Project Name: **Acids Soils in South Eastern Australia**
Project Code: **AcidSoils** **Site ID:** **AN224** **Observation ID:** **1**
Agency Name: **CSIRO Land and Water (ACT)**

Site Information

Desc. By:	G. W. Geeves	**Locality:**	Junee Reefs
Date Desc.:	17/05/89	**Elevation:**	310 metres
Map Ref.:	Sheet No. : 8428 1:100000	**Rainfall:**	No Data
Northing/Long.:	6154900 AMG zone: 55	**Runoff:**	Moderately rapid
Easting/Lat.:	563400 Datum: AGD66	**Drainage:**	Imperfectly 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:	Mid-slope	**Relief:**	10 metres
Elem. Type:	Hillslope	**Slope Category:**	Very gently sloped
Slope:	1 %	**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: Gn2.12
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

Ap	0 - 0.1 m	Dark reddish brown (5YR3/3-Moist); ; Silty loam; Gradual change to -
AB	0.1 - 0.3 m	Red (2.5YR4/6-Moist); ; Sandy clay loam, fine sandy; Gradual change to -
B21	0.3 - 0.6 m	Red (2.5YR4/6-Moist); ; Clay loam, fine sandy; 0-2%, fine gravelly, 2-6mm, subangular, Unconsolidated material (unidentified), coarse fragments; Gradual change to -
B22	0.6 - 0.8 m	Yellowish brown (10YR5/8-Moist); , 2.5YR46, 10-20% , 5-15mm, Distinct; Sandy light clay;

Morphological Notes

Observation Notes

Gradational red profile yellowing with deapth. No CO3, probably hardsetting and rough fabric, like previous ones. Red earth.

Site Notes

"Inglewood". Good cover of grasses and clover on midslope grazing paddock may be in very broad drainage area in rolling country.

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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	4.22B		2.42K	0.37	0.54					
0.1 - 0.2	4.47B		2.95K	0.64	0.36					
0.2 - 0.3	4.95B		3.15K	0.88	0.43	0.09				
0.3 - 0.4	5.21B		2.84K	1.16	0.4	0.09				
0.4 - 0.5	5.5B									
0.7 - 0.8	6.6B									

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