## Mixed open forests on duplex and loam



| Landform   | Undulating to steep hills.   |  |  |  |  |
|--|--|--|--|--|--|
| Woody vegetation   | Grassy open forest of narrow-leaved ironbark / grey ironbark and silver-leaved<br>ironbark with and bloodwoods (pink, brown, Clarkson's and variable-barked). Spotte<br>gum, gum-topped box, Moreton Bay ash, grey gum, white mahogany may also occu<br>An understorey of bulloak and wattles may be present.  |  |  |  |  |
| Expected pasture composition                                   | * Denotes non-native "Expected Pasture Composition" species.   |  |  |  |  |
| Preferred  | Black speargrass, barbwire grass, kangaroo grass, tambookie grass, Rhodes grass*, creeping bluegrass*.   |  |  |  |  |
| Intermediate   | Pitted bluegrass, couch grass*, bottlewasher grasses, lovegrasses.   |  |  |  |  |
| Non-preferred  | Wiregrasses, reedgrass, slender chloris.   |  |  |  |  |
| Legumes  | Emu foot, woolly glycine, rhynchosia, creeping tick trefoil.   |  |  |  |  |
| Annual grasses   | Small burr grass.  |  |  |  |  |
| Suitable sown pastures   | Rhodes grass, creeping bluegrass, Shrubby stylo, fine stem stylo, Wynn cassia.   |  |  |  |  |
| Introduced weeds   |  |  |  |  |  |
|  |  |  |  |  |  |
| Soil   | Texture contrast soils of brown to dark grey loamy sands overlaying red, brown or yellow clay.   |  |  |  |  |
| Soil<br>Description  |  |  |  |  |  |
|  | yellow clay. Surface: Sandy or loamy, loose to hard-setting; Surface texture: sandy clay loam or   |  |  |  |  |
| Description  | <ul> <li>yellow clay.</li> <li>Surface: Sandy or loamy, loose to hard-setting; Surface texture: sandy clay loam or loamy sand to clay loam; Subsoil texture: light to heavy clay.</li> <li>Usually a prominent bleached zone above hard clay subsoil. Strongly sodic and dispersible, with dominance of magnesium in subsoil increasing tendency for</li> </ul>  |  |  |  |  |
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| Description<br>Features<br>Water availability                  | yellow clay.<br><b>Surface:</b> Sandy or loamy, loose to hard-setting; <b>Surface texture:</b> sandy clay loam or<br>loamy sand to clay loam; <b>Subsoil texture:</b> light to heavy clay.<br>Usually a prominent bleached zone above hard clay subsoil. Strongly sodic and<br>dispersible, with dominance of magnesium in subsoil increasing tendency for<br>dispersion. Sometimes mottled (yellow or grey). Sometimes contains lime.<br>Very low to low, PAWC <50–100 mm in root zone.   |  |  |  |  |
| Description<br>Features<br>Water availability<br>Rooting depth | <ul> <li>yellow clay.</li> <li><i>Surface</i>: Sandy or loamy, loose to hard-setting; <i>Surface texture:</i> sandy clay loam or loamy sand to clay loam; <i>Subsoil texture:</i> light to heavy clay.</li> <li>Usually a prominent bleached zone above hard clay subsoil. Strongly sodic and dispersible, with dominance of magnesium in subsoil increasing tendency for dispersion. Sometimes mottled (yellow or grey). Sometimes contains lime.</li> <li>Very low to low, PAWC &lt;50–100 mm in root zone.</li> <li>Effective rooting depth &lt;0.4 m (solodics) to &lt;1.5 m (podzolics).</li> <li>Low to medium, can be variable (loamy solodics) nitrogen; very low to low, can be variable (loamy solodics) phosphorus; variable, very low to high potassium; low to</li> </ul> |  |  |  |  |

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- M008 -



Hα

## Long-term carrying capacity inform С

Soil surface very strongly acid (4.5) or strongly acid (5.4) to slightly acid (6.5); subsoils very strongly acid (5.0) to medium acid (6.0) (soloths, podzolics), or moderately alkaline (8.0) to strongly alkaline (9.0) (solodics).

| posity information (A                         | Median annual rainfall 744 – 1372 mm  |                        |                              |  |           |  |
|---|---|------------------------|------------------------------|--|-----------|--|
| pacity information (A condition)              |   |                        |                              |  |           |  |
| ,   | Pasture type  | Median tree<br>cover   | Median annual pasture growth | Safe annual<br>utilisation<br>pasture growth | LTCC      |  |
|   |   | (TBA m²/ha)<br>(FPC %) | (DM kg/ha)                   | (%)  | (ha/AE)   |  |
|   | Native species  | 0 TBA/FPC              | 3030 - 3720                  | 25%  | 3.1 - 3.9 |  |
|   |   | 15 TBA<br>36 FPC       | 1200- 2100                   | 25%  | 5.6 - 9.7 |  |
|   |   |                        |                              |  |           |  |
| Enterprise                                    | Breeding.   |                        |                              |  |           |  |
| Land use and<br>management<br>recommendations | <ul> <li>Suitable for grazing of native and improved pastures.</li> <li>Timber reserves.</li> <li>Maintain maximum surface cover at all times.</li> </ul> |                        |                              |  |           |  |
|   | <ul> <li>Oversowing of legumes should be done with minimal soil disturbance (e.g. strip<br/>cultivation).</li> </ul>                                      |                        |                              |  |           |  |
|   | <ul> <li>Maintain as much timber cover as possible, especially on steeper slopes and<br/>ridges.</li> </ul>   |                        |                              |  |           |  |
|   | <ul> <li>Burn every 2–3 years to help control weeds and regrowth (ironbarks, wattles, red ash).</li> </ul>  |                        |                              |  |           |  |

