

Project Name: Acids Soils in South Eastern Australia
Project Code: AcidSoils **Site ID:** AN228 **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:	300 metres
Map Ref.:	Sheet No. : 8328 1:100000	Rainfall:	No Data
Northing/Long.:	6173900 AMG zone: 55	Runoff:	Moderately rapid
Easting/Lat.:	536400 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:	No Data	Relief:	5 metres
Elem. Type:	Plain	Slope Category:	Very gently sloped
Slope:	1 %	Aspect:	120 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: Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation:

Tall Strata - Sod grass, <0.25m, Closed or dense. *Species includes - None Recorded

Surface Coarse Fragments:

Profile Morphology

Ap	0 - 0.2 m	Dark reddish brown (5YR3/4-Moist); ; Fine sandy loam (Heavy); Gradual change to -
B1	0.2 - 0.3 m	Dark red (2.5YR3/6-Moist); ; Sandy clay loam, fine sandy; 0-2%, coarse gravelly, 20-60mm, angular, Quartz, coarse fragments; Gradual change to -
B21	0.3 - 0.6 m	Red (2.5YR4/6-Moist); ; Clay loam; Gradual change to -
B22	0.6 - 0.8 m	Yellowish red (5YR4/6-Moist); ; Sandy clay; 10-20%, coarse gravelly, 20-60mm, angular, Quartz, coarse fragments; 10-20%, coarse gravelly, 20-60mm, subangular, Shells, coarse fragments;

Morphological Notes

B22 gravelly

Observation Notes

Gradational red profile, some yellowing a depth. No CO3. Earthy fabric, probably hardsetting. Bright Red Earth.

Site Notes

Good short cover of grasses and clover. Flat site on small plain in rolling parna 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	4.63B		3.97K	0.68	0.89				
0.1 - 0.2	4.35B		2.68K	0.63	0.49				
0.2 - 0.3	4.72B		3.47K	1.09	0.57	0.06			
0.3 - 0.4	5.08B		4.67K	2.18	0.46	0.1			
0.4 - 0.5	5.37B								
0.7 - 0.8	5.51B								

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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