Coastal Burnett Region Plant Index

Common name	Scientific name	Page	
African lovegrass*	Eragrostis curvula	CB01, CB02, CB03, CB04, CB05, CB09, CB10	
Angleton grass*	Dichanthium aristatum cv. Floren	CB02, CB05, CB08, CB11	
annual chloris*	Chloris virgata	CB03, CB07	
annual ragweed*	Ambrosia artemisiifolia	CB08	
axilaris*	Macrotyloma axillare	CB11	
bahia grass*	Paspalum notatum	CB02, CB03	
barbwire grass	Cymbopogon refractus	CB01, CB03, CB04, CB06, CB07, CB09, CB10	
black speargrass	Heteropogon contortus	CB01, CB02, CB03, CB05, CB06, CB07, CB09, CB10, CB12	
blady grass	Imperata cylindrica	CB01, CB02, CB06, CB09, CB10	
bloodwoods	Corymbia spp.	CB01, CB03, CB06, CB07, CB09, CB10, CB12	
blue gum	Eucalyptus tereticornis	CB02, CB03, CB04, CB08, CB12	
blue heliotrope	Heliotropium amplexibaule	CB09, CB11	
bottletree	Brachychiton rupestris	CB05, CB11	
bottlewasher grasses	Enneapogon spp.	CB03, CB07	
Burdekin plum	Pleiogynium timorense	CB05	
Caatinga stylo/s*	Stylosanthes seabrana	CB08	
Caribbean stylo/s*	Stylosanthes hamata	CB01, CB02, CB10	
cockatoo grass	Alloteropsis semialata	CB01, CB09, CB10	
creeping bluegrass*	Bothriochloa insculpta	CB01, CB02, CB03, CB05, CB0 CB08, CB09	
creeping lantana*	Lantana montevidensis	CB05, CB07	
crow's ash	Flindersia australis	CB05, CB11	
cycads	Cycadaceae, Zamiaceae	CB06, CB09	
feathertop Rhodes grass see annual chloris*	Chloris virgata		
fine stem stylo/s	Stylosanthes hippocampoides formerly Stylosanthes guianensis var. intermedia	CB02, CB03, CB05, CB06, CB07, CB08, CB09	



Common name	Scientific name	Page
forest bluegrass	Bothriochloa bladhii	CB02, CB03, CB05, CB07, CB08, CB09, CB11
forest red gum see also blue gum	Eucalyptus tereticornis	
giant rat's tail grass*	Sporobolus pyramidalis, S. natalensis	CB01, CB02, CB03, CB04, CB05, CB07, CB08, CB09, CB10, CB11, CB12
glycine*	Neonotonia wightii	CB11
golden beard grass	Chrysopogon fallax	CB09, CB10, CB12
grasstree	Xanthorrhoea species (including X. johnsonii, X latifolia)	CB06, CB10
green panic*	Panicum maximum var. trichoglume	CB11
grey box <i>see also</i> gum-topped box		
grey ironbark see also narrow- leaved ironbark		
groundsel bush*	Baccharis halimifolia	CB01, CB10, CB12
gum-topped box	Eucalyptus moluccana	CB02, CB04
hoop pine	Araucaria cunninghamii	CB05
humidicola*	Brachiaria humidicola	CB12
kangaroo grass	Themeda triandra	CB01, CB02, CB03, CB04, CB05, CB06, CB07, CB09, CB10, CB12
koronivia grass see also humidicola*		
lantana*	Lantana camara	CB03, CB05, CB06, CB07, CB09, CB10, CB11
leucaena	Leucaena leucocephala	CB08, CB11
Lloyd's mock olive	Notelaea Iloydii	CB10
lotononis*	Lotononis bainesii	CB01, CB02, CB03, CB10, CB12
lovegrass	Eragrostis sp.	CB04, CB09
Moreton Bay ash	Corymbia tessellaris	CB02, CB08
narrow-leaved ironbark	Eucalyptus crebra (includes grey ironbark E. drepanophylla)	CB01, CB03, CB04, CB06, CB07, CB09, CB10
native chloris	Chloris species (including C. divaricata, C. truncata, C. ventricosa)	CB05
native sorghum	Echinochloa turneriana	CB08
pangola grass*	Digitaria eriantha subsp. pentzii	CB01, CB02, CB03, CB11, CB12



Common name	Scientific name	Page
paperbark tea tree	Melaleuca quinquenervia	CB12
paspalum*	Paspalum dilatatum	CB02
pink bloodwood	Corymbia intermedia Syn. Eucalyptus intermedia	CB08
pitted bluegrass	Bothriochloa decipiens	CB02, CB03, CB04, CB05, CB06, CB07, CB08, CB09, CB11
poverty grass	Eremochloa bimaculata	CB01, CB06, CB10, CB12
Queensland blue couch*	Digitaria didactyla	CB01, CB02, CB03, CB04, CB05, CB06, CB07, CB08, CB09, CB10, CB11, CB12
Queensland bluegrass	Dichanthium sericeum	CB02, CB05, CB07, CB08, CB11
Queensland peppermint	Eucalyptus exserta	CB01, CB10
rat's tail grasses	Sporobolus spp.	CB03, CB06, CB07
red ironbark	Eucalyptus fibrosa subspecies fibrosa	CB10
Rhodes grass*	Chloris gayana cvv. Callide, Katambora	CB01, CB02, CB03, CB05, CB07, CB08, CB09, CB11
rusty gum see also smooth- barked apple		
scentedtop	Capillipedium parviflorum, C. spicigerum*	CB02, CB11
shrubby stylo/s*	Stylosanthes scabra	CB01, CB02, CB04, CB05, CB06, CB07, CB09, CB10
signal grass*	Urochloa decumbens	CB01, CB03, CB07, CB09
silver-leaved ironbark	Eucalyptus melanophloia	CB02, CB07, CB08
siratro*	Macroptilium atropurpureum	CB01, CB02, CB03, CB05, CB07, CB08, CB09, CB10, CB11
smooth-barked apple	Angophora leiocarpa	CB01, CB10
spotted gum	Eucalyptus citriodora subsp. variegata	CB04, CB06, CB09, CB10
stringybark	Eucalyptus tindaliae, E. eugenioides	CB01, CB10
supplejack	Ventilago viminalis	CB06
swamp foxtail	Pennisetum alopecuroides	CB02
swamp mahogany	Eucalyptus robusta, Lophostemon suaveolens	CB12
swamp orchid	Phaius australis, P. tancarvilleae	CB12
tambookie grass	Hyparrhenia filipendula	CB03, CB05, CB07, CB09



Common name	Scientific name	Page	
thatch grass*	Hyparrhenia rufa	CB03	
thin-leaved stringybark	Eucalyptus eugenioides	CB06	
turpentine grass	Cymbopogon refractus	CB06	
villomix*	Aeschynomene villosa cvv. Reid, Kretschmer	CB01, CB12	
Villose jointvetch see also villomix*			
wattles	Acacia spp.	CB03, CB04, CB06, CB07, CB09	
white cedar	Melia azedarach	CB11	
white stringybark	Eucalyptus tindaliae	CB06	
wiregrass/es	Aristida spp.	CB02, CB03, CB04, CB05, CB06, CB07, CB08, CB09, CB11	
Wynn cassia*	Chamaecrista rotundifolia cv. Wynn	CB01, CB03, CB04, CB05, CB06, CB07, CB09	
white mahogany	Eucalyptus acmenoides	CB06	

^{*} Denotes non-native species



Bloodwood and stringybark (coastal plains)



Landform

Level to gently undulating plains and low hills.

Woody vegetation

Bloodwoods, stringybarks, narrow-leaved ironbark, grey ironbark, Queensland peppermint and smooth-barked apple.

Expected pasture composition

* Denotes non-native "Expected Pasture Composition" species

Preferred

Barbwire grass, black speargrass, kangaroo grass.

Intermediate

Queensland blue couch*, cockatoo grass.

Non-preferred

Poverty grass, blady grass.

Suitable sown pastures

Rhodes grass, creeping bluegrass, signal grass, pangola grass, lotononis, shrubby and Caribbean stylos, siratro, villomix.

Introduced weeds

Giant rat's tail grass, African lovegrass, groundsel bush.

Soil

Grey, red and yellow earths, soloths, solodics and podzols (kandosols, kurosols, sodosols).

Description

Surface: Hard-setting; **Surface texture:** sandy loam; **Subsoil texture:** light sandy clay loam. Often ironstone gravel found throughout profile, and nodular pans may be present at depth.

Water availability

Medium

Infiltration

Poor to slow.

Drainage

Poorly drained.

Fertility

Low nitrogen; very low phosphorus.

Salinity

Non-saline

Sodicity

Non-sodic

pН

Slightly acid.





Grey earth

Depth (cm)	Description
0–10	Grey, sandy loam. Massive structure. Hard setting surface; pH 6.0. Gradual to
10–65	yellow mottled, yellow brown, light sandy clay loam. Massive structure. pH 6.3. Clear to
65–85	yellow and red mottled, yellow brown, light sandy clay loam. Massive structure. Many ferruginous nodules; pH 6.3. Sharp to
90–110	very strongly cemented nodular sesquioxide pan.

Long-term carrying capacity information (A condition)

Based on fully watered area for 1AE = 450 kg animal consuming 8kg DM/day					
Median annual ra	infall 870 – 1018 n	nm			
Pasture type Median tree cover Median annual pasture growth Safe annual utilisation pasture growth					
	(TBA m²/ha) (FPC %)	(DM kg/ha)	(%)	(ha/AE)	
Native species	0 TBA/FPC	2450 - 2520	30%	3.9 – 4.0	
	19 TBA 45 FPC	420 - 430	30%	23	
Sown 40% +fertiliser					

Enterprise

Breeding, growing, fattening.

Land use and management recommendations

- Suitable for pasture development provided maintenance fertiliser (super phosphate) is applied every 2–3 years.
- Suitable for cropping (cane).

