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

Project Code: IS Site ID: C630b Observation ID: 1

Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By: J. Loveday Locality: Approximately 10 kilometres South-southwest of

Leeton.

Date Desc.: 01/01/66 Elevation: No Data Map Ref.: 1:100000 Rainfall: No Data Northing/Long.: 146.35 Runoff: No Data Easting/Lat.: -34.61666667 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): Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/AN/APrincipal Profile Form:Ug5.24ASC Confidence:Great Soil Group:Grey clay

Confidence level not specified

Site Disturbance: Cultivation. Irrigated, past or present

Vegetation:

Surface Coarse Fragments:

Profile Morphology

0 - 0.1 m Dark greyish brown (2.5Y4/2-Moist); ; Medium clay; , Subangular blocky; Very few (0 - 2 %),

Calcareous, Medium (2 -6 mm), Concretions;

0.1 - 0.4 m Dark greyish brown (2.5Y4/2-Moist); ; Medium clay; , Subangular blocky; Weak consistence;

Few (2 - 10 %), Calcareous, , Concretions;

0.4 - 1 m Yellowish brown (10YR5/4-Moist); ; Medium clay; Weak consistence; Few (2 - 10 %),

Calcareous, , Concretions;

Morphological Notes

Aggregates have a shiny surface.

Observation Notes

Site Notes

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

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Laboratory Test Results:

Depth	pН	1:5 EC		hangeable	Cations K		Exchangeable	CEC	ECE	C ESP
m		dS/m	Са	Mg	n.	Na Cmol (+	Acidity)/kg			%
0 - 10	7.5A	0.12A 0.06A	-	6.2	1.6	0.2	3.2D		34B	
10 - 20 20 - 30 30 - 40	7.5A 7.6A 8A	0.06A 0.09A 0.12A	22.1A	8.1	0.8	0.6	3.1D		34.71	3
40 - 60 60 - 80	8.6A 8.9A	0.15A 0.24A								
Depth	CaCO3	Organic	Avail.	Total	Total	Total				Analysis
m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV (S FS %	Silt Clay
0 - 10							1.25		8C 22	2 12 58
10 - 20 20 - 30 30 - 40							1.49 1.47 1.53		8C 20	9 63
40 - 60 60 - 80							1.54 1.55			
Domáh	COL F		Con	vimetric/Vo	.ladvia 14	Vatar Cam			l/ a=t	K unsat
Depth	COLE	Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar		Bar	K sat	K unsat
m				g/	g - m3/m3	3			mm/h	mm/h
0 - 10 10 - 20							0.1	9B		
20 - 30 30 - 40								9B 9B		
40 - 60 60 - 80							0.1	9B 2B		

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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
P10_NR_CS
Clay (%) - Not recorded
Coarse sand (%) - Not recorded
P10_NR_FS
P10_NR_Z
P3A1
Clay (%) - Not recorded
Fine sand (%) - Not recorded
Silt (%) - Not recorded
Bulk density - g/cm3

P3B_GV_15 15 BAR Moisture g/g - Gravimetric using pressure plate

P6_LP Dispersion Index (Loveday and Pyle, 1973)