

**Project Name:** National Soil Fertility  
**Project Code:** NSF **Site ID:** SP19 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (SA)

**Site Information**

<b>Desc. By:</b>	Coppi, John	<b>Locality:</b>	
<b>Date Desc.:</b>	08/08/72	<b>Elevation:</b>	No Data
<b>Map Ref.:</b>	Sheet No. : 6627 1:100000	<b>Rainfall:</b>	665
<b>Northing/Long.:</b>	138.9	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	-35.0333333333334	<b>Drainage:</b>	Imperfectly drained

**Geology**

<b>ExposureType:</b>	No Data	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	No Data	<b>Substrate Material:</b>	Schist

**Land Form**

<b>Rel/Slope Class:</b>	No Data	<b>Pattern Type:</b>	No Data
<b>Morph. Type:</b>	Mid-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	No Data	<b>Slope Category:</b>	No Data
<b>Slope:</b>	3.5 %	<b>Aspect:</b>	0 degrees

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>	N/A	<b>Mapping Unit:</b>	N/A
<b>ASC Confidence:</b>	Confidence level not specified	<b>Principal Profile Form:</b>	Ug5
		<b>Great Soil Group:</b>	Grey clay

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

**Vegetation:**

**Surface Coarse Fragments:**

**Profile Morphology**

0 - 0.1 m	Dark greyish brown (10YR4/2-Moist); ; Clay loam; Strong grade of structure, 5-10 mm; Very strong consistence; 0-2%, Gravel, coarse fragments;
0.1 - 0.15 m	Dark greyish brown (10YR4/2-Moist); ; Clay loam; Strong grade of structure, 5-10 mm; Very strong consistence; 0-2%, Gravel, coarse fragments;
0.15 - 0.2 m	Dark greyish brown (10YR4/2-Moist); ; Silty medium clay; Strong grade of structure, 10-20 mm; Very strong consistence; 0-2%, Gravel, coarse fragments;
0.2 - 0.3 m	Dark greyish brown (10YR4/2-Moist); ; Silty medium clay; Strong grade of structure, 10-20 mm; Very strong consistence; 0-2%, Gravel, coarse fragments;
0.3 - 0.4 m	Dark greyish brown (10YR4/2-Moist); ; Silty medium clay; Strong grade of structure, 10-20 mm; Very strong consistence; 0-2%, Gravel, coarse fragments;
0.4 - 0.5 m	Dark greyish brown (10YR4/2-Moist); ; Silty medium clay; Strong grade of structure, 10-20 mm; Very strong consistence; 0-2%, Gravel, coarse fragments;
0.5 - 0.6 m	Dark greyish brown (10YR4/2-Moist); ; Silty medium clay; Strong grade of structure, 10-20 mm; Very strong consistence; 0-2%, Gravel, coarse fragments;
0.6 - 0.7 m	Pale brown (10YR6/3-Moist); ; Silty medium clay; Strong grade of structure, 10-20 mm; Very strong consistence; 0-2%, Gravel, coarse fragments;
0.7 - 0.8 m	Pale brown (10YR6/3-Moist); , 10YR66, 2-10% , Faint; , 2-10% , Faint; Silty medium clay; Strong grade of structure, 5-10 mm; Very strong consistence; 0-2%, Gravel, coarse fragments;
0.8 - 0.9 m	Pale brown (10YR6/3-Moist); , 10YR66, 2-10% , Faint; , 2-10% , Faint; Silty medium clay; Strong grade of structure, 5-10 mm; Very strong consistence; 0-2%, Gravel, coarse fragments;
0.9 - 1 m	Brownish yellow (10YR6/6-Moist); , 10YR63, 2-10% , Faint; , 2-10% , Faint; Silty medium clay; Strong grade of structure, 5-10 mm; Very strong consistence; 0-2%, Gravel, coarse fragments;

**Morphological Notes**

**Observation Notes**

ORIGINALLY SP72/P4; MORPHOLOGY IS FROM SINLGE CORE NO.5; CHEMICAL DATA IS FROM BULK OF 8 CORES:

**Site Notes**

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NAIRNE

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**Laboratory Test Results:**

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.1	5.4I	0.11D								
0.1 - 0.15	5.7I	0.1D								
0.15 - 0.2	5.8I	0.09D								
0.2 - 0.3	6.2I	0.12D								
0.3 - 0.4	6.5I	0.19D								
0.4 - 0.5	6.8I	0.26D								
0.5 - 0.6	8.1I	0.66D								
0.6 - 0.7	8.5I	0.69D								
0.7 - 0.8	8.5I	0.99D								
0.8 - 0.9	8.5I	1.14D								
0.9 - 1	8.5I	1.26D								

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1					0.26A				5C	62	9	18
0.1 - 0.15					0.176A				4C	58	14	24
0.15 - 0.2					0.113A							
0.2 - 0.3												
0.3 - 0.4												
0.4 - 0.5												
0.5 - 0.6					0.035A							
0.6 - 0.7	16.1C											
0.7 - 0.8	1.7C											
0.8 - 0.9	3.7C											
0.9 - 1	1.3C				0.008A				1C	36	31	31

[illegible]

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**Laboratory Analyses Completed for this profile**

19B_NR	Calcium Carbonate (CaCO <sub>3</sub> ) - 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_II	Illite - X-Ray Diffraction
XRD_C_Is	Interstratified clay minerals - X-Ray Diffraction
XRD_C_Ka	Kaolin - X-Ray Diffraction