BVG1M: 19b).

1.12.1x8: [RE not in use]²: This regional ecosystem is now mapped as 1.12.6. *Triodia* spp. hummock grassland. Occurs in igneous landscapes. Not a Wetland. (BVG1M: 33b).

1.12.1x9: *Eucalyptus tetradonta*, *Corymbia capricornia* and *Eucalyptus miniata* low woodland. There is often a second tree layer which includes species from the upper tree layer, *Erythrophleum chlorostachys*, *Buchanania obovata* and *Terminalia canescens*. Ground layer of *Triodia bitextura* and a mix of tussock grasses. Occurs on ranges and stony hills and rises on igneous rocks in the extreme north of the bioregion; skeletal soils and some shallow red earths. Not a Wetland. (BVG1M: 19a).

Short description: *Eucalyptus leucophloia* low open woodland on granites

Supplementary descriptions: Christian et al. (1954), Waverley; Neldner (1991), part 16, part 39; Perry et al. (1964), Kuridala, Quamby, Mount Elliott

Subregions: 3, 4, 2.7, (2.8), (1), (2.3), (4.3), (2.2), (4.2), (4.7)

Protected areas:

Extent in reserves: No representation

Wetland: Not a Wetland

Special values:

Comments:**Estimated extent:**¹ Pre-clearing 169000 ha; Remnant 2021 169000 ha**VM class:** Least concern**Biodiversity status:** No concern at present**Biodiversity status notes:**

Regional ecosystem 1.12.2**Description:** Eucalyptus melanophloia subsp. nana low open woodland over Triodia spp. with occasional Terminalia aridicola. Acacia spp. understorey. Occurs on tor fields and low rounded hills on foliated biotite granite; skeletal and shallow coarse sands. Not a Wetland. (BVG1M: 17b).

Vegetation communities in this regional ecosystem include:

1.12.2x1: [RE not in use]²: This regional ecosystem is now mapped as 1.12.7. Terminalia aridicola and Brachychiton collinus low open woodland. Acacia spp. shrub layer and ground layer of Triodia spp. and tussock grasses. Occurs on tor fields and low rounded hills on foliated biotite granite. Not a Wetland. (BVG1M: 29b).**Short description:** Eucalyptus melanophloia low open woodland on low granite hills and torfields**Supplementary descriptions:** Christian et al. (1954), Waverley**Subregions:** 3**Protected areas:****Extent in reserves:** No representation**Wetland:** Not a Wetland**Special values:** 1.12.2: Tor fields and associated caves and crevices significant for some fauna, e.g. bats.**Comments:** 1.12.2: Subject to mining.**Estimated extent:**¹ Pre-clearing 19000 ha; Remnant 2021 19000 ha**VM class:** Least concern**Biodiversity status:** No concern at present**Biodiversity status notes:**

Regional ecosystem 1.12.3

Description: Eucalyptus leucophylla low open woodland often with Corymbia terminalis or C. aparrerinja, shrub layer of Acacia chisholmii with hummock grass ground layer of Triodia spp. Includes areas of treeless Triodia spp. grasslands and Acacia spp. shrublands. Occurs on ranges and stony hills and rises on igneous rocks; skeletal soils and some shallow red earths. Not a Wetland. (BVG1M: 19b).

Vegetation communities in this regional ecosystem include:

1.12.3a: Eucalyptus leucophylla low open woodland often with Corymbia terminalis or C. aparrerinja, shrub layer of Acacia chisholmii with hummock grass ground layer of Triodia spp. Includes areas of treeless Triodia spp. grasslands and Acacia spp. shrublands. Occurs on ranges and stony hills and rises on igneous rocks; skeletal soils and some shallow red earths. Not a Wetland. (BVG1M: 19b).

1.12.3b: Mixed low open woodland including Eucalyptus leucophylla, Atalaya hemiglauca, Corymbia terminalis, C. aparrerinja, Acacia cambagei, Grevillea striata, Hakea spp. and Acacia excelsa subsp. angusta and a sparse ground layer of short tussock grasses and Triodia spp. Occurs on near level plains to undulating rises. Not a Wetland. (BVG1M: 19b).

1.12.3c: Corymbia terminalis and/or Eucalyptus leucophylla low open woodland, sometimes with Corymbia aparrerinja, Eucalyptus leucophloia, Atalaya hemiglauca and/or Psydrax attenuata. Acacia chisholmii generally dominates the shrub layer. Triodia spp. dominated ground layer. Occurs on dolerite and basalts. Not a Wetland. (BVG1M: 19b).

