MUD Mudi Land System

Area: 79.2 km²

Landscape: Gently undulating rises formed on highly calcareous Woorinen Formation silty sands over

Ripon / Bakara Calcretes

Annual rainfall: 285 – 320 mm average

Main soils: Magarey - Ala (Supravescent, Regolithic, Hypercalcic / Lithocalcic Calcarosol)

Very highly calcareous (more than 40% CaCO₃) soft sandy loam to light sandy clay loam grading to very highly calcareous light sandy clay loam with variable rubble content.

<u>Bookabie</u> - **A4a** (Regolithic, Hypercalcic / Lithocalcic Calcarosol)

Calcareous soft sandy loam to sandy clay loam, becoming more clayey and calcareous with depth, over Class III A, B or C fine to rubbly carbonate in a sandy clay loam to light clay matrix,

from about 40 cm.

Minor soils: Chintumba - B1 (Hypervescent, Petrocalcic, Lithocalcic Calcarosol)

Medium thickness highly calcareous sandy loam to sandy clay loam containing increasing

amounts of rubble with depth, over sheet calcrete at less than 50 cm.

Magnesia soil - **A1b / A4b** (Hypervescent / Epihypersodic, Regolithic, Hypercalcic Calcarosol)

Very highly calcareous (A1b) to calcareous (A4b) sandy loam to loam becoming more clayey

and calcareous at depth with variable rubble, continuing below 120 cm, and saline

throughout.

Summary: Very gently undulating rises characterized by calcareous to very highly calcareous sandy

loams. These have marginal to moderate fertility, but are susceptible to wind erosion and sometimes limited soil depth. High subsoil boron and salt, and sporadic magnesia patches

reduce productive potential. Minor areas of shallow stony soils are semi arable.

Soil Landscape Unit summary: 5 Soil Landscape Units (SLUs) mapped in the Mudi Land System:

SLU	% of area	Component	Main soils	Prop#	Notes
SMB	21.2	Sandy loam rises	Bookabie	D	Very gently undulating rises formed on Woorinen Formation deposits. The land is mostly arable, but some shallow stony soils are only marginally suitable for cropping. There are minor magnesia patches throughout. Main soils: Bookabie - Moderate fertility calcareous sandy loam with
SxB	22.1	Sandy loam rises	Bookabie / Magarey	D	
SzB	11.9	Sandy loam rises	Bookabie	V	
		Stony rises	Chintumba	E	moderate subsoil boron and salt. Slight wind erosion
YPL	10.3	Sandy loam flats	Magarey	D	potential. Magarey - Marginal fertility highly calcareous sandy loam with high subsoil born and salt. Slight wind erosion potential. Chintumba - Very shallow, restricted waterholding capacity, extensive surface stone, often semi arable.
YPp	34.5	Sandy loam rises	Magarey	D	

PROPORTION codes assigned to Soil Landscape Unit (SLU) components:

D Dominant in extent (>90% of SLU)

V Very extensive in extent (60–90% of SLU)

E Extensive in extent (30–60% of SLU)

C Common in extent (20–30% of SLU)

L Limited in extent (10–20% of SLU)

M Minor in extent (<10% of SLU)

Further information: <u>DEWNR Soil and Land Program</u>



