

### Regional ecosystem 13.3.1

**Description:** Eucalyptus blakelyi grassy woodland or open forest +/- E. caliginosa +/- E. conica +/- E. bridgesiana +/- E. melliodora. Occurs on Cainozoic alluvial plains. Riverine. (BVG1M: 15b).

Vegetation communities in this regional ecosystem include:

13.3.1x1: Riparian shrubland on anastomosing stream channels +/- emergent trees such as Eucalyptus blakelyi, Eucalyptus bridgesiana or Angophora floribunda. Common shrubs generally include Melaleuca alternifolia, Leptospermum brachyandrum, Acacia floribunda and Acacia viscidula. The ground stratum is generally dominated by Lomandra longifolia and Carex appressa but other sedges, reeds and rushes such as Schoenus apogon, Carex gaudichaudiana, Carex lobolepis, Juncus continuus, Eleocharis acuta, Eleocharis atricha, Typha domingensis and Phragmites australis can also be abundant. Geranium neglectum, Dichondra repens and various grasses are also often present in higher parts. Occurs along major watercourses in granite landscapes. Riverine. (BVG1M: 16d).

**Short description:** Eucalyptus blakelyi woodland on alluvial plains

**Supplementary descriptions:** Young and McDonald (1989), 9a, Sparshott (2009), 6, 7 and 8, Haselgrove and Cant (2009), 3b

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

**Protected areas:** Girraween NP

**Extent in reserves:** Medium

**Wetland:** Riverine

**Special values:** 13.3.1: Habitat for threatened plant species including Melaleuca flavovirens and Melaleuca williamsii.  
13.3.1x1: Habitat for threatened plant species including Melaleuca flavovirens and Melaleuca williamsii.

**Comments:** 13.3.1: Cleared for agriculture and horticulture.  
13.3.1x1: Cleared for agriculture and horticulture. Subject to invasion by blackberry.

**Estimated extent:**<sup>1</sup> Pre-clearing 7000 ha; Remnant 2021 3000 ha

**VM class:** Of concern

**Biodiversity status:** Endangered

**Biodiversity status notes:** 10-30% of its pre-clearing extent remains unaffected by severe degradation and/or biodiversity loss and the remnant vegetation is less than 10,000h.

### Regional ecosystem 13.3.2

**Description:** Eucalyptus nova-anglica +/- E. dalrympleana subsp. heptantha open forest or woodland. Occurs in higher, moister parts of region on Cainozoic alluvial plains. Not a Wetland. (BVG1M: 15b).

**Short description:** Eucalyptus nova-anglica open forest on alluvial plains

**Supplementary descriptions:** Young and McDonald (1989), 9a, Sparshott (2009), 4 and 5

**Subregions:** 1

**Protected areas:** Girraween NP

**Extent in reserves:** High

**Wetland:** Not a Wetland

**Special values:** 13.3.2: Habitat for threatened plant species including Persoonia daphnoides. Only known Queensland population of Grevillea juniperina.

**Comments:** 13.3.2: Extensively cleared for agriculture and horticulture. Remnants subject to dieback and blackberry invasion.

**Estimated extent:**<sup>1</sup> Pre-clearing 700 ha; Remnant 2021 300 ha

**VM class:** Of concern

**Biodiversity status:** Endangered

**Biodiversity status notes:** A rare regional ecosystem subject to fragmentation, dieback and blackberry invasion.

### Regional ecosystem 13.3.3

**Description:** *Eucalyptus nobilis* (formerly *Eucalyptus viminalis*) grassy open forest. Occurs on Cainozoic alluvial plains. Fringes of streams on northern slopes of bioregion. Riverine. (BVG1M: 16c).

**Short description:** *Eucalyptus nobilis* open forest on alluvial plains

**Supplementary descriptions:** Young and McDonald (1989), 9o

**Subregions:** 3, 1

**Protected areas:**

**Extent in reserves:** No representation

**Wetland:** Riverine

**Special values:**

**Comments:** 13.3.3: Remnants subject to disturbance from cattle grazing and damage due to exposure following fragmentation.

**Estimated extent:**<sup>1</sup> Pre-clearing 900 ha; Remnant 2021 200 ha

**VM class:** Endangered

**Biodiversity status:** Endangered

**Biodiversity status notes:**

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### Regional ecosystem 13.3.4

**Description:** *Eucalyptus conica*, *E. microcarpa* or *E. moluccana*, *E. melliodora* grassy woodland. Occurs on Cainozoic alluvial plains. Riverine. (BVG1M: 15b).

