BLEACHED SILICEOUS SAND

General Description:

Thick bleached sand, organically darkened at the surface and grading to yellow or brown sand with depth

Landform:Flat to gently undulating
plain with occasional low
sandhillsSubstrate:Windblown Molineaux
Sand.Vegetation:Mallee heath

Type Site:Site No.:MM0961:50,000 sheet:6926-3 (Tintinara)Hundred:Annual rainfall:465 mmSampling date:Landform:Crest of low sandhillLoose with no stones

Soil Description:

Depth (cm)	Description	
0 - 12	Dark greyish brown loose sand. Abrupt to:	
12-25	Brown loose sand. Clear to:	2
25-70	Yellowish brown, very pale brown (bleached) and orange speckled loose sand. Diffuse to:	
70-120	Yellowish brown, very pale brown (bleached) and orange speckled loose sand. Diffuse to:	
120-210	Yellowish brown, very pale brown (bleached) and orange speckled loose sand.	



Lewis

04/03/93

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

Summary of Properties

Drainage	Rapidly drained. The soil never remains wet for more than a few hours.						
Fertility	Inherent fertility is very low, as indicated by the exchangeable cation data. Phosphorus, nitrogen, copper and zinc deficiencies can be expected. Manganese required by lupins. Phosphorus, copper and manganese appear to be deficient at sampling site. Organic carbon concentrations are low.						
рН	Neutral to slightly acidic throughout.						
Rooting depth	70 cm in pit.						
Barriers to root growth							
Physical:	No physical barriers.						
Chemical:	No chemical barriers. Low nutrient retention capacity is the main reason for lack of root penetration.						
Water holding capacity	40 mm in root zone.						
Seedling emergence:	Satisfactory, but can be reduced by water repellence in dry years.						
Workability:							
Erosion Potential							
Water:	Low.						
Wind:	Moderate to moderately high.						

Laboratory Data

Depth cm	pH H ₂ O	pH CaC1 ₂	CO3 %	EC1:5 dS/m	ECe dS/m	Org.C %				Trace Elements mg/kg (DTPA)			CEC cmol	Exchangeable Cations cmol(+)/kg				ESP	
							mg/kg	mg/kg		Cu	Fe	Mn	Zn	(+)/kg	Ca	Mg	Na	K	
Paddock	7.1	6.7	<1	0.03	0.35	0.4	12	61	1.8	0.06	10	2.4	0.42	2.8	1.90	0.23	0.11	0.12	na
0-12	6.8	6.4	<1	0.03	0.33	0.3	10	68	0.63	< 0.05	12	2.4	0.24	2.9	1.99	0.24	0.08	0.11	na
12-25	7.2	6.7	<1	0.02	0.24	0.1	6	<40	< 0.4	< 0.05	9.5	0.21	0.11	2.2	0.87	0.16	0.07	0.07	na
25-70	7.2	6.9	<1	0.01	0.12	< 0.1	4	<40	< 0.4	< 0.05	6.3	< 0.06	0.14	1.9	0.52	0.17	0.08	0.07	na
70-120	7.3	6.9	<1	0.01	0.07	< 0.1	<2	<40	<0.4	< 0.05	5.6	< 0.06	0.15	2.1	0.33	0.16	0.07	0.10	na
120-160	7.0	6.7	<1	0.01	0.06	< 0.1	<2	<40	< 0.4	< 0.05	4.8	0.08	0.09	1.9	0.52	0.20	0.08	0.07	na
160-210	6.7	6.6	<1	0.01	0.05	<0.1	<2	<40	<0.4	< 0.05	5.0	0.17	0.12	1.7	0.23	0.23	0.08	0.06	na

Note: Paddock sample bulked from 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.