Project Name: **Acids Soils in South Eastern Australia**
Project Code: **AcidSoils** **Site ID:** **AN223** **Observation ID:** **1**
Agency Name: **CSIRO Land and Water (ACT)**

Site Information

Desc. By:	G. W. Geeves	**Locality:**	Junee
Date Desc.:	16/05/89	**Elevation:**	340 metres
Map Ref.:	Sheet No. : 8428 1:100000	**Rainfall:**	No Data
Northing/Long.:	6136200 AMG zone: 55	**Runoff:**	Rapid
Easting/Lat.:	560400 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 low hills 30-90m 3-10%	**Pattern Type:**	Low hills
Morph. Type:	Mid-slope	**Relief:**	30 metres
Elem. Type:	Hillslope	**Slope Category:**	Gently inclined
Slope:	8 %	**Aspect:**	120 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
N/A
ASC Confidence:
Confidence level not specified

Mapping Unit: N/A
Principal Profile Form: Gn2.14
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 - 0.1 m	Dark brown (7.5YR3/4-Moist); ; Sandy loam; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Gradual change to -
A2	0.1 - 0.3 m	Strong brown (7.5YR4/6-Moist); ; Sandy clay loam; Very few (0 - 2 %), Manganiferous, Coarse (6 - 20 mm), Nodules; Gradual change to -
B21	0.3 - 0.6 m	Yellowish red (5YR4/6-Moist); ; Clay loam, sandy; Few (2 - 10 %), Manganiferous, Coarse (6 - 20 mm), Nodules; Gradual change to -
B22	0.6 - 0.8 m	Yellowish brown (10YR5/6-Moist); , 5YR46, 10-20% , 5-15mm, Distinct; , 10YR64, 10-20% , 5-15mm, Distinct; Sandy clay; Few (2 - 10 %), Manganiferous, Coarse (6 - 20 mm), Nodules;

Morphological Notes

Observation Notes

Gradational sandy red profile, probably hardsetting and earthy fabric. Like red earth but also like soils south of river which were called red podzolics on the map ie. Slightly pale B1 or A2. Red earth red podzolic intergrade.

Site Notes

Good cover of clover and grasses in midslope grazing paddock 100 m. from crest and 200 m. from drainage line.

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.1	4.52B		1.35K	0.36	0.49					
0.1 - 0.2	4.52B		1.19K	0.33	0.34					
0.2 - 0.3	4.85B		1.51K	0.48	0.41	0.04				
0.3 - 0.4	5.04B		2.11K	0.9	0.39	0.06				
0.4 - 0.5	5.21B									
0.7 - 0.8	5.64B									

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1												
0.1 - 0.2												
0.2 - 0.3												
0.3 - 0.4												
0.4 - 0.5												
0.7 - 0.8												

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m		g/g - m3/m3						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
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