Project Name: Acids Soils in South Eastern Australia

Project Code: AcidSoils Site ID: AN56 Observation ID: 1

Agency Name: CSIRO Land and Water (ACT)

Site Information

Desc. By: G. W. Geeves Locality:

Date Desc.: Elevation: 27/07/88 320 metres Sheet No.: 8428 1:100000 Map Ref.: Rainfall: No Data Northing/Long.: 6144400 AMG zone: 55 Runoff: Moderately rapid 559600 Datum: AGD66 Moderately well drained Easting/Lat.: Drainage:

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:RisesMorph. Type:Lower-slopeRelief:10 metresElem. Type:HillslopeSlope Category:Gently inclinedSlope:2 %Aspect:120 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/AN/APrincipal Profile Form:GN 2.11ASC Confidence:Great Soil Group:N/A

Confidence level not specified

Site Disturbance: Cultivation. Rainfed

Vegetation:

Tall Strata - Sod grass, <0.25m, Sparse. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A1 0 - 0.1 m Dark reddish brown (5YR3/3-Moist); ; Sandy clay loam; 0-2%, fine gravelly, 2-6mm, Chert, coarse fragments;

A2 0.1 - 0.3 m Reddish brown (5YR4/4-Moist); Yellowish red (5YR5/6-Dry); ; Clay loam, fine sandy;

B21 0.3 - 0.6 m Red (2.5YR4/8-Moist); ; Fine sandy clay; 0-2%, fine gravelly, 2-6mm, angular tabular, Quartz, coarse fragments;

B22 0.6 - 0.8 m Red (2.5YR4/6-Moist); ; Fine sandy clay; 0-2%, fine gravelly, 2-6mm, angular tabular, Quartz, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules;

Morphological Notes

A2 Not bleached

Observation Notes

Simple lower slope 800m from crest of rolling hills. Crop paddock. Fairly gradational earthy soil. Red Earth.

Site Notes

Mayfield

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Laboratory Test Results:

Depth	pH	1:5 EC		hangeable			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca I	Mg	K	Na Cmol (+)	Acidity)/kg			%
0 - 0.1 0.1 - 0.2 0.2 - 0.3 0.3 - 0.4 0.4 - 0.5 0.7 - 0.8	4.35B 4.37B 4.65B 5.04B 5.34B 5.57B		4.8K 1.06K 3.98K 5.1K	0.93 0.18 1.26 2.39	1.23 0.06 0.34 0.41	0.03 0.03 0.01 0.02				
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Pa GV	rticle Size	Analysis 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		Grav	imetric/Vo	olumetric V	Vater Cont	tents		K sat	K unsat
m		Sat.	0.05 Bar	0.1 Bar g/	0.5 Bar g - m3/m	1 Bar 3	5 Bar 15	Bar	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

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

4B1