**Short description:** *Eucalyptus conica*, *E. microcarpa*, *E. melliodora* woodland on alluvial plains

**Supplementary descriptions:** Young and McDonald (1989), 10d, Haselgrove and Cant (2009), 3b in part

**Subregions:** 3, 1, (11.32), (11.31), (2)

**Protected areas:**

**Extent in reserves:** No representation

**Wetland:** Riverine

**Special values:**

**Comments:** 13.3.4: Occurs in the drier parts of region. Important for honey flora. Extensively cleared and thinned for pasture.

**Estimated extent:**<sup>1</sup> Pre-clearing 37000 ha; Remnant 2021 3000 ha

**VM class:** Endangered

**Biodiversity status:** Endangered

**Biodiversity status notes:**

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### Regional ecosystem 13.3.5

**Description:** Fringing open forest of *Eucalyptus tereticornis*/*E. camaldulensis*, *Casuarina cunninghamiana*. Occurs along major streams on Cainozoic alluvial plains. Riverine. (BVG1M: 16a).

**Short description:** *Eucalyptus camaldulensis* fringing open forest

**Supplementary descriptions:** Young and McDonald (1989), 9p, Haselgrove and Cant (2009), 3c, 3a in part

**Subregions:** 3, (11.32)

**Protected areas:** Sundown NP

**Extent in reserves:** Medium

**Wetland:** Riverine

**Special values:**

**Comments:** 13.3.5: Disturbed by grazing. Dieback extensive in *E. camaldulensis* along McIntyre River. Poor regeneration of canopy species. Infestation by *Phyla canescens* and willows.

**Estimated extent:**<sup>1</sup> Pre-clearing 7000 ha; Remnant 2021 4000 ha

**VM class:** Of concern

**Biodiversity status:** Endangered

**Biodiversity status notes:** Remaining areas are in poor condition due to weed invasion, dieback of tree canopy, edge effects and impacts associated with high total grazing pressure.

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## Regional ecosystem 13.3.6

**Description:** Sedgeland and/or open heathland, occasional with fringing eucalyptus woodlands. Occurs along small drainage lines and soaks at high altitude on Mesozoic to Proterozoic igneous rocks. Palustrine. (BVG1M: 34f).

Vegetation communities in this regional ecosystem include:

13.3.6a: *Eucalyptus camphora* subsp. *camphora* mallee woodland/tall shrubland or fringing woodland with a sedgy understorey. Occurs along small drainage lines and soaks at high altitude on Mesozoic to Proterozoic igneous rocks. Palustrine. (BVG1M: 34f).

13.3.6b: *Melaleuca thymifolia* heath on gritty siliceous seepage areas. Occurs along small drainage lines and soaks at high altitude on Mesozoic to Proterozoic igneous rocks. Palustrine. (BVG1M: 29b).

**Short description:** Sedgeland and/or open heathland with small areas of eucalypt woodland on alluvial deposits in igneous landscapes

**Supplementary descriptions:** Young and McDonald (1989), 27b, Sparshott (2009), 1, 2, 3

**Subregions:** 1

**Protected areas:** Girraween NP

**Extent in reserves:** High

**Wetland:** Palustrine

**Special values:** 13.3.6: Northern limit of the temperate adapted species *Eucalyptus camphora* and *Olearia glandulosa*. Provides wetland habitat for a range of flora and fauna.

13.3.6a: Northern limit of the temperate adapted species *Eucalyptus camphora* and *Olearia glandulosa*. Provides wetland habitat for a range of flora and fauna.

13.3.6b: Northern limit of the temperate adapted species *Eucalyptus camphora* and *Olearia glandulosa*. Provides wetland habitat for a range of flora and fauna.

**Comments:** 13.3.6: Described in Sattler and Williams under 13.12.7 but has been reallocated to the correct land zone. A rare regional ecosystem. Subject to pig damage and *Andropogon virginicus* infestation.  
13.3.6a: Described in Sattler and Williams under 13.12.7 but has been reallocated to the correct land zone. A rare regional ecosystem. Subject to pig damage and *Andropogon virginicus* infestation.  
13.3.6b: Described in Sattler and Williams under 13.12.7 but has been reallocated to the correct land zone. A rare regional ecosystem. Some areas are too small to map. 13.3.6a and 13.3.6b wholly contained within Girraween National Park. Subject to pig damage and *Andropogon virginicus* infestation.

**Estimated extent:**<sup>1</sup> Pre-clearing 300 ha; Remnant 2021 300 ha

**VM class:** Of concern

**Biodiversity status:** Endangered

**Biodiversity status notes:** A rare regional ecosystem subject to pig damage and infestation from the grass *Andropogon virginicus* in places.

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## Regional ecosystem 13.3.7

**Description:** Open forest to tall woodland of *Eucalyptus tereticornis* and *Angophora floribunda*. On alluvial plains. Not a Wetland. (BVG1M: 16c).

