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

Project Code: Site ID: Observation ID: 1 C637a

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

Site Information

Desc. By: J. Loveday Locality: Approximately 7 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: Conf. Sub. is Parent. Mat.: No Data Auger boring Geol. Ref.: No Data **Substrate Material:** No Data

Land Form

Rel/Slope Class: No Data Pattern Type: No Data No Data Morph. Type: No Data Relief: Slope Category: Elem. Type: No Data No Data Aspect: No Data Slope:

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification: Mapping Unit: N/A **Principal Profile Form:** Dr2.13 N/A

ASC Confidence: Red-brown earth **Great Soil Group:**

Confidence level not specified

Site Disturbance: Cultivation. Irrigated, past or present

Vegetation:

Surface Coarse Fragments:

Profile Morphology

0 - 0.01 m

0.01 - 0.1 m Brown (7.5YR4/3-Moist); ; Fine sandy clay loam; Very strong consistence;

0.1 - 0.25 m Dark reddish brown (5YR3/4-Moist); Dark yellowish brown (10YR3/4-Moist); ; Medium clay; ,

Angular blocky; Very strong consistence;

Dark reddish brown (5YR3/4-Moist); Dark yellowish brown (10YR3/4-Moist); ; Medium clay; , 0.25 - 0.35 m

Angular blocky; Very strong consistence; Very few (0 - 2 %), Calcareous, , Concretions;

0.35 - 0.9 m Reddish brown (5YR4/4-Moist); Reddish yellow (5YR6/6-Moist); ; Medium clay; Smooth-ped

fabric; , Calcareous, , Concretions;

Morphological Notes

Patchy accumulation of organic mat.
Rusty mottles present. Soil is hard and compact.

10YR34 occurs as stains. 10YR34 occurs as stains.

Shiny aggregate surfaces; carbonate concretions and powder.

Observation Notes

GSG = Transitional RBE.

Site Notes

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

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Observation ID: 1

Laboratory Test Results:

Depth	pН	1:5 EC		changeable	Cations K	I Na	Exchangeable Acidity	CEC		ECEC		ESP
m		dS/m	Са	Mg	N.	Cmol (+						%
0 - 10	5.9A	0.12A		5.4	1.6	0.1	7.6D			22.6B		
10 - 20	6.9A	0.06A		44.0	4.0		0.00			00.45		
20 - 30	7.7A	0.12A		11.9	1.8	0.4	2.2D			32.1B		
30 - 40	8.3A	0.15A										
40 - 60	8.4A	0.18A										
60 - 80	8.8A	2.7A										
Depth	CaCO3	Organic	Avail. P	Total P	Total N	Total K		P GV	article CS	Size FS	Analysi	
m	%	C %	mg/kg	-	N %	к %	Density Mg/m3	Gv	CS	го %	Siit	Clay
	70	70	mg/ng	70	70	70	mg/mo			70		
0 - 10							1.35		10C	41	10	39
10 - 20							1.43					
20 - 30							1.41		4C	29	6	61
30 - 40							1.49					
40 - 60							1.55					
60 - 80							1.50					
Depth	COLE		Gravimetric/Volumetric Water Cor				tents		Кs	at	K unsa	ıt
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar 15	Bar		_	_	
m				g/	g - m3/m3	3			mm	/h	mm/h	
0 - 10							0 :	17B				
10 - 20							0.	170				
20 - 30							0.3	22B				
30 - 40								21B				
40 - 60								21B				
60 - 80							-	24B				
00 - 00							0.2	_70				

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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)