Project Name: **National Soil Fertility**
Project Code: **NSF** **Site ID:** **SW35** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (SA)**

Site Information

Desc. By:	Coppi, John	**Locality:**	
Date Desc.:	18/04/70	**Elevation:**	No Data
Map Ref.:	Sheet No. : 6131 1:100000	**Rainfall:**	0
Northing/Long.:	136.433333333333	**Runoff:**	No Data
Easting/Lat.:	-33.1166666666667	**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
ASC Confidence:
Confidence level not specified

Mapping Unit: N/A
Principal Profile Form: Gc1.22
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; Weak grade of structure, 2-5 mm, Subangular blocky; Earthy fabric; Weak consistence; Soil matrix is Highly calcareous;
0.1 - 0.2 m	Dark reddish brown (5YR3/3-Moist); ; Clay loam; Weak grade of structure, 2-5 mm, Subangular blocky; Earthy fabric; Weak consistence; Soil matrix is Highly calcareous;
0.2 - 0.3 m	Yellowish red (5YR5/8-Moist); ; Light clay; Strong grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Strong consistence; Soil matrix is Highly calcareous;
0.3 - 0.4 m	Yellowish red (5YR5/8-Moist); ; Light clay; Strong grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Strong consistence; Soil matrix is Highly calcareous;
0.4 - 0.5 m	Yellowish red (5YR5/8-Moist); ; Light clay; Strong grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Strong consistence; Soil matrix is Highly calcareous;
0.5 - 0.6 m	Red (2.5YR4/8-Moist); ; Light clay; Strong grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Strong consistence; Soil matrix is Highly calcareous;
0.6 - 0.7 m	Red (2.5YR4/8-Moist); ; Light clay; Strong grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Strong consistence; Soil matrix is Highly calcareous;
0.7 - 0.8 m	Red (2.5YR4/8-Moist); ; Light clay; Strong grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Strong consistence; Soil matrix is Highly calcareous;
0.8 - 0.9 m	Red (2.5YR4/8-Moist); ; Light clay; Strong grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Strong consistence; Soil matrix is Highly calcareous;
0.9 - 1.2 m	;

Morphological Notes

Observation Notes

ORIGINALLY SW70/W13; DATA IS BULK OF 8 CORES;

Site Notes

KIMBA

Project Name: National Soil Fertility
Project Code: NSF **Site ID:** SW35 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

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	8.3I	0.28D								
0.1 - 0.2	8.5I	0.17D								
0.2 - 0.3	9I	0.2D								
0.3 - 0.4	9.3I	0.3D								
0.4 - 0.5	9.5I	0.43D								
0.5 - 0.6	9.6I	0.54D								
0.6 - 0.7	9.7I	0.65D								
0.7 - 0.8	9.7I	0.76D								
0.8 - 0.9	9.6I	0.88D								
0.9 - 1	9.5I	1.05D								

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	6.2C				0.119A				33C	21	5	29
0.1 - 0.2	8.8C				0.08A							
0.2 - 0.3	12.4C				0.053A				29C	20	7	27
0.3 - 0.4	16.3C											
0.4 - 0.5	24.8C											
0.5 - 0.6	30.3C				0.023A							
0.6 - 0.7	31.5C											
0.7 - 0.8	30.7C											
0.8 - 0.9	27.9C											
0.9 - 1	29.1C				0.015A				20C	14	1	30

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										

Project Name: **National Soil Fertility**
Project Code: **NSF** **Site ID:** **SW35** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (SA)**

Laboratory Analyses Completed for this profile

19B_NR	Calcium Carbonate (CaCO3) - Not recorded
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
XRD_C_Qz	Quartz - X-Ray Diffraction