Land use limitations

- Serious regrowth potential following disturbance.
- Low inherent fertility which needs to be corrected to maintain sown pastures.
- Not suitable for native of plantation forestry (suitable for fencing timber only).
- Conservation features and related management
- Mature coastal woodlands can be rich in wildlife supporting sugar gliders, arboreal marsupials, hollow breeding birds, birds of prey and micro bats.
- Retention of ground litter provides important habitat for ground-dwelling reptiles.
- The small seasonal wetlands associated with this land type support an array of amphibians and aquatic invertebrates. De-stocking these areas during the growing season will be of benefit to pastures and wildlife.
- These woodlands have evolved with fire and are best managed with a range of fire regimes and intensities that result in a mosaic of habitat areas and feed areas. Too frequent, hot fires are damaging.
- Although currently not of concern, the larger regional ecosystems have been
 extensively cleared (and fragmented) for cropping, grazing and peri-urban
 development. Managing regrowth to link native vegetation remnants is desirable.

Regional Ecosystems

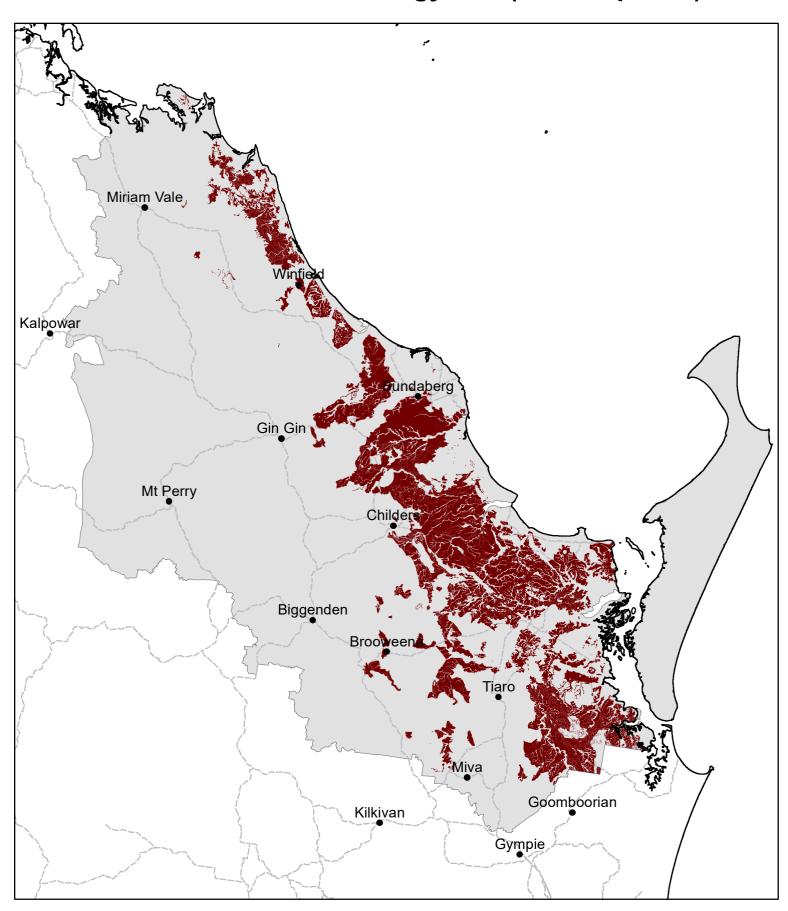
12.3.12, 12.3.15, 12.5.4, 12.5.5, 12.5.8, 12.5.11, 12.5.12, 12.9–10.21, 12.9-10.1x1, 12.9-10.9.

Land resource area

Coastal plains (Glanville et al 1991).



CB01 Bloodwood and stringybark (coastal plains)



Area of land type in region: 15% Median rainfall (region): 785–1111 mm Average rainfall (region): 808–1195 mm

Area of land type with FPC: 71%

Median FPC: 45% Median TBA: 19 m2/ha



Blue gum flats



Landform

Level alluvial plains (moderately extensive).

Woody vegetation

Blue gum, Moreton bay ash, silver-leaved ironbark, gum-topped box.

Expected pasture composition

* Denotes non-native "Expected Pasture Composition" species

Preferred

Forest bluegrass, scentedtop, Queensland bluegrass, black speargrass, paspalum*, kangaroo grass.

Intermediate Non-preferred Pitted bluegrass, Queensland blue couch*, Angleton grass*, bahia grass*.

Wiregrasses, blady grass, swamp foxtail.

Suitable sown pastures

Creeping bluegrass, Rhodes grass, pangola grass, fine stem, shrubby and Caribbean stylos, siratro, lotononis.

Introduced weeds

Giant rat's tail grass, African lovegrass.

Soil

Coarse structured clays, alluvial loams and alluvial black earths (vertosol, rudosols).

Description

Surface: May crack when dry; **Surface texture:** sandy clay; **Subsoil texture:** medium to heavy clay.

Water availability

High to medium (depending on soil depth and depth to sodic subsoil).

Infiltration

Moderate

Drainage

Poor internal and external drainage (can become waterlogged).

Fertility

Moderate total nitrogen; moderate phosphorus.

Salinity

Can contain saline subsoils (depending on parent material).

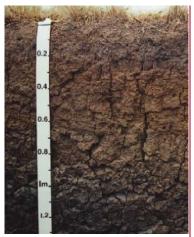
Sodicity

Can contain sodic subsoils (depending on parent material).

рН

Slight acidity, increasing at depth.





Coarse structure clay

Depth (cm)	Description
0–10	Dark brown, sandy clay; strong blocky structure; pH 6.0. Clear change to
10–25	brown, medium clay; strong blocky structure; some gravel; pH 7.5. Gradual change to
25–65	brown, medium clay; moderate coarse blocky structure, faint orange mottles; pH 6.0. Gradual change to
65–140	grey, heavy clay; moderate coarse lenticular structure, distinct orange mottles; pH 5.5.

Long-term carrying capacity information (A condition)

Based on fully watered area for 1AE = 450 kg animal consuming 8kg DM/day				
Median annual ra	infall 823 – 1018 n	nm		
Pasture type Median tree cover Median annual pasture growth Safe annual utilisation pasture growth				
	(TBA m²/ha) (FPC %)	(DM kg/ha)	(%)	(ha/AE)
Native species	0 TBA/FPC	4250 - 4570	35%	1.8 – 2.0
	17 TBA 41 FPC	2210 - 2470	35%	3.4 – 3.8
Sown			40%	

Enterprise

Breeding, growing and fattening.

Land use and management recommendations

- Extensively cleared for grazing and cropping.
- Suitable for sown pasture.
- Suitable for plantation timber.
- Remnant vegetation suitable for native hardwood production.

Land use limitations

- Flats become waterlogged during prolonged wet weather.
- Eucalypt regrowth can limit productivity.

Conservation features and related management

- While blue gum is common, few extensive, intact remnants remain. Tree hollows
 often found in large, old blue gums are important nesting sites and provide habitat
 for birds and marsupials.
- Blue gum regenerates readily in the absence of grazing and regular fire.
- Regrowth can be encouraged to allow remnants to expand and establish connection with other areas of remnant vegetation. Regrowth has hardwood potential.
- Many of the freshwater wetlands in the coastal Burnett are associated with this land type.

Regional Ecosystems

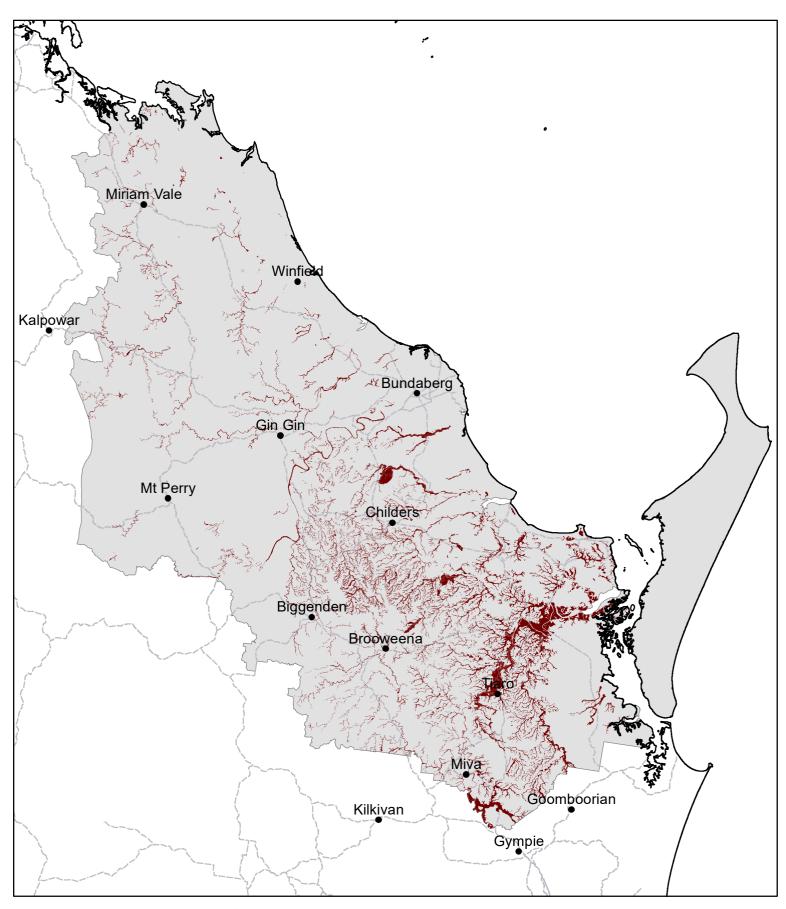
12.3.3d, 12.3.7, 12.3.7b, 12.3.7d, 12.3.11, 12.3.11a, 12.3.11b.

Land resource area

Alluvium (Glanville et al 1991).



CB02 Blue gum flats



Area of land type in region: 5%

Median rainfall (region): 785–1111 mm Average rainfall (region): 808–1195 mm

Area of land type with FPC: 70%

Median FPC: 41% Median TBA: 17 m2/ha



Blue gum, ironbark and bloodwood slopes and hollows



Landform

Undulating to rolling rises and plains.

Woody vegetation

Blue gum, narrow-leaved ironbark, bloodwood and wattles.

Expected pasture composition

* Denotes non-native "Expected Pasture Composition" species

Preferred

Forest bluegrass, tambookie grass, black speargrass, kangaroo grass.

Intermediate

Pitted bluegrass, Queensland blue couch*, barbwire grass, thatch grass*, bahia grass*.

bania gra

Non-preferred

Wiregrasses, bottlewasher grasses, rat's tail grasses.

Annuals

Annual chloris*.

