HAM Hammond Land System

Area:	150.5 km ²										
Landscape:	Pediments and plains with calcareous and non-calcareous clay loam to clay over red clay and shallow calcareous clay loams on associated rises east and south-east of Hammond locality.										
Annual rainfall:	285 – 385 mm average										
Geology:	Quaternary slope deposits (Pooraka Formation, Qht) and calcareous siltstones of the Tapley Hill Formation (Pft).										
Topography:	Gently sloping to undulating pediment plains often containing low rises underlain by calc-siltstone or other fine-grained rock. Slopes on pediments are in the range 1 - 6%, and on the rises are mostly 3 - 6%. Drainage and slopes are predominantly to the west. This land system forms the upper part of the catchments of the Muttabee and Amyton Creeks, both tributaries of the Willochra creek.										
Elevation:	Up to 500 m asl, but mostly around 450 - 460 m on crests of rises and upper pediments.										
Relief:	20 - 30 m mostly on rises. The relief between upper and lower pediments is of the order of 30 m, but may be as much as 50 m.										
Typical soils:	Hard, erodible clay loam over friable red clay (pedaric Sodosols or Chromosols) on pediments, mostly with carbonate and gypsum at depth										
	Stony loam over prismatic red clay with carbonate at depth (Chromosols) on pediments.										
	Calcareous clay loam grading to highly calcareous clay over stony calcareous clayey fan deposits (Calcarosols) on pediments in association with the above Sodosols and Chromosols.										
	Calcareous clay loam grading to highly calcareous clay over calcareous siltstone (Calcarosols) on low rises, often as hard basement highs on pediments.										
Main soils:	 C3 (14%) Friable gradational clay loam (Calcic-Hypercalcic Red Dermosol-Calcarosol) A2 (12%) Calcareous loam on rock (Paralithic Calcarosol) C1 (11%) Gradational sandy loam (Calcic-Hypercalcic Kandosol-Calcarosol) D2 (10%) Loam over red clay (Calcic-Hypercalcic Red Chromosol-Sodosol) L1 (10%) Shallow soil on rock (Rocky Rudosol-Tenosol) 										
Minor soils:	 D4 (9%) Loam over pedaric red clay (Pedaric Red Sodosol-Dermosol) A5 (8%) Rubbly calcareous loam on clay (Supracalcic-Lithocalcic Calcarosol on clay) RR (4%) Bare rock A3 (3%) Deep moderately calcareous loam (Calcic Calcarosol) B2 (3%) Shallow calcareous loam on calcrete (Petrocalcic Calcarosol-Rudosol) D1 (3%) Loam over clay on rock (Shallow Calcic-Hypercalcic Red Chromosol) 										





Summary: The Hammond Land System is an area of relatively low relief between the steep and hilly, Horseshoe Range and Gilbert Hill Land Systems. Pediments with red duplex and calcareous soils surround the central core of rises. The drainage flows westward to join the Willochra creek.

Soil Landscape Unit summary: Hammond Land System (HAM)

SLU	% of area	Component	Main soils	Prop#	Notes
ABB	1.0	Rolling rises	L1RR	D	Rolling rises with linear rocky quartzite outcrops and shallow rocky soils on interbedded fine-grained rocks. Relief is less than 30m, slopes are 10-30%. Bare rock outcrop is common. Main soils: <u>Shallow stony soils on rock</u> - L1
ADB	0.1	Rolling rises	L1	D	Non-arable rocky rises with thin soil cover formed on
ADH	0.4	Rolling rises	L1	D	limestone and calc-siltstone with very shallow loamy soils.
ADh	0.7	Rolling rises	LI	D	ADB Rolling rises as above.
ADI	4.6	Rolling low hills	LI	D	Relief is 9-30m, slopes are 10-30%. ADH Rolling rises as above, with eroded watercourses. Relief is 9- 30m, slopes are 10-30% ADh Rolling rises as above with eroded watercourses and scalding. Relief is 9-30m, slopes are 10-30% ADI Rolling low hills as above, with eroded watercourses. Relief is 30-90m, slopes are 3-10%. Main soils: calcareous loamy, <u>Shallow stony soils on rock</u> - L1; <u>gradational red clay-loam over clay</u> (Red clayey pedaric Dermosols) - C2 and <u>Calcareous clay loam on rock</u> - A2.
