Project Name: National Soil Fertility
Project Code: NSF **Site ID:** SW39 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (SA)

Site Information

Desc. By:	Coppi, John	**Locality:**	
Date Desc.:	13/04/70	**Elevation:**	No Data
Map Ref.:	Sheet No. : 6029 1:100000	**Rainfall:**	0
Northing/Long.:	135.833333333333	**Runoff:**	No Data
Easting/Lat.:	-34.3333333333333	**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: Dr3.43
Great Soil Group: N/A

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

0 - 0.1 m	Reddish brown (5YR4/4-Moist); ; Sand; Massive grade of structure; Very weak consistence; Few (2 - 10 %), Ferruginous, , Nodules; Soil matrix is Highly calcareous;
0.1 - 0.2 m	Light brown (7.5YR6/4-Moist); ; Sand; Massive grade of structure; Very weak consistence; Many (20 - 50 %), Ferruginous, , Nodules; Soil matrix is Highly calcareous;
0.2 - 0.3 m	Light yellowish brown (10YR6/4-Moist); ; Medium clay; Strong grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Very strong consistence; Few (2 - 10 %), Ferruginous, , Nodules; Soil matrix is Highly calcareous;
0.3 - 0.4 m	Light yellowish brown (10YR6/4-Moist); ; Medium clay; Strong grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Very strong consistence; Few (2 - 10 %), Ferruginous, , Nodules; Soil matrix is Highly calcareous;
0.4 - 0.5 m	Yellow (10YR7/6-Moist); ; Medium clay; Strong grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Very strong consistence; Few (2 - 10 %), Ferruginous, , Nodules; Soil matrix is Highly calcareous;
0.5 - 0.6 m	Very pale brown (10YR7/4-Moist); ; Medium clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Weak consistence; Few (2 - 10 %), Ferruginous, , Nodules; Very few (0 - 2 %), Calcareous, , Nodules; Soil matrix is Highly calcareous;
0.6 - 0.7 m	Yellow (10YR7/6-Moist); ; Medium clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Weak consistence; Few (2 - 10 %), Ferruginous, , Nodules; Very few (0 - 2 %), Calcareous, , Nodules; Soil matrix is Highly calcareous;
0.7 - 0.8 m	Yellow (10YR7/6-Moist); ; Medium clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Weak consistence; Few (2 - 10 %), Ferruginous, , Nodules; Very few (0 - 2 %), Calcareous, , Nodules; Soil matrix is Highly calcareous;
0.8 - 0.9 m	Yellow (10YR7/6-Moist); ; Medium clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Smooth-ped fabric; Weak consistence; Few (2 - 10 %), Ferruginous, , Nodules; Very few (0 - 2 %), Calcareous, , Nodules; Soil matrix is Highly calcareous;
0.9 - 1.2 m	;

Morphological Notes

Observation Notes

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Site Notes

CUMMINS

SW70/W18; DATA IS FROM BULK OF 8 CORES;

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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	6.2I	0.12D								
0.1 - 0.2	8.1I	0.49D								
0.2 - 0.3	7.8I	0.53D								
0.3 - 0.4	8.8I	0.67D								
0.4 - 0.5	9I	0.84D								
0.5 - 0.6	9.2I	0.92D								
0.6 - 0.7	9.3I	0.97D								
0.7 - 0.8	9.3I	0.99D								
0.8 - 0.9	9.2I	1.08D								
0.9 - 1	9.2I	1.11D								

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	0C				0.05A				31C	59	4	6
0.1 - 0.2	0.4C				0.031A							
0.2 - 0.3	0C				0.034A				21C	25	3	44
0.3 - 0.4	0.3C											
0.4 - 0.5	1.9C											
0.5 - 0.6	13.1C				0.015A							
0.6 - 0.7	12.3C											
0.7 - 0.8	7.8C											
0.8 - 0.9	7.8C											
0.9 - 1	7.7C				0.009A				18C	20	3	48

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										

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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
XRD_C_Qz	Quartz - X-Ray Diffraction