**Short description:** *Eucalyptus tereticornis*, *Angophora floribunda* open forest on alluvial plains

**Supplementary descriptions:** Young and McDonald (1989), 9p, Haselgrove and Cant (2009), 3a in part

**Subregions:** 3

**Protected areas:**

**Extent in reserves:** No representation

**Wetland:** Not a Wetland

**Special values:**

**Comments:**

**Estimated extent:**<sup>1</sup> Pre-clearing 5000 ha; Remnant 2021 300 ha

**VM class:** Endangered

**Biodiversity status:** Endangered

**Biodiversity status notes:**

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## Regional ecosystem 13.9.2

**Description:** Eucalyptus moluccana open forest. Occurs on localised patches of Cainozoic to Proterozoic consolidated, fine to medium-grained sediments. Not a Wetland. (BVG1M: 13d).

**Short description:** Eucalyptus moluccana open forest on fine-grained sedimentary rocks

**Supplementary descriptions:** Young and McDonald (1989), 9g

**Subregions:** 3, (1)

**Protected areas:**

**Extent in reserves:** No representation

**Wetland:** Not a Wetland

**Special values:**

**Comments:**

**Estimated extent:**<sup>1</sup> Pre-clearing 1000 ha; Remnant 2021 200 ha

**VM class:** Endangered

**Biodiversity status:** Endangered

**Biodiversity status notes:**

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## Regional ecosystem 13.11.1

**Description:** Eucalyptus youmanii, E. dealbata, E. caleyi, Callitris endlicheri shrubby woodland +/- E. banksii. Occurs on Mesozoic to Proterozoic moderately to strongly deformed and metamorphosed sediments and interbedded volcanics. Not a Wetland. (BVG1M: 15a).

**Short description:** Eucalyptus youmanii, E. dealbata, E. caleyi, Callitris endlicheri woodland on metamorphics

**Supplementary descriptions:** Young and McDonald (1989), 10a, Haselgrove and Cant (2009), 11b, 11e, 11h

**Subregions:** 1, 3

**Protected areas:** Sundown NP, Sundown RR

**Extent in reserves:** High

**Wetland:** Not a Wetland

**Special values:**

**Comments:** 13.11.1: Restricted to higher parts of trap rock, shows affinities with adjacent vegetation on granite. This unit has affinities with Eucalyptus caleyi subsp. caleyi and E. dealbata dominated vegetation south west of Leyburn which is currently included in 13.11.3 due to its association with E. crebra.

**Estimated extent:**<sup>1</sup> Pre-clearing 11000 ha; Remnant 2021 7000 ha

**VM class:** Of concern

**Biodiversity status:** Of concern

**Biodiversity status notes:**

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## Regional ecosystem 13.11.2

**Description:** Eucalyptus laevopinea, E. banksii, E. melliodora open forest. Occurs on Mesozoic to Proterozoic moderately to strongly deformed and metamorphosed sediments and interbedded volcanics. High altitudes. Not a Wetland. (BVG1M: 8a).

**Short description:** Eucalyptus laevopinea open forest on metamorphics

**Supplementary descriptions:** Young and McDonald (1989), 9f, Haselgrove and Cant (2009), 11g

**Subregions:** 1, (3)

**Protected areas:** Sundown NP, Sundown RR

**Extent in reserves:** High

**Wetland:** Not a Wetland

**Special values:** 13.11.2: Restricted to higher parts of the trap rock country. The populations of Eucalyptus laevopinea and E. banksii are disjunct populations of species that grow on adamellite to the east. A threatened restricted regional ecosystem, subject to logging outside reserves.

**Comments:** 13.11.2: Rare community subject to logging in unreserved areas.

**Estimated extent:**<sup>1</sup> Pre-clearing 700 ha; Remnant 2021 700 ha

**VM class:** Of concern

**Biodiversity status:** Endangered

**Biodiversity status notes:** Rare regional ecosystem that is a climatic outlier and is subject to logging in unreserved parts.

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## Regional ecosystem 13.11.3

**Description:** Eucalyptus crebra, E. dealbata, E. albens grassy woodland. Occurs on Mesozoic to Proterozoic moderately to strongly deformed and metamorphosed sediments and interbedded volcanics. Not a Wetland. (BVG1M: 13c).

Vegetation communities in this regional ecosystem include:

13.11.3a: Eucalyptus crebra, E. tereticornis, Angophora leiocarpa woodland. Occurs on Mesozoic to Proterozoic moderately to strongly deformed and metamorphosed sediments and interbedded volcanics. Not a Wetland. (BVG1M: 13c).

13.11.3b: Eucalyptus caleyi subsp. caleyi woodland. Occurs on Mesozoic to Proterozoic moderately to strongly deformed and metamorphosed sediments and interbedded volcanics. Not a Wetland. (BVG1M: 15a).

