

# Brigalow with blackbutt (Dawson gum)



<b>Landform</b>	Undulating plains, lowlands, downs, low tablelands and hills.
<b>Woody vegetation</b>	Brigalow scrub with emergent blackbutt or yapunyah. Solid patches of blackbutt or yapunyah tend to occur in this land type where there is a high soil salt load. Understorey commonly of false sandalwood, yellowwood or wilga; occasionally leopardwood, sally wattle or currant bush.
<b>Expected pasture composition</b>	* Denotes non-native "Expected Pasture Composition" species.
<b>Preferred</b>	Queensland bluegrass, desert bluegrass, forest bluegrass, black speargrass, bull Mitchell grass, kangaroo grass.
<b>Intermediate</b>	Native millet, curly windmill grass, brigalow grass, pitted bluegrass, tall chloris, yabila/star grass, barbwire grass.
<b>Non-preferred</b>	Dark wiregrass, fairy grass, slender chloris, bottlewasher grasses, purple lovegrass.
<b>Annual grasses</b>	Flinders grass, small burr grass.
<b>Suitable sown pastures</b>	Buffel grass, Gatton panic, creeping bluegrass, butterfly pea (>90 cm), shrubby stylo, Caatinga stylo, Caribbean stylo.
<b>Introduced weeds</b>	Parthenium.
<b>Soil</b>	A hard-setting, red to brown, texture contrast soil with a sodic B horizon (brown sodosol).
<b>Description</b>	<b>Surface:</b> Hard-setting; <b>Surface texture:</b> sandy clay loam; <b>Subsoil texture:</b> light to medium clay.
<b>Water availability</b>	Low to moderate.

Rooting depth	60 cm
Fertility	Low to moderate total nitrogen; moderate phosphorus.
Salinity	Moderate to high (below 60 cm).
Sodicity	Strongly sodic (below 40 cm).
pH	Strongly alkaline.

### Long-term carrying capacity information (A condition)

Based on fully watered area for 1AE = 450 kg animal consuming 8kg DM/day				
Median annual rainfall 521 – 653 mm				
Pasture type	Median tree cover (TBA m <sup>2</sup> /ha) (FPC %)	Median annual pasture growth (DM kg/ha)	Safe annual utilisation pasture growth (%)	LTCC (ha/AE)
Native species	0 TBA/FPC	2340 - 3260	30%	3.0 – 4.2
	9 TBA 23 FPC	1020 - 1830	30%	5.3 – 10
Buffel		4280 - 5240	35%	1.6 – 2.0

