

Project Name: National Soil Fertility
Project Code: NSF **Site ID:** SW43 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	Coppi, John	Locality:	
Date Desc.:	15/04/70	Elevation:	No Data
Map Ref.:	Sheet No. : 6029 1:100000	Rainfall:	0
Northing/Long.:	135.866666666667	Runoff:	No Data
Easting/Lat.:	-34.133333333333	Drainage:	No Data

Geology

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

Land Form

Rel/Slope Class:	No Data	Pattern Type:	No Data
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	No Data	Slope Category:	No Data
Slope:	%	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:	N/A	Mapping Unit:	N/A
ASC Confidence:	Confidence level not specified	Principal Profile Form:	Dr2.43
		Great Soil Group:	Solodized solonetz

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

0 - 0.05 m	Dark reddish brown (5YR3/3-Moist); ; Sandy loam; Massive grade of structure; Weak consistence; 0-2%, Quartz, coarse fragments; Very few (0 - 2 %), Ferruginous, , Nodules;
0.05 - 0.1 m	Red (2.5YR4/6-Moist); ; Medium heavy clay; Strong grade of structure, 10-20 mm; Very strong consistence;
0.1 - 0.2 m	Red (2.5YR4/6-Moist); ; Medium heavy clay; Strong grade of structure, 10-20 mm; Very strong consistence;
0.2 - 0.3 m	Red (2.5YR4/6-Moist); ; Medium heavy clay; Strong grade of structure, 10-20 mm; Very strong consistence;
0.3 - 0.4 m	Red (2.5YR4/8-Moist); ; Light clay; Strong grade of structure, 5-10 mm; Very strong consistence; Very few (0 - 2 %), Calcareous, , Nodules; Soil matrix is Highly calcareous;
0.4 - 0.5 m	Red (2.5YR4/8-Moist); ; Light clay; Strong grade of structure, 5-10 mm; Very strong consistence; Very few (0 - 2 %), Calcareous, , Nodules; Soil matrix is Highly calcareous;
0.5 - 0.6 m	Red (2.5YR4/8-Moist); ; Light clay; Strong grade of structure, 5-10 mm; Very strong consistence; Very few (0 - 2 %), Calcareous, , Nodules; Soil matrix is Highly calcareous;
0.6 - 0.7 m	Red (2.5YR4/8-Moist); ; Light clay; Strong grade of structure, 5-10 mm; Very strong consistence; Very few (0 - 2 %), Calcareous, , Nodules; Soil matrix is Highly calcareous;
0.7 - 0.8 m	Yellowish red (5YR4/6-Moist); ; Light clay; Strong grade of structure, 5-10 mm; Very strong consistence; Very few (0 - 2 %), Calcareous, , Nodules; Soil matrix is Highly calcareous;
0.8 - 0.9 m	Yellowish red (5YR4/6-Moist); ; Light clay; Strong grade of structure, 5-10 mm; Very strong consistence; Very few (0 - 2 %), Calcareous, , Nodules; Soil matrix is Highly calcareous;
0.9 - 1 m	Yellowish red (5YR4/6-Moist); ; Light clay; Strong grade of structure, 5-10 mm; Very strong consistence; Very few (0 - 2 %), Calcareous, , Nodules; Soil matrix is Highly calcareous;

Morphological Notes

Observation Notes

SW70/W23; DTA IS FROM BULK OF 8 CORES;

Site Notes

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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 - 0.05	8.2I	0.43D								
0.05 - 0.1	8.4I	0.74D								
0.1 - 0.2	8.7I	0.9D								
0.2 - 0.3	8.9I	1.09D								
0.3 - 0.4	9I	1.21D								
0.4 - 0.5	9.1I	1.34D								
0.5 - 0.6	9.1I	1.41D								
0.6 - 0.7	9.1I	1.62D								
0.7 - 0.8	9I	1.78D								
0.8 - 0.9	9.1I	1.69D								

Depth m	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density Mg/m3	Particle		Size FS %	Analysis	
	%	%	mg/kg	%	%	%		GV	CS		Silt	Clay
0 - 0.05	0.2C				0.06A				23C	49	5	22
0.05 - 0.1	0.9C				0.03A				16C	32	6	43
0.1 - 0.2	5.4C				0.025A							
0.2 - 0.3	16.3C											
0.3 - 0.4	21.5C											
0.4 - 0.5	21.6C				0.013A							
0.5 - 0.6	32.4C											
0.6 - 0.7	35.2C											
0.7 - 0.8	31.2C											
0.8 - 0.9	25.6C				0.009A				10C	19	5	38

[illegible]

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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_Ill	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