

Project Name: Irrigated Soils of the M.I.A., NSW
Project Code: IS **Site ID:** C634a
Agency Name: CSIRO Division of Soils (ACT)

Observation ID: 1

Site Information

Desc. By:	J. Loveday	Locality:	Approximately 7 kilometres west of Leeton. Wamoon, NSW.
Date Desc.:	01/01/66	Elevation:	No Data
Map Ref.:	1:100000	Rainfall:	No Data
Northing/Long.:	146.3	Runoff:	No Data
Easting/Lat.:	-34.55	Drainage:	No Data

Geology

Exposure Type:	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): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:	N/A	Mapping Unit:	N/A
ASC Confidence:	Confidence level not specified	Principal Profile Form:	Dr2.13
		Great Soil Group:	Red-brown earth

Site Disturbance: Cultivation. Irrigated, past or present

Vegetation:

Surface Coarse Fragments:

Profile Morphology

0 - 0.1 m	Brown (7.5YR5/4-Moist); ; Fine sandy loam; Very strong consistence;
0.1 - 0.6 m	Dark reddish brown (5YR3/4-Moist); ; Medium clay; , Angular blocky; Smooth-ped fabric;
0.6 - 0.9 m	Strong brown (7.5YR5/6-Moist); Reddish yellow (7.5YR6/6-Moist); ; Silty clay; , Angular blocky; Few (2 - 10 %), Calcareous, , Concretions;

Morphological Notes

Soil is hard, compact.
Structure, aggregations have shiny surfaces.
Texture is a micaceous silty clay. Aggregates obvious below 80 cm; with black stains.

Observation Notes

GSG = transitional red-brown earth.

Site Notes

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

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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	mm/h	mm/h
m		g/g - m3/m3								
0 - 10								0.14B		
10 - 20										
20 - 30								0.2B		
30 - 40								0.21B		
40 - 60								0.19B		
60 - 80								0.16B		

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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
15J_H	Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen)
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)