JAM Jamieson Land System

Area:	533.0 km ²					
Landscape:	Gently undulating plain underlain by granites and gneisses which outcrop sporadically. They are largely covered by Tertiary sediments including clays equivalent to the Blanchetown Clay of the Murray Mallee. These sediments are generally veneered by highly calcareous windblown deposits. Molineaux Sand is widely distributed across the landscape as jumbled sandhills or sand spreads.					
Annual rainfall:	320 – 400 mm average					
Main soils:	 Heggaton - G3 (Calcic, Brown Chromosol) Thick sand to loamy sand with a bleached A2 layer, abruptly overlying a weakly structured brown sandy clay to clay, calcareous with depth, grading to Tertiary sediments. Lowan - H3 (Basic, Arenic, Bleached-Orthic Tenosol) Thick bleached sand with a thin organically darkened surface layer, grading to a yellowish sand (often with darker lamellae), continuing below 150 cm. Cleve - D3 (Hypercalcic, Red Sodosol) Thin to medium thickness hard loamy sand to sandy clay loam over a red clay with coarse prismatic structure, highly calcareous from about 25 cm, grading to alluvial clay. 					
Minor soils:	 <u>Wiabuna (rubbly)</u> - A4 [Regolithic, Lithocalcic / Supracalcic Calcarosol] Calcareous sandy loam to sandy clay loam grading to carbonate rubble. <u>Mangalo</u> - D1 [Hypercalcic, Red Chromosol OR Calcareous, Inceptic, Red-Orthic <u>Tenosol</u>] Thin to medium thickness coarse loamy sand to sandy loam over a red well structured clay forming in weathering rock with abundant fine carbonate in fissures. <u>Skeletal soil</u> - L1 (Lithic / Petroferric, Leptic Tenosol / Rudosol) Variable gravelly loamy sand to sandy clay loam over basement rock or massive ironstone at depths usually less than 50 cm. <u>Butler</u> - F2 (Hypercalcic, Brown Sodosol) Thin to medium thickness hard loamy sand to sandy loam over a brown mottled clay with strong columnar structure, highly calcareous from about 20 cm, grading to alluvial or Tertiary clay. <u>Saline (alluvial) soil</u> - N2 (Salic / Hypersalic Hydrosol) Miscellaneous wet saline soil influenced by rising saline groundwater tables. <u>Moornaba</u> - H2 (Calcareous, Arenic, Red-Orthic / 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). <u>Bayley</u> - A8 [Hypergypsic Calcarosol] Calcareous loam grading to a highly calcareous sandy clay loam over powdery gypsum. 					
Summary:	The landscape is characterized by sandy soils on slopes (sand over clay) or sand spreads, and low, moderate and high jumbled sandhills. All these soils are water repellent, moderately to highly susceptible to wind erosion, and infertile. The moderate and high sandhills are non arable. Sandy loam soils are co-dominant with sand over clay soils on flats and gentle slopes. These include texture contrast soils with red clayey subsoils, and calcareous sandy loams over highly calcareous subsoils. These soils are moderately fertile with moderately low erosion susceptibility, but where					





formed over Blanchetown Clay equivalent, subsoil boron and salt levels can be high. There are salt affected areas throughout on lower slopes, and some highly saline depressions. Basement rock highs are scattered, and include some potentially productive soils, although the land is only semi arable due to the extent of outcrop and shallow soils.

Soil Landscape Unit summary: 26 Soil Landscape Units (SLUs) mapped in the Jamieson Land System:

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GXB 3.3 Sandy flats Heggaton V Mixture of infertile, water repellent sandy s Sandy loam flats Cleve / E with moderate wind erosion potential, and sandy loam soils with moderate fertility, but often poor subsoil structure and high bord levels. Slight wind and water erosion potential minor saline seepage.						
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Wiabuna / Butlersandy loam soils with moderate fertility, but often poor subsoil structure and high bord levels. Slight wind and water erosion pote minor saline seepage.	GXB	3.3				
Butler often poor subsoil structure and high bord levels. Slight wind and water erosion pote minor saline seepage.			Sandy loam flats		E	
levels. Slight wind and water erosion pote minor saline seepage.						
minor saline seepage.				DUIIEI		, e
						-
O-B 0.5 High sandhills Lowan D Moderately high to extreme wind erosion	O-B	0.5	High sandhills	Lowan	D	Moderately high to extreme wind erosion
O-C <0.1 Moderate sandhills Lowan D potential, water repellence and very low fertility.						potential, water repellence and very low
	OGb	0.2	Moderate sandhills	Lowan	V	Sandy throughout. Moderate to high wind





		Swales	Heggaton	E	erosion potential and low to very low fertility.
OGf	0.3	Swales	Heggaton	E	All susceptible to water repellence.
		Low sandhills	Lowan	E	
OyE	3.0	High sandhills	Lowan	V	Sandhills: Very low fertility, moderate to very
		Swales	Heggaton /	E	high wind erosion potential, water
			Cleve		repellent.
OyH	1.0	Swales	Heggaton /	E	Swales: Sandy soils have low fertility, are water
			Cleve		repellent and have moderate wind
		High sandhills	Lowan	E	erosion potential.
OyI	4.5	Swales	Heggaton /	E	Sandy loam swales have moderate
			Cleve		fertility, high subsoil boron, and low
		Moderate sandhills	Lowan	E	wind erosion potential.
OyJ	8.6	Swales	Heggaton /	E	
			Cleve		
		Low sandhills	Lowan	E	
SMB	5.9	Very gentle slopes	Wiabuna /	D	Moderately fertile calcareous sandy loams or
			Cleve		sandy loam over clay soils. Moderately low
					potential for wind and water erosion.
ZA-	0.2	Marginally saline	Saline	D	Too saline for cropping, but most land is
		flats	alluvial		suitable for revegetation with salt tolerant
					species for grazing, fodder or amenity.
ZD-	0.1	Salt flats	Saline soil	D	No agricultural use.
ZI-	0.3	Salt flats	Saline soil	V	Flats of no agricultural value, sandhills highly
		Sandhills	Moornaba	С	susceptible to wind erosion.
ZJ-	0.1	Marginally saline	Saline soil	E	Flats suitable for establishment of salt tolerant
		flats			vegetation; lunettes susceptible to wind
		Gypsum lunettes	Bayley	E	erosion.

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: DEWNR Soil and Land Program