DJH	0.3	Undulating rises	D4D6 C3	D	Non-arable, limited pastoral use. Undulating rises with shallow red duplex soils associated with deeply weathered kaolinised and ferruginised rocks. Relief is 9-30m, slopes are 3-10%. Main soils: Loam over pedaric red clay - D4 , <u>Ironstone-</u> gravelly sandy loam over red clay- D6 and <u>Friable</u> gradational sandy clay loam - C3 .
DNB	0.3	Gently undulating rises	D1	D	Rises with shallow texture contrast soils formed on fine- grained rocks, typically Brachina Shale Formation. The soils have clay loam surface textures.
DNC	0.9	Undulating rises	D2D1	D	DNB Gently undulating rises. Slopes: 1-3%, relief is less than 30m. DNC Undulating rises. Relief is 9-30m, slopes are 3-10%.
DNV	2.8	Gently undulating rises	D1	D	DNV Gently undulating rises. Scalding occurs on 5-50% of land. Slopes are 1-3%, relief is less than 30m. DNW Undulating rises; 5-10% of land is scalded and gullied.
DNW	0.3	Undulating rises	D2D1	D	Relief is 9-30m, slopes are 3-10%. Main soils: <u>Loam over red clay</u> - D2 and <u>Clay loam over</u> <u>pedaric red clay on rock</u> - D1 .
EAC	0.2	Undulating rises	A2C2 D1	D	Undulating rises with gradational calcareous soils over hard rock with more than 20% red texture contrast and/or non- calcareous red gradational soils. Relief: 9-30m, slopes: 3-10%. Main soils: <u>Calcareous loam on rock</u> -A2, <u>Gradational loam</u> <u>on rock</u> -C2, <u>Clay loam over pedaric red clay on rock</u> - D1.
EDC	0.3	Undulating rises	C2L1	D	Undulating rises with red sandy to loamy surfaced gradational soils on quartzites and siltstones. Main soils: <u>Gradational loam on rock</u> - C2 and <u>Shallow stony</u> <u>soils on rock</u> - L1 .
EFC	4.8	Undulating rises	A2D7L1	D	Rises with shallow, mainly calcareous loamy soils formed on calc-siltstones of the Wonoka or Tapley Hill Formations
EFG	0.3	Gently undulating	A2D7L1	D	typically. EFC Undulating rises.





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		rises			Relief is less than 30m, slopes are less than 10%.
EFH	1.4	Undulating	A2D7L1	D	EFG Gently undulating rises as above, with up to 20% gully
		rises	/ (20/ L1		erosion. Relief is 9-30m, slopes are 1-3%.
EFW	1.1	Undulating	A2D7L1	D	EFH Undulating rises with gullies affecting 5-10% of land.
		rises	/ (20/ L1		Relief is 9-30m, slopes are 3-10%.
		11505			EFW Undulating rises variably scalded with between 5 and 50%
					of land affected.
					Main soils: <u>Calcareous loam on rock</u> – A2 , <u>Loam over poorly</u>
					structured clay on rock - D7 , Shallow stony soils on rock - L1 .
EHB	0.5	Gently	A2	V	Rises and pediments on calcareous siltstones and limestones
Lind	0.0	sloping	7.2		such as those of the Tapley Hill Formation, Wonoka
		plain			Formation and the ABC Range Quartzite of the Wilpena
		Rocky	RR	L	Group. The soil-landscape units are also associated with
		outcrops			Bunyeroo Formation shales with some outwash contribution
EHC	0.7	Undulating	A2L1	V	from calcareous Wonoka Formation calc-siltstones.
Line	0.7	rises	AZL I	v	EHB Gently sloping plains with rocky outcrops.
		Undulating	A2	С	Gently sloping Plains: Slopes are 1-3%, relief is less than 9m.
		pediments	72	C	Rocky rises: Slopes are 3-10%, relief is 9-30m.
EHH	0.6	Undulating	A2L1	V	EHC Undulating rises and pediments.
	0.0	rises	TZLI	, v	Relief is less than 30m, slopes are 3-10%.
		Undulating	A2	С	EHH Undulating rises and pediments.
		pediments	~~		Relief is less than 30m, slopes are 3-10%.
