Project Name: National Soil Fertility
Project Code: NSF **Site ID:** SP9 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By: Thompson, Jim
Date Desc.: 22/12/71
Map Ref.: Sheet No. : 6927 1:100000
Northing/Long.: 138.766666666667
Easting/Lat.: -35.4833333333333
Locality:
Elevation: No Data
Rainfall: 500
Runoff: No Data
Drainage: No Data

Geology

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

Land Form

Rel/Slope Class: No Data
Morph. Type: Mid-slope
Elem. Type: No Data
Slope: 2 %
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: Dy2.33
Great Soil Group: Solodized solonetz

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

Vegetation:

Surface Coarse Fragments:

Profile Morphology

0 - 0.1 m	Very dark greyish brown (10YR3/2-Moist); ; Loamy sand; Massive grade of structure; Very weak consistence; 0-2%, Gravel, coarse fragments;
0.1 - 0.2 m	Yellowish red (5YR4/8-Moist); ; Heavy clay; Strong grade of structure, 2-5 mm, Subangular blocky; Very strong consistence;
0.2 - 0.3 m	Yellowish red (5YR4/8-Moist); ; Heavy clay; Strong grade of structure, 5-10 mm, Subangular blocky; Very strong consistence;
0.3 - 0.4 m	Yellowish brown (10YR5/4-Moist); , 5YR34, 10-20% , Faint; , 5YR46, 10-20% , Faint; Heavy clay; Strong grade of structure, 5-10 mm, Subangular blocky; Very strong consistence;
0.4 - 0.5 m	Light olive brown (2.5Y5/4-Moist); ; Light clay; Strong grade of structure, 2-5 mm, Subangular blocky; Strong consistence; Soil matrix is Highly calcareous;
0.5 - 0.6 m	Yellowish brown (10YR5/6-Moist); ; Sandy medium clay; Moderate grade of structure, 2-5 mm, Subangular blocky; Firm consistence; Very few (0 - 2 %), Calcareous, , Nodules; Soil matrix is Highly calcareous;
0.6 - 0.7 m	Yellowish brown (10YR5/6-Moist); ; Sandy medium clay; Massive grade of structure; Firm consistence; Very few (0 - 2 %), Calcareous, , Nodules; Soil matrix is Highly calcareous;
0.7 - 0.8 m	Yellowish brown (10YR5/6-Moist); ; Sandy medium clay; Massive grade of structure; Firm consistence; Very few (0 - 2 %), Calcareous, , Nodules; Soil matrix is Highly calcareous;
0.8 - 0.9 m	Yellowish brown (10YR5/6-Moist); ; Sandy medium clay; Massive grade of structure; Firm consistence; Soil matrix is Highly calcareous;
0.9 - 1 m	Yellowish brown (10YR5/6-Moist); ; Sandy medium clay; Massive grade of structure; Firm consistence; Soil matrix is Highly calcareous;

Morphological Notes

Observation Notes

ORIGINALLY SP71/P1; CHEMICAL DATA IS FROM BULK OF 8 CORES;

Site Notes

GOOLWA

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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	6.1I	0.13D								
0.1 - 0.2	6.6I	0.22D								
0.2 - 0.3	7.5I	0.45D								
0.3 - 0.4	8.4I	0.55D								
0.4 - 0.5	8.8I	0.67D								
0.5 - 0.6	9I	0.57D								
0.6 - 0.7	9.1I	0.58D								
0.7 - 0.8	9.1I	0.55D								
0.8 - 0.9	9.2I	0.58D								
0.9 - 1	9.1I	0.58D								

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					0.106A				28C	49	7	14
0.1 - 0.2					0.065A				16C	31	6	43
0.2 - 0.3					0.045A							
0.3 - 0.4	4.4C											
0.4 - 0.5	14.3C											
0.5 - 0.6	10.4C				0.018A							
0.6 - 0.7	8.5C											
0.7 - 0.8	5.6C											
0.8 - 0.9	5.5C											
0.9 - 1	3.9C				0.009A				10C	56	3	27

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_Is	Interstratified clay minerals - X-Ray Diffraction
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction