Project Name: **National Soil Fertility**
Project Code: **NSF** **Site ID:** **SP5** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (SA)**

Site Information

Desc. By:	Coppi, John	**Locality:**	
Date Desc.:	27/05/70	**Elevation:**	No Data
Map Ref.:	Sheet No. : 7023 1:100000	**Rainfall:**	660
Northing/Long.:	140.85	**Runoff:**	No Data
Easting/Lat.:	-37.3	**Drainage:**	Imperfectly 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:	Lower-slope	**Relief:**	No Data
Elem. Type:	Hillslope	**Slope Category:**	No Data
Slope:	0 %	**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: N/A
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	Brown (7.5YR4/2-Moist); ; Sand; Massive grade of structure; Very weak consistence; 0-2%, coarse fragments;
0.1 - 0.2 m	Brown (7.5YR5/2-Moist); ; Sand; Massive grade of structure; Very weak consistence; 0-2%, coarse fragments;
0.2 - 0.25 m	Pinkish grey (7.5YR7/2-Moist); ; Sand; Massive grade of structure; Very weak consistence; 0-2%, coarse fragments;
0.25 - 0.3 m	Brown (10YR4/3-Moist); ; Medium clay; Strong grade of structure, 10-20 mm; Very strong consistence; 0-2%, coarse fragments;
0.3 - 0.4 m	Brown (10YR4/3-Moist); ; Medium clay; Strong grade of structure, 10-20 mm; Very strong consistence; 0-2%, coarse fragments;
0.4 - 0.5 m	Yellowish brown (10YR5/4-Moist); ; Medium clay; Strong grade of structure, 10-20 mm; Very strong consistence; 0-2%, coarse fragments;
0.5 - 0.6 m	Yellowish brown (10YR5/4-Moist); ; Medium clay; Strong grade of structure, 10-20 mm; Very strong consistence; 0-2%, coarse fragments;
0.6 - 0.7 m	Greyish brown (2.5Y5/2-Moist); ; Medium clay; Strong grade of structure, 5-10 mm; Very strong consistence; Common (10 - 20 %), Calcareous, , Nodules; Soil matrix is Highly calcareous;
0.7 - 0.8 m	Greyish brown (2.5Y5/2-Moist); ; Medium clay; Strong grade of structure, 5-10 mm; Very strong consistence; Common (10 - 20 %), Calcareous, , Nodules; Soil matrix is Highly calcareous;
0.8 - 0.9 m	Greyish brown (2.5Y5/2-Moist); ; Medium clay; Strong grade of structure, 5-10 mm; Very strong consistence; Common (10 - 20 %), Calcareous, , Nodules; Soil matrix is Highly calcareous;
0.9 - 1 m	Greyish brown (2.5Y5/2-Moist); ; Medium clay; Strong grade of structure, 5-10 mm; Very strong consistence; Common (10 - 20 %), Calcareous, , Nodules; Soil matrix is Highly calcareous;

Morphological Notes

Observation Notes

SP70/P8; DATA IS FROM BULK OF 8 CORES;

Site Notes

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COONAWARRA

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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	5.4I	0.18D								
0.1 - 0.2	5.6I	0.08D								
0.2 - 0.25	6.2I	0.08D								
0.25 - 0.3	7I	0.11D								
0.3 - 0.4	8.2I	0.29D								
0.4 - 0.5	8.5I	0.22D								
0.5 - 0.6	8.7I	0.22D								
0.6 - 0.7	8.8I	0.21D								
0.7 - 0.8	9I	0.22D								
0.8 - 0.9	9.1I	0.23D								

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					0.14A				55C	35	5	4
0.1 - 0.2					0.04A							
0.2 - 0.25					0.038A				42C	32	5	21
0.25 - 0.3												
0.3 - 0.4	4.1C											
0.4 - 0.5	21.1C				0.027A							
0.5 - 0.6	41.9C											
0.6 - 0.7	47.2C											
0.7 - 0.8	57.6C											
0.8 - 0.9	58.9C				0.008A				14C	8	4	24

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 - 0.25										
0.25 - 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										

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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_Hm	Hematite - X-Ray Diffraction
XRD_C_Il	Illite - X-Ray Diffraction
XRD_C_Is	Interstratified clay minerals - X-Ray Diffraction
XRD_C_Ka	Kaolin - X-Ray Diffraction