Short description: Eucalyptus leucophylla and/or Corymbia terminalis +/- C. aparrerinja low open woodland on igneous rocks

Supplementary descriptions:

Subregions: 3, (1), (4.2), (4), (2.8), (4.3), (2.3), (4.7), (2)

Protected areas: Boodjamulla (Lawn Hill) NP

Extent in reserves: Low

Wetland: Not a Wetland

Special values:

Comments: 1.12.3b: These are usually extremely open communities with very sparse ground layers.

Estimated extent:¹ Pre-clearing 307000 ha; Remnant 2021 307000 ha

VM class: Least concern

Biodiversity status: No concern at present

Biodiversity status notes:

Regional ecosystem 1.12.4

Description: Acacia cambagei low woodland. Occurs on stony igneous hills. Not a Wetland. (BVG1M: 26a).

Short description: Acacia cambagei woodland on igneous hills

Supplementary descriptions:

Subregions: 3, (1)

Protected areas:

Extent in reserves: No representation

Wetland: Not a Wetland

Special values:

Comments: 1.12.4: This vegetation community was previously mapped as 1.12.1x2.

Estimated extent:¹ Pre-clearing 200 ha; Remnant 2021 200 ha

VM class: Of concern

Biodiversity status: Of concern

Biodiversity status notes:

Regional ecosystem 1.12.5

Description: Mixed tussock grassland including *Eulalia aurea*, *Iseilema* spp., *Brachyachne convergens*, *Bothriochloa ewartiana*, *Aristida latifolia*, *Dichanthium* spp. and *Themeda triandra* with emergent trees including *Corymbia terminalis*, *Eucalyptus pruinosa* and *Eucalyptus leucophylla* often with *Triodia longiceps*, associated with outcropping rocks. Occurs on basic igneous rocks. Not a Wetland. (BVG1M: 30b).

Short description: Mixed tussock grassland on basic igneous rocks

Supplementary descriptions:

Subregions: 3

Protected areas:

Extent in reserves: No representation

Wetland: Not a Wetland

Special values:

Comments: 1.12.5: This vegetation community was previously mapped as 1.12.1x7.

Estimated extent:¹ Pre-clearing 400 ha; Remnant 2021 400 ha

VM class: Of concern

Biodiversity status: Endangered

Biodiversity status notes: Rare ecosystem comprised of small fertile areas in infertile landscapes, < 1000ha pre-clearing extent and subject to extreme grazing pressure.

Regional ecosystem 1.12.6

Description: *Triodia* spp. hummock grassland. Occurs in igneous landscapes. Not a Wetland. (BVG1M: 33b).

Short description: Hummock grassland on basic igneous rocks

Supplementary descriptions:

Subregions: 3, 2.8, (4.2)

Protected areas:

Extent in reserves: No representation

Wetland: Not a Wetland

Special values:

Comments: 1.12.6: This vegetation community was previously mapped as 1.12.1x8.

Estimated extent:¹ Pre-clearing 2000 ha; Remnant 2021 2000 ha

VM class: Of concern

Biodiversity status: Of concern

Biodiversity status notes:

Regional ecosystem 1.12.7

Description: *Terminalia aridicola* and *Brachychiton collinus* low open woodland. *Acacia* spp. shrub layer and ground layer of *Triodia* spp. and tussock grasses. Occurs on tor fields and low rounded hills on foliated biotite granite. Not a Wetland. (BVG1M: 27c).

Vegetation communities in this regional ecosystem include:

1.12.7x1: Mixed low woodland of *Lysiphyllum cunninghamii*, *Corymbia capricornia*, *Erythrophleum chlorostachys*, *Eucalyptus whitei* and *Cochlospermum gregorii*. Occurs on old rounded volcanic hills in the far north of the bioregion. Not a Wetland. (BVG1M: 27c).

Short description: *Terminalia aridicola* and *Brachychiton collinus* low open woodland on torfields

Supplementary descriptions:

Subregions: 3, 4, 2.7, (1), (2.8), (4.3), (4.2), (4.7), (2.3)

Protected areas:

Extent in reserves: No representation

Wetland: Not a Wetland

Special values:

Comments: 1.12.7: This vegetation community was previously mapped as 1.12.2x1.
1.12.7x1: Occurs in the north of sub-region 4.

Estimated extent:¹ Pre-clearing 31000 ha; Remnant 2021 31000 ha

VM class: Least concern

Biodiversity status: No concern at present

Biodiversity status notes:

¹ Estimated extent is from the current released version of the pre-clearing and remnant regional ecosystem mapping. Figures are rounded for simplicity. For more precise estimates, including breakdowns by tenure and other themes see remnant vegetation in Queensland (<https://www.qld.gov.au/environment/plants-animals/plants/ecosystems/remnant-vegetation/>)

² Superseded: Revision of the regional ecosystem classification removed this regional ecosystem code from use. It is included in the regional ecosystem description database because the RE code may appear in older versions of RE mapping and the Vegetation Management regulation.