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

Project Code: IS Site ID: C638a Observation ID: 1

Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By: J. Loveday Locality: Approximately 9 kilometres west of Griffith.

Benerembah, NSW.

Date Desc.: 01/01/66 Elevation: No Data Map Ref.: 1:100000 Rainfall: No Data Northing/Long.: 145.95 Runoff: No Data Easting/Lat.: -34.28333333 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):

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 - 0.005 m ;

0.005 - 0.08 m Brown (7.5YR5/4-Moist); ; Fine sandy loam; , Platy;

0.08 - 0.45 m Dark reddish brown (2.5YR3/4-Moist); ; Medium clay; , Angular blocky; Smooth-ped fabric;

0.45 - 1 m Yellowish red (5YR5/6-Moist); ; Silty clay loam; Smooth-ped fabric; Rough-ped fabric; Few (2 -

10 %), Calcareous, , Concretions;

Morphological Notes

Thin organic mat.

Rusty mottles present; and decomposing roots from rice crop.

Colour also has dark grey stains. Shiny surfaces.

Some shiny surfaces, some rough. Pockets of carbonate concretions.

Observation Notes

GSG = transitional RBE.

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	Ex Ca	changeable	Cations K	E Na	xchangeable	CEC	CEC			ESP
m		dS/m	Ca	Mg	N.	Cmol (+)	Acidity /kg					%
0 - 10 10 - 20	6A 6.9A	0.06A 0.06A		3	1	0.2	6.9D			16.9B		
20 - 30 30 - 40	7.4A 7.8A	0.09A 0.09A	14.6A	11.3	1.7	2.1	3.3D			33B		
40 - 60 60 - 80	8.6A 8.8A	0.3A 0.33A										
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	P GV	article CS	Size FS	Analysi Silt	s Clay
m	%	%	mg/kg		%	%	Mg/m3			%	•	·,
0 - 10 10 - 20							1.47 1.53		10C	55	12	23
20 - 30 30 - 40							1.34 1.38		5C	25	4	66
40 - 60 60 - 80							1.39 1.44					
Depth	COLE		Gravimetric/Volumetric Water Cont				ents		Кs	at	K unsa	ıt
m		Sat.	0.05 Bar		0.5 Bar g - m3/m3	1 Bar 3	5 Bar 15	Bar	mm	/h	mm/h	
0 - 10 10 - 20							0.1	13B				
20 - 30 30 - 40								23B 24B				
40 - 60 60 - 80							0.2	22B 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)