Project Name: **Wheatland Soils in Eastern Australia**
Project Code: **Forrest** **Site ID:** **29** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (ACT)**

Site Information

Desc. By:		**Locality:**	Calomba, SA Owner J McEnvoy
Date Desc.:	01/01/79	**Elevation:**	No Data
Map Ref.:	1:100000	**Rainfall:**	No Data
Northing/Long.:	138.38333333	**Runoff:**	No Data
Easting/Lat.:	-34.4	**Drainage:**	No Data

Geology

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

Land Form

Rel/Slope Class:	No Data	**Pattern Type:**	No Data
Morph. Type:	No Data	**Relief:**	No Data
Elem. Type:	No Data	**Slope Category:**	No Data
Slope:	%	**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: Gc1.12
Great Soil Group: Solonized brown soil

Site Disturbance: Cultivation. Rainfed

Vegetation:

Surface Coarse Fragments:

Profile Morphology

0 - 0.3 m	Brown (7.5YR4/2-Moist); ; Sandy loam (Light); Massive grade of structure; Weak consistence; Field pH 7.5 (Raupach);
0.3 - 0.8 m	Reddish brown (5YR4/3-Moist); ; Clay loam (Light); Firm consistence; Field pH 8.5 (Raupach);
0.8 - 2.1 m	Reddish brown (5YR4/4-Moist); ; Light medium clay; Weak grade of structure, Prismatic; Firm consistence; Field pH 9.5 (Raupach);

Morphological Notes

Carbonate from surface
Soft CO3

Observation Notes

Met stn: CSIRO Avon Rain zone Wl

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			
m		dS/m	Cmol (+)/kg							%
0 - 0.1	7.6A	0.19A								
0.1 - 0.2	7.9A	0.15A								
0.1 - 0.15										
0.2 - 0.3	8.2A	0.24A								
0.3 - 0.5	8.6A	0.29A								
0.35 - 0.4										
0.5 - 0.7										
0.7 - 0.9										
0.9 - 1.3	9.4A	0.53A								
1.3 - 1.7										
1.7 - 2.1	9.4A	0.65A								

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		1.31A							15A	57	13	15
0.1 - 0.2	0.18C	0.79A							12A	49	22	17
0.1 - 0.15							1.55					
0.2 - 0.3		0.67A										
0.3 - 0.5	6.19C	0.48A							6A	26	13	49
0.35 - 0.4							1.46					
0.5 - 0.7												
0.7 - 0.9												
0.9 - 1.3												
1.3 - 1.7												
1.7 - 2.1	5.65C								5A	46	11	33

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									
0.1 - 0.15		0.37D	0.3D	0.29D		0.19E		0.15F	39.16667C	
0.2 - 0.3									
0.3 - 0.5									
0.35 - 0.4		0.4D	0.34D	0.33D		0.23E		0.18F	25.83333C	
0.5 - 0.7									
0.7 - 0.9									
0.9 - 1.3									
1.3 - 1.7									
1.7 - 2.1									

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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)