Suitable sown pastures

Creeping bluegrass, Rhodes, signal, pangola grass, fine stem and shrubby stylos, siratro, lotononis, Wynn cassia.

Introduced weeds

Giant rat's tail grass, African lovegrass, lantana.

Soil

Yellow podzolic and soloths (kurosols).

Description

Surface: Firm; **Surface texture:** sandy loam; **Subsoil texture:** clay loam to light clay.

Water availability

Medium

Infiltration

Good

Drainage

Slowly permeable, subsoil can impede drainage.

Fertility Salinity Low to very low total nitrogen; variable phosphorus. Non-saline

Sodicity

Non-sodic

рH

Acidic

Land types of Queensland Coastal Burnett Region





Yellow podzolic

Depth (cm)	Description
0–20	Brownish black, sandy loam. Massive structure. Firm surface. pH 6.0. Gradual to
20–90	light yellow brown, sandy loam to clay loam. Massive to weak blocky structure. pH 6.0–6.5. Clear to
90–135	red mottled, yellow, light clay. Weak to moderate angular blocky structure. pH 6.0.

Long-term carrying capacity information (A condition)

Based on fully watered area for 1AE = 450 kg animal consuming 8kg DM/day					
Median annual rai	infall 823 – 1000 n	nm			
Pasture type Median tree cover Median annual pasture growth Safe annual utilisation pasture growth					
	(TBA m²/ha) (FPC %)	(DM kg/ha)	(%)	(ha/AE)	
Native species	0 TBA/FPC	2610 - 2630	35%	3.2	
	19 TBA 45 FPC	490 - 860	35%	10 – 17	
Sown			40%		

Enterprise

Breeding and growing.

Land use and management recommendations

- Extensive grazing.
- An important land type for native timber production.
- Sown pasture development suitable on lower slopes and hollows.

Land use limitations

- Significant eucalypt and wattle regrowth following clearing.
- High erosion risk during pasture establishment or following prolonged heavy grazing.
- Blue couch dominates in heavily grazed areas.
- Careful pasture management is required to avoid cassia dominance developing.

Conservation features and related management

- Extensively cleared for native pasture in some areas; relatively intact in others.
- These land types are generally grassy woodlands that provide habitat for larger marsupials. Hollow bearing habitat trees are important nesting sites for birds and arboreal mammals.
- Landscape health can be enhanced through appropriate fire regimes and grazing management that allows regrowth to develop into effective wildlife corridors.

Regional Ecosystems

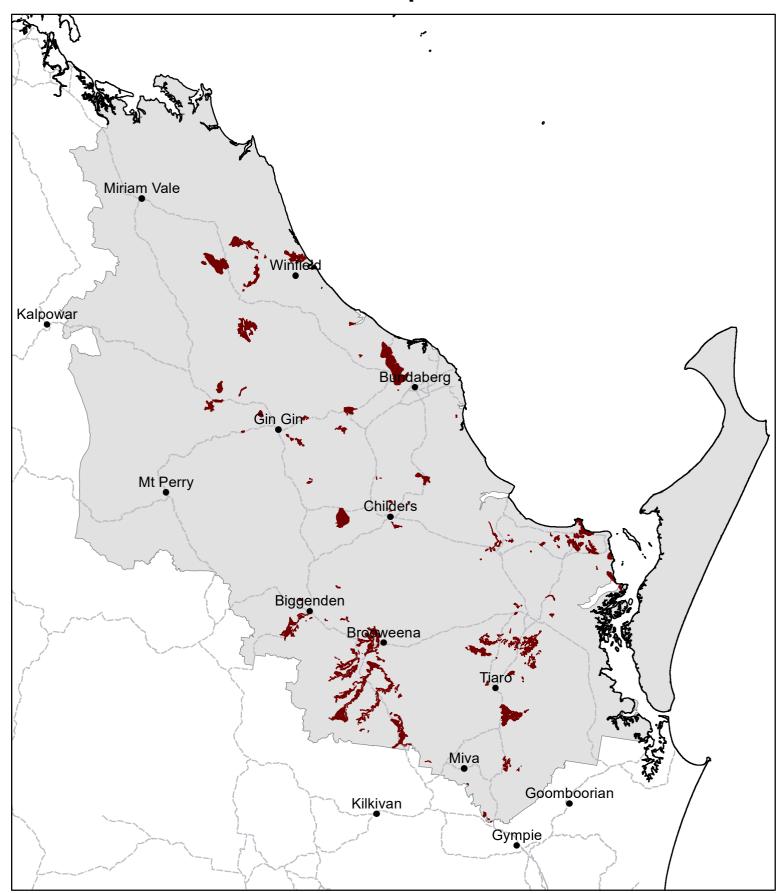
12.5.2, 12.5.2a, 12.5.2b, 12.5.2x1, 12.9-10.7a, 12.11.9, 12.11.15, 12.11.9x1, 12.12.12.

Land resource area

Granite (Glanville et al 1991).



CB03 Blue gum, ironbark and bloodwood slopes and hollows



Area of land type in region: 2%

Median rainfall (region): 785–1111 mm Average rainfall (region): 808–1195 mm

Area of land type with FPC: 43%

Median FPC: 45% Median TBA: 19 m2/ha



Gum-topped box



Landform

Undulating plains, low hills and ridges.

Woody vegetation

Gum-topped box, narrow-leaved ironbark, blue gum, spotted gum and wattles.

Expected pasture composition

* Denotes non-native "Expected Pasture Composition" species

Preferred

Pitted bluegrass, barbwire grass, kangaroo grass.

Intermediate

Queensland blue couch*, lovegrasses.

Non-preferred

Wiregrasses.

Suitable sown pastures

Not suitable for sown pastures. Oversow with legumes: shrubby stylo, Wynn cassia.

Introduced weeds

Giant rat's tail grass, African lovegrass.

Soil

Soloths and solodics (sodosols).

Description

Surface: Hard-setting; **Surface texture:** clay loam; **Subsoil texture:** medium to heavy clay.

Water availability

Low (due to sodic subsoil).

Infiltration

Moderate at the surface.

Drainage

Impermeable and poorly drained sodic subsoil.

Fertility

Low nitrogen; low to moderate phosphorus.

Salinity

Non-saline

Sodicity

Sodic subsoil.

pН

Acidic throughout profile (soloths); acidic increasing to strongly alkaline at depth (solodics).





Loamy solodic

Depth (cm)	Description
0–20	Dark greyish brown, clay loam weak blocky structure; pH 5.5. Clear change to
20–30	bleached sandy clay loam; massive; very hard when dry; traces of soft manganese nodules; pH 6.4. Abrupt change to
30–100	yellow brown, medium heavy clay; moderate medium blocky structure; pH 8.5. Gradual change to
100–130	grey medium clay; weak blocky structure; pH 9.0

Long-term carrying capacity information (A condition)

Based on fully wa	Based on fully watered area for 1AE = 450 kg animal consuming 8kg DM/day					
Median annual ra	infall 870 – 1018 n	nm				
Pasture type Median tree cover Median annual pasture growth Safe annual utilisation pasture growth						
	(TBA m²/ha) (FPC %)	(DM kg/ha)	(%)	(ha/AE)		
Native species	0 TBA/FPC	2380 - 2410	25%	4.8 - 4.9		
	14 TBA 35 FPC	620 - 630	25%	19		

Enterprise

Breeding and growing.

Land use and management recommendations

- Generally not suitable for pasture development, especially on sloping ground.
- Dam banks need to be sufficiently compacted during construction to prevent tunnelling and bank failure.
- Timber quality is highly variable; many stands are unsuitable for native forest management.

Land use limitations

- Very susceptible to erosion.
- Maintaining adequate ground cover is critical.
- Timber regrowth is a major issue following mechanical disturbance.

Conservation features and related management

- Remnant woodlands are important habitat for gliders, possums, koalas, tree creepers, speckled warblers, powerful owls and ground foraging birds.
- These woodlands provide important corridors through the landscape for both resident and dispersing fauna.
- Frequent fires reduce the shrubby understorey, but variable fire regimes encourage mosaics.
- Heavy grazing reduces fuel loads and exposes the soil surface to erosion.

Regional Ecosystems

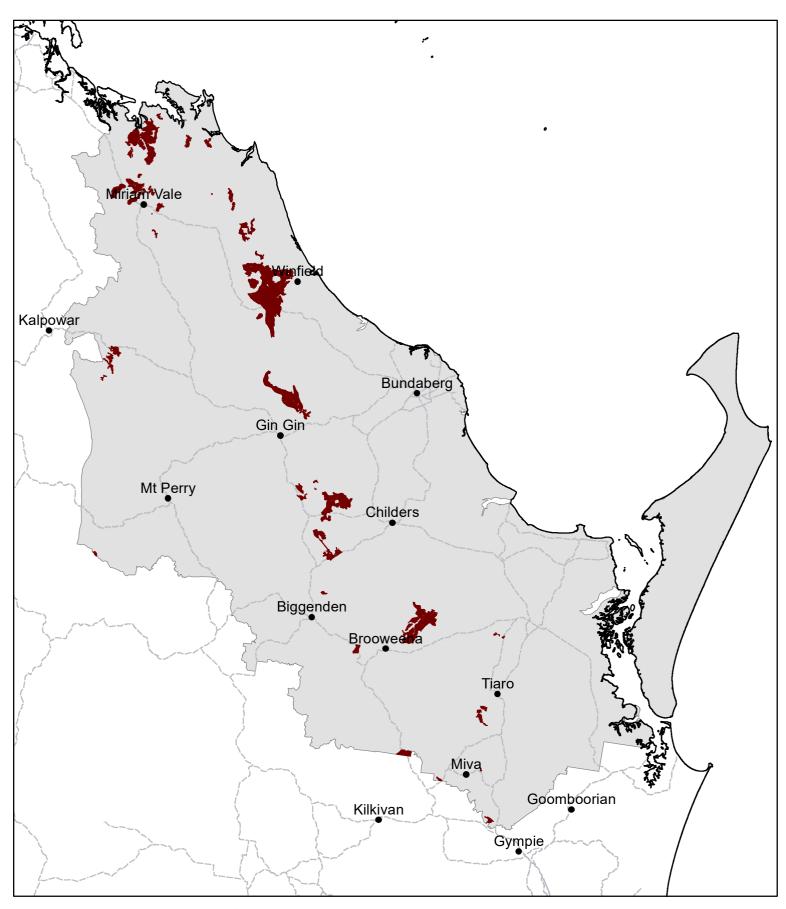
12.11.18, 12.11.18a, 12.12.28.

