GRADATIONAL RED SANDY CLAY LOAM

General Description:

Sandy loam to sandy clay loam grading to a well structured red clay, calcareous from about 50 cm



Type Site:	Site No.:	EE210		
	1:50,000 sheet: Annual rainfall:	6130-1 (Rudall) 350 mm	Hundred: Sampling date:	Yadnarie 17/09/01
	Landform:	Lower slope of undulatin		
	Surface:	Firm with no stones		

Soil Description:

Depth (cm)	Description	
0-15	Dark reddish brown light sandy clay loam with weak granular structure. Clear to:	well it
15-25	Yellowish red massive sandy clay loam. Clear to:	
25-50	Red light medium clay with moderate subangular blocky structure. Gradual to:	the state
50-100	Yellowish red very highly calcareous light medium clay with moderate subangular blocky structure. Diffuse to:	
100-130	Yellowish red highly calcareous light clay with moderate subangular blocky structure.	



Summary of Properties

Drainage:	Well drained. The soil is unlikely to remain wet for more than a couple of days following heavy or prolonged rainfall.							
Fertility:	Concentrations of all tested elements are satisfactory, and organic carbon levels are							
рН:	Neutral at the surface, strongly alkaline with depth.							
Rooting depth:	100 cm in pit, but few roots below 50 cm.							
Barriers to root growth:	following heavy or prolonged rainfall.following heavy or prolonged rainfall.inherent fertility is moderately high, as indicated by the exchangeable cation data. Concentrations of all tested elements are satisfactory, and organic carbon levels are adequate for this environment. Neutral at the surface, strongly alkaline with depth.depth:100 cm in pit, but few roots below 50 cm.to root growth:							
Physical:	There are no apparent physical limitations.							
Chemical:	High pH / sodicity and salinity from 50 cm restricts deeper root growth.							
Water holding capacity:	Approximately 100 mm in the potential root zone.							
Seedling emergence:	Good to fair. Surface soil tends to seal if excessively worked.							
Workability:								
Erosion Potential								
Water:								
Wind:	Only a problem in most years if excessively grazed or cultivated.							

Laboratory Data

Depth cm	рН _{H2} O	pH CaC1 ₂	CO ₃ %	EC 1:5 dS/m	••	NO3 mg/kg			Avail. SO ₄ -S Boron K mg/kg mg/kg					Sum of cations	Exchangeable Cations cmol(+)/kg				ESP	
							mg/kg	mg/kg			Cu	Fe	Zn	Mn	cmol (+)/kg	Ca	Mg	Na	K	
0-15	7.2	6.5	nd	0.07	1.19	6	47	695	6.7	1.0	0.89	14.3	1.95	14.0	10.7	6.89	1.78	0.30	1.70	2.8
15-25	8.7	8.1	nd	0.24	0.83	6	7	270	50.2	1.5	1.14	4.3	0.54	2.92	17.0	11.5	3.51	1.29	0.67	7.6
25-50	9.2	8.5	nd	0.71	0.62	9	5	231	77.6	4.6	3.32	8.2	0.84	2.50	30.9	11.6	10.8	7.95	0.58	25.7
50-100	9.5	8.7	nd	1.37	0.37	7	5	298	172	10.1	2.41	5.2	0.32	1.45	33.2	10.2	10.7	11.6	0.78	34.9
100-130	9.4	8.7	nd	1.46	0.29	6	4	300	170	10.4	1.28	4.7	0.27	1.11	29.4	8.77	9.05	10.8	0.78	36.7

Note: Sum of cations in neutral to alkaline soils is an approximation of cation exchange capacity (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 sum of cations.