

Project Name: Central Aust. Exped. 1956
Project Code: CAE **Site ID:** A386 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	E.A. Jackson	Locality:	
Date Desc.:	31/05/56	Elevation:	No Data
Map Ref.:		Rainfall:	0
Northing/Long.:	135.609444444444	Runoff:	Very slow
Easting/Lat.:	-30.159722222223	Drainage:	Poorly drained

Geology

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

Land Form

Rel/Slope Class:	Level plain <9m <1%	Pattern Type:	Plain
Morph. Type:	Flat	Relief:	0 metres
Elem. Type:	Plain	Slope Category:	Level
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Calcic Subnatric Red Sodosol		Principal Profile Form:	N/A
ASC Confidence:		Great Soil Group:	Solonetz

No analytical data are available but confidence is fair.

Site Disturbance: No effective disturbance other than grazing by hoofed animals

Vegetation:

Mid Strata - Shrub, , . *Species includes - None recorded

Surface Coarse Fragments:

Profile Morphology

0 - 0.01 m	Red (2.5YR5/6-Moist); ; Sandy loam; , Platy; Very firm consistence; 0-2%, coarse gravelly, 20-60mm, rounded, Gravel, coarse fragments; Abrupt change to -
0.01 - 0.05 m	Red (10R4/6-Moist); ; Sandy loam; Weak grade of structure, Platy; Very weak consistence; 10-20%, medium gravelly, 6-20mm, Gravel, coarse fragments; Diffuse change to -
0.05 - 0.14 m	; Sandy loam; Firm consistence; 10-20%, coarse gravelly, 20-60mm, Gravel, coarse fragments; Diffuse change to -
0.14 - 0.3 m	Dark red (10R3/6-Moist); ; Medium clay; 10-20 mm, Prismatic; 5-10 mm, Angular blocky; Strong consistence; Diffuse change to -
0.3 - 0.36 m	Dark red (10R3/6-Moist); ; Medium clay; 10-20 mm, Prismatic; Strong consistence; Diffuse change to -
0.36 - 0.66 m	; Medium clay; 10-20 mm, Columnar; Firm consistence; 10-20%, Gravel, coarse fragments; Few (2 - 10 %), Calcareous, , Soft segregations;
0.66 - 0.9 m	; Medium clay; 10-20 mm, Columnar; Firm consistence; 10-20%, medium gravelly, 6-20mm, Gravel, coarse fragments; Few (2 - 10 %), Calcareous, , Soft segregations;
0.95 - 1.2 m	; Loamy sand; Firm consistence; 0-2%, Shale, coarse fragments; Few (2 - 10 %), Calcareous, , Soft segregations;
1.2 - 1.3 m	; Sand; Firm consistence; 2-10%, Gravel, coarse fragments; Few (2 - 10 %), Calcareous, , Soft segregations;

Morphological Notes

Observation Notes

POSSIBLY LAYERED ALLUVIAL SOIL BUT SAMPLES 4 & 5 ARE WITHOUT GRAVEL & CONSIST OF WERTAGUNYAH CLAY

Site Notes

N.W. PASTORAL

Observation ID: 1

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Comol (+)/kg				%
0 - 0.01	7.2H	0.013C								
0.01 - 0.05	7.5H	0.012C			9.5					
0.05 - 0.14	7.8H	0.012C								
0.14 - 0.3	8.4H	0.022C			24					
0.3 - 0.36	8.9H	0.028C								
0.36 - 0.66	9.1H	0.1C								
0.66 - 0.9	8.9H	0.19C								
0.95 - 1.2	8.6H	0.3C								
1.2 - 1.3	8.8H	0.31C								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Particle CS	Size FS	Analysis Silt	Analysis Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.01												
0.01 - 0.05				0.025F	0.017B			9	44C	30	14	12
0.05 - 0.14	0.01C				0.018B			9	46C	30	12	12
0.14 - 0.3	0.01C			0.03F					18C	15	22	44
0.3 - 0.36	0.01C											
0.36 - 0.66	0.99C							4	21C	15	8	56
0.66 - 0.9	0.98C											
0.95 - 1.2	0.32C							7	32C	35	16	14
1.2 - 1.3	3.9C							17	52C	27	9	7

[illegible]

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Laboratory Analyses Completed for this profile

15_NR_K	Exch. basic cations (K++) - meq per 100g of soil - Not recorded
19B_NR	Calcium Carbonate (CaCO ₃) - Not recorded
2_LOI	Loss on Ignition (%)
2A1	Air-dry moisture content
3A_TSS	Electrical conductivity or soluble salts - Total soluble salts %
4_NR	pH of soil - Not recorded
5_NR	Water soluble Chloride - Cl(%) - Not recorded
7_NR	Total nitrogen (%) - Not recorded
9A_NR	Total element - P(%) - Not recorded
P10_GRAV	Gravel (%)
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