Land resource area

Uplifted coastal plains, metamorphic (Glanville et al 1991).



CB04 Gum-topped box



Area of land type in region: 2%

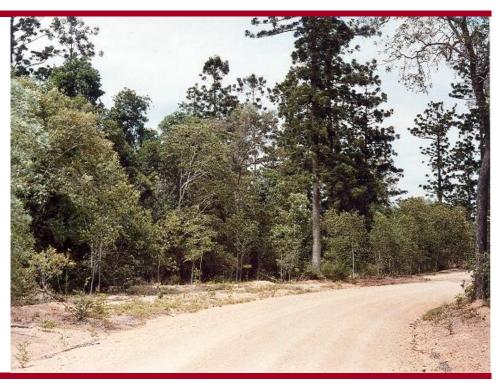
Median rainfall (region): 785–1111 mm Average rainfall (region): 808–1195 mm

Area of land type with FPC: 60%

Median FPC: 35% Median TBA: 14 m2/ha



Hoop pine scrub



Landform

Woody vegetation

Expected pasture composition

Preferred Intermediate Non-preferred

Suitable sown pastures

Introduced weeds

Soil

Water availability

Description

Infiltration

Drainage

Fertility

Salinity

Sodicity pH Mountains and undulating to rolling rises and plains.

Hoop pine with depauperate rainforest understorey. Crow's ash, Burdekin plum and bottletrees also occur.

Forest bluegrass, Queensland bluegrass, black speargrass, kangaroo grass. Pitted bluegrass, tambookie grass, Queensland blue couch*, Angleton grass*. Wiregrasses, native chloris.

Creeping bluegrass, Rhodes grass, fine stem and shrubby stylos, siratro, Wynn cassia.

Creeping lantana, lantana, giant rat's tail grass, African lovegrass.

Prairie soils, non-calcic brown soils and lithosols (chromosols, rudosols).

Surface: Hard-setting; **Surface texture:** clay loam; **Subsoil texture:** clay loam to light medium clay.

Medium (depending on soil depth).

Slow to moderate.

Permeable, moderately well drained.

Moderate to high total nitrogen; moderate to high phosphorus.

/ Non-sodic

INOTI-SOUIC

Non-saline

Neutral or slightly acid; neutral, slightly alkaline or alkaline at depth.



^{*} Denotes non-native "Expected Pasture Composition" species



Minimal Prairie soil

Depth (cm)	Description
0–20	Dark brown, clay loam; strong granular structure; pH 6.5. Gradual change to
20–50	brown, medium clay; strong blocky structure; some gravel; pH 7.5. Gradual change to
50-75	light Brown, light medium clay; strong blocky structure; gravely; pH 7.5. Gradual change to
75+	light brown, clay loam; weakly structured; very gravely; pH 8.5 (weathered basalt).

Long-term carrying capacity information (A condition)

Based on fully watered area for 1AE = 450 kg animal consuming 8kg DM/day						
Median annual ra	Median annual rainfall 823 – 942 mm					
Pasture type	Median tree cover	Median annual pasture growth	Safe annual utilisation pasture growth	LTCC		
	(TBA m²/ha) (FPC %)	(DM kg/ha)	(%)	(ha/AE)		
Native species	0 TBA/FPC	4510 - 4690	30% (sown)	2.1 – 2.2		
	27 TBA 61 FPC	< 1600 - 2130	30% (sown)	> 4.6 – 6.1		

Enterprise

Breeding, growing and fattening.

Land use and management recommendations

- Many areas were extensively cleared during the early 1900s for dryland cane production. Cane production was phased out during the 1960s primarily because of the high erosion hazard associated with the topography of this land type, but also because of the decline in productivity and greater productivity potential of irrigated cane.
- Suitable for pasture development provided slope limitations are considered.

Land use limitations

- Slope constraints.
- Old cane land can be contaminated with pesticides.
- Wattle regrowth and invasion by poison peach can limit productivity.

Conservation features and related management

- Habitat for rare and threatened flora and fauna.
- Remnants are threatened by weed invasion and fire on their margins. The use of fire breaks and cool season burns reduce this risk. Seasonal light grazing will reduce fuel loads.
- Remnant scrubs are used by a range of birds, reptiles and marsupials (wallabies in particular) for habitat. The fauna use the surrounding grassy woodlands or cleared paddocks as feed areas.
- Natural regeneration can be encouraged to develop connectivity with other areas of remnant vegetation.

Regional Ecosystems

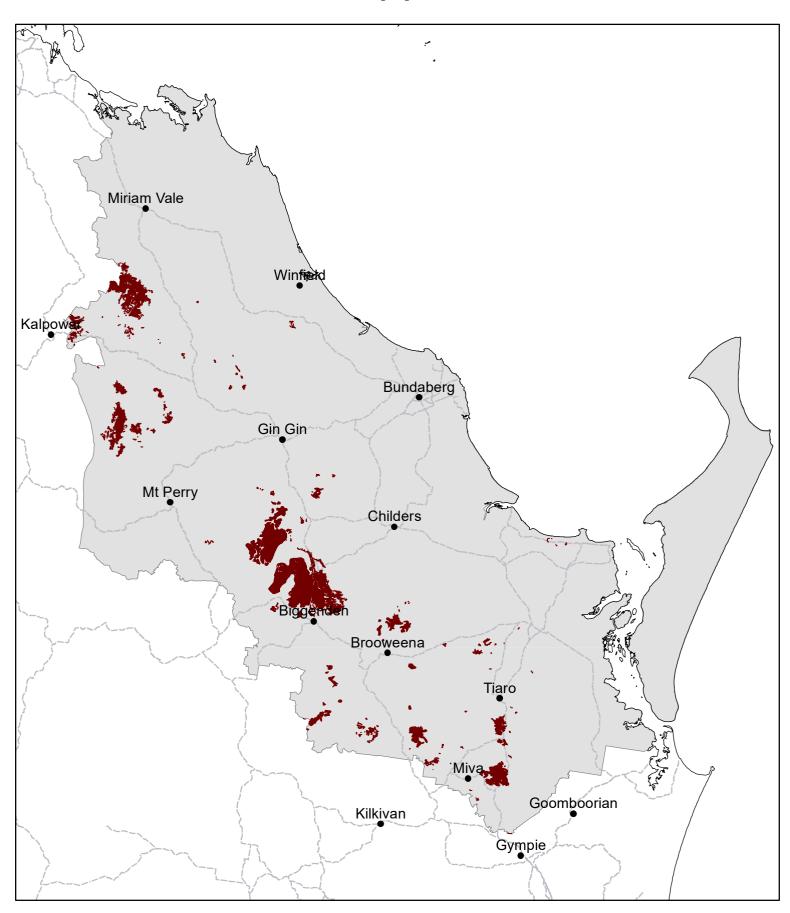
12.2.3, 12.11.10, 12.11.12, 12.11.16.

Land resource area

Metamorphic (Glanville et al 1991).



CB05 Hoop pine scrub



Area of land type in region: 3%

Median rainfall (region): 785 – 1111 mm Average rainfall (region): 808 – 1195 mm

Area of land type with FPC: 65%

Median FPC: 61% Median TBA: 27 m2/ha



Ironbark, stringybark and supplejack ridges



Landform

Mountains and low hills.

Woody vegetation

Narrow-leaved ironbark, grey ironbark, white mahogany, white stringybark, thinleaved stringybark, spotted gum, bloodwoods, turpentine, wattles, grass tree and supplejack.

Expected pasture composition

* Denotes non-native "Expected Pasture Composition" species

Preferred

Barbwire grass, black speargrass, kangaroo grass.

Intermediate

Pitted bluegrass, Queensland blue couch*, poverty grass.

Non-preferred

Wiregrasses, blady grass, rat's tail grasses.

Suitable sown pastures

Not suitable for sown pastures. Oversow with legumes: shrubby stylo, fine stem stylo, Wynn cassia.

Introduced weeds

Lantana.

Soil

Lithosols, yellow and red podzols, soloths and solodics (rudosols, kurosols, sodosols).

Description

Surface: Firm to hard-setting; Surface texture: sandy clay loam; Subsoil texture: clay loam to medium clay; weathered bedrock.

Water availability

Very low (shallow soils).

Infiltration

Variable depending on parent material (generally good on granite).

Drainage

Permeable, very well drained.

Fertility

Very low total nitrogen; very low phosphorus.

Salinity

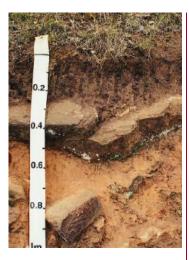
Non-saline

Sodicity

Non-sodic (as shallow solodic soils).

Acidic throughout profile (podzols, soloths); acidic increasing to strongly alkaline at depth (solodics).





Lithosol

Depth (cm)	Description
0–25	Dark brown, sandy clay loam; coarse weak blocky structure; pH 6.0. Clear change 0.25+
25+	fractured rock (granite) interspersed with weathering rock.

Long-term carrying capacity information (A condition)

Based on fully watered area for 1AE = 450 kg animal consuming 8kg DM/day						
Median annual ra	Median annual rainfall 823 – 1018 mm					
Pasture type Median tree cover Median annual pasture growth Safe annual utilisation pasture growth						
	(TBA m²/ha) (FPC %)	(DM kg/ha)	(%)	(ha/AE)		
Native species	0 TBA/FPC	2510 - 2530	25%	4.6 – 4.7		
	23 TBA 54 FPC	<160 - 170	25%	> 69 - 73		

Enterprise

Breeding

Land use and management recommendations

- Unsuitable for pasture development.
- Suitable for native forestry.
- Low key legume establishment only.
- Regular fire regime required to manage shrubby understorey (supplejack and lantana in particular).

Land use limitations

- Slope, shallow and rocky soils are constraints to development.
- Deeper sandy soils occur on plateaus.
- Infertile soils (particularly deficient in phosphorous).

Conservation features and related management

- Habitat for rare and threatened flora including Persoonia species and cycads.
- Relatively uncleared, these land types provide valuable resources for forest dependent fauna such as possums, gliders, forest owls, micro bats, insectivorous birds and arboreal and ground dwelling reptiles.
- Retaining adequate numbers of habitat trees is important in maintaining habitat for these species.
- Frequent fire regimes can reduce the shrubby understorey.

