

# Ironbark and blue gum on clay



<b>Landform</b>	Ridge crests and mid to upper slopes in undulating rises to rolling low hills.
<b>Woody vegetation</b>	Dry woodlands to open forest of narrow-leaved ironbark, silver-leaved ironbark and Queensland blue gum. Can contain Moreton Bay ash, pink bloodwood, yellow box, Clarkson's bloodwood and broad-leaved apple.
<b>Expected pasture composition</b>	* Denotes non-native "Expected Pasture Composition" species.
Preferred	Forest bluegrass, Queensland bluegrass, black speargrass, kangaroo grass, tambookie grass, Rhodes grass*, creeping bluegrass*.
Intermediate	Pitted bluegrass, umbrella/blowaway grass, couch grass*, spring grass, native panic, barbed wire grass, liverseed grass.
Non-preferred	Wiregrasses, blady grass, slender chloris, slender bamboo grass, windmill grass, native rat's tail grass.
Legumes	Glycine pea, woolly glycine, rhynchosia, creeping tick trefoil.
Annual grasses	Small burr grass.
<b>Suitable sown pastures</b>	Rhodes grass, creeping bluegrass, bambatsi panic, Swann bluegrass, paspalum, Narok setaria, brachiaria, seca stylo, siratro, glycine, leucaena, desmanthus, Wynn cassia, white clover.
<b>Introduced weeds</b>	Lantana, fireweed, giant rat's tail grass. African lovegrass.
<b>Soil</b>	Shallow to moderately deep, dark clay loams and clays (dermosols - rendzinas & prairie soils) and brown clays, black earths (vertosols) over weathering rock.
<b>Description</b>	<b>Surface:</b> Loose to self-mulching, occasionally hard-setting; <b>Surface texture:</b> loam or clay loam (rendzinas & prairie soils) to light-medium clays (brown clays, black earths); <b>Subsoil texture:</b> light to medium clays (rendzinas, prairie soils), medium to heavy clays (brown clays, black earths).
<b>Features</b>	Shallower clays & clay loams have bedrock at < 0.3–0.8 m, with varying amounts of limestone, and parent rock (mainly basalt & andesite) throughout profile. Fragmented and weathering bedrock usually highly permeable.
<b>Water availability</b>	Low to medium for rendzinas & prairie soils; medium to high for brown clays, black earths.
<b>Rooting depth</b>	Effective rooting depth varies from <0.8 m (rendzinas, prairie soils) to > 1 m for brown

**Fertility**

clays, black earths.

High medium to high nitrogen; low – medium (shallow clay loams, brown clays) to high (clays & black earths) phosphorus; medium to high potassium; medium zinc and copper.

**Salinity**

Very low to low.

**Sodicity**

Non-sodic

**pH**

Mainly neutral (6.5) to slightly alkaline (7.5) at surface; Slightly alkaline (shallow clay loams) to strongly alkaline (8.5) at depth (brown clays, black earths).

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

Based on fully watered area for 1AE = 450 kg animal consuming 8kg DM/day				
Median annual rainfall 854 – 909 mm				
Pasture type	Median tree cover (TBA m2/ha) (FPC %)	Median annual pasture growth (DM kg/ha)	Safe annual utilisation pasture growth (%)	Long term carrying capacity (ha/AE)
Native species	18 TBA 43 FPC		30%	
Sown pasture	18 TBA 43 FPC		30%	

**Enterprise**

Breeding and fattening.

**Land use and management recommendations**

- Suitable for grazing of non-irrigated improved pastures.
- Areas with deeper soils (>0.5 m) and low slopes (<10%) are suitable for dryland cropping - grain, fodder and small crops.
- Very shallow soils are not suited for development and should be left as undisturbed native pastures with maximum surface cover (> 90 %) maintained at all times.
- Maintain maximum surface cover to maintain soil structure and reduce erosion in cropping lands, including minimal tillage, stubble retention.
- Implement appropriate soil conservation measures including contour banks, grassed waterways safe disposal areas for runoff and crop management strategies to control erosion.
- Timber and other woody vegetation should be retained on ridges and steep slopes.
- Burn every 3 - 6 years to maintain ecological health of these woodlands and help control weeds and regrowth (silver-leaved ironbark, wattles).

**Land use limitations**

- Effective rooting depth limited by depth to bedrock.
- Lower plant available water capacity in shallow soils.
- Often occur on steeper upper slopes and ridges which can be prone to erosion if permanent perennial pasture cover is not maintained.