**Short description:** Eucalyptus crebra woodland on metamorphics

**Supplementary descriptions:** Young and McDonald (1989), 10b, Haselgrove and Cant (2009) 11c

**Subregions:** 3, (11.32), (11.31), (1)

**Protected areas:** Sundown NP

**Extent in reserves:** Low

**Wetland:** Not a Wetland

**Special values:** 13.11.3: Habitat of Eucalyptus terrica, a species with a localised distribution.

**Comments:** 13.11.3: Highly fragmented, remnants heavily grazed. Poor management can prevent recruitment of tree species. Increasing shrub density in some situations.

**Estimated extent:**<sup>1</sup> Pre-clearing 305000 ha; Remnant 2021 92000 ha

**VM class:** Of concern

**Biodiversity status:** Of concern

**Biodiversity status notes:**

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## Regional ecosystem 13.11.4

**Description:** *Eucalyptus melanophloia*, *E. dealbata*, *E. albens* +/- *Callitris glaucophylla* grassy woodland. Occurs on Mesozoic to Proterozoic moderately to strongly deformed and metamorphosed sediments and interbedded volcanics. Not a Wetland. (BVG1M: 17b).

**Short description:** *Eucalyptus melanophloia* woodland on metamorphics

**Supplementary descriptions:** Young and McDonald (1989), 10c, Haselgrove and Cant (2009) 11a, 11a2,

**Subregions:** 3, (1), (11.32)

**Protected areas:** Sundown NP, Sundown RR

**Extent in reserves:** Medium

**Wetland:** Not a Wetland

**Special values:** 13.11.4: Potential habitat for NCA listed species: *Cadellia pentastylis*, *Macrozamia cranei*, *Macrozamia occidua*.

**Comments:** 13.11.4: Highly fragmented, remnants heavily grazed. Poor management can prevent recruitment of tree species. Increasing shrub and *Callitris* density in some situations.

**Estimated extent:**<sup>1</sup> Pre-clearing 113000 ha; Remnant 2021 50000 ha

**VM class:** Least concern

**Biodiversity status:** Of concern

**Biodiversity status notes:** A highly fragmented regional ecosystem that is heavily grazed. Current management prevents recruitment of tree species and there has been an observed increase in shrub species.

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## Regional ecosystem 13.11.5

**Description:** *Eucalyptus sideroxylon* +/- *E. fibrosa* subsp. *nubilis* shrubby open forest. Occurs on Mesozoic to Proterozoic moderately to strongly deformed and metamorphosed sediments and interbedded volcanics. Not a Wetland. (BVG1M: 15a).

**Short description:** *Eucalyptus sideroxylon*, *E. fibrosa* subsp. *nubilis* open forest on metamorphics

**Supplementary descriptions:** Young and McDonald (1989), 9e, Haselgrove and Cant (2009), 11f in part

**Subregions:** 3, 11.32, (1)

**Protected areas:** Sundown NP

**Extent in reserves:** Low

**Wetland:** Not a Wetland

**Special values:** 13.11.5: Habitat for threatened fauna, regent honeyeater *Xanthomyza phrygia*. Localised occurrences of *Eucalyptus bakeri*, *E. viridis* (mallees) and *Melaleuca decora*.

**Comments:** 13.11.5: Frequently occurs as small patches. Highly fragmented, remnants heavily grazed. Poor management can prevent recruitment of tree species. Increasing shrub density in some situations. Subject to sleeper/fence post cutting.

**Estimated extent:**<sup>1</sup> Pre-clearing 19000 ha; Remnant 2021 11000 ha

**VM class:** Least concern

**Biodiversity status:** Of concern

**Biodiversity status notes:** 10-30% of its pre-clearing extent remains unaffected by moderate degradation and/or biodiversity loss

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## Regional ecosystem 13.11.6

**Description:** *Corymbia citriodora* subsp. *variegata*, *Eucalyptus crebra*, *E. dealbata* open forest. Occurs on Mesozoic to Proterozoic moderately to strongly deformed and metamorphosed sediments and interbedded volcanics. Not a Wetland. (BVG1M: 10a).

**Short description:** *Corymbia citriodora* subsp. *variegata* open forest on metamorphics

**Supplementary descriptions:** Young and McDonald (1989), 9i

**Subregions:** 3, (11.32), (11.31)

**Protected areas:**

**Extent in reserves:** No representation

**Wetland:** Not a Wetland

**Special values:** 13.11.6: Habitat for threatened plant including *Eucalyptus infera* and *Macrozamia conferta*.

**Comments:** 13.11.6: Mostly in State Forest. Subject to logging.

**Estimated extent:**<sup>1</sup> Pre-clearing 19000 ha; Remnant 2021 13000 ha

**VM class:** Least concern

**Biodiversity status:** No concern at present

**Biodiversity status notes:**

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## Regional ecosystem 13.11.7

**Description:** Low microphyll rainforest. Occurs in rugged gorges Mesozoic to Proterozoic moderately to strongly deformed and metamorphosed sediments and interbedded volcanics. Not a Wetland. (BVG1M: 7a).

