

Project Name: Acids Soils in South Eastern Australia
Project Code: AcidSoils **Site ID:** AN230 **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:	320 metres
Map Ref.:	Sheet No. : 8328 1:100000	Rainfall:	No Data
Northing/Long.:	6176300 AMG zone: 55	Runoff:	Moderately rapid
Easting/Lat.:	530400 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 plains <9m 3-10%	Pattern Type:	Rises
Morph. Type:	Mid-slope	Relief:	10 metres
Elem. Type:	Hillslope	Slope Category:	Very gently sloped
Slope:	3 %	Aspect:	30 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:	N/A	Mapping Unit:	N/A
ASC Confidence:	Confidence level not specified	Principal Profile Form:	Gn2.11
		Great Soil Group:	N/A

Site Disturbance: Cultivation. Rainfed

Vegetation:

Surface Coarse Fragments:

Profile Morphology

Ap	0 - 0.1 m	Dark reddish brown (5YR3/4-Moist); ; Fine sandy loam; 0-2%, medium gravelly, 6-20mm, angular, Quartz, coarse fragments; Gradual change to -
B1	0.1 - 0.3 m	Dark red (2.5YR3/6-Moist); ; Sandy clay loam, fine sandy; Gradual change to -
B21	0.3 - 0.7 m	Red (2.5YR4/6-Moist); ; Clay loam, fine sandy; Gradual change to -
B22	0.7 - 0.8 m	Red (2.5YR4/6-Moist); ; Sandy clay; 2-10%, coarse gravelly, 20-60mm, angular, Quartz, coarse fragments;

Morphological Notes

Observation Notes

Gradational red profile probably hardsetting and earthy rough fabric very similar to previous AN 228 and AN 229. No CO3. Red Earth.

Site Notes

Owner: Gordon Winkley. Freshly cultivated paddock on slight 10 m. rise in undulating plain country.

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Acidity		%
						Cmol (+)/kg			
0 - 0.1	4.6B		3.36K	0.92	0.68				
0.1 - 0.2	4.65B		3.28K	1.11	0.42				
0.2 - 0.3	4.99B		4.1K	1.87	0.36	0.04			
0.3 - 0.4	5.31B		4.67K	2.86	0.29	0.1			
0.4 - 0.5	5.47B								
0.7 - 0.8	5.33B								

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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
15_NR_CA	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded
15_NR_K	Exch. basic cations (K++) - meq per 100g of soil - Not recorded
15_NR_MG	Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded
15_NR_NA	Exch. basic cations (Na++) - meq per 100g of soil - Not recorded
4B1	pH of 1:5 soil/0.01M calcium chloride extract - direct