Project Name: Acids Soils in South Eastern Australia

Project Code: AcidSoils Site ID: AN242 Observation ID: 1

Agency Name: CSIRO Land and Water (ACT)

Site Information

 Desc. By:
 G. W. Geeves
 Locality:
 Westby

 Date Desc.:
 19/05/89
 Elevation:
 380 metres

 Map Ref.:
 Sheet No.: 8327
 1:100000
 Rainfall:
 No Data

 Northing/Long.:
 6074200 AMG zone: 55
 Runoff:
 Rapid

Easting/Lat.: 535800 Datum: AGD66 Drainage: Imperfectly drained

<u>Geology</u>

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- Pattern Type: Low hills

10%

Morph. Type:Upper-slopeRelief:20 metresElem. Type:HillslopeSlope Category:Gently inclinedSlope:8 %Aspect:360 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/AN/APrincipal Profile Form:Gn4.11ASC Confidence:Great Soil Group:Red earth

Confidence level not specified

Site Disturbance: Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation:

Tall Strata - Sod grass, 0.26-0.5m, Closed or dense. *Species includes - None Recorded

Surface Coarse Fragments:

Profile Morphology

1 101111	o morphology	
A1	0 - 0.2 m	Dark reddish brown (5YR3/3-Moist); ; Fine sandy loam; 20-50%, coarse gravelly, 20-60mm, angular, Quartz, coarse fragments; 20-50%, coarse gravelly, 20-60mm, angular, Shells, coarse fragments; Gradual change to -
A2	0.2 - 0.3 m	Yellowish red (5YR4/6-Moist); ; Clay loam, sandy; 2-10%, medium gravelly, 6-20mm, angular, Unconsolidated material (unidentified), coarse fragments; Gradual change to -
B21	0.3 - 0.7 m	Red (2.5YR4/6-Moist); ; Sandy light clay; 2-10%, cobbly, 60-200mm, angular, Unconsolidated material (unidentified), coarse fragments:

Morphological Notes

Observation Notes

Just gradational profile. Redish brown profile, hardsetting and rough ped fabric. No CO3. May have A2? Like a red earth or may be slightly podzolised? Podzolic Red Earth.

Site Notes

very thick cover, clover and grasses. Grazing paddock, 50 m from crest at rise in low hill country. Ron and Charles Taylor.

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Laboratory Test Results:

Depth	рН	1:5 EC		hangeable	Cations K		Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca I	Ca Mg		Na Acidity Cmol (+)/kg				%
0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.4 0.4 - 0.5 0.7 - 0.8	4.52B 4.32B 4.35B 4.42B 4.44B 4.47B		3.13K 1.89K 1.3K 1.34K	1.68 1.79 2.25 3.68	0.81 0.44 0.44 0.52	0.15 0.04 0.06 0.09				
Depth m	CaCO3	Organic C %	Avail. P mg/kg	Total P %	Total N %	Total K %	Bulk Density Mg/m3	Partic		Analysis Silt Clay
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	COLE Gravimetric/Volumetric			Vater Cont	tents	I	K sat	K unsat	
m		Sat.	0.05 Bar		0.5 Bar 'g - m3/m	1 Bar 3	5 Bar 15 E		nm/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

Exchangeable aluminium - method not recorded Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded Exch. basic cations (K++) - meq per 100g of soil - Not recorded Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded Exch. basic cations (Na++) - meq per 100g of soil - Not recorded pH of 1:5 soil/0.01M calcium chloride extract - direct 15_NR_CA 15_NR_K 15_NR_MG 15_NR_NA

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