Vegetation communities in this regional ecosystem include:

13.11.7a: Low microphyll rainforest. Occurs in rugged gorges Mesozoic to Proterozoic moderately to strongly deformed and metamorphosed sediments and interbedded volcanics. Not a Wetland. (BVG1M: 7a).

**Short description:** Low microphyll vine forest on metamorphics

**Supplementary descriptions:** Young and McDonald (1989), 12a, Haselgrove and Cant (2009) 11j, 11k

**Subregions:** 3, 1

**Protected areas:** Sundown NP, Sundown RR

**Extent in reserves:** High

**Wetland:** Not a Wetland

**Special values:** 13.11.7: Habitat of threatened plant species including *Cadellia pentastylis*. Western extent of rainforest species such as *Dendrocnide excelsa* and *Melicytus dentatus*.

**Comments:** 13.11.7: Threatening processes include high total grazing pressure and wildfire. Rare regional ecosystem.  
13.11.7a: Occurs as small patches south of Warwick.

**Estimated extent:**<sup>1</sup> Pre-clearing 500 ha; Remnant 2021 300 ha

**VM class:** Of concern

**Biodiversity status:** Endangered

**Biodiversity status notes:** A rare regional ecosystem that is more characteristic of inland SEQ and south-eastern Brigalow Belt bioregions. The pre-clearing area has been degraded by pasture improvement and fire.

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## Regional ecosystem 13.11.8

**Description:** Woodland of *Eucalyptus melliodora* and/or *Eucalyptus microcarpa*/ *E. moluccana*. Other *Eucalypts* that are often present include *E. albens*, *E. dealbata*, *E. crebra* and *E. melanophloia*. *Eucalyptus blakelyi* can be an important component in the east. Understorey is generally grassy but a sparse to mid-dense shrub layer can also develop. Occurs on rolling hills, depressions and lower slopes around drainage lines. Not a Wetland. (BVG1M: 15a).

Vegetation communities in this regional ecosystem include:

13.11.8a: *Eucalyptus woollsiana* or *E. moluccana* woodland in the west of the bioregion. Occurs on rolling hills, depressions and lower slopes around drainage lines. Not a Wetland. (BVG1M: 15a).

**Short description:** *Eucalyptus melliodora* and/or *Eucalyptus microcarpa*/ *E. moluccana* woodland on metamorphics

**Supplementary descriptions:** Young and McDonald (1989), 10d in part, Haselgrove and Cant (2009), 11d

**Subregions:** 3, 1, (11.32), (11.31)

**Protected areas:** Sundown NP, Sundown RR

**Extent in reserves:** Low

**Wetland:** Not a Wetland

**Special values:** 13.11.8: Habitat for *Eucalyptus terrica*, a species with a localised distribution.

**Comments:** 13.11.8: Occurs on footslopes and rolling hills often in association with *Eucalyptus conica*, *E. microcarpa* or *E. moluccana*, *E. melliodora* woodland on alluvial plains (13.3.4) and grades into the hill units dominated by various ironbarks and *E. dealbata* (13.11.3 and 13.11.4). It can be recognised on the basis of dominance by *E. melliodora* and *E. microcarpa* or *E. moluccana* but can also include a substantial proportion of *E. albens*, particularly in the south of the bioregion. Extensively cleared, primarily for pasture. Recruitment of canopy species is threatened by grazing.

**Estimated extent:**<sup>1</sup> Pre-clearing 97000 ha; Remnant 2021 26000 ha

**VM class:** Of concern

**Biodiversity status:** Endangered

**Biodiversity status notes:** Recruitment of canopy species restricted by total grazing pressure.

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## Regional ecosystem 13.11.9

**Description:** *Eucalyptus prava*, *Acacia blakei*, *A. neriifolia* open woodland to shrubland with or without heath species on rocky slopes and/or rock pavements on metamorphics. Occurs on Mesozoic to Proterozoic moderately to strongly deformed and metamorphosed sediments and interbedded volcanics. Exposed high altitude ridges, bluffs and mountain tops. Prefers hot exposed situations with skeletal soils and exposed rock outcropping. Not a Wetland. (BVG1M: 29b).

**Short description:** *Eucalyptus prava*, *Acacia blakei*, *A. neriifolia* open woodland to shrubland on rock pavements on metamorphics

**Supplementary descriptions:** Young and McDonald (1989), 9f, Haselgrove and Cant (2009), 11i

**Subregions:** 3, 1

**Protected areas:** Sundown NP, Sundown RR

**Extent in reserves:** High

**Wetland:** Not a Wetland

**Special values:** 13.11.9: Restricted to higher parts of the trap rock country.

**Comments:**

**Estimated extent:**<sup>1</sup> Pre-clearing 400 ha; Remnant 2021 400 ha

**VM class:** Of concern

**Biodiversity status:** Of concern

**Biodiversity status notes:**

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## Regional ecosystem 13.12.1

**Description:** *Eucalyptus campanulata*, *E. deanei*, *E. caliginosa* open forest to woodland +/- *E. biturbinata* +/- *E. banksii*; localised areas of *E. radiata*, *E. saligna*, *E. obliqua*. Occurs on Mesozoic to Proterozoic igneous rocks. Hills and mountains. Not a Wetland. (BVG1M: 15a).

**Short description:** *Eucalyptus campanulata* open forest to woodland on igneous rocks

**Supplementary descriptions:** Young and McDonald (1989), 9c, Sparshott (2009), 10, 11, 12

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

**Protected areas:** Girraween NP

**Extent in reserves:** High

**Wetland:** Not a Wetland

**Special values:** 13.12.1: Habitat for threatened plant species including *Caladenia atroclavia*, *Grevillea scortechinii*, *Phlegmariurus varius*, *Hibbertia elata*, *Persoonia daphnoides*, *Leionema ambiens*, and *Boronia amabilis*.

**Comments:** 13.12.1: Moistest parts of bioregion. Also occurs on small outcrops of Marburg Sandstone north of Dalveen. Limited logging occurring. Fragmentation and altered fire regimes may affect viability. Blackberry infestation common.

**Estimated extent:**<sup>1</sup> Pre-clearing 18000 ha; Remnant 2021 10000 ha

**VM class:** Least concern

**Biodiversity status:** Of concern

**Biodiversity status notes:** The combination of fragmentation and isolation, altered fire frequency and intensity and weeds are having an observable negative impact on species composition.

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## Regional ecosystem 13.12.2

**Description:** *Eucalyptus andrewsii*, *E. youmanii*, *E. prava*, *E. deanei*, *Angophora floribunda*, *Callitris endlicheri* shrubby woodland or open forest. Occurs on Mesozoic to Proterozoic igneous rocks. Rocky hillsides. Not a Wetland. (BVG1M: 15a).

**Short description:** *Eucalyptus andrewsii*, *E. youmanii* woodland on igneous rocks

**Supplementary descriptions:** Young and McDonald (1989), 9b, Sparshott (2009), 9, 12, 13, 14, 15, 16, 20, Haselgrove and Cant (2009), 12a

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

**Protected areas:** Girraween NP, Sundown NP

**Extent in reserves:** High

**Wetland:** Not a Wetland

**Special values:** 13.12.2: Habitat for threatened plant species including *Boronia granitica*, *B. repanda*, *Macrozamia viridis*, *Vincetoxicum woollsii*, *Acacia pubifolia*, *A. ruppii*, *Bertya glandulosa*, *Grevillea scortechinii*, *Phebalium whitei*, *Acacia latisepala*, *Hibbertia elata*, *Conospermum burgessiorum*, *Boronia amabilis*, *Olearia gravis*, *Cryptandra lanosiflora* and *Hakea macrorrhyncha*.

**Comments:** 13.12.2: Altered fire regimes may affect viability.

**Estimated extent:**<sup>1</sup> Pre-clearing 32000 ha; Remnant 2021 22000 ha

**VM class:** Least concern

**Biodiversity status:** No concern at present

**Biodiversity status notes:**

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### Regional ecosystem 13.12.3

**Description:** *Eucalyptus scoparia*, *Eucalyptus andrewsii*, *E. youmanii*, *E. prava*, *Angophora floribunda*, *Callitris endlicheri* shrubby woodland or open forest. *Eucalyptus scoparia* is locally predominant. Occurs on Mesozoic to Proterozoic igneous rocks. Rocky hillsides. Not a Wetland. (BVG1M: 15a).

**Short description:** *Eucalyptus scoparia* woodland on igneous rocks

**Supplementary descriptions:** Young and McDonald (1989), 14, Sparshott (2009), 18

**Subregions:** 1

**Protected areas:** Girraween NP

**Extent in reserves:** High

**Wetland:** Not a Wetland

**Special values:** 13.12.3: *Eucalyptus scoparia* is a vulnerable species.

**Comments:** 13.12.3: A rare ecosystem, wholly contained within Girraween National Park.

**Estimated extent:**<sup>1</sup> Pre-clearing 100 ha; Remnant 2021 100 ha

**VM class:** Of concern

**Biodiversity status:** Of concern

**Biodiversity status notes:**

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### Regional ecosystem 13.12.4

**Description:** *Eucalyptus caliginosa*, *E. tereticornis* grassy open forest. Occurs on Mesozoic to Proterozoic igneous rocks. More gentle topographic situations, especially lower slopes. Not a Wetland. (BVG1M: 15a).