Regional Ecosystems

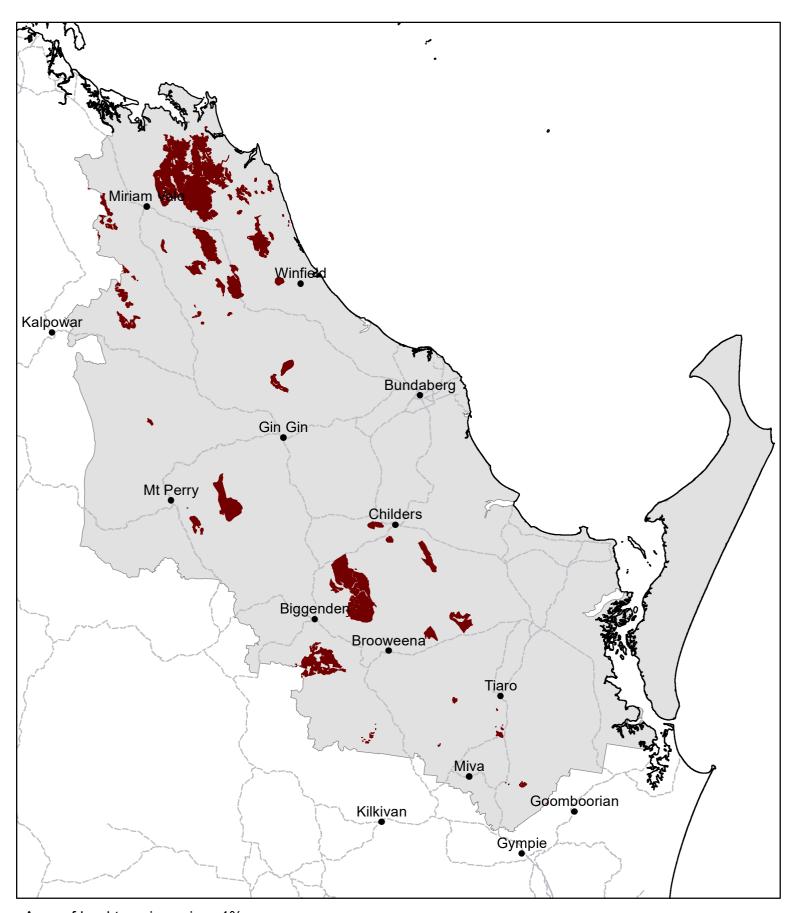
12.11.17, 12.12.4, 12.12.11, 12.12.15b; 12.12.22, 12.9-10.29.

Land resource area

Granite (Glanville et al 1991).



CB06 Ironbark, stringybark and supplejack ridges



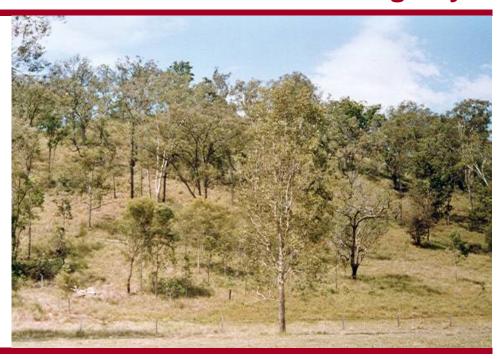
Area of land type in region: 4% Median rainfall (region): 785–1111 mm Average rainfall (region): 808–1195 mm

Area of land type with FPC: 93%

Median FPC: 54% Median TBA: 23 m2/ha



Ironbark and bloodwood on non-cracking clay



Landform

Undulating to rolling rises and plains.

Woody vegetation

Silver-leaved ironbark, narrow-leaved ironbark, bloodwood and wattles.

Forest bluegrass, Queensland bluegrass, black speargrass, kangaroo grass.

Pitted bluegrass, Queensland blue couch*, barbwire grass, tambookie grass.

Creeping bluegrass, Rhodes grass, signal grass, fine stem and shrubby

Expected pasture composition

* Denotes non-native "Expected Pasture Composition" species

Wiregrasses, bottlewasher grasses, rat's tail grasses.

Preferred

Intermediate

Non-preferred

Annuals

Suitable sown pastures

Annual chloris*.

Giant rat's tail grass, lantana, creeping lantana.

Introduced weeds

Soil

Description

Surface: Firm to hard-setting; Surface texture: sandy clay loam; Subsoil texture: medium heavy clay.

Non-calcic brown soils, yellow and red podzols (chromosols, kurosols).

Water availability

Low to moderate (depending on soil depth).

Infiltration

Moderate to good.

Drainage

Permeable, well drained.

stylos, siratro, Wynn cassia.

Fertility

Low total nitrogen; moderate to low phosphorus.

Salinity

Non-saline

Sodicity

May have sodic surface; non-sodic below 10 cm.

pН

Acidic throughout profile.





Non-calcic brown soil

Depth (cm)	Description
0–20	Dull reddish brown, sandy clay loam. Weak angular blocky structure. Common sandstone cobbles and gravel. pH 6.0. Clear to
20–30	dull reddish brown, sandy clay. Moderate angular blocky structure. Few sandstone gravel. pH 6.0. Clear to
30 - 100	gley mottled reddish brown, medium heavy clay. Moderate prismatic to strong angular blocky structure. Common sandstone gravel. pH 5.5.

Long-term carrying capacity information (A condition)

Based on fully wa	tered area for 1AE	= 450 kg animal co	nsuming 8kg DM/da	у
Median annual rai	infall 823 – 1018 n	nm		
Pasture type	Median tree cover	Median annual pasture growth	Safe annual utilisation pasture growth	LTCC
	(TBA m²/ha) (FPC %)	(DM kg/ha)	(%)	(ha/AE)
Native species	0 TBA/FPC	3970 - 3990	30%	2.4 - 2.5
	11 TBA 27 FPC	2300 - 2470	30%	3.9 – 4.2
Sown			35%	

Enterprise

Breeding, growing and finishing.

Land use and management recommendations

- Extensively cleared for native pasture.
- Suitable for sown pasture development.
- Timber reserves suitable for fencing (better stands suitable for sawlog).
- Suitable for hardwood plantation.
- On the granodiorite country between Moolboolaman and Miriam Vale, phosphorus levels are generally adequate for sown pastures but sulphur may be the limiting nutrient.
- The general recommendation is to use a sulphur fortified superphosphate fertiliser (e.g. SF45) at 50 kg/ha every 3 to 5 years.

Land use limitations

- Slope limitations for pasture development.
- Chronically overgrazed areas present a serious sheet and gully erosion hazard.

Conservation features and related management

- This woodland is an important wildlife habitat. Mature stands with numerous tree hollows are home to possums, koalas and gliders. The rough fissured bark of the ironbarks is ideal habitat for skinks and geckoes.
- The grassy understorey provides habitat for ground fauna such as small
 marsupials (bettongs), reptiles (frilled-neck lizards) and birds (quail) and is an
 important food source for the large macropods (whip-tailed wallabies, eastern
 grey kangaroos).
- While large areas of this land type have been thinned for grazing, reasonably sized remnants remain.
- The health of the landscape can be enhanced through appropriate fire regimes, grazing management and allowing regrowth to develop into effective wildlife corridors.

Regional Ecosystems

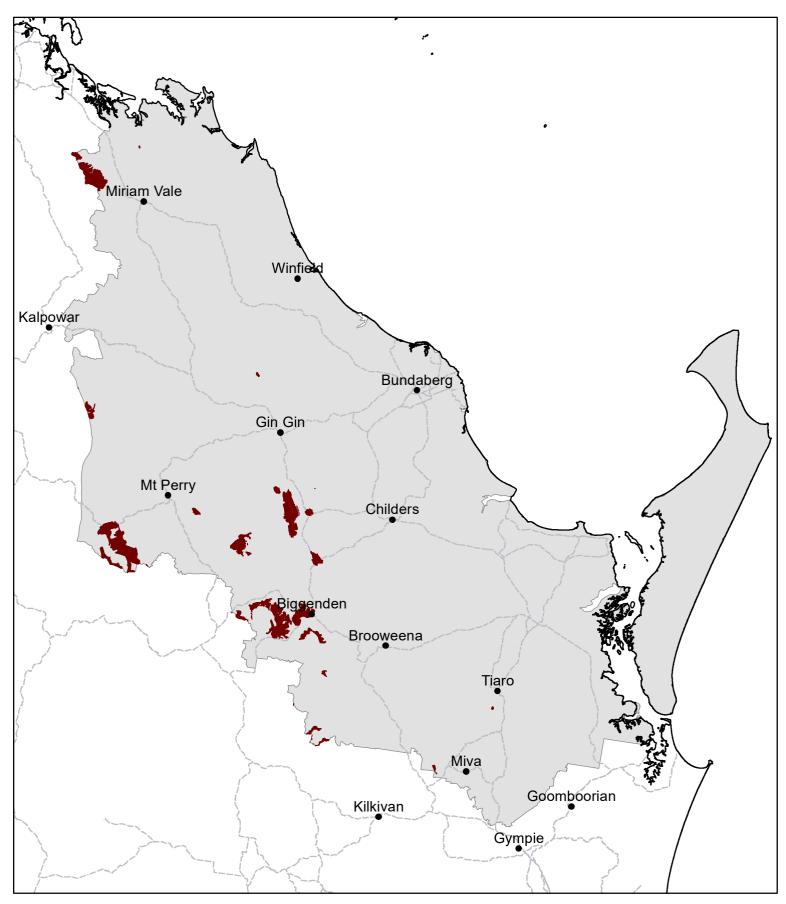
Land resource area

12.11.7, 12.12.27.

Granite, metamorphic, acid volcanic (Glanville et al 1991).



CB07 Ironbark and bloodwood on non-cracking clay



Area of land type in region: 3%

Median rainfall (region): 785–1111 mm Average rainfall (region): 808–1195 mm

Area of land type with FPC: 28%

Median FPC: 27% Median TBA: 11 m2/ha



Ironbark and blue gum on basalt ridges



Landform

Undulating plains, low hills and plateau remnants.

Woody vegetation

Blue gum, silver-leaved ironbark, Moreton bay ash, pink bloodwood.

