

Project Name: National Soil Fertility
Project Code: NSF **Site ID:** SW37 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	Coppi, John	Locality:	
Date Desc.:	19/04/70	Elevation:	No Data
Map Ref.:	Sheet No. : 6131 1:100000	Rainfall:	0
Northing/Long.:	136.366666666667	Runoff:	No Data
Easting/Lat.:	-33.116666666667	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:	Gc1.12
		Great Soil Group:	Solonized brown soil

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

0 - 0.1 m	Dark reddish brown (5YR3/3-Moist); ; Clay loam; Massive grade of structure; Very weak consistence; Very few (0 - 2 %), Calcareous, , Nodules; Soil matrix is Highly calcareous;
0.1 - 0.2 m	Reddish brown (5YR4/4-Moist); ; Clay loam; Massive grade of structure; Very weak consistence; Very few (0 - 2 %), Calcareous, , Nodules; Soil matrix is Highly calcareous;
0.2 - 0.3 m	Reddish brown (5YR4/4-Moist); ; Clay loam; Massive grade of structure; Very weak consistence; Very few (0 - 2 %), Calcareous, , Nodules; Soil matrix is Highly calcareous;
0.3 - 0.4 m	Yellowish red (5YR5/6-Moist); ; Clay loam; Massive grade of structure; Very weak consistence; Very few (0 - 2 %), Ferruginous, , Nodules; Very few (0 - 2 %), Calcareous, , Nodules; Soil matrix is Highly calcareous;
0.4 - 0.5 m	Light reddish brown (5YR6/4-Moist); ; Light clay; Strong grade of structure, 10-20 mm, Subangular blocky; Firm consistence; Very few (0 - 2 %), Calcareous, , Nodules; Soil matrix is Highly calcareous;
0.5 - 0.6 m	Light reddish brown (5YR6/4-Moist); ; Light clay; Strong grade of structure, 10-20 mm, Subangular blocky; Firm consistence; Very few (0 - 2 %), Calcareous, , Nodules; Soil matrix is Highly calcareous;
0.6 - 0.7 m	Yellowish red (5YR5/6-Moist); ; Light clay; Strong grade of structure, 10-20 mm, Subangular blocky; Strong consistence; Very few (0 - 2 %), Calcareous, , Nodules; Soil matrix is Highly calcareous;
0.7 - 0.8 m	Yellowish red (5YR5/6-Moist); ; Light clay; Strong grade of structure, 10-20 mm, Subangular blocky; Strong consistence; Very few (0 - 2 %), Calcareous, , Nodules; Soil matrix is Highly calcareous;
0.8 - 1.1 m	;

Morphological Notes

Observation Notes

ORIGINALLY SW70/W16; DATA IS FROM BULK OF 8 CORES;

Site Notes

KIMBA

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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	8.6I	0.17C								
0.1 - 0.2	8.7I	0.15D								
0.2 - 0.3	9I	0.15D								
0.3 - 0.4	9.4I	0.31D								
0.4 - 0.5	9.7I	0.46D								
0.5 - 0.6	9.8I	0.65D								
0.6 - 0.7	9.8I	0.87D								
0.7 - 0.8	9.8I	1.09D								
0.8 - 0.9	9.7I	1.24D								
0.9 - 1	9.6I	1.39D								

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	4.6C				0.095A				28C	43	4	18
0.1 - 0.2	8.6C				0.07A							
0.2 - 0.3	12.9C				0.04A							
0.3 - 0.4	19.2C											
0.4 - 0.5	26C								19C	28	3	16
0.5 - 0.6	27.5C				0.02A							
0.6 - 0.7	30.9C											
0.7 - 0.8	30.5C											
0.8 - 0.9	27.7C											
0.9 - 1	25C				0.013A				20C	26	4	20

[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 %
3A_TSS	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_Ka	Kaolin - X-Ray Diffraction
XRD_C_Qz	Quartz - X-Ray Diffraction