BROWN CRACKING CLAY

General Description:

Reddish brown to brown well structured clay, becoming more clayey and coarser structured with depth, and having variable fine carbonate accumulations, often to the surface

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Landform:	Flat to very gently undulating plains. Tertiary clay, coarsely structured, usually with slickensides.		Standard and a state of the second state of th						
Substrate:									
Vegetation:									antena antena da Tina da la contra
Type Site:	Site No.:	CM908							
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Annual rainfall:	550 mm	Sampling date:	March 1990
Landform:	Level plain, 0% slope		
Surface:	Firm, seasonally cracking	, no stones	

Soil Description:

Depth (cm)	Description	
0-15	Dark brown firm light clay with strong medium granular structure. Abrupt to:	
15-40	Brown hard medium clay with strong coarse prismatic structure. Gradual to:	
40-80	Brown hard heavy clay with coarse prismatic structure. Gradual to:	
80-100	Brown hard very highly calcareous heavy clay with very coarse prismatic structure.	

Summary of Properties

Drainage:	Imperfectly drained. The soil may remain wet for up to two weeks following heavy or prolonged rainfall, due to high clay content.				
Fertility:	Inherent fertility is high, due to high clay and organic matter contents.				
pH:	Neutral at the surface, alkaline with depth.				
Rooting depth:	100 cm in pit, but few roots below 60 cm.				

Barriers to root growth:

Physical:	High soil strength restricts root growth to some extent.				
Chemical:	There are no apparent chemical barriers to root growth.				
Water holding capacity:	Approximately 105 mm in the potential root zone.				
Seedling emergence:	Satisfactory to fair. Surface soil may seal over, particularly if organic carbon levels are low.				
Workability:	Clayey surface tends to become sticky and intractable when wet.				
Erosion Potential					
Water:	Low.				
Wind:	Low.				

Laboratory Data

Depth cm	pH H ₂ O	pH CaC1 ₂	CO ₃ %	EC 1:5 dS/m	ECe dS/m	Org.C %	Avail. P mg/kg	Boron mg/kg
0-15	6.6	6.2	2	0.14	-	1.56	86	2.3
15-40	7.8	7.0	3	0.06	-	0.62	7	2.6
40-80	8.4	7.4	3	0.13	-	0.49	7	2.5
80-100	8.5	7.7	55	0.26	-	0.46	6	4.0