EHm	1.0	Undulating	A2L1	V	Gullying affects up to 20% of land.
LIIII	1.0	rises	AZLI	v	EHm Undulating low rises on calcareous basement rock with
			A2	С	deeper calcareous soils on lower slopes & drainage
		Undulating	AZ	C	depressions. Scalding is moderate to severe on lower slopes.
EHn	0.5	pediments	A2L1	V	Relief is less than 30m, slopes are 3-10%. Severely scalded
ЕПІІ	0.5	Rolling rises		V C	(40-50% of land affected) and gullied (20% land affected).
EHV	0.1	Pediments	A2	V	Main soils:
ЕПΥ	3.1	Gently	A2	V	Rises, crests: <u>Calcareous loam on rock</u> – A2 .
		undulating pediments			Lower slopes: <u>Calcareous loam on rock</u> – A2 and <u>Shallow</u>
			4.01.1	<u> </u>	stony soils on rock - L1.
EIW	0.4	Rocky rises	A2L1	С	EHn Dissected rolling rises with shallow calcareous soils on
EHW	0.6	Undulating	A2L1	V	Cambrian Hawker Group limestone & calc-siltstone. Some
		rises	10	<u> </u>	areas of shallow red clay soils occur on crests (She-
		Undulating	A2	С	oak/Allocasuarina groves are associated with these).
EIIV	0.0	pediments		V	Severely scalded (40-50% of land affected) and gullied (20%
EHX	0.8	Rolling rises	A2L1	V	of land affected).
		Pediments	A2	С	Main soils: Calcareous loam on rock – A2 and Shallow (often
					<u>clayey) stony soils on rock</u> - L1.
					EHV Gently undulating pediments with rocky rises
					Pediments: Gently undulating plains, 50-50% of land is
					scalded. Slopes are 1-3%, relief is less than 9m.
					Rocky Rises: Undulating rises, 5-50% of land is scalded.
					Slopes are 3-10%, relief is 9-30m.
					EHW Undulating rocky rises with pediments. Relief is less than
					30m, slopes are 3-10%. 5-50% of land is scalded.
					EHX Rolling rocky rises with pediments. Relief is less than 30m,
					slopes are 10-30%. 5-50% of land is scalded.
					Main soils:
					Rocky rises: <u>Shallow stony soils on rock</u> - L1, Bare rock - RR .
					Plains and Pediments: <u>Calcareous loam on rock</u> – A2 , Loam
					over poorly structured clay on rock - D7 and Shallow stony
					soils on rock - L1.
ELI	0.4	Rolling rises	L1C2B2	D	Rises with shallow soils formed on Appila Tillite Formation and
	0.4	1.011119 11303			





ELW	0.0	llodulations		D	
ELW	2.3	Undulating rises	L1C2B2	D	alluvium. ELI Rolling rises; gullying affects 5-10% of land, scalding affects around 5%. Slopes are 10-30%, relief is less than 30m. ELW Undulating rises-pediment complex. Scalding affects around 5-10%, minor gullying affects 5-10%. Slopes are 3-10%, relief is 9-30m. Main soils: <u>Shallow stony soils on rock</u> - L1, gradational red clay-loam over clay (<u>Red clayey pedaric Dermosols</u> - C2) and Shallow a clayer an astronate - P2
EVC	0.5	Undulating	A2	V	and <u>Shallow calcareous loam on calcrete</u> - B2 . Undulating rises with rock outcrops and shallow calcareous
LVC	0.5	rises			soils formed on fine-grained calcareous rocks.
		Rocky outcrops	RR	С	Slopes are 3-10%, relief is less than 9-30m.
		00101005			Main soils: <u>Calcareous loam on rock</u> – A2 and <u>Bare rock</u> – RR .
EZC	1.4	Undulating rises	RR	V	Gullying affects 10-20% of land, scalding affects around 5%. Slopes are 3-10%, relief is less than 30m.
		Rocky	RR	С	EZn Rolling rise-pediment complex.
		outcrops			Relief is 9-30m, slopes are 10-30%.
EZH	0.9	Undulating rises	RR	V	EZW Undulating rises with rocky outcrops. Slopes are 3-10%, relief is less than 30m.
		Rocky	RR	С	
		outcrops			Main soils:
EZn	1.2	Rolling rises Pediments	A2A5B2 A2A5B2	V C	Rises: <u>Calcareous loam on rock</u> – A2, <u>Rubbly calcareous</u> <u>loam on clay</u> - A5, <u>Shallow calcareous loam on calcrete</u> - B2
EZW	0.6	Undulating	A2A5B2	V	Rocky outcrops: <u>Bare rock</u> – RR.
		rises			Pediments: <u>Calcareous loam on rock</u> – A2 , <u>Rubbly</u> <u>calcareous loam on clay</u> - A5 and <u>Shallow calcareous loam</u>
		Rocky outcrops	RR	С	on calcrete - B2 .
HFB	0.2	Gently	D4D6	D	Gently undulating rises with red texture contrast soils
		undulating rises	C3		developed over deeply weathered basement or sediments. Main soils: Loam over pedaric red clay - D4, Ironstone- gravelly sandy loam over red clay- D6 and Friable gradational clay loam - C3. Rubbly calcareous loam on clay - A5 soils also occur as a minor component.
JEG	5.4	Gently	D2C3	D	Gently sloping pediments with clay-loam surfaced, texture
		undulating pediments			contrast soils formed in alluvium. 5-10% of land is gullied. Slopes are 1-3%, relief is less than 9m. Main soils: <u>Clay loam over red clay</u> - D2 and <u>Friable</u> <u>gradational clay loam</u> - C3 . Subdominant soils are mainly <u>Clay loam over pedaric red clay</u> - D4 and <u>Rubbly</u> <u>calcareous loam on clay</u> - A5 .
JFB	7.1	Gently	D2D4	D	Gently undulating pediments with mostly red texture
		undulating pediments	C1		contrast soils with clay loam surfaces, calcareous soils occupy more than 20% and other gradational soils occupy
					more than 10%. Slopes are 1-3%, relief is less than 9m.
					Main soils: Loam over red clay - D2 , Loam over pedaric red
11.4					clay - D4 and Gradational sandy loam - C1.
JMo	0.9	Creek flat	D2D4 A6	D	Pediments plains and creek flats with stony, pedaric, red, texture contrast soils with quartz gravel on the surface.
JMV	0.9	Gently	D2D4	D	JMo Creek flat with unstable banks; 5-10% affected by
		sloping plain	A6		active gullying, minor scalding (less than 5%) also occurs. JMV Gently sloping plains with 10-50% scalded.
					Slopes are 1-3%, relief is less than 9m.
					Main soils: <u>Loam over red clay</u> - D2 , <u>Loam over pedaric red</u>
					clay - D4 and <u>Gradational calcareous clay</u> - A6 .
JNF	0.2	Plains	D4D2	D	Pediments and plains with non-stony pedaric, texture
JNI	4.2	Gently	A5 D4D2	D	contrast soils with calcareous subsoils. Surface textures are clay loamy most commonly.
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		sloping	A5		JNF Plain with 10-20% affected by gullying and 10-20%
		pediments	, 10		scalded.
JNo	2.8	Creek flats	D4D2 A5	D	JNI Gently sloping pediments. Gullying affects up to 50% of land, most severe along watercourses. Scalding affects nearly 50% of
JNV	2.2	Gently	D4D2	D	land. Slopes are 1-3%, relief is less than 9m.
		sloping	A5		JNo Creek flat 10-20% affected by gullying and 40-50% scalded.
		pediments			Scalding may be more than 50% locally.
					JNV Gently sloping pediments. Scalding affects 10-50% of
					land. Slopes are 1-3%, relief is less than 9m.
					Main soils: Loam over red clay - D2, Loam over pedaric red
					<u>clay</u> - D4 and <u>Rubbly calcareous loam on clay</u> - A5 . Red
					clay soils occur in minor association.
JXC	0.3	Undulating	D2	V	JXC Undulating pediments and rocky rise complex with
		pediments			texture contrast soils in complex with rocky rises. Most soils
		Rocky rises	D1	С	have clay loam surfaces.
					Slopes are 3-10%; relief is less than 9m on pediments and 9-
					30m on rises.
					Main soils: Loam over red clay - D2 on flats and pediments;
					Loam over clay on rock- D1 on rocky rises.
JZG	0.9	Gently	D4D1	V	Pediment-basement rock complex with red texture contrast
		undulating	D2		soils on pediments and 20-30% rocky rises with shallow
		pediments			texture contrast soils.
		Rocky rises	D1	С	JZG Gently undulating pediment-basement rises complex,
JZH	0.7	Undulating	D4D1D	V	gullying affects 10-20% of land. Slopes are 1-3%, relief is less
		pediments	2		than 9m on pediments and 9-30m on rises.
171		Rocky rises	D1	С	JZH Undulating pediments and rocky rise complex.
JZJ	0.4	Creek flat	D4A5	D	The rises have 20% gullied land and 5% scalding, the pediments show around 5% gullying and no scalding.
		Rocky	RR	С	Slopes are 3-10%, relief is less than 9m on pediments and 9-
		outcrops			30m on rises.
					JZJ Creek flat with rocky outcrops with 5-10% of land
					affected by gullying.
					Main soils:
					Pediments: Loam over pedaric red clay - D4, Loam over
					clay on rock- D1 and Loam over red clay - D2 with minor Rubbly calcareous loam on clay - A5 .
					Rocky rises: Loam over clay on rock- D1 and Bare rock - RR.
КСВ	0.8	Gently	C3A3	D	Plains and pediments of outwash sediments with gradational
	0.0	undulating	00.10		soils with sandy clay loam surface textures. Soils are mostly
		pediments			not calcareous throughout.
КСН	5.5	Undulating	C3A3	D	KCB Gently undulating pediments.
		pediments			Slopes are 1-3%, relief is less than 9m.
KCm	0.7	Undulating	C3A3	D	KCH Undulating pediments, with 10-20% gullied and minor
KC	1.0	pediments	00.10		scalding, up to 5%. Slopes are 3-10%, relief is less than 9m.
KCo	1.0	Creek line	C3A3	D	KCm Undulating pediments, 10-20% is gullied and up to 50% is scalded. Slopes are 3-10%, relief is less than 9m.
KCV	0.5	Gently	M3 C3A3	D	KCo Creek line with up to 50% scalding and around 5%
ine v	0.5	undulating	00/10		gullying (over 50% in places)
		pediments			KCV Gently undulating pediments with 10-50% scalded and
KCMz	1.5	Undulating	C3A3	D	5-10% gullied. Slopes are 1-3%, relief is less than 9m.
		pediments	-		KCMz Undulating pediments, with 5-10% gullied and 10-50%
					scalded. Dry saline land affects around 50%.
					Slopes are 3-10%, relief is less than 9m.
					Main soils: Frighle gradational sandy clay loam C2 and
					Main soils: <u>Friable gradational sandy clay loam</u> - C3 and <u>Deep moderately calcareous sandy loam</u> - A3 . Additionally,
					<u>Deep gravelly soil</u> - M3 is found associated with creek flats.
KFG	1.4	Gently	A5	D	Pediments with calcareous gradational soils and more than 20%
0	· • Ŧ	undulating			red pedaric texture contrast soils.
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1/1711		pediments		_	KFG Gently undulating pediment with 10-20% of land gullied.
KFH	0.8	Undulating	A5	D	Slopes are 1-3%, relief is less than 9m.
		pediment			KFH Undulating pediment with 10-20% of land gullied.
					Slopes are 3-10%, relief is less than 9m.
					Main soils: <u>Rubbly calcareous loam on clay</u> - A5 with over
KGA				_	20% Loam over pedaric red clay - D4 .
KGA	2.9	Plains	C3C1	D	Pediments and plains with sandy surface-textured red
KGB	5.2	Gently	C3C1	D	gradational soils with calcareous subsoils.
		undulating			KGA Plains. Slopes are 0-1%, relief is less than 9m.
Waa		pediments		_	KGB Gently undulating pediments, with minor scalding and
KGG	5.1	Gently	C3C1	D	gullying. Slopes are 1-3%, relief is less than 9m.
		undulating			KGG Gently undulating pediments, with 10-20% of land
war		pediments		_	affected by gullying and 10-50% scalded.
KGJ	0.0	Creek flat	C3C1	D	Slopes are 1-3%, relief is less than 9m.
KGo	1.3	Creek flat	C3C1	D	KGJ Creek flat with 5-10% gullied banks.
					KGo Creek flat with 10-20% gullied banks and 0-5% scalding.
					A tain a sila. Eviale la superiori a superiori a la superiori a superiori da superiori da superiori da superior
					Main soils: <u>Friable gradational sandy clay loam</u> - C3 and
VID	4 4	Dediterr	C1 40		Gradational sandy loam - C1.
KIB	4.4	Pediment	C1A2	V	Pediment-basement rock complex with mostly gradational
		Gently	L1C1A2	L	soils. Soils which have carbonate free surfaces are
		undulating			dominant. Soils which are calcareous throughout are
VIC	0 (rises	0140	N (common but not dominant.
KIC	0.6	Pediment	C1A2	\vee	KIB Gently sloping pediment with undulating basement
			D3		rises.
		Undulating	L1 A2D1	L	KIC Undulating pediments and rises. Pediment slopes are 3-10%,
1/11	1.0		01.40		relief is less than 9m. Relief on rises is 9-30m, slopes are 3-10%. KLJ Creek flats with gently undulating rises. Gullying affects 10-
KIJ	1.8	Creek flat	C1A2	V	
		Gently	L1C1A2	L	20% and scalding affects 5-10% of the flats. KIV Gently sloping pediments with undulating basement rises. 5-
		undulating			10% of land on pediments is scalded. Pediment slopes are 1-3%.
		rises			Rises relief is 9-30m, slopes are 3-10%.
KIV	1.1	Pediment	C1A2	V	
		Gently	L1C1A2	L	Main soils:
		undulating			Pediments: <u>Gradational sandy loam</u> - C1 , <u>Calcareous loam</u>
		rises			on rock – A2 .
					Rises: Shallow stony soils on rock - L1, Gradational sandy
					loam - C1, Calcareous loam on rock – A2 and Loam over
					poorly structured red clay - D3.
KJg	0.6	Gently	C4C3	D	Gently undulating pediments with clay loam surface-
	0.0	undulating	A6		textured red gradational soils with calcareous subsoils and
		pediments	/ (0		gradational calcareous soils. Gullying affects 0-5% of land
		Pediments			and salinity affects subsoils throughout.
					Slopes are 1-3%, relief is less than 9m.
					Main soils: <u>Hard gradational clay loam</u> - C4 , <u>Friable</u>
					gradational sandy clay loam - C3 and Gradational
					<u>calcareous clay</u> - A6.
KLB	1.0	Gently	A5	D	Pediments with predominantly calcareous gradational soils
ILD	1.0	undulating	7.0		KLB Gently undulating pediments.
		pediment			Slopes are 1-3%, relief is less than 9m.
KLJ	0.3	Drainage	A5	D	KLJ Drainage depression with 10-20% gullied land and 5-
1125	0.5	depression	///		10% scalding. Subsoils are saline.
		3001033011			
					Main soils: <u>Rubbly calcareous loam on clay</u> - A5
KQl	0.3	Gently	A5	V	Pediment and basement-rise complexes with mostly
~~.	0.0	undulating	7.0	ľ	calcareous gradational soils.
		pediment			KQI Gently undulating pediments with shallow rises. Up to
		Shallow	A2	С	50% of land on pediments is scalded and up to 10% is
		rises	/\∠		gullied. Rises have little or no scalds and gullies.
KQm	2.3	Pediment	A5	V	Slopes are 1-3%, relief is less than 9m.
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		Shallow rises	A2	С	KQm Undulating pediments with shallow rises. Over 50% of land on pediments is scalded and up to 20% is gullied. Soils are moderately saline throughout the profiles. Rises have little or no scalds and gullies.Main soils: Rubbly calcareous loam on clay - A5 on
XHZ	0.4	Drainage line	M1C1 C3	D	Drainage line with mostly calcareous coarse textured soils. Unstable, eroded banks predominate and scalding affects 10-50%. Main soils: <u>Deep alluvial loam</u> - M1 , <u>Gradational sandy loam</u> - C1 and <u>Friable gradational sandy clay loam</u> - C3 .

