DEEP SAND

General Description: Thick brown sand, yellower with depth

Landform: Substrate: Vegetation:	Gently undulatir with extensive lo moderate sandhi Windblown Mol Sand. Mallee	ow to Ils									
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Type Site:	Site No.:	MM117									
	1:50,000 sheet: Annual rainfall: Landform: Surface:	6827-3 (Moorlands) 400 mm Crest of sandhill Loose with no stones	Hundred: Sampling date:	Roby 05/04/93							
Soil Description	n:										
Depth (cm)	Description										
0-10	Brown loose san	d. Sharp to:									
10-20	Brown soft sand	. Clear to:	ac 100								
20-33	Yellowish brown	n soft sand. Abrupt to:	and the second	۵. ۹. ۳.							
Original soil sur	rface			and the second se							
33-47	Brown soft sand	. Clear to:									
47-70	Yellowish brown	n soft sand. Gradual to:									
70-115	Brownish yellow	v soft sand. Diffuse to:		ω • • •							
115-185	Brownish yellow	v soft sand.									

Classification: Basic, Arenic, Brown-Orthic Tenosol; medium, non-gravelly, sandy / sandy, very deep

Summary of Properties

Drainage	Rapidly drained. Soil never remains wet for more than a few hours.						
Fertility	Inherent fertility is low, as indicated by the exchangeable cation data. Regular phosphorus applications are necessary. Nitrogen deficiencies are likely, and zinc and copper may be deficient from time to time. Manganese is required by lupins. Organic carbon levels are low.						
рН	Neutral to slightly acidic throughout.						
Rooting depth	185 cm in pit, but few roots below 70 cm.						
Barriers to root growth							
Physical:	No physical barriers.						
Chemical:	There are no chemical barriers, but low nutrient retention capacity limits extent of root growth.						
Water holding capacity	45 mm in the root zone.						
Seedling emergence:	Satisfactory, but can be reduced by water repellence in dry seasons.						
Workability:	Soft to loose surface is easily worked.						
Erosion Potential							
Water:	Low.						
Wind:	Moderately high.						

Laboratory Data

Depth pH cm H ₂ O		pH CaC1 ₂		EC1:5 dS/m	ECe dS/m	Org.C %	Avail. P		Boron mg/kg	Trace Elements mg/kg (DTPA)			CEC cmol	Exchangeable Cations cmol(+)/kg				ESP	
							mg/kg	mg/kg		Cu	Fe	Mn	Zn	(+)/kg	Ca	Mg	Na	К	
Paddock	6.8	6.4	<1	0.06	0.51	0.7	25	95	0.39	0.15	-	2.2	0.76	3.1	3.19	0.54	0.03	0.33	na
0-10	6.9	6.4	1	0.07	0.80	0.3	21	110	0.57	0.10	-	1.4	0.60	1.9	2.09	0.43	0.02	0.46	na
10-20	6.5	6.0	<1	0.04	0.39	0.6	21	57	0.33	0.14	-	1.4	0.80	3.1	4.02	0.59	0.04	0.26	na
20-33	6.6	6.1	1	0.03	0.30	0.2	12	54	0.72	0.09	-	0.74	0.12	2.0	2.63	0.58	0.07	0.23	na
33-47	6.4	5.7	1	0.02	0.15	0.2	8	55	0.65	<.05	-	0.90	<.06	2.1	1.73	0.39	0.05	0.23	na
47-70	6.5	6.0	<1	0.01	0.11	< 0.1	5	56	0.68	<.05	-	0.39	<.06	1.9	1.43	0.34	0.04	0.25	na
70-115	6.8	6.3	<1	0.01	0.09	< 0.1	4	53	0.29	<.05	-	0.18	<.06	1.5	1.30	0.43	0.05	0.24	na
115-185	6.8	6.3	<1	0.01	0.11	< 0.1	<2	42	0.12	<.05	-	0.17	<.06	1.7	1.19	0.49	0.06	0.26	na

Note: Paddock sample bulked from 20 cores (0-10 cm) taken around the pit.

CEC (cation exchange capacity) is a measure of the soil's capacity to store and release major nutrient elements.

ESP (exchangeable sodium percentage) is derived by dividing the exchangeable sodium value by the CEC