Expected pasture composition

* Denotes non-native "Expected Pasture Composition" species

Preferred

Forest bluegrass, Queensland bluegrass, Angleton grass* (naturalised).

Intermediate

Pitted bluegrass, Queensland blue couch*.

Non-preferred

Wiregrasses.

Annuals

Native sorghum.

Suitable sown pastures

Creeping bluegrass, Rhodes grass, Angleton bluegrass, Caatinga and fine stem stylos, siratro, leucaena.

Introduced weeds

Giant rat's tail grass, annual ragweed.

Soil

Black earths and prairie soils (vertosols, dermosols).

Description

Surface: Cracking, self-mulching; **Surface texture:** medium to heavy clay; **Subsoil texture:** medium to heavy clay.

Water availability

Medium to high.

Infiltration

Moderate to good when dry; low to moderate when wet.

Drainage

Moderately well drained (can become waterlogged in some areas).

Fertility

Low to moderate total nitrogen; moderate to low phosphorus.



Salinity Sodicity

Non-saline

Non-sodic

рΗ

Slightly acidic to neutral at surface, alkaline at depth.



Black Earth

Depth (cm)	Description
0–8	Black, heavy clay. Strong angular blocky structure. Self-mulching and cracking surface. pH 6.0. Gradual to
8–30	black heavy clay. Strong lenticular structure. pH 6.8. Diffuse to
30–45	brownish black heavy clay. Strong lenticular structure. pH 7.5. Clear to
45–80	angular basalt cobles overlying weathering basalt.

Long-term carrying capacity information (A condition)

Based on fully wa	Based on fully watered area for 1AE = 450 kg animal consuming 8kg DM/day					
Median annual ra	ainfall 924 – 998 r	mm				
Pasture type	Median tree cover	Median annual pasture growth	Safe annual utilisation pasture growth	LTCC		
	(TBA m²/ha) (FPC %)	(DM kg/ha)	(%)	(ha/AE)		
Native species	0 TBA/FPC	3960 - 4180	30%	2.3 – 2.5		
	18 TBA 42 FPC	1640 - 1750	30%	5.6 – 5.9		
Sown			35%			

Enterprise

Breeding, growing and fattening.

Land use and management recommendations

- Extensively cleared for grazing and some cane cropping.
- Suitable for sown pasture.

Land use limitations

- Low phosphate levels.
- Can be difficult to work when dry.
- Sown pasture establishment is difficult.

Conservation features and related management

- Restricted to the older basalts around Maroondan and Monduran.
- Often fringing vegetation to softwood scrub.
- Few remnants remain.

Regional Ecosystems

12.8.16.

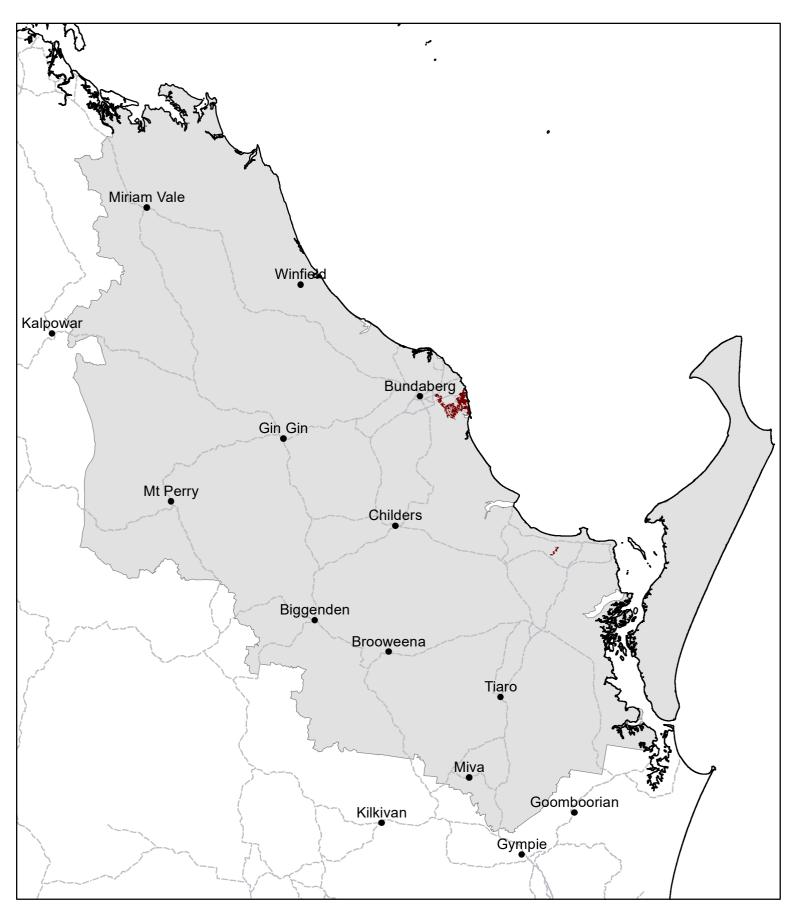
Land resource area

Basalt (Glanville et al 1991).





CB08 Ironbark and blue gum on basalt ridges



Area of land type in region: 0.1% Median rainfall (region): 785–1111 mm Average rainfall (region): 808–1195 mm

Area of land type with FPC: 17%

Median FPC: 42% Median TBA: 18 m2/ha



Ironbark and spotted gum on duplex and loam



Landform

Mountains, low hills and minor undulating plains.

Woody vegetation

Spotted gum, narrow-leaved ironbark, grey ironbark, bloodwoods and wattles.

Expected pasture composition * Denotes non-native "Expected Pasture Composition" species

Preferred

Forest bluegrass, tambookie grass, black speargrass, kangaroo grass.

Intermediate

Pitted bluegrass, Queensland blue couch*, barbwire grass, cockatoo grass, golden beard grass.

Non-preferred

Wiregrasses, blady grass, lovegrasses.

Suitable sown pastures

Creeping bluegrass, Rhodes grass, signal grass, fine stem and shrubby stylos, siratro, Wynn cassia.

Introduced weeds

Giant rats tail grass, lantana, African lovegrass, blue heliotrope.

Soil

Non-calcic brown, yellow and red podzolics, soloths, and solodics (chromosols, kurosols, sodosols).

Description

Surface: Hard-setting; Surface texture: sandy clay loam; Subsoil texture: light to medium clay.

Water availability

Low to moderate.

Infiltration

Moderate to good.

Drainage

Permeable, well drained.

Fertility

Low nitrogen; low phosphorus.

Salinity

Non-saline

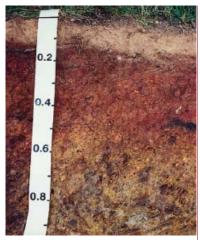
Sodicity

May be sodic at the surface (non-calcic brown) or sodic at depth (solodics).

pН

Slightly acidic to neutral; acidic increasing to strongly alkaline at depth (solodics).





Non-calcic brown soil

Depth (cm)	Description
0–15	Brown, sandy clay loam; massive; pH 6.0. Clear change to
15–50	reddish brown, medium clay, strong blocky structure, friable, coarse rock fragments increasing in abundance with depth; pH 7.0.
50–60	Yellowish brown, light medium clay; weak blocky structure, many coarse rock fragments; pH 7.0.
60+	Weathered bedrock; pH 7.0.

Long-term carrying capacity information (A condition)

Based on fully watered area for 1AE = 450 kg animal consuming 8kg DM/day					
Median annual ra	Median annual rainfall 823 – 1018 mm				
Pasture type Median tree cover Median annual pasture growth Safe annual utilisation pasture growth					
	(TBA m²/ha) (FPC %)	(DM kg/ha)	(%)	(ha/AE)	
Native species	0 TBA/FPC	3130 - 3140	30%	3.1	
	17 TBA 41 FPC	1020 - 1270	30%	7.7 – 9.5	
Sown			35%		

Enterprise

Breeding and growing.

Land use and management recommendations

Suitable for both high key (full sown pasture) and low key (perennial legume) pasture development. Also a productive land type for native forestry (mill timber, poles, girders,

sleepers).

Land use limitations

- Slope constraints to high key pasture development.
- Persistent overgrazing will lead to blue couch dominance or cassia dominance following cassia establishment.
- Wattle regrowth is a serious issue following disturbance.

Conservation features and related management

- This land type provides habitat for rare flora (*Persoonia spp.* and cycads) and valuable resources for forest dependent fauna such as possums, gliders, forest owls, micro bats, insectivorous birds and arboreal and ground dwelling reptiles.
- Areas with moderate to low slopes have generally been cleared or thinned for grazing. Areas extensively managed for timber have been modified through selective thinning and frequent fire. These practices have resulted in even aged stands with minimal habitat trees and poor stand succession.
- Retaining adequate numbers of habitat trees is important for forest health and biodiversity.
- The careful use of fire (especially following disturbance such as thinning or harvesting) allows forest regeneration and can be proactively used to promote biodiversity values within the land type and across the landscape.

Regional Ecosystems

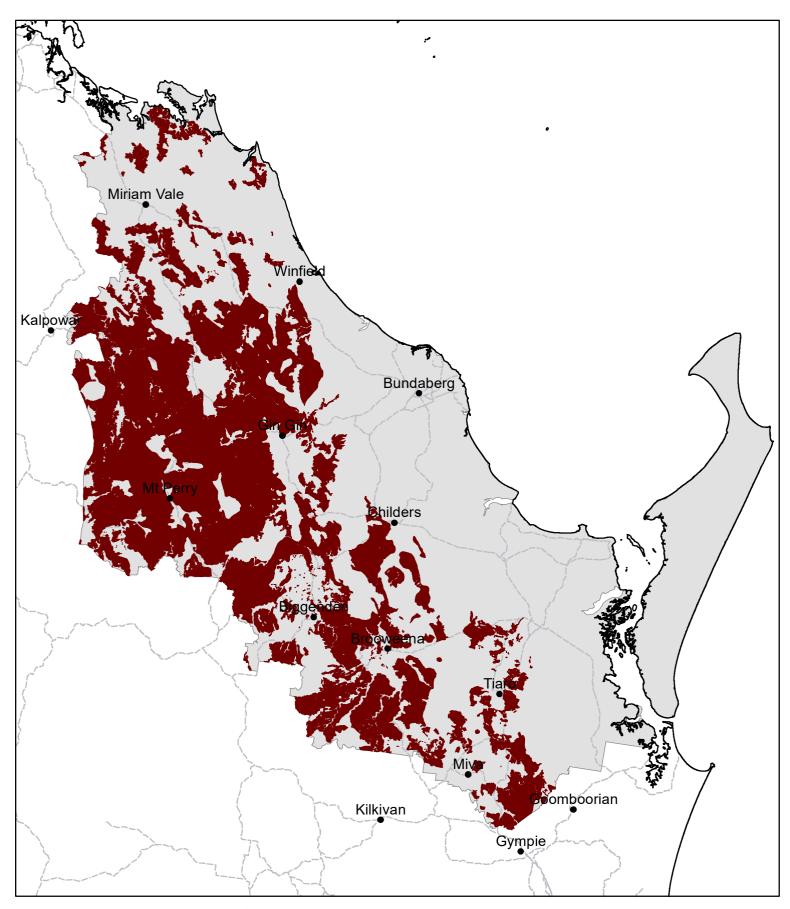
12.11.5, 12.11.6, 12.12.3, 12.12.5, 12.5.7c, 12.9–10.17b.

