

Project Name: 1968 ISSS Congress Tour
Project Code: IS5 **Site ID:** A972
Agency Name: CSIRO Division of Soils (SA)

Observation ID: 1

Site Information

Desc. By:	G. Blackburn	Locality:	VEGETATION - PASTURE
Date Desc.:	07/05/66	Elevation:	60 metres
Map Ref.:	Sheet No. : SJ54-6 1:250000	Rainfall:	660
Northing/Long.:	140.78333333	Runoff:	Moderately rapid
Easting/Lat.:	-37.83333333	Drainage:	Well drained

Geology

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

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Beach ridge plain
Morph. Type:	Ridge	Relief:	15 metres
Elem. Type:	Beach ridge	Slope Category:	No Data
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Melanic Calcic Black Dermosol	Principal Profile Form:	N/A
ASC Confidence:	Great Soil Group:	Chernozem

No analytical data are available but confidence is fair.

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

Vegetation:

Surface Coarse Fragments:

Profile Morphology

0 - 0.1 m	Black (10YR2/1-Moist); ; Loam; , Granular; Very weak consistence; 0-2%, medium gravelly, 6-20mm, Igneous rock (unidentified), coarse fragments; Many, fine (1-2mm) roots;
0.1 - 0.2 m	Very dark brown (10YR2/2-Moist); ; Loam; , Granular; Very weak consistence; 0-2%, medium gravelly, 6-20mm, Igneous rock (unidentified), coarse fragments; Many, fine (1-2mm) roots;
0.2 - 0.3 m	Very dark brown (10YR2/2-Moist); ; Loam; , Granular; , Columnar; Very weak consistence; 0-2%, medium gravelly, 6-20mm, Igneous rock (unidentified), coarse fragments; Many, fine (1-2mm) roots;
0.3 - 0.45 m	Very dark brown (10YR2/2-Moist); ; Loam; , Granular; , Columnar; Very weak consistence; 2-10%, medium gravelly, 6-20mm, Igneous rock (unidentified), coarse fragments; Common, fine (1-2mm) roots; Gradual change to -
0.45 - 0.6 m	Very dark greyish brown (10YR3/2-Moist); ; Loam; Massive grade of structure, Granular; Very weak consistence; 10-20%, medium gravelly, 6-20mm, Igneous rock (unidentified), coarse fragments; Few, fine (1-2mm) roots; Gradual change to -
0.6 - 0.75 m	Dark greyish brown (10YR4/2-Moist); ; Loam; Massive grade of structure, Granular; Very weak consistence; 2-10%, medium gravelly, 6-20mm, Gravel, coarse fragments; Few (2 - 10 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Few, fine (1-2mm) roots; Gradual change to -
0.75 - 0.9 m	Dark greyish brown (10YR4/2-Moist); ; Loam; , Angular blocky; Very firm consistence; 2-10%, medium gravelly, 6-20mm, Gravel, coarse fragments; Few, fine (1-2mm) roots;

Morphological Notes

Observation Notes

SUBSTRATE MATERIAL ALSO CONTAINS SOME LIMESTONE

Site Notes

MT GAMBIE

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[illegible]

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Laboratory Analyses Completed for this profile

10A1	Total sulfur - X-ray fluorescence
15_NR_CEC	CEC - meq per 100g of soil - Not recorded
15A2_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_K	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_MG	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_NA	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
17A1	Total potassium - X-ray fluorescence
19B_NR	Calcium Carbonate (CaCO ₃) - Not recorded
2_LOI	Loss on Ignition (%)
2A1	Air-dry moisture content
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
4B_C_2.5	pH of soil - pH of 1:2.5 Soil/0.1M CaCl ₂ suspension
5A2	Chloride - 1:5 soil/water extract, automated colour
6A1	Organic carbon - Walkley and Black
7_NR	Total nitrogen (%) - Not recorded
9A1	Total phosphorus - X-ray fluorescence
9B_9C	Available P (mg/kg) - Bicarbonate P - 0.5M NaHCO ₃ extractable
MIN_NR_K2O	Kaolin minerals
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
P3A_NR	Bulk density - Not recorded
P3B_VL_01	0.1 BAR Moisture m ³ /m ³ - Volumetric using suction plate
P3B_VL_15	15 BAR Moisture m ³ /m ³ - Volumetric using pressure plate
XRD_C_II	Illite - X-Ray Diffraction
XRD_C_Is	Interstratified clay minerals - X-Ray Diffraction
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction