

Project Name: Acids Soils in South Eastern Australia
Project Code: AcidSoils **Site ID:** AN217 **Observation ID:** 1
Agency Name: CSIRO Land and Water (ACT)

Site Information

Desc. By:	G. W. Geeves	Locality:	Wagga
Date Desc.:	16/05/89	Elevation:	270 metres
Map Ref.:	Sheet No. : 8327 1:100000	Rainfall:	No Data
Northing/Long.:	6125000 AMG zone: 55	Runoff:	Moderately rapid
Easting/Lat.:	542900 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:	Rises
Morph. Type:	No Data	Relief:	20 metres
Elem. Type:	Hillcrest	Slope Category:	Gently inclined
Slope:	3 %	Aspect:	270 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: 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

A1	0 - 0.1 m	Dark reddish brown (5YR3/3-Moist); ; Sandy loam; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Gradual change to -
B1	0.1 - 0.3 m	Dark red (2.5YR3/6-Moist); ; Sandy clay loam; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Gradual change to -
B21	0.3 - 0.6 m	Red (2.5YR4/6-Moist); ; Clay loam, sandy; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments;
B22	0.6 - 0.8 m	Yellowish brown (10YR5/6-Moist); , 2.5YR46, 10-20% , 0-5mm, Distinct; Sandy clay;

Morphological Notes

Observation Notes

Bright red gradational soil yellowing with depth. Sandy due to weathering granite infusion. Probably hardsetting and earthy fabric. Red Earth, similar to AN216 but with more coarse sand due to granite infusion.

Site Notes

Owner: Bert Fretwell, "Avonlea" has had some soil tests and has tried 2 lime "trials" with no observable effect but only used 1/4 tonne per acre. Good cover of grasses and clover in paddock near crest of rise (probably granite).

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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	4.45B		2.93K	0.48	1.13	0.08			
0.1 - 0.2	4.2B		1.66K	0.35	0.83	0.09			
0.2 - 0.3	4.3B		2.04K	0.68	1.12	0.05			
0.3 - 0.4	4.97B		4.08K	1.82	1.6	0.06			
0.4 - 0.5	5.63B								
0.7 - 0.8	5.85B								

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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