### Enterprise

### Land use and management recommendations

### Land use limitations

### Conservation features and related management

### Regional ecosystems

### Land units; Agricultural management unit; Soil associations

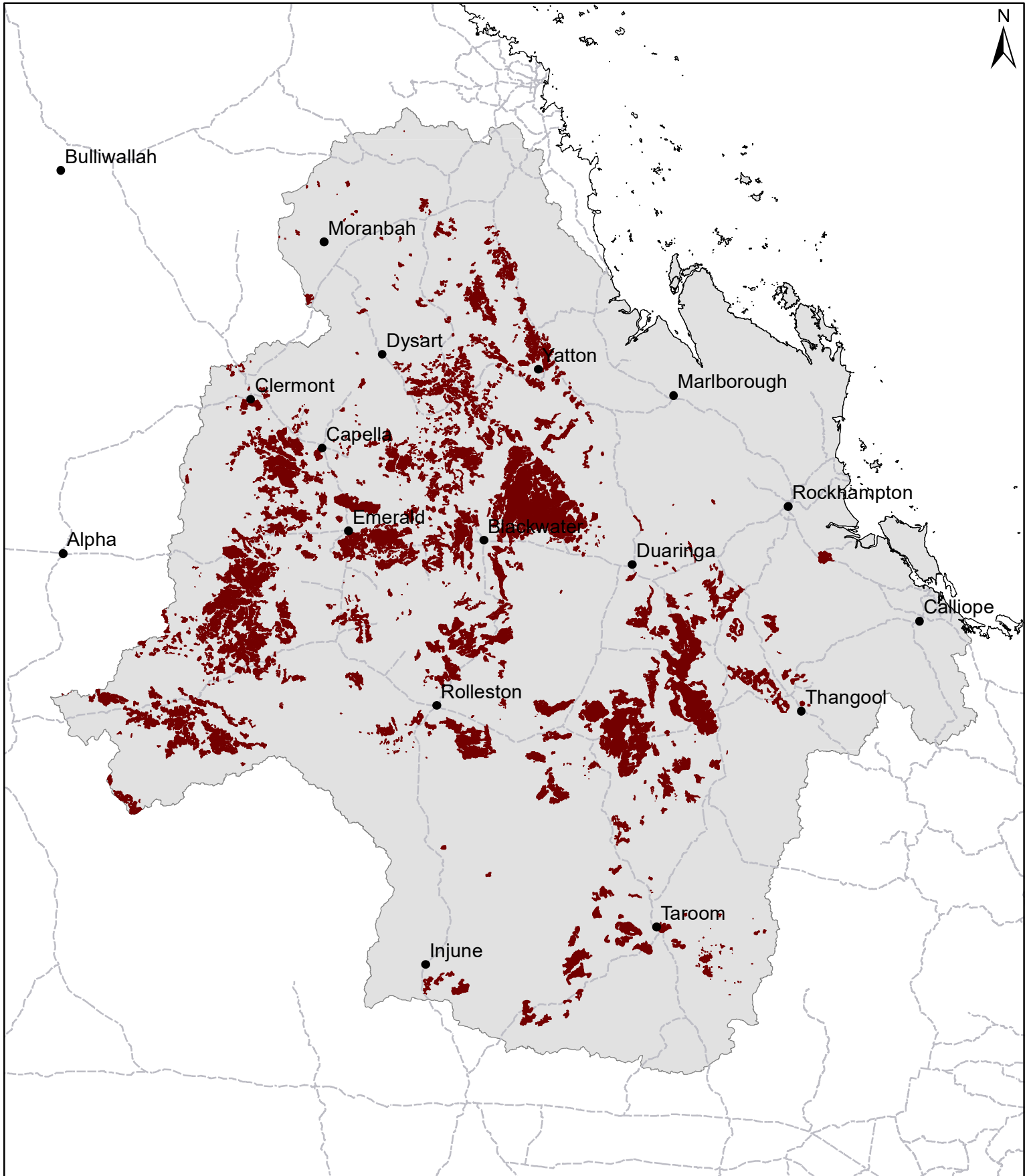
#### Finishing

- Suitable for sown pastures as the light surface texture responds to small and infrequent rainfall.
- Maintain surface cover to reduce sheet erosion, nutrient loss and pasture rundown.
- Erosion of roads and dams where subsoil left exposed.
- Sodic subsoil.
- Poorly drained.
- Hard-setting surface.
- Regrowth problems.
- The key features of this habitat include a highly diverse reptile community that uses fallen timber, dead trees and exfoliating bark, particularly gecko species (*Gehyra* spp. and *Oedura* spp.), dragons (*Agamidae* spp.) and skinks (*Egernia striolata*, *Morethia boulengeri*).
- A number of woodland bird species declining in south-eastern woodlands such as the bush stone-curlew, squatter pigeon, brown treecreeper and grey-crowned babbler live in these woodlands.
- Retain all fallen timber and dead trees in the land type as these provide valuable habitat for birds and reptiles. Also the gradual decomposition of this timber is important in the nutrient cycling of the ecosystem.
- It is important to maintain ground cover in the form of litter and pasture where possible as the soil B horizon is very sodic, dispersive, erosive and hard to re-pasture.

11.4.7, 11.4.8, 11.9.1, 11.11.16, 11.11.19.

Land units (Gunn *et al* 1967; Story *et al* 1967; Speck *et al* 1968; Gillespie 1991) Disney 3, Humboldt 3 & 6, Skye 4, Pinehill 3, Wharton 4, Thornby 3, Aldis; Agricultural Management Units (Thwaites and Maher 1993) Turkey Creek, College, Glengallan; Soil associations (Burgess 2003; Shields *et al* 1993) Stateschool, Racetrack, Racetrack shallow phase, Hazelbrae, Honeycomb, Winvic.

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Area of land type in region: 8%  
Median rainfall (region): 494 – 830 mm  
Average rainfall (region): 560 – 869 mm  
Area of land type with FPC: 18%  
Median FPC: 23%  
Median TBA: 9 m<sup>2</sup>/ha



**Queensland  
Government**