## ADD Addison Land System

Area:	1,425.5 km <sup>2</sup>		
Landscape:	Calcrete plains with calcrete ridges (relict dunes) and sinkholes. There are 10% low sandhills, with a thin veneer of sand over calcrete.		
Annual rainfall:	305 – 370 mm average		
Main soils:	<ul> <li><u>Terre</u> - B3 (<u>Petrocalcic, Leptic Tenosol</u>) Thin to medium thickness red sandy loam to clay loam over sheet calcrete.</li> <li><u>Calcrete</u> - B2a (<u>Petrocalcic, Lithocalcic Calcarosol</u>) Thin calcareous sandy loam to clay loam over hard calcrete, associated with abundant surface calcrete and sheet rock.</li> <li><u>Moornaba (shallow</u>) - B8 (<u>Petrocalcic, Leptic Tenosol</u>) Up to 50 cm siliceous sand over calcrete.</li> <li><u>Moornaba</u> - H2 (<u>Calcareous, Arenic, Red-Orthic / Yellow-Orthic Tenosol</u>) Medium thickness brown sand over yellowish sand with fine carbonate.</li> </ul>		
Minor soils:	<ul> <li>Wookata - A1 (Supravescent, Hypercalcic / Lithocalcic Calcarosol)         Highly calcareous (more than 40% CaCO<sub>3</sub>) soft loamy sand to sandy loam grading to very highly calcareous sandy loam with variable rubble content.     </li> <li>Wookata (shallow) - A1/B1 (Supravescent, Petrocalcic, Hypercalcic / Lithocalcic Calcarosol)         Highly calcareous (more than 40% CaCO<sub>3</sub>) soft loamy sand to sandy loam grading to very highly calcareous sandy loam with variable rubble content, over calcrete at about 40 cm.     </li> <li>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 a sandy clay loam to light clay matrix, from about 40 cm.     </li> <li>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.     </li> <li>Bookabie (shallow) - B2b (Petrocalcic, Supracalcic / Lithocalcic Calcarosol)         Calcareous soft sandy loam to sandy clay loam grading to Class III B or C rubbly carbonate in a sandy clay loam to sandy clay loam matrix, over hard calcrete within 50 cm.     </li> <li>Bookabie (shallow) - B2b (Petrocalcic Calcarosol / Shelly Calcarosol)         Calcareous soft sandy loam to sandy clay loam grading to Class III B or C rubbly carbonate in a sandy clay loam to light clay matrix, over hard calcrete within 50 cm.     </li> <li>Haslam - H1 (Supravescent, Hypercalcic Calcarosol / Shelly Calcarosol)         Thick highly calcareous sand, becoming more calcareous with depth and continuing below 100 cm. These soils may consist of up to 90% fine shell fragments.     </li> <li>Saline soil - N2 (Salic / Hypersalic Hydrosol)         Miscellaneous wet saline</li></ul>		
Summary:	The landscape is dominated by calcrete flats and low rises, which are semi to non arable due to shallow stony soils and / or reefs of sheet rock. Scattered across the landscape are low sandhills which have low fertility and are moderately susceptible to wind erosion. Deeper calcareous sandy loams occur to a minor extent.		





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Soil Landscape Unit summary	, 13 Soli Lunuscupe onins	s (slos) mapped in i	ne Addison Land System.

SLU	% of area	Component	Main soils	Prop#	Features
QEA	0.8	Stony flats	Shallow Wookata	V	Shallow very highly calcareous soils on
		Sandy rises	Haslam	С	calcrete (non arable) with sporadic veneer of calcareous sand – infertile and prone to wind erosion.
QFA	1.4	Flats	Shallow Bookabie	V	Calcrete (semi arable) with 20-30%
		Low sandhills	Shallow Moornaba	С	sandhills
RBA	7.1	Stony flats	Terre/Calcrete	D	Calcrete (non arable) with up to 10%
		Low sandhills	Shallow Moornaba	м	sandhills (low fertility, moderate wind erosion potential)
RCA	1.9	Flats	Shallow Bookabie	D	Higher proportion of rubbly soils with greater depth - semi arable.
RUA	25.6	Stony flats	Terre/Calcrete	D	Calcrete with no sandhills - non arable.
	58.9	Stony flats	Terre/Calcrete	V	Calcrete (non arable) with 10-20%
		Low sandhills	Sh Moornaba	L	sandhills (low fertility, moderate wind erosion potential)
SgA <0.1	<0.1	Flats	Bookabie	V	Sandy loam ( moderate fertility and water
		Low sandhills	Shallow Moornaba	С	holding capacity) with 20-30% sandhills
U-D	0.2	Low sandhills	Shallow Moornaba	D	Individual low sandhills (low fertility, moderate wind erosion potential).
UMG	0.3	Low sandhills	Shallow Moornaba	V	Rises of very highly calcareous sandy
		Low rises	Wookata	С	loam (low fertility, moderate water holding capacity) with >70% sandhills (moderate wind erosion potential).
UUG	0.6	Low sandhills	Moornaba	V	Calcrete flats (non arable) with >70%
		Stony flats	Terre/Calcrete	С	sandhills (moderate wind erosion potential, low fertility)
UUJ	1.5	Low rises	Bookabie	E	Sandy loam rises (with moderate fertility
		Low sandhills	Shallow Moornaba	E	and water holding capacity) and semi
		Stony flats	Terre/Calcrete	L	arable calcrete flats overlain by 30-60% sandhills (moderate wind erosion potential and low fertility).
VFA	0.4	Stony depressions	Calcrete	D	Depressions on sheet calcrete - non arable.
VFL	0.1	Salt flats	Saline soil	V	Non arable (salinity / rockiness)
		Stony rises	Terre/Calcrete	С	
YBp	0.5	Rises	Wookata	V	Low fertility but adequate water holding
		Low sandhills	Shallow Moornaba	L	capacity. Moderate to slight wind erosion potential.
YFL	0.7	Flats	Wookata	V	Low fertility, slight to moderate wind
			Shallow Wookata	L	erosion potential.

# PROPORTION codes assigned to soils within Soil Landscape Units (SLU):

- 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: DEWNR Soil and Land Program