Land resource area

Granite, acid volcanic, metamorphic (Glanville et al 1991).



CB09 Ironbark and spotted gum on duplex and loam



Area of land type in region: 33% Median rainfall (region): 785–1111 mm Average rainfall (region): 808–1195 mm

Area of land type with FPC: 73%

Median FPC: 41% Median TBA: 17 m2/ha



Mixed eucalypts on uplifted coastal plains



Landform

Undulating plains, low hills and ridges.

Woody vegetation

Bloodwoods, stringybarks, narrow-leaved ironbark, grey ironbark, red ironbark, Queensland peppermint, spotted gum, smooth-barked apple and grass trees.

Expected pasture composition

* Denotes non-native "Expected Pasture Composition" species

Preferred

Golden beard grass, barbwire grass, black speargrass, kangaroo grass.

Intermediate

Queensland blue couch*, cockatoo grass.

Non-preferred

Poverty grass, blady grass.

Suitable sown pastures

Not suitable for sown pastures. Oversow with legumes: lotononis, shrubby and Caribbean stylos, siratro.

Introduced weeds

Giant rats tail grass, African lovegrass, lantana, groundsel bush.

Soil

Podzols, soloths, solodics and lithosols (chromosols, kurosols, sodosols).

Description

Surface: Firm to hard-setting; Surface texture: sandy clay loam; Subsoil texture: clay loam to medium clay; weathered bedrock.

Water availability

Moderate to high; low in shallow soils.

Infiltration

Slow to moderate.

Drainage

Impermeable subsoil impedes internal drainage.

Fertility

Very low nitrogen; very low phosphorus.

Salinity

Non-saline

Sodicity

Non-sodic, may be sodic at depth (solodics).

pΗ

Acidic throughout profile (podzols, soloths); acidic increasing to strongly alkaline at depth (solodics).





Yellow Podzolic (fine)

Depth (cm)	Description
0–20	Yellow brown, fine sandy loam. Massive structure. Hard setting surface; pH 5.8. gradual to
20–60	orange mottled, sandy clay loam. Massive structure. Few sandstone gravel pH 6.0. Clear to
60–100	red mottled, yellow, light clay. Strong angular blocky structure; few sandstone gravel; pH 6.0. Gradual change to
90–160	red and grey mottled, yellow, light medium clay. Strong angular blocky structure; pH 6.0.

Long-term carrying capacity information (A condition)

Based on fully watered area for 1AE = 450 kg animal consuming 8kg DM/day					
Median annual ra	infall 870 – 1018 n	nm			
Pasture type	Median tree cover	Median annual pasture growth	Safe annual utilisation pasture growth	LTCC	
	(TBA m²/ha) (FPC %)	(DM kg/ha)	(%)	(ha/AE)	
Native species	0 TBA/FPC	2990 - 3130	25%	3.7 - 3.9	
	20 TBA 48 FPC	820 - 840	25%	14	

Enterprise

Breeding and growing.

Land use and management recommendations

- Infertile land type containing shallow soils that are not suited to pasture development. Land type suitable for native forestry.
- Low key legume establishment will improve annual liveweight gains for cattle but will not increase carrying capacity.
- Sodic subsoils are inherently susceptible to tunnel erosion. It is important to maintain adequate ground cover.
- Care needs to be taken during dam bank construction to ensure adequate compaction which reduces the risk of bank failure.
- Relatively productive stands of native hardwood can be managed to yield up to 1m³/ha/year of saw log.

Land use limitations

- Fertility and slope constraints for development. High erosion hazard.
- Serious regrowth potential following disturbance.

Conservation features and related management

- Habitat for rare and threatened flora including Notelaea lloydii, Acacia and Macrozamia species.
- This land type has not been extensively developed for grazing or cropping and contains many intact remnants. These remnants provide valuable corridors through the landscape for transitional and migratory birds and mammals. They support sugar gliders, arboreal marsupials, smaller macropods, hollow breeding birds, birds of prey and micro bats. Retention of ground litter provides important habitat for ground dwelling reptiles. They are best managed with careful grazing management and the strategic use of a variety of fire regimes.

Regional Ecosystems

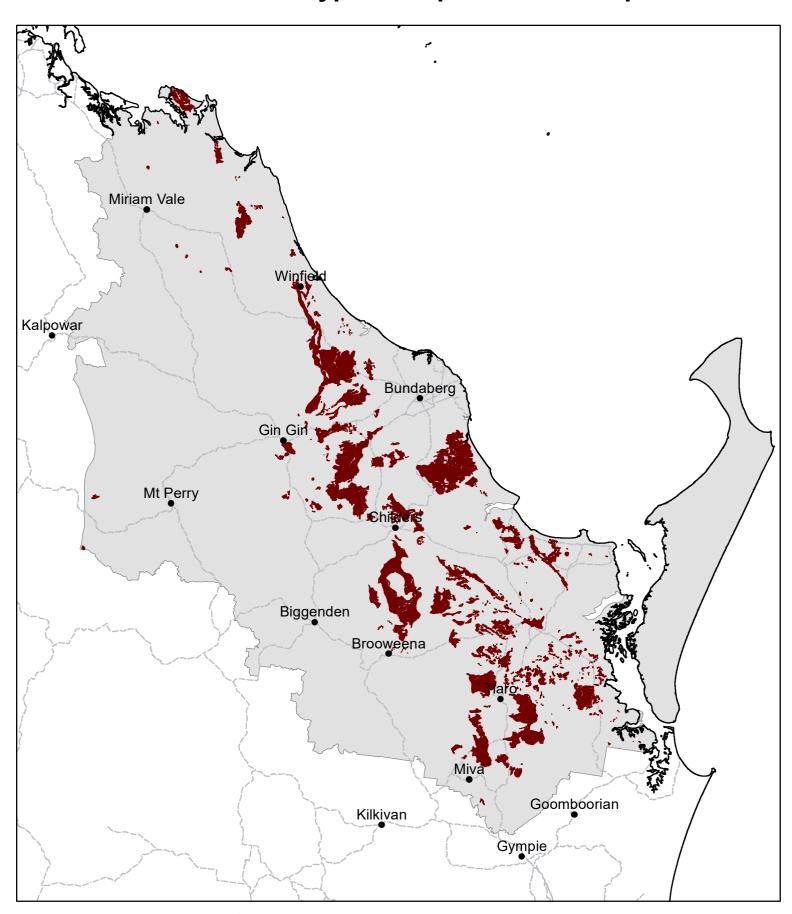
12.5.7, 12.5.7a, 12.5.7b, 12.9-10.19, 12.12.21.

Land resource area

Uplifted coastal plains (Glanville et al 1991).



CB10 Mixed eucalypts on uplifted coastal plains



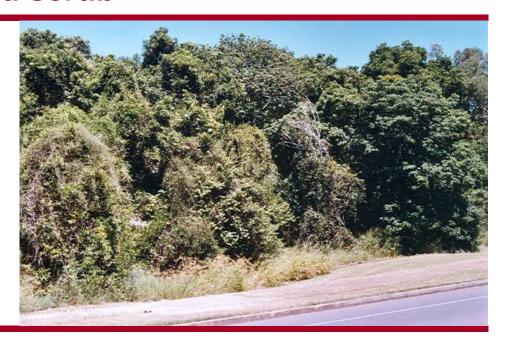
Area of land type in region: 6% Median rainfall (region): 785–1111 mm Average rainfall (region): 808–1195 mm

Area of land type with FPC: 85%

Median FPC: 48% Median TBA: 20 m2/ha



Softwood scrub



Landform

Undulating plains, low hills and plateau remnants.

Woody vegetation

Softwood scrub including bottle trees, white cedar and crow's ash with depauperate rainforest understorey.

Expected pasture composition

* Denotes non-native "Expected Pasture Composition" species

Preferred

Forest bluegrass, Queensland bluegrass and scentedtop (run down pasture).

Green panic, Rhodes grass in new pastures.

Intermediate

Pitted bluegrass, Queensland blue couch*, Angleton grass*.

Non-preferred Wiregrasses.

Suitable sown pastures

Green panic, Rhodes grass, pangola grass, leucaena, siratro, axilaris, glycine.

Introduced weeds

Giant rats tail grass, lantana, blue heliotrope.

Soil

Kraznozems, xanthozems, black earths and prairie soils (ferrosols, dermosols, vertosols).

Description

Surface: Weakly hard-setting; some cracking; **Surface texture:** light to medium heavy clay; **Subsoil texture:** light to medium heavy clay.

Water availability

High

Infiltration

Good

Drainage

Permeable, well drained.

Fertility

Moderate to high total nitrogen; moderate to high phosphorus.

Salinity

Non-saline

Sodicity

Non-sodic

рΗ

Slightly acidic to neutral; alkaline at depth (black earths, prairie soils).





Kraznozem

Depth (cm)	Description
0–20	Dark reddish brown, light clay. Moderate polyhederal to angular blocky structure. Firm to hard setting surface. pH 6.8. Diffuse to
20–90	reddish brown, light clay. Strong polyhederal to angular blocky structure. pH 6.8. Diffuse to
90–135	brown mottled, red, light clay. Moderate angular blocky structure. pH 7.0.

