

Project Name: Acids Soils in South Eastern Australia
Project Code: AcidSoils **Site ID:** AN252 **Observation ID:** 1
Agency Name: CSIRO Land and Water (ACT)

Site Information

Desc. By:	G. W. Geeves	Locality:	Ganmurra
Date Desc.:	14/06/89	Elevation:	190 metres
Map Ref.:	Sheet No. : 8328 1:100000	Rainfall:	No Data
Northing/Long.:	6137600 AMG zone: 55	Runoff:	Moderately rapid
Easting/Lat.:	501700 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:	Gently undulating rises 9-30m 1-3%	Pattern Type:	Rises
Morph. Type:	Mid-slope	Relief:	20 metres
Elem. Type:	Hillslope	Slope Category:	Very gently sloped
Slope:	2 %	Aspect:	210 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:	Gn2.12
		Great Soil Group:	N/A

Site Disturbance: Cultivation. Rainfed

Vegetation:

Tall Strata - Shrub, <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); ; Sandy clay loam, fine sandy; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Gradual change to -
B21	0.2 - 0.5 m	Dark red (2.5YR3/6-Moist); ; Clay loam, fine sandy; 0-2%, fine gravelly, 2-6mm, subrounded, Quartz, coarse fragments; Gradual change to -
B22	0.5 - 0.8 m	Red (2.5YR4/6-Moist); , 2.5YR44, 10-20% , 15-30mm, Distinct; Sandy light clay; 0-2%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments;

Morphological Notes

Observation Notes

Gradational red profile Bright Red Earth with slightly heavier surface maybe due to erosion.

Site Notes

Problem with lupins. Trevor McPherson. Lupin paddock (with black spotting on leaves) silt washed onto crop from upslope.

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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 Cmol (+)/kg	Acidity		%
0 - 0.1	5B		3.2K	1.11	0.73	0.04			
0.1 - 0.2	4.69B		4.04K	1.29	0.67	0.04			
0.2 - 0.3	5.12B		4.78K	1.79	0.55				
0.3 - 0.4	5.5B		4.75K	2.12	0.46	0.03			
0.4 - 0.5	5.8B								
0.7 - 0.8	5.93B								

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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