Project Name: **National Soil Fertility**
Project Code: **NSF** **Site ID:** **SP14** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (SA)**

Site Information

Desc. By:	Thompson, Jim	**Locality:**	
Date Desc.:	10/01/72	**Elevation:**	No Data
Map Ref.:	Sheet No. : 6922 1:100000	**Rainfall:**	780
Northing/Long.:	140.45	**Runoff:**	No Data
Easting/Lat.:	-37.7166666666667	**Drainage:**	Well drained

Geology

ExposureType:	No Data	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	No Data	**Substrate Material:**	Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	No Data	**Pattern Type:**	No Data
Morph. Type:	Flat	**Relief:**	No Data
Elem. Type:	Plain	**Slope Category:**	No Data
Slope:	1 %	**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: Dy2.12
Great Soil Group: Rendzina

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

Vegetation:

Surface Coarse Fragments:

Profile Morphology

0 - 0.1 m	Black (10YR2/1-Moist); ; Clay loam; Strong grade of structure, 2-5 mm, Subangular blocky; Firm consistence; Soil matrix is Highly calcareous;
0.1 - 0.2 m	Black (10YR2/1-Moist); ; Clay loam; Strong grade of structure, 2-5 mm, Subangular blocky; Firm consistence; Soil matrix is Highly calcareous;
0.2 - 0.3 m	Very dark grey (10YR3/1-Moist); ; Light clay; Strong grade of structure, 2-5 mm, Subangular blocky; Firm consistence; Very few (0 - 2 %), Calcareous, , Nodules; Soil matrix is Highly calcareous;
0.3 - 0.4 m	Dark grey (10YR4/1-Moist); ; Light clay; Strong grade of structure, 2-5 mm, Subangular blocky; Very strong consistence; Very few (0 - 2 %), Calcareous, , Nodules; Soil matrix is Highly calcareous;
0.4 - 0.5 m	Dark grey (10YR4/1-Moist); ; Light clay; Strong grade of structure, 2-5 mm, Subangular blocky; Very strong consistence; Very few (0 - 2 %), Calcareous, , Nodules; Soil matrix is Highly calcareous;
0.5 - 0.6 m	Dark grey (10YR4/1-Moist); ; Light clay; Strong grade of structure, 2-5 mm, Subangular blocky; Very strong consistence; Very few (0 - 2 %), Calcareous, , Nodules; Soil matrix is Highly calcareous;
0.6 - 0.7 m	Dark grey (10YR4/1-Moist); ; Light clay; Strong grade of structure, 2-5 mm, Subangular blocky; Very strong consistence; Very few (0 - 2 %), Calcareous, , Nodules; Soil matrix is Highly calcareous;
0.7 - 0.8 m	Dark grey (10YR4/1-Moist); ; Light clay; Strong grade of structure, 2-5 mm, Subangular blocky; Very strong consistence; Very few (0 - 2 %), Calcareous, , Nodules; Soil matrix is Highly calcareous;
0.8 - 0.9 m	Dark grey (10YR4/1-Moist); ; Light clay; Strong grade of structure, 2-5 mm, Subangular blocky; Very strong consistence; Very few (0 - 2 %), Calcareous, , Nodules; Soil matrix is Highly calcareous;
0.9 - 1 m	Dark grey (10YR4/1-Moist); ; Light clay; Strong grade of structure, 2-5 mm, Subangular blocky; Very strong consistence; Very few (0 - 2 %), Calcareous, , Nodules; Soil matrix is Highly calcareous;

Morphological Notes

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Observation Notes

ORIGINALLY SP71/P6; CHEMICAL DATA IS FROM BULK OF 8 CORES;

Site Notes

TANTANOOLA

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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	7.9I	0.45D								
0.1 - 0.2	8.1I	0.27D								
0.2 - 0.3	8.3I	0.19D								
0.3 - 0.4	8.4I	0.18D								
0.4 - 0.5	8.4I	0.16D								
0.5 - 0.6	8.5I	0.16D								
0.6 - 0.7	8.6I	0.16D								
0.7 - 0.8	8.6I	0.18D								
0.8 - 0.9	8.5I	0.21D								
0.9 - 1	8.7I	0.22D								

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	57.6C				0.563A				1C	4	4	12
0.1 - 0.2	72C				0.329A							
0.2 - 0.3	66.7C				0.22A				1C	4	4	21
0.3 - 0.4	66.9C											
0.4 - 0.5	74.3C											
0.5 - 0.6	76.9C				0.094A							
0.6 - 0.7	79.2C											
0.7 - 0.8	81.1C											
0.8 - 0.9	79.3C											
0.9 - 1	83.5C				0.04A				1C	1	1	15

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

19B_NR	Calcium Carbonate (CaCO3) - Not recorded
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_Il	Illite - X-Ray Diffraction
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Mm	Montmorillonite - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction