Project Name: **Wheatland Soils in Eastern Australia**
Project Code: **Forrest** **Site ID:** **6** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (ACT)**

Site Information

Desc. By:
Date Desc.: 01/01/78
Map Ref.: 1:100000
Northing/Long.: 147.1
Easting/Lat.: -33.01666666
Locality: Condobolin, NSW. Owner N Barnes
Elevation: No Data
Rainfall: No Data
Runoff: No Data
Drainage: No Data

Geology

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

Land Form

Rel/Slope Class: No Data
Morph. Type: No Data
Elem. Type: No Data
Slope: %
Pattern Type: No Data
Relief: No Data
Slope Category: No Data
Aspect: No Data

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: Gn2.13
Great Soil Group: Red earth

Site Disturbance: Cultivation. Rainfed

Vegetation:

Surface Coarse Fragments:

Profile Morphology

0 - 0.1 m	Dark reddish brown (2.5YR3/4-Moist); ; Sandy clay loam; Massive grade of structure; Weak consistence; Field pH 6 (Raupach);
0.1 - 0.8 m	Dark red (2.5YR3/6-Moist); ; Light medium clay; Massive grade of structure; Weak consistence; Field pH 6 (Raupach);
0.8 - 1 m	Dark red (2.5YR3/6-Moist); ; Light medium clay; , Subangular blocky; Weak consistence; Field pH 8.5 (Raupach);

Morphological Notes

Observation Notes

Met station - Soil Con stn. Rain zone U1

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
0 - 0.1	6.8A	0.12A								
0.05 - 0.1										
0.1 - 0.2	6.4A	0.09A								
0.2 - 0.3	6.1A	0.09A								
0.3 - 0.4	6.2A	0.07A								
0.4 - 0.6	6.7A	0.05A								
0.6 - 0.8	7.3A	0.04A								
0.8 - 1	7.8A	0.08A								
0.8 - 0.85										

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	GV	Particle Size Analysis CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1	0C	0.95A							25A	36	12	26
0.05 - 0.1							1.47					
0.1 - 0.2	0C	0.51A							23A	36	10	30
0.2 - 0.3	0C	0.29A							22A	37	14	28
0.3 - 0.4	0C	0.25A							21A	38	12	30
0.4 - 0.6	0C	0.2A							20A	33	12	35
0.6 - 0.8	0C	0.12A							13A	35	19	32
0.8 - 1	0C	0.13A							12A	40	15	34
0.8 - 0.85							1.61					

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										
0.05 - 0.1		0.38D	0.28D	0.24D		0.19E		0.15F	36.66667C	
0.1 - 0.2										
0.2 - 0.3										
0.3 - 0.4										
0.4 - 0.6										
0.6 - 0.8										
0.8 - 1										
0.8 - 0.85		0.34D	0.29D	0.27D		0.25E		0.21F	9.166667C	

m	dS/m	Cmol (+)/kg	%

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Laboratory Analyses Completed for this profile

19B_NR	Calcium Carbonate (CaCO3) - Not recorded
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
5A1	Chloride - 1:5 soil/water extract, potentiometric titration
6A1	Organic carbon - Walkley and Black
P10_CF_C	Clay (%) - Coventry and Fett pipette method
P10_CF_CS	Coarse sand (%) - Coventry and Fett pipette method
P10_CF_FS	Fine sand (%) - Coventry and Fett pipette method
P10_CF_Z	Silt (%) - Coventry and Fett pipette method
P3A1	Bulk density - g/cm3
P3B2VL_1	1 BAR Moisture m3/m3 - Volumetric using disturbed sample on pressure plate
P3B2VL_15	15 BAR Moisture m3/m3 - Volumetric using disturbed sample on pressure plate
P3B3VLa005	0.05 BAR Moisture m3/m3 - Volumetric using undisturbed 76mm diameter core on suction plate
P3B3VLa01	0.1 BAR Moisture m3/m3 - Volumetric using undisturbed 76mm diameter core on suction plate
P3B3VLaSAT	Saturated Moisture m3/m3 - Volumetric using undisturbed 76mm diameter core on suction plate
P4_sat_For	Saturated Hydraulic Conductivity (Forrest et al, 1985)