Utilisation

Based on fully watered area for 1AE = 450 kg animal consuming 8kg DM/day							
Median annual rainfall 823 – 835 mm							
Pasture type	Median tree cover	Median annual pasture growth	Safe annual utilisation pasture growth	LTCC			
	(TBA m²/ha) (FPC %)	(DM kg/ha)	(%)	(ha/AE)			
Native species	0 TBA/FPC	4950 - 5110	40% (sown)	1.4 – 1.5			
	31 TBA 68 FPC	< 1920 - 1990	40% (sown)	> 3.7 – 3.8			

Enterprise

Breeding, growing and fattening.

Land use and management recommendations

- Suitable for cropping on soils deeper than 45 cm and on slopes less than 4%.
- Suitable for pasture improvement; suitable for hardwood plantation.
- Need to ensure adequate ground cover to prevent erosion and maintain soil organic matter.

Land use limitations

- Old cane country is likely to contain chemical residues.
- These soils can become hard-setting following the loss of soil organic matter.
- Although non-saline, these highly permeable soils act as intake areas that can contribute to saline seepages developing on lower slopes where they meet impermeable soil types.

Conservation features and related management

- Very few scrub remnants remain; remnants are small and isolated.
- Habitat for rare and threatened flora and fauna.
- Remnants are threatened by weed invasion and fire on their margins. The use of fire breaks and cool season burns reduce this risk.
- Natural regeneration should be encouraged to develop connectivity with other areas of remnant vegetation.

Regional Ecosystems

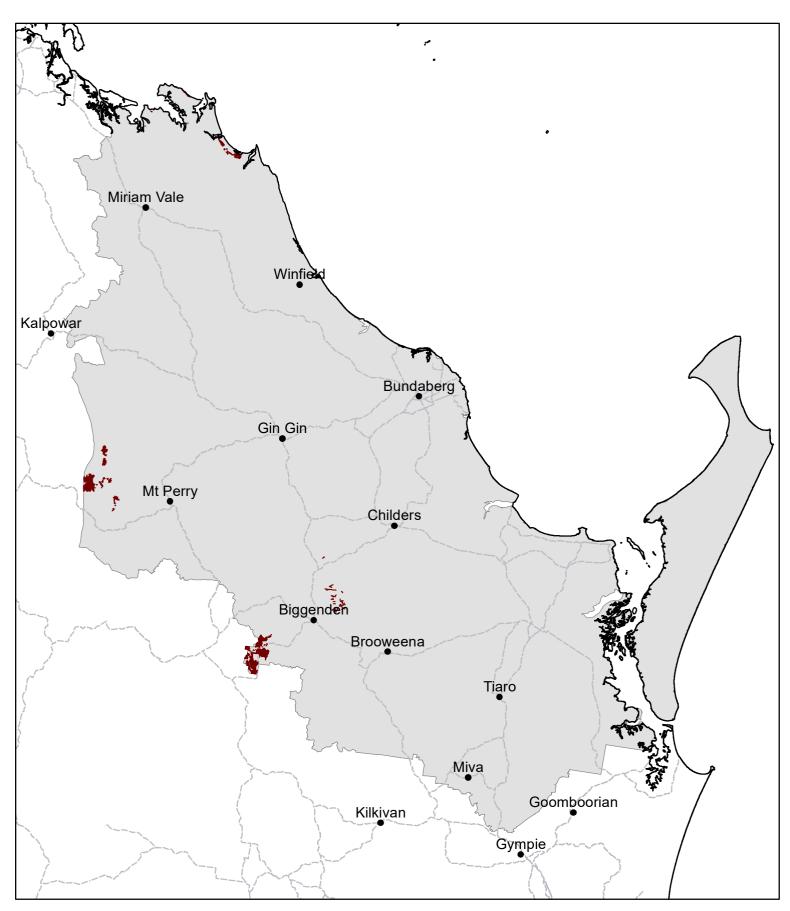
12.2.1, 12.2.2, 12.3.1, 12.8.22, 12.11.13.

Land resource area

Basalt (Major), Alluvium (Minor) (Glanville et al 1991).



CB11 Softwood scrub



Area of land type in region: 0.3% Median rainfall (region): 785–1111 mm Average rainfall (region): 808–1195 mm

Area of land type with FPC: 37%

Median FPC: 68% Median TBA: 31 m2/ha



Tea tree flats



Landform

Level alluvial plains (moderately extensive).

Woody vegetation

Paperbark tea tree, bloodwoods, blue gum, swamp mahogany.

Expected pasture composition

* Denotes non-native "Expected Pasture Composition" species

Preferred

Golden beard grass, black speargrass, kangaroo grass.

Intermediate

Queensland blue couch*.

Non-preferred

Poverty grass.

Suitable sown pastures

Pangola grass, humidicola, lotononis, villomix.

Introduced weeds

Giant rat's tail grass, groundsel bush.

Soil

Soloths, solodics, podzols (sodosols, kurosols).

Description

Surface: Hard-setting; **Surface texture:** sandy loam to clay loam; **Subsoil texture:** light to medium to heavy clay.

Water availability

Low (shallow rooting depth and low PAWC).

Infiltration

Slow (hard-setting surface).

Drainage

Impermeable subsoil; poorly drained.

Fertility

Very low to low nitrogen; very low phosphorus.

Salinity

May be saline.

Sodicity

Sodic to strongly sodic subsoil.

•

pΗ

Slightly acidic; increasing to strongly alkaline at depth (solodics).





Long-term carrying capacity information (A condition)

Soloth

	•
Depth (cm)	Description
0–15	Grey, fine sandy loam. Massive structure. Hard setting surface; pH 5.8. Diffuse to
15–45	light grey, clayey sand. Massive structure. pH 6.0. Abrupt change to
45–90	brown and orange mottled, yellow brown, sandy light clay. Weak prismatic structure; pH 4.8. Gradual change to
90–110	orange mottled, grey light clay. Strong angular blocky structure; pH 5.3.

Based on fully watered area for 1AE = 450 kg animal consuming 8kg DM/day							
Median annual rainfall 882 – 1018 mm							
Pasture type	Median tree cover	Median annual pasture growth	Safe annual utilisation pasture growth	LTCC			
	(TBA m²/ha) (FPC %)	(DM kg/ha)	(%)	(ha/AE)			
Native species	0 TBA/FPC	2370 - 2440	25%	4.8 – 4.9			
	25 TBA 57 FPC	< 260 - 270	25%	> 43 - 45			
Sown			30%				

Enterprise

Land use and management recommendations

Land use limitations

Conservation features and related management

Breeding, seasonal stocking with store cattle.

- Infertile land type with limited development potential.
- Acute phosphorous (and in some cases calcium) deficiency in cattle. Particularly severe in lactating cows.
- Fire is effective in managing woody regrowth and woodland thickening.
- Woody regrowth problems.
- Erosive subsoils; seasonal water-logging; poor fertility.
- Grazing animals exhibit acute phosphorous deficiency. Soils with high magnesic subsoils can lead to calcium deficiency in cattle.
- Habitat for sedges and ferns and rare and threatened flora including swamp orchids Phaius australis and P. tancarvilleae.
- Important habitat for migratory woodland birds (kingfishers, whistlers and robins) and important seasonal habitat for frogs.
- The autumn and spring flowering cycles of various plants attract lorikeets and honey eaters.
- Remnants are particularly susceptible to weed invasion on their margins.
- Landscape connectivity is important for wildlife corridors.

Regional Ecosystems

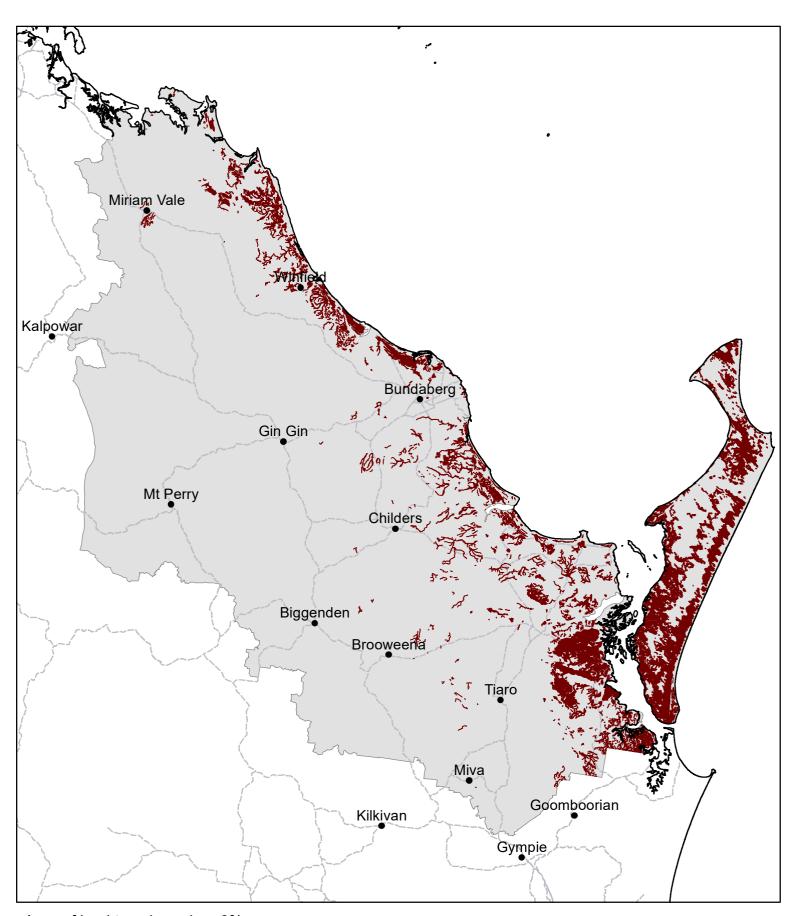
12.2.5, 12.2.7, 12.2.7a, 12.2.7c, 12.3.4, 12.3.4a, 12.3.5, 12.3.6, 12.5.4a, 12.9-10.10

Land resource area

Alluvium (major); sandplain and coastal plain (minor) (Glanville et al 1991).



CB12 Tea tree flats



Area of land type in region: 6% Median rainfall (region): 785–1111 mm Average rainfall (region): 808–1195 mm

Area of land type with FPC: 89%

Median FPC: 57% Median TBA: 25 m2/ha

