Project Name: Irrigated Soils of the M.I.A., NSW

Project Code: IS Site ID: C640a Observation ID: 1

Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By: J. Loveday Locality: Approximately 20 kilometres west-northwest of

Leeton. Whitton, NSW.

Date Desc.: 01/01/66 Elevation: No Data Map Ref.: 1:100000 Rainfall: No Data Northing/Long.: 146.2 Runoff: No Data Easting/Lat.: -34.51666667 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 DataPattern Type:No DataMorph. Type:No DataRelief:No DataElem. Type:No DataSlope Category:No DataSlope:%Aspect:No Data

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/AN/APrincipal Profile Form:Dr2.13

ASC Confidence: Great Soil Group: Red-brown earth

Confidence level not specified

Site Disturbance: Cultivation. Irrigated, past or present

Vegetation:

Surface Coarse Fragments:

Profile Morphology

0 - 0.1 m Brown (10YR4/3-Moist); Clay loam; Very strong consistence;

0.1 - 0.3 m Dark reddish brown (5YR3/4-Moist); ; Medium clay; , Angular blocky; Smooth-ped fabric; Very

strong consistence;

0.3 - 0.6 m Reddish brown (5YR4/4-Moist); ; Medium clay; Very few (0 - 2 %), Calcareous, , Concretions;

0.6 - 1 m Yellowish red (5YR4/6-Moist); Strong brown (7.5YR5/6-Moist); ; Medium clay; Weak

consistence; , Calcareous, , Concretions;

Morphological Notes

Soil is hard and compact.

Shiny surfaces.

Carbonate concretions and powder.

Observation Notes

Transitional RBE.

Site Notes

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

Project Name: Project Code: Agency Name: Irrigated Soils of the M.I.A., NSW IS Site ID: C640a CSIRO Division of Soils (ACT)

Observation ID: 1

Laboratory Test Results:

Laboratory Test Results.												
Depth	рН	1:5 EC		hangeable Mg	Cations K	E Na	xchangeable Acidity	CEC		ECEC		ESP
m		dS/m	3			Cmol (+)						%
0 - 10	6.3A	0.09A	5.8A	4	1	8.0	5.9D			17.5B		
10 - 20	7.1A	0.09A										
20 - 30	8.5A	0.12A	12.5A	10.2	1.4	3.3	0D			30.4B		
30 - 40	8.8A	0.15A										
40 - 60	8.8A	0.36A										
60 - 80	8.7A	0.54A										
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size GV CS FS		Analysis Silt Clay		
m	%	%	mg/kg	%	%	%	Mg/m3			%		•
0 - 10									9C	40	17	34
10 - 20												
20 - 30									3C	17	8	72
30 - 40												
40 - 60												
60 - 80												
Depth	COLE		Gravimetric/Volumetric V			Vater Contents			Ks	at	K unsa	at
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar 15 I	3ar				
m				g/	g - m3/m3	3			mm	/h	mm/h	Ì
0 - 10												
10 - 20												
20 - 30												
30 - 40												
40 - 60												
60 - 80												

Irrigated Soils of the M.I.A., NSW **Project Name:**

Project Code: Site ID: C640a Observation ID: 1

Agency Name: **CSIRO Division of Soils (ACT)**

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

Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for 15A1_MG

soluble salts

15A1_NA Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for

soluble salts

15J_H 3A1 Sum of Ex. cations + Ex. acidity - Sum of basic exch. cations and exch. (Hydrogen)

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 Fine sand (%) - Not recorded P10_NR_FS P10_NR_Z Silt (%) - Not recorded