Project Name: **Irrigated Soils of the M.I.A., NSW**
Project Code: **IS** **Site ID:** **C639a** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (ACT)**

Site Information

Desc. By: J. Loveday
Locality: Approximately 18 kilometres west of Leeton. Whitton, NSW.
Date Desc.: 01/01/66
Elevation: No Data
Map Ref.: 1:100000
Rainfall: No Data
Northing/Long.: 146.25
Runoff: No Data
Easting/Lat.: -34.56666667
Drainage: No Data

Geology

ExposureType: Auger boring
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): Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:
N/A
ASC Confidence:
Confidence level not specified
Mapping Unit: N/A
Principal Profile Form: Ug5.24
Great Soil Group: Grey clay

Site Disturbance: Cultivation. Irrigated, past or present

Vegetation:

Surface Coarse Fragments:

Profile Morphology

0 - 0.01 m	Dark greyish brown (2.5Y4/2-Moist); ; Medium clay; Weak consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Concretions;
0.01 - 0.4 m	Dark greyish brown (2.5Y4/2-Moist); ; Medium clay; , Angular blocky;
0.4 - 1 m	Greyish brown (10YR5/2-Moist); ; Medium clay; Smooth-ped fabric; Very few (0 - 2 %), Calcareous, , Concretions;

Morphological Notes

Wide cracks present.
Shiny slickensided surfaces.

Observation Notes

Surface condition, crumbly-self mulching.

Site Notes

Site a and b are no more than 10 to 20m apart

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 10	6.6A	0.12A	17.2A	7.1	1.3	0.4	5.7D		31.7B	
10 - 20	7.6A	0.12A								
20 - 30	8.2A	0.15A	23.1E	13.1	0.9	2.2	1.9D		41.2B	
30 - 40	8.3A	0.21A								
40 - 60	8.9A	0.24A								
60 - 80	8.7A	0.3A								

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 - 10							1.30		11C	26	10	53
10 - 20							1.43					
20 - 30	0.46B						1.43		6C	21	9	64
30 - 40							1.47					
40 - 60							1.53					
60 - 80							1.54					

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 - 10								0.19B		
10 - 20										
20 - 30								0.21B		
30 - 40								0.21B		
40 - 60								0.2B		
60 - 80								0.23B		

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Laboratory Analyses Completed for this profile

15_NR_H	Hydrogen Cation - meq per 100g of soil - Not recorded
15A1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_MG	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_NA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15C1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15J_H	Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen)
19B1	Carbonates - manometric
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
5A1	Chloride - 1:5 soil/water extract, potentiometric titration
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
P3A1	Bulk density - g/cm3
P3B_GV_15	15 BAR Moisture g/g - Gravimetric using pressure plate
P6_LP	Dispersion Index (Loveday and Pyle, 1973)