Based on fully watered area for 1AE = 450 kg animal consuming 8kg DM/day

Land use limitations

- Plant growth limited by tough clay subsoil and hard setting surfaces.
- Rooting depth limited by hard, and saline or acid, subsoils.
- Hard clay subsoils impede drainage and are prone to water logging in wet • periods.
- Very susceptible to sheet, tunnel and gullying erosion.
- Generally very low nutrient status, particularly nitrogen and phosphorus.
- Conservation This woodland is an important wildlife habitat with a surprisingly wide range of fauna. Larger marsupials such as wallabies often use this habitat. Numerous tree features and related hollows are home to possums and gliders. The rough fissured bark provides good management reptile habitat for skinks and geckoes.
  - A good grass cover protects slopes and hillsides from erosion and provides ٠ habitat for ground fauna such as button-quail.
    - Mosaic burning for regeneration and retention of microhabitats is critical for maintaining species richness. Burning every three years in winter or just prior to summer rains is an optimum regime. To maintain a diversity of habitat for wildlife it is better to burn patches rather than large areas, although selective overgrazing in the burnt areas needs to be managed.
  - Retention of mature trees is necessary, as only long-lived trees will form hollows.

12.11.14, 12.11.27, 12.5.1c, 12.5.1g, 12.5.3, 12.5.3a, 12.9-10.12, 12.9-10.17, 12.9-

10.17c, 12.9-10.17e, 12.9-10.25, 12.9-10.26, 12.9-10.27, 12.9-10-28, 12.9-10.4, 12.9-

Conservation management should aim to retain remnant patches especially where these offer connectivity values.

Forest Walloons, 6a; Helidon Forest, 7b; Marburg Forest, 7a (Noble, 1996).

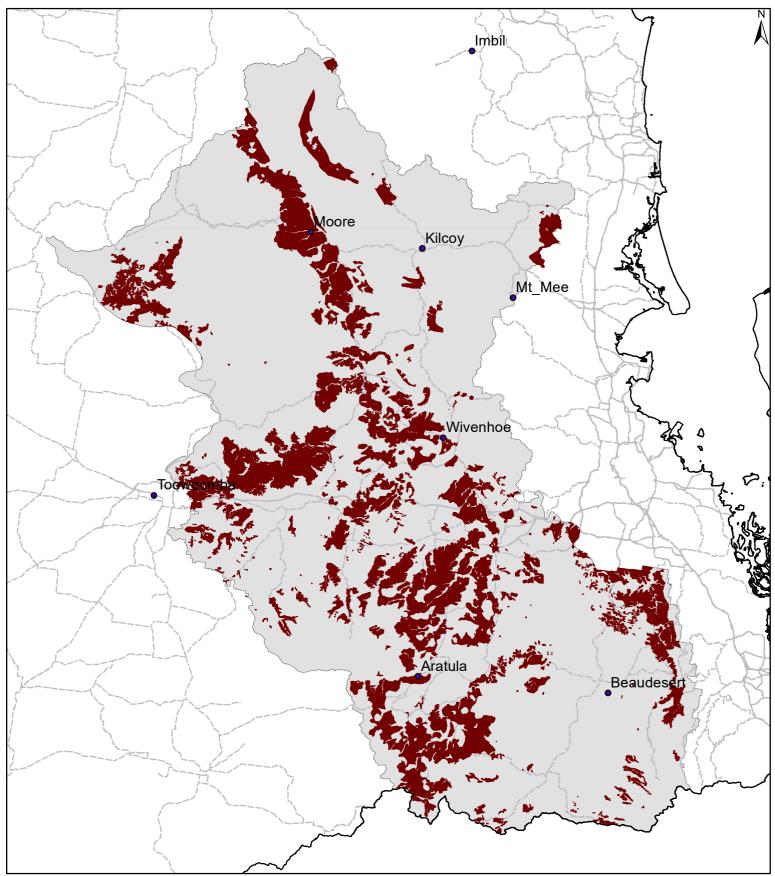
**Regional Ecosystems** 

Land resource area

10.4a, 12.9-10.5, 12.9-10.5a, 12.9-10.5d, 12.9-10.7.



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Area of land type in region: 17% Median rainfall (region): 632 – 1372 mm Average rainfall (region): 637 – 1536 mm Area of land type with FPC: 9% Median FPC: 36% Median TBA: 15 m2/ha

