Project Name: **Acids Soils in South Eastern Australia**
Project Code: **AcidSoils** **Site ID:** **AN221** **Observation ID:** **1**
Agency Name: **CSIRO Land and Water (ACT)**

Site Information

Desc. By: G. W. Geeves
Date Desc.: 17/05/89
Map Ref.: Sheet No. : 8428 1:100000
Northing/Long.: 6136800 AMG zone: 55
Easting/Lat.: 551300 Datum: AGD66
Locality: Junee
Elevation: 320 metres
Rainfall: No Data
Runoff: Rapid
Drainage: Moderately well drained

Geology

ExposureType: Auger boring
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: No Data

Land Form

Rel/Slope Class: Undulating rises 9-30m 3-10%
Morph. Type: Mid-slope
Elem. Type: Hillslope
Slope: 5 %
Pattern Type: Rises
Relief: 25 metres
Slope Category: Gently inclined
Aspect: 300 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: Gc2.22
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 (7.5YR3/2-Moist); ; Sandy loam; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Gradual change to -
B1	0.1 - 0.3 m	Dark reddish brown (5YR3/4-Moist); ; Sandy clay loam; 2-10%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Gradual change to -
B21	0.3 - 0.6 m	Yellowish red (5YR4/6-Moist); ; Clay loam, sandy; 10-20%, fine gravelly, 2-6mm, subangular, Granite, coarse fragments; Very few (0 - 2 %), Manganiferous, Coarse (6 - 20 mm), Nodules; Gradual change to -
B22	0.6 - 0.8 m	Strong brown (7.5YR4/6-Moist); ; Sandy clay; 10-20%, fine gravelly, 2-6mm, subangular, Granite, coarse fragments; Very few (0 - 2 %), Manganiferous, Coarse (6 - 20 mm), Nodules;

Morphological Notes

Observation Notes

Not as red as previous profile, more yellow. Gradational red brown profile, probably hardsetting and earthy fabric. CO3 throughout profile??? With granite influence making it sandy?? Calcareous red earth.

Site Notes

Good cover of grasses and clover intersown into stubble, midslope 200 m from crest of granite rise to east.

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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	6.62B		8.9K	0.53	0.58					
0.1 - 0.2	7.28B		15.97K	0.72	0.55					
0.2 - 0.3	7.48B		13.58K	0.59	0.32	0.03				
0.3 - 0.4	7.54B		11.19K	0.49	0.18	0.02				
0.4 - 0.5	7.56B									
0.7 - 0.8	7.5B									

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
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