

NOE North Edge Land System

Area: 102.3 km²

Landscape: Gently undulating rises underlain by Ripon / Bakara Calcretes mantled by calcareous silty sands of the Woorinen Formation. The landscape is formed on granites at depth.

Annual rainfall: 290 – 310 mm average

Main soils:

Bookabie (non rubbly) - A4a (Regolithic, Hypercalcic Calcarosol)
Calcareous soft sandy loam to sandy clay loam, becoming more clayey and calcareous with depth, over Class III A fine carbonate in sandy clay loam to light clay matrix, from about 40 cm.

Bookabie (rubbly) - A4b (Regolithic, Supracalcic / Lithocalcic Calcarosol)
Calcareous soft sandy loam grading to a very highly calcareous friable massive sandy clay loam with rubbly Class III B or III C carbonate from about 50 cm, continuing with decreasing rubble content.

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 - A4c (Epihypersodic, Regolithic, Hypercalcic / Supracalcic Calcarosol)
Calcareous loam becoming more clayey and calcareous at depth with variable rubble, continuing below 120 cm, and saline throughout.

Summary: Rises with mainly calcareous sandy loam to sandy clay loam soils. Productive potential is limited by wind erosion potential, shallow soils in limited stony areas (reduced moisture holding capacity), subsoil boron and salt. Magnesia patches are scattered throughout, occupying about 1% of the landscape. There is some water erosion potential on moderate slopes.

Soil Landscape Unit summary: 1 Soil Landscape Unit (SLU) mapped in the North Edge Land System:

SLU	% of area	Component	Main soils	Prop#	Notes
SMB	100	Sandy loam rises	Bookabie	V	Rises with mainly calcareous sandy loam to sandy clay loam soils. Productive potential is limited by wind erosion potential, shallow soils (reduced moisture holding capacity), subsoil boron and salt. There is some water erosion potential on moderate slopes. <u>Bookabie</u> : Moderate fertility calcareous sandy loam with moderate subsoil boron and salt. Slight wind erosion potential. <u>Chintumba</u> : Very shallow, restricted waterholding capacity, extensive surface stone, often semi arable. <u>Magnesia</u> : High salinity restricts plant growth.
		Stony rises	Chintumba	L	

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

D	Dominant in extent (>90% of SLU)	C	Common in extent (20–30% of SLU)
V	Very extensive in extent (60–90% of SLU)	L	Limited in extent (10–20% of SLU)
E	Extensive in extent (30–60% of SLU)	M	Minor in extent (<10% of SLU)

Further information: [DEWNR Soil and Land Program](#)

