

LUNE RIVER LIMESTONE (535241) LAND SYSTEM [See description on next page.]



*Limestone quarry in the Lune River Limestone (535241) Land System.*

LAND SYSTEM  
Lune River Limestone

535241

Area (ha):  
1426

COMPONENT

PROPORTION(%)

A

30

B

40

C

30

RAINFALL (mm)

Approximate Annual Rainfall: 1000-1250

GEOLOGY

Ordovician Limestone and Associated Interbedded Siltstone/Sandstone

TOPOGRAPHY

Steep Slopes and Associated Flats

Position

Upper Slopes

Exposed Lower Slopes

Protected Lower Slopes

Typical Slope(°)

25

25

0-10

NATIVE VEGETATION

Structure

(Tall) Open Forest

(Tall) Open Forest  
Over Rainforest

Floristic  
Association  
(See Appendix 1  
for common  
names)

Eucalyptus delegatensis  
Bedfordia salicina  
Lepidosperma elatius  
Goodenia ovata  
Notelaea ligustrina  
Leptospermum scoparium  
Dryophila cyanocarpa  
Gahnia grandis  
Acacia verticillata  
Pomaderris apetala  
Acacia riceana

Eucalyptus obliqua  
Gahnia grandis  
Phebalium squameum  
Beyeria viscosa  
Monotoca glauca  
Pteridium esculentum  
Acacia verticillata  
(Eucryphia lucida)  
Pomaderris apetala  
(Atherosperma moschatum)

Eucalyptus obliqua  
Eucalyptus regnans  
Melaleuca squarrosa  
Acacia melanoxylon  
Atherosperma moschatum  
Pomaderris apetala  
Nothofagus cunninghamii  
Dicksonia antarctica  
Olearia argophylla  
Monotoca glauca  
Coprosma quadrifida  
Phebalium squameum  
Blechnum watsii  
Anopterus glandulosus

SOIL

Surface(A)Texture

Clay Loam

Sandy Loam

Clay Loam

B Horizon(subsoil)  
Colour (moist)  
Texture and  
primary profile  
form

Shallow medium/heavy clay-  
yellowish brown (10 YR  
5/6) to brownish yellow  
(10 YR 6/6) on\* bedrock.  
Duplex.

A1 - shallow sandy loam-  
Black (5 YR 2/1)  
A2 - sand-light grey/grey  
(10 YR 6/1) on bedrock.  
Uniform.

Deep medium clay - Brownish  
yellow (10 YR 6/6) with a  
light grey (10 YR 7/2) mottle.  
Duplex.

Permeability

Moderate

Moderate /High

Moderate

Typical depth(m)

0.50

0.35

>1.40

LAND USE

Caving, Limestone Quarrying, Nature Conservation, Forestry

HAZARDS

High /Moderate Sheet, Rill, Gully Erosion

LUNE RIVER LIMESTONE

This land system occurs on Ordovician limestone and associated siltsone and sandstone, inland from Lune River on the lower slopes of Moonlight Ridge.

Upper slopes (>300 m A.S.L.) contain a shallow (0.50 m), duplex soil with a clay loam surface over a yellowish brown clay developed on bedrock. This supports an open forest to tall open forest dominated by *Eucalyptus delegatensis* with an understorey that includes *Bedfordia salicina*, *Lepidosperma elatius*, *Goodenia ovata*, *Notelaea ligustrina*, *Leptospermum scoparium*, *Drymophila cyanocarpa*, *Gahnia grandis*, *Acacia verticillata*, *Pomaderris apetala* and *Acacia riceana*.

Exposed lower slopes have a shallow (0.35 m), sandyloam surface over a light grey to grey sand. This supports an open to tall open forest dominated by *Eucalyptus obliqua* with an understorey that includes *Gahnia grandis*, *Atherosperma moschatum*, *Phebalium squameum*, *Beyeria viscosa*, *Monotoca glauca*, *Pteridium esculentum*, *Acacia verticillata*, *Eucryphia lucida* and *Pomaderris apetala*,

Protected lower slopes contain a deep (>1.40 m), duplex soil with a clay loam surface over a brownish yellow clay that often has a light grey mottle. This supports an open to tall open forest dominated by *Eucalyptus obliqua* and *Eucalyptus regnans* with a rainforest understorey that includes *Nothofagus cunninghantii*, *Melaleuca squarrosa*, *Acacia melanoxylon*, *Atherosperma moschatum*, *Pomaderris apetala*, *Dicksonia antarctica*, *Olearia argophylla*, *Monotoca glauca*, *Coprosma quadrifida*, *Phebalium squameum*, *Blechnum wattsii* and *Anopterus glandulosus*.

Major land uses include caving, limestone quarrying, nature conservation and forestry. The karst country in this land system contains caverns and underground streams. Special management policies, may be required to avoid degradation of these features.

See photo on previous page.