**Conservation features and related management**

- Some very small areas along the Main Range, where yellow box is the dominant eucalypt along with ironbark & gum, has been identified as box gum grassy woodland, which is a critically endangered ecological community (EPBC Act). These areas should be protected & managed to maximise their biodiversity values.
- Habitat for rare & threatened flora species including *Callitris baileyi* & *Stemmacantha australis* and the vulnerable Koala.
- These basalt ridges are associated with several significant eucalypts, and the vegetation communities have outstanding fauna value, especially for arboreal hollow dwellers.
- Uplands areas are important in a biogeographic sense with many species limited to these areas.

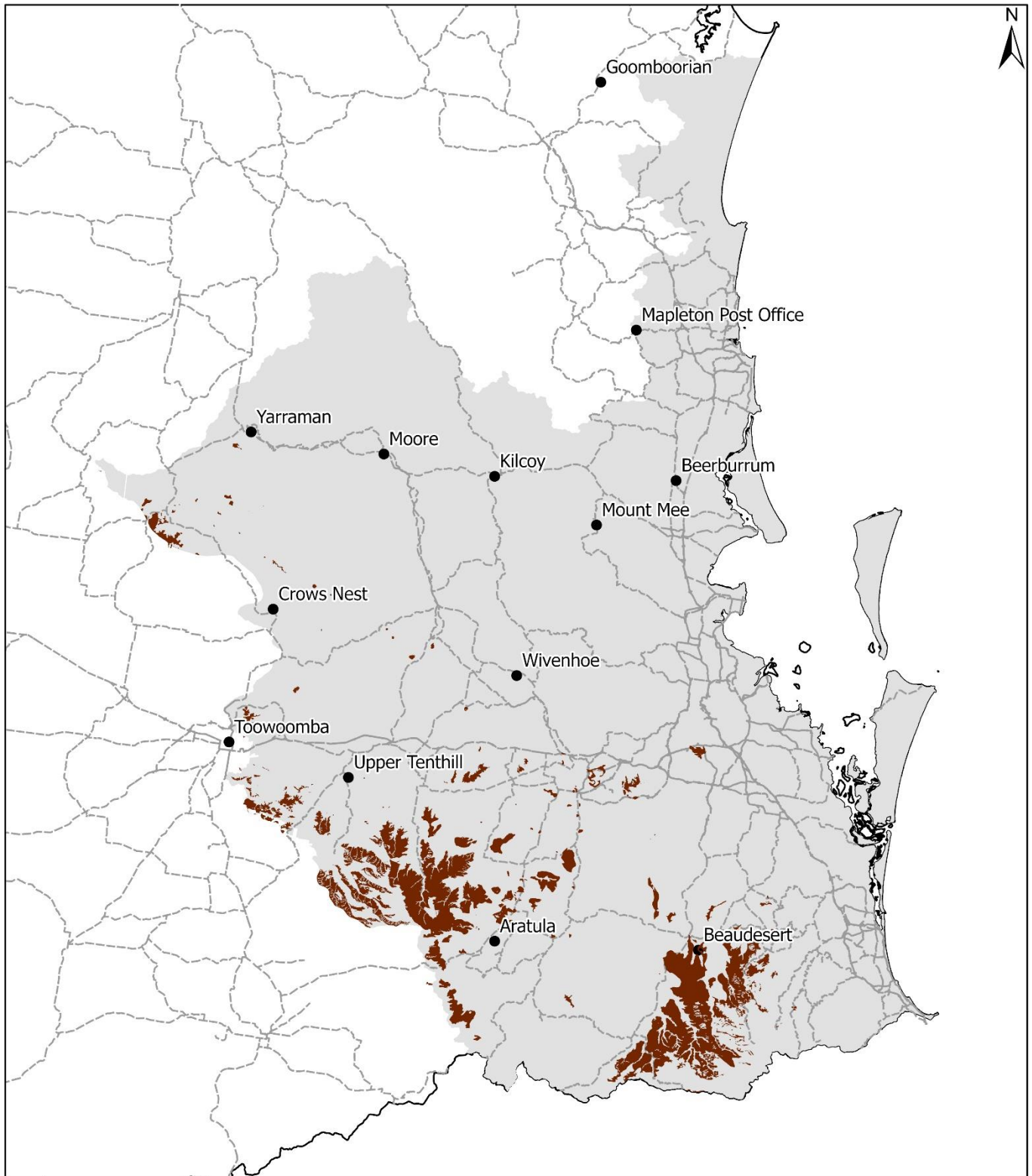
**Regional Ecosystems**

12.8.16, 12.8.17, 12.8.27.

**Land resource area**

Basaltic Uplands 2b, Forest Walloons, 6a (Noble, 1996).

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Area of land type in region: 5%  
Median rainfall (region): 752–1672 mm  
Average rainfall (region): 763–1766 mm  
Area of land type with FPC: 32%  
Median FPC: 49%  
Median TBA: 21 m<sup>2</sup>/ha