Project Name: Acids Soils in South Eastern Australia

Project Code: AcidSoils Site ID: AN231 Observation ID: 1

Agency Name: CSIRO Land and Water (ACT)

**Site Information** 

 Desc. By:
 G. W. Geeves
 Locality:
 Mimosa

 Date Desc.:
 18/05/89
 Elevation:
 340 metres

 Map Ref.:
 Sheet No.: 8328
 1:100000
 Rainfall:
 No Data

Northing/Long.: 6178100 AMG zone: 55 Runoff: Moderately rapid Basting/Lat.: 528200 Datum: AGD66 Drainage: Moderately well drained

**Geology** 

ExposureType: Auger boring Conf. Sub. is Parent. Mat.: No Data Geol. Ref.: No Data Substrate Material: No Data

**Land Form** 

Rel/Slope Class:Undulating rises 9-30m 3-10%Pattern Type:RisesMorph. Type:Mid-slopeRelief:15 metresElem. Type:HillslopeSlope Category:Gently inclinedSlope:3 %Aspect:60 degrees

Surface Soil Condition (dry):

**Erosion:** 

**Soil Classification** 

Australian Soil Classification:Mapping Unit:N/AN/APrincipal Profile Form:Gn2.11ASC Confidence:Great Soil Group:N/A

Confidence level not specified

Site Disturbance: Cultivation. Rainfed

**Vegetation:** 

**Surface Coarse Fragments:** 

**Profile Morphology** 

Ap 0 - 0.1 m Dark reddish brown (5YR3/3-Moist); ; Fine sandy loam; Gradual change to -

B1 0.1 - 0.3 m Dark reddish brown (2.5YR3/4-Moist); ; Sandy clay loam, fine sandy; Gradual change to -

B21 0.3 - 0.8 m Red (2.5YR4/6-Moist); ; Fine sandy clay;

**Morphological Notes** 

**Observation Notes** 

Gradatinal red profile, possibly hardsetting and with earthy or rough fabric. Same as AN 230. Red Earth.

**Site Notes** 

Cultivated paddock in middle of gentle slope from crest of rolling rise to the west.

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## **Laboratory Test Results:**

Depth	pH	1:5 EC	Excl	hangeable	Cations	E	Exchangeable	CEC	ECEC	ESP
m	<b>P</b> ···	dS/m		Vig	K	Na Acidity Cmol (+)/kg		5_0		%
0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.4 0.4 - 0.5 0.7 - 0.8	4.42B 4.41B 5.11B 5.63B 5.68B 5.12B		3.7K 3.2K 3.59K 4.01K	0.77 0.73 0.97 1.6	1.12 0.89 0.77 0.68	0.02				
Depth m	CaCO3	Organic C %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	Partio	cle Size S FS %	Analysis Silt Clay
0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.4 0.4 - 0.5 0.7 - 0.8			3 3				•			
Depth	COLE		Grav	imetric/Vo	olumetric V	Vater Cont	ents		K sat	K unsat
m		Sat.	0.05 Bar		0.5 Bar g - m3/m	1 Bar 3	5 Bar 15	Bar	mm/h	mm/h
0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.4 0.4 - 0.5 0.7 - 0.8										

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## **Laboratory Analyses Completed for this profile**

13\_NR\_AL Extractable Al(%) - Not recorded 13\_NR\_MN Extractable Mn(%) - Not recorded

15\_NR\_AL Exchangeable aluminium - method not recorded

Exchangeable aluminium - method not recorded Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded Exch. basic cations (K++) - meq per 100g of soil - Not recorded Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded Exch. basic cations (Na++) - meq per 100g of soil - Not recorded pH of 1:5 soil/0.01M calcium chloride extract - direct 15\_NR\_CA 15\_NR\_K 15\_NR\_MG 15\_NR\_NA

4B1