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

- Dominant in extent (>90% of SLU) D
- V Very extensive in extent (60–90% of SLU)
- Extensive in extent (30–60% of SLU) Е
- С Common in extent (20-30% of SLU)
- L Limited in extent (10–20% of SLU)
- М Minor in extent (<10% of SLU)

Detailed soil profile descriptions:

- A2/L1 Shallow calcareous loam (Paralithic, Hypercalcic / Lithocalcic Calcarosol) (A2) OR Shallow stony loam (Calcareous, Paralithic, Leptic Tenosol) (L1)
- A3 Deep moderately calcareous (sandy) loam (Calcic Calcarosol) Calcareous (sandy) loam topsoil grading into loamy-clay loamy subsoil without a significant CO3 build-up in the subsoil (<20% CO₃ in subsoil). Pediment type Calcarosols.
- A5 Rubbly calcareous loamy sand on clay (Supracalcic-Lithocalcic Calcarosol on clay) Calcareous loamy sand topsoil grading into loamy-clay loamy subsoil on a clayey substrate. Usually rubbly. Clayey substrate occurs at >60 cm and <120 cm.
- **A6** Gradational calcareous clay loam (Pedal Hypercalcic-Lithocalcic Calcarosol on clayey subsoil) Calcareous loams to clay loams grading into brown-red clay. Often rubbly.
- B2 Shallow calcareous loam on calcrete (Petrocalcic Calcarosol-Rudosol) Shallow, grey to reddish calcareous sandy to clay loamy soil on calcrete. This includes calcareous Petrocalcic Rudosols.
- C1 Gradational sandy loam (Calcic-Hypercalcic Kandosol-Calcarosol) Friable sandy to loamy topsoil grading into massive red-brown alkaline loamy to clay loamy subsoil.
- C2 Gradational loam on rock (Calcic / Hypercalcic Red Dermosol) Loam to clay loam grading to a friable red clay with soft Class I carbonate within 50 cm, grading to weathering rock within 100 cm.
- C3 Gradational clay loam (Calcic / Hypercalcic Red Dermosol) Loam to clay loam grading to a friable red clay with soft Class I carbonate within 50 cm, grading to alluvium within 100 cm.
- C4 Hard gradational clay loam (Calcic-Hypercalcic Sodic Red Dermosol-Calcarosol) Topsoil <30 cm over a poorly structured subsoil. Often hard setting clay loam to loam grading into prismatic/poorly structured/sodic red (-brown) alkaline clayey to clay loamy subsoil. Includes eroded former texture contrast soils.
- D1 Loam over red clay on rock (Hypercalcic / Calcic, Red Chromosol / Sodosol) Medium thickness hard gravelly loam over red clay, friable and finely structured, calcareous with depth, grading to weathering basement rock within 100 cm.
- D2 Hard loam over red clay (Calcic / Hypercalcic, Red Chromosol) Hard setting sandy loam to clay loam (with variable quartzite stones) abruptly overlying a well structured red clay with soft Class I carbonate at depth.





- D3 <u>Hard clay loam over dispersive red clay (Calcic, Red Sodosol / Sodic, Calcic, Red Chromosol)</u> Medium thickness hard clay loam with up to 50% quartzite stones over a coarsely prismatic dispersive red clay, calcareous with depth over stony and clayey alluvium.
- D4 Loam over red friable clay (Calcic, Pedaric, Red Sodosol) Thin to medium thickness fine sandy loam to loam over a finely structured friable red clay, calcareous from about 50 cm, grading to fine or medium grained alluvium.
- D6 Ironstone gravelly sandy loam over red clay (Ferric (?) Red Chromosol) Loamy texture contrast soil with some ironstone gravel and a red alkaline clayey subsoil.
- D7 Loam over red clay on rock (Hypercalcic / Calcic, Red Chromosol / Sodosol) Medium thickness hard gravelly loam over a red clay, friable and finely structured (D1), to hard, coarsely structured and dispersive (D7), calcareous with depth, grading to weathering basement rock within 100 cm.
- L1 <u>Shallow stony loam (Paralithic, Leptic Tenosol)</u> Shallow stony loam, often calcareous throughout or with depth, overlying weathering rock shallower than 50 cm.
- M1 <u>Alluvial loam (Orthic Tenosol)</u> Very thick loam with variable gritty or more-clayey lenses, formed over recent alluvium.
- M3 <u>Deep gravely soil (Gravely Kandosol-Tenosol)</u> Deep uniform loamy alluvial soils with at least 50% gravel in the major part of the profile.
- **RR** Bare rock

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



