GRADATIONAL LOAMY SAND

General Description:

Red loamy sand to sandy loam becoming more clayey and highly calcareous with depth



Type Site:	Site No.:	MM150		
	1:50,000 sheet: Annual rainfall: Landform: Surface:	6628-3 (Caurnamont) 300 mm Lower slope of an undula Soft with minor (less than	0 / 1	e

Soil Description:

Depth (cm)	Description
0-10	Dark reddish brown soft single grain loamy sand. Clear to:
10-28	Reddish yellow soft massive loamy sand. Clear to:
28-45	Yellowish red friable massive sandy loam. Diffuse to:
45-65	Yellowish red firm massive sandy loam. Gradual to:
65-90	Yellowish red hard massive very highly calcareous light sandy clay loam with 20-50% fine and 2-10% nodular (6-20mm) carbonate segregations.



Summary of Properties

Drainage:	Well drained. The soil rarely remains wet for more than a day or so following heavy or prolonged rainfall.					
Fertility:	Inherent fertility is moderately low due to the relatively low clay content of the surface soil. Trace element and sulphur deficiencies are likely. Organic carbon levels are satisfactory for this environment.					
рН:	Slightly alkaline at the surface, alkaline with depth.					
Rooting depth:	90 cm in the pit, but few roots below 65 cm.					
Barriers to root growth:						
Physical:	There are no physical barriers.					
Chemical:	There are no chemical barriers.					
Water holding capacity: Approximately 85 mm in the root zone.						
Seedling emergence:	Satisfactory, although water repellence may be a problem in some seasons.					
Workability:	The soft surface is easily worked.					
Erosion Potential						
Water:	Low.					
Wind:	Moderately low.					

Laboratory Data

Depth cm	pH H ₂ O	pH CaC1 ₂		EC1:5 dS/m	ECe dS/m	Org.C %	Avail. Avail. SO ₄ -S Bord P K mg/kg mg/k							CEC cmol	Excl	ESP				
							mg/kg	mg/kg			Cu	Fe	Mn	Zn	(+)/kg	Ca	Mg	Na	K	
0-10	8.1	7.4	0.1	0.06	-	1.26	15	207	2.5	1.0	-	-	-	-	5.8	4.38	0.85	0.09	0.48	1.6
10-28	7.6	7.2	0.1	0.04	-	0.24	3	156	1.9	0.6	-	1	-	-	5.4	3.96	0.97	0.10	0.39	1.8
28-45	7.6	7.2	0.1	0.03	-	0.16	2	137	1.6	0.5	-	1	-	-	6.7	5.00	1.21	0.12	0.35	1.8
45-65	8.1	7.5	0.1	0.05	-	0.13	2	105	1.5	0.6	-	1	-	-	7.3	5.24	1.64	0.12	0.26	1.7
65-90	8.8	8.0	5.6	0.10	-	0.19	2	131	1.9	0.7	I	-	-	I	13.0	9.41	3.09	0.17	0.31	1.3

Note: 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.