**Short description:** *Eucalyptus caliginosa*, *E. tereticornis* open forest on igneous rocks

**Supplementary descriptions:** Young and McDonald (1989), 9d

**Subregions:** 1, (3), (11.31)

**Protected areas:**

**Extent in reserves:** No representation

**Wetland:** Not a Wetland

**Special values:** 13.12.4: Habitat for *Eucalyptus interstans*, a recently described species with a patchy distribution.

**Comments:** 13.12.4: Restricted to north-eastern fall of tableland. Subject to clearing for pasture.

**Estimated extent:**<sup>1</sup> Pre-clearing 15000 ha; Remnant 2021 6000 ha

**VM class:** Of concern

**Biodiversity status:** Endangered

**Biodiversity status notes:** 10-30% of its pre-clearing extent remains unaffected by severe degradation and/or biodiversity loss and the remnant vegetation is less than 10,000ha.

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### Regional ecosystem 13.12.5

**Description:** *Eucalyptus youmanii*, *E. dealbata*, *E. caleyi*, *E. prava* and *Callitris endlicheri* shrubby woodland +/- *E. banksii*. Occurs on Mesozoic to Proterozoic igneous rocks. Drier hills. Not a Wetland. (BVG1M: 15a).

**Short description:** *Eucalyptus youmanii* on igneous rocks

**Supplementary descriptions:** Young and McDonald (1989), 10a, Sparshott (2009), 9 in part, 14, 17, Haselgrove and Cant (2009), 12b in part

**Subregions:** 1, 3, 2, (11.32)

**Protected areas:** Girraween NP, Sundown NP, Sundown RR

**Extent in reserves:** Medium

**Wetland:** Not a Wetland

**Special values:** 13.12.5: Habitat for threatened plant species including *Astrotricha roddii*, *Homoranthus montanus* and *Acacia pubifolia*.

**Comments:** 13.12.5: Restricted to drier parts of bioregion.

**Estimated extent:**<sup>1</sup> Pre-clearing 25000 ha; Remnant 2021 16000 ha

**VM class:** Least concern

**Biodiversity status:** No concern at present

**Biodiversity status notes:**

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## Regional ecosystem 13.12.6

**Description:** Shrubland and/or heath to areas of bare/lichen covered rocks +/- emergent *Eucalyptus prava*, *E. andrewsii*, *E. youmanii* and *E. codonocarpa*. Occurs on rock pavements on Mesozoic to Proterozoic igneous rocks. Not a Wetland. (BVG1M: 29b).

Vegetation communities in this regional ecosystem include:

13.12.6a: *Eucalyptus codonocarpa* mallee woodland to tall open shrubland to woodland. Occurs on rock pavements on Mesozoic to Proterozoic igneous rocks. Not a Wetland. (BVG1M: 29b).

<b>Short description:</b>	Shrubland and/or heath with areas of bare/lichen covered rocks +/- emergent <i>Eucalypts</i> on igneous rocks
<b>Supplementary descriptions:</b>	Young and McDonald (1989), 30, Sparshott (2009), 16 and 17 in part, 18, 19, 20, 21, Haselgrove and Cant (2009), 12a in part, 12c
<b>Subregions:</b>	1, (3), (2)
<b>Protected areas:</b>	Girraween NP, Sundown NP
<b>Extent in reserves:</b>	High
<b>Wetland:</b>	Not a Wetland
<b>Special values:</b>	13.12.6: Habitat for threatened plant species including <i>Boronia granitica</i> , <i>B. repanda</i> , <i>B. amabilis</i> , <i>Homoranthus papillatus</i> , <i>Phebalium whitei</i> . 13.12.6a: Habitat for threatened plant species including <i>Boronia granitica</i> , <i>B. repanda</i> , <i>B. amabilis</i> , <i>Homoranthus papillatus</i> , <i>Phebalium whitei</i> . Habitat for <i>Eucalyptus codonocarpa</i> , a restricted endemic species, limited to a few sites in high country around Queensland-New South Wales border.
<b>Comments:</b>	
<b>Estimated extent:</b> <sup>1</sup>	Pre-clearing 5000 ha; Remnant 2021 4000 ha
<b>VM class:</b>	Of concern
<b>Biodiversity status:</b>	Of concern
<b>Biodiversity status notes:</b>	

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## Regional ecosystem 13.12.8

**Description:** Woodland of *Eucalyptus melliodora* and/or *Eucalyptus moluccana*/ *E. microcarpa* and/or *E. conica*. Other canopy species that may be present include *Angophora floribunda*, *Eucalyptus caliginosa* and *E. blakelyi*. Understorey is generally grassy but a sparse to mid-dense shrub layer can also develop. Occurs in the drier, lower altitude areas on undulating plains and lower slopes in granitic basins. Not a Wetland. (BVG1M: 15a).

