

THU Thurlga Land System

Area: 54.6 km²

Landscape: Depressions comprising very gently undulating flats and salt lakes. Low to moderate sand hills of windblown Molineaux Sand are scattered across the flats, and lunettes and other gypsum-rich deposits are associated with salt lakes.

Annual rainfall: 225 - 250 mm average

Main soils: Wiabuna (rubbly) - A4a (Regolithic, Lithocalcic / Supracalcic Calcarosol)
Calcareous sandy loam to sandy clay loam grading to carbonate rubble.
Moornaba - H2 (Calcareous, Arenic, Yellow-Orthic Tenosol)
Very thick red to brown sand, becoming weakly calcareous and often grading to an orange clayey sand with depth, overlying variable carbonate (fine to rubbly, occasionally sheet).
Saline soil - N2 (Salic / Hypersalic Hydrosol)
Miscellaneous wet saline soil influenced by rising saline groundwater tables.

Minor soils: Bayley - A8 (Hypergyptic Calcarosol)
Calcareous loam grading to a highly calcareous sandy clay loam over powdery gypsum.
Magnesia soil - A4b (Epihypersodic, Supracalcic, Regolithic Calcarosol)
Calcareous sandy loam to sandy clay loam, becoming more clayey and rubbly with depth.
Saline throughout.

Summary: The Corrobinnie Land System is an area of salt accumulation and shallow calcareous soils in a low rainfall environment. Productive capacity is low. Wind erosion control is the principal land management issue.

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

SLU	% of area	Component	Main soils	Prop#	Notes
SQA	38.3	Gently undulating flats	Wiabuna	V	Calcareous sandy loams have marginal fertility, restricted waterholding capacity and slight to moderate potential for wind erosion. Sandhills are low in fertility, and have moderate to high susceptibility to wind erosion.
		Moderate to low sandhills	Moornaba	C	
		Flats	Magnesia soil	M	
U-C	2.2	Moderate sandhills	Moornaba	D	Low fertility, moderate to high wind erosion potential.
UBI	11.3	Gently undulating flats	Wiabuna	E	As for SQA , but higher proportion of sandhills, and hence higher potential for wind erosion.
		Moderate to low sandhills	Moornaba	E	
UBR	19.9	Sand spreads	Moornaba	E	Similar to UBI , but past erosion has redistributed sand into broad spreads.
		Gently undulating flats	Wiabuna	E	
			Magnesia soil	M	
ZI-	28.3	Salt flats	Saline soil	V	Lunettes are susceptible to wind erosion.
		Lunettes	Bayley	C	

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](#)

