SANDY LOAM OVER RED SODIC CLAY

(Cleve / Deakin soil)

General Description: Hard sandy loam over a coarsely structured and usually dispersive red clay



1:50,000 sheet: Annual rainfall: Landform: Surface:	6131-2 (Carappee) 370 mm Slope of low hill Firm with no stones	Hundred: Sampling date:	Campoona 14/04/89
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Soil Description:

Depth (cm)	Description	
0-10	Dark yellowish brown weakly structured sandy loam. Clear to:	
10-20	Yellowish brown massive sandy loam. Abrupt to:	2
20-40	Yellowish red light medium clay with moderate medium subangular blocky structure. Clear to	·3 ·4
40-55	Orange medium clay with strong medium lenticular structure. Gradual to:	- <u>6</u> -7
55-100	Dark red sandy clay with strong medium lenticular structure.	

Classification: Eutrophic, Subnatric, Red Sodosol; medium, non-gravelly, loamy / clayey, moderate

Summary of Properties

Drainage	Well drained. Water perches on top of the clayey subsoil for up to a week at a time following heavy or prolonged rainfall.								
Fertility	Inherent fertility is moderate, as indicated by the exchangeable cation data. Regular phosphorus applications are needed and nitrogen status depends on cropping history and legume content of pastures. Zinc and sulphur deficiencies are likely from time to time.								
рН	Acidic at the surface, slightly acidic with depth.								
Rooting depth	Not recorded. Estimate 55 cm in pit.								
Barriers to root growth									
Physical:	Dense subsoil clay affects root growth from 40 cm.								
Chemical:	There are no chemical barriers.								
Water holding capacity	Approximately 65 mm in the root zone.								
Seedling emergence:	Fair to satisfactory, depending on compactness of surface.								
Workability:	Fair to good, depending on condition of surface.								
Erosion Potential									
Water:	Moderate.								
Wind:	Moderately low.								

Laboratory Data

Depth cm	pH H ₂ O	pH CaC1 ₂	CO3 %	EC1:5 dS/m	ECe dS/m	Org.C %	Avail. P	l. Avail. SO ₄ -S K mg/kg		4-S Boron kg mg/kg		Trace Elements mg/kg (DTPA)				Excl	ESP			
							mg/kg	mg/kg			Cu	Fe	Mn	Zn	(+)/kg	Ca	Mg	Na	K	
0-10	5.7	4.9	0	0.09	0.97	-	-	-	-	1.3	0.28	18	4.58	0.24	6.90	2.80	1.00	0.12	0.29	1.7
10-20	5.7	4.9	0	0.08	0.74	-	-	-	-	1.3	0.25	18	0.42	0.09	5.40	2.40	0.95	0.18	0.20	3.3
20-40	6.1	5.1	0	0.10	0.66	-	-	-	-	4.0	0.16	11	0.12	0.06	14.00	3.50	4.10	0.88	0.59	6.3
40-55	6.2	5.1	0	0.11	0.47	-	-	-	-	5.9	0.12	7.8	0.07	0.04	24.00	4.20	7.30	1.60	0.91	6.7
55-100	6.7	5.5	0	0.09	0.50	-	-	-	-	7.0	0.22	8.3	0.06	0.09	15.00	2.50	4.90	1.40	0.57	9.3

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.