Project Name: National Soil Fertility
Project Code: NSF **Site ID:** SP18 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By: Coppi, John
Date Desc.: 08/08/72
Map Ref.: Sheet No. : 6728 1:100000
Northing/Long.: 139
Easting/Lat.: -34.8833333333333
Locality:
Elevation: No Data
Rainfall: 0
Runoff: No Data
Drainage: Well drained

Geology

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

Land Form

Rel/Slope Class: No Data
Morph. Type: Upper-slope
Elem. Type: No Data
Slope: 7 %
Pattern Type: No Data
Relief: No Data
Slope Category: No Data
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: Dr2.12
Great Soil Group: Lateritic podzolic soil

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

Vegetation:

Surface Coarse Fragments:

Profile Morphology

0 - 0.1 m	Dark reddish grey (5YR4/2-Moist); ; Loamy sand; Massive grade of structure; Very weak consistence; 2-10%, Substrate material, coarse fragments;
0.1 - 0.2 m	Dark reddish grey (5YR4/2-Moist); ; Loamy sand; Massive grade of structure; Very weak consistence; 2-10%, Substrate material, coarse fragments;
0.2 - 0.3 m	Red (2.5YR4/6-Moist); ; Light clay; Strong grade of structure, 2-5 mm; Very strong consistence; 0-2%, Substrate material, coarse fragments;
0.3 - 0.4 m	Red (2.5YR4/6-Moist); ; Light clay; Strong grade of structure, 2-5 mm; Very strong consistence; 0-2%, Substrate material, coarse fragments;
0.4 - 0.5 m	Red (2.5YR4/6-Moist); ; Light clay; Strong grade of structure, 2-5 mm; Very strong consistence; 0-2%, Substrate material, coarse fragments;
0.5 - 0.6 m	Red (2.5YR4/6-Moist); ; Light clay; Strong grade of structure, 2-5 mm; Very strong consistence; 0-2%, Substrate material, coarse fragments;
0.6 - 0.7 m	Red (2.5YR4/8-Moist); ; Light clay; Strong grade of structure, 5-10 mm; Very strong consistence; 0-2%, Substrate material, coarse fragments;
0.7 - 0.8 m	Red (2.5YR4/8-Moist); , 10YR66, 10-20% , Faint; , 10-20% , Faint; Light clay; Strong grade of structure, 5-10 mm; Very strong consistence; 0-2%, Substrate material, coarse fragments;
0.8 - 0.9 m	Red (2.5YR4/8-Moist); , 10YR66, 10-20% , Faint; , 10-20% , Faint; Light clay; Strong grade of structure, 5-10 mm; Very strong consistence; 0-2%, Substrate material, coarse fragments;
0.9 - 1 m	Red (2.5YR4/8-Moist); , 10YR66, 10-20% , Faint; , 10-20% , Faint; Light clay; Strong grade of structure, 5-10 mm; Very strong consistence; 0-2%, Substrate material, coarse fragments;

Morphological Notes

Observation Notes

ORIGINALLY SP72/P3; MORPHOLOGY FROM SINGLE CORE NO.6; CHEMICAL DATA FROM BULK OF 8 CORES:

Site Notes

MT. TORRENS

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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	5.6I	0.12D								
0.1 - 0.2	5.4I	0.07D								
0.2 - 0.3	5.8I	0D								
0.3 - 0.4	6I	0D								
0.4 - 0.5	6.2I	0D								
0.5 - 0.6	6.4I	0D								
0.6 - 0.7	6.6I	0D								
0.7 - 0.8	6.6I	0D								
0.8 - 0.9	6.6I	0D								
0.9 - 1	6.5I	0D								

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					0.115A				12C	68	9	10
0.1 - 0.2					0.05A							
0.2 - 0.3					0.05A				8C	33	5	49
0.3 - 0.4												
0.4 - 0.5												
0.5 - 0.6					0.025A							
0.6 - 0.7												
0.7 - 0.8												
0.8 - 0.9												
0.9 - 1					0.015A				5C	19	10	61

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										
0.5 - 0.6										
0.6 - 0.7										
0.7 - 0.8										
0.8 - 0.9										
0.9 - 1										

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Laboratory Analyses Completed for this profile

2A1	Air-dry moisture content
3_C_B	Electrical conductivity or soluble salts - Total soluble salts %
4A_C_2.5	pH of soil - pH of 1:2.5 soil/water suspension
5_C_B	Water soluble Chloride - Method recorded as B
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
MIN_EC	Exchange Capacity - Minerology
P10_NR_C	Clay (%) - Not recorded
P10_NR_CS	Coarse sand (%) - Not recorded
P10_NR_FS	Fine sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded
XRD_C_Hm	Hematite - X-Ray Diffraction
XRD_C_Il	Illite - X-Ray Diffraction
XRD_C_Is	Interstratified clay minerals - X-Ray Diffraction
XRD_C_Ka	Kaolin - X-Ray Diffraction