<b>Short description:</b>	<i>Eucalyptus melliodora</i> and/or <i>E. moluccana</i> and/or <i>E. microcarpa</i> and/or <i>E. conica</i> woodland on igneous rocks
<b>Supplementary descriptions:</b>	Young and McDonald (1989), 10d in part, Sparshott (2009), 9
<b>Subregions:</b>	1, 3, (2)
<b>Protected areas:</b>	Girraween NP, Sundown NP
<b>Extent in reserves:</b>	Low
<b>Wetland:</b>	Not a Wetland
<b>Special values:</b>	13.12.8: Potential habitat for NCA listed species: <i>Bertya recurvata</i> , <i>Mirbelia confertiflora</i> .
<b>Comments:</b>	13.12.8: Cleared for agriculture and horticulture.
<b>Estimated extent:</b> <sup>1</sup>	Pre-clearing 25000 ha; Remnant 2021 4000 ha
<b>VM class:</b>	Endangered
<b>Biodiversity status:</b>	Endangered
<b>Biodiversity status notes:</b>	

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## Regional ecosystem 13.12.9

**Description:** Woodland to open forest of *Eucalyptus blakelyi* and/or *E. caliginosa* and/or *E. dalrympleana*. Other canopy species include *E. conica*, *E. bridgesiana*, *E. melliodora* and *E. youmanii*. Occurs on plains and rolling hills in granite basins. Not a Wetland. (BVG1M: 15a).

**Short description:** *Eucalyptus blakelyi* and/or *E. caliginosa* woodland to open forest on igneous rocks

**Supplementary descriptions:** Young and McDonald (1989), 9a, Sparshott (2009) 6 in part

**Subregions:** 1, (2)

**Protected areas:** Girraween NP

**Extent in reserves:** Low

**Wetland:** Not a Wetland

**Special values:** 13.12.9: Habitat for threatened plant species including *Grevillea scortechinii*, *Acacia ruppia* and *Pterostylis woollsii*.

**Comments:** 13.12.9: Differs from 13.3.1 in land zone and secondary species. Cleared for agriculture and horticulture.

**Estimated extent:**<sup>1</sup> Pre-clearing 24000 ha; Remnant 2021 5000 ha

**VM class:** Endangered

**Biodiversity status:** Endangered

**Biodiversity status notes:**

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## Regional ecosystem 13.12.10

**Description:** *Eucalyptus crebra*, *Eucalyptus tereticornis*, *Angophora leiocarpa* woodland. Occurs on igneous rocks. Not a Wetland. (BVG1M: 13c).

**Short description:** *Eucalyptus crebra*, *E. tereticornis*, *Angophora leiocarpa* woodland on igneous rocks

**Supplementary descriptions:** Young and McDonald (1989), 10e

**Subregions:** 3

**Protected areas:**

**Extent in reserves:** No representation

**Wetland:** Not a Wetland

**Special values:**

**Comments:**

**Estimated extent:**<sup>1</sup> Pre-clearing 18000 ha; Remnant 2021 2000 ha

**VM class:** Endangered

**Biodiversity status:** Endangered

**Biodiversity status notes:**

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## Regional ecosystem 13.12.11

**Description:** Angophora floribunda with semi-evergreen vine thicket species, Ficus spp., Dendrocnide excelsa, E. melliodora, Alphitonia excelsa open forest in deep sheltered gorges or gully beds or lower talus granitic slopes. Occurs on Mesozoic to Proterozoic igneous rocks. Colluvium of Ruby Creek Granite. Not a Wetland. (BVG1M: 7a).

**Short description:** Semi-evergreen vine thicket, Angophora floribunda open forest on igneous rocks

**Supplementary descriptions:** Young and McDonald (1989), 9f, Haselgrove and Cant (2009), 12d

**Subregions:** 1, 3

**Protected areas:** Sundown NP

**Extent in reserves:** High

**Wetland:** Not a Wetland

**Special values:**

**Comments:** 13.12.11: Occurs in Sundown National Park.

**Estimated extent:**<sup>1</sup> Pre-clearing 30 ha; Remnant 2021 30 ha

**VM class:** Of concern

**Biodiversity status:** Of concern

**Biodiversity status notes:**

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<sup>1</sup> 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/>)

<sup>2</sup> 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.