Projec	ct Name: ct Code: cy Name:	Soil Studies in the Lower N EDGEROI Site ID: CSIRO Division of Soils (Q	ed021 O	bservation ID:	1	
Site In	formation					
Easting	esc.: () ef.: () ng/Long.: () g/Lat.: ()	G.M. Roberts 06/02/86 Sheet No. : 8837_N 1:50000 6675400 AMG zone: 55 748700 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:	Twynam Pastoral 192 metres No Data No Data No Data	Co., Boolcarrol	
<u>Geolo</u> Exposı Geol. R	ureType:	Undisturbed soil core No Data	Conf. Sub. is Pare Substrate Materia			
Morph. Elem. 1 Slope:	ppe Class: . Type: Type:	No Data No Data Levee 0 %	Pattern Type: Relief: Slope Category: Aspect:	No Data No Data Very gently slope No Data	d	
-		ndition (dry): Self-mulching, R	Recently cultivated			
Erosic Soil C	<u>on:</u> Iassificatio	n				
Austral N/A ASC C	lian Soil Cla Confidence: ence level no	ssification:	Princi	ing Unit: pal Profile Form: Soil Group:	N/A Ug5.15 Brown clay	
		: Cultivation. Rainfed				
Vegeta Surfac		Fragments:				
	e Morpholo					
A11p	0 - 0.1 m	Dark brown (7.5YR3/2-Mois	ular; Moderate grade ck; Few (<1 per 100n onsistence; 0-2%, fin	of structure, 20-50 nm2) Very fine (0.07 e gravelly, 2-6mm, 1	ounded, Quartz, coarse	
А12р	0.1 - 0.25	 Brown (7.5YR4/2-Moist); Bi 20-50 mm, Angular blocky; fabric; Smooth-ped fabric; Modera 1mm) macropores, Modera Quartz, coarse fragments; I 	Moderate grade of s Medium, (5 - 10) mm ately moist; Rigid cons	tructure, 5-10 mm, / crack; Few (<1 per sistence; 0-2%, fine	Angular blocky; Earthy 100mm2) Very fine (0.075- gravelly, 2-6mm, rounded,	
A13k	0.25 - 0.38	Brown (7.5YR4/2-Moist); ; I blocky; Moderate grade of s fabric; Medium, (5 - 10) mm Moderately moist; Very firm fragments; Very few (0 - 2 % Few, very fine (0-1mm) roo	structure, 5-10 mm, A n crack; Few (<1 per n consistence; 0-2%, %), Calcareous, Fine	Angular blocky; Eart 100mm2) Very fine fine gravelly, 2-6mn (0 - 2 mm), Nodules	y fabric; Smooth-ped (0.075-1mm) macropores, n, rounded, Quartz, coarse	
A14k	0.38 - 1.02	2 m Reddish brown (5YR4/3-Mo grade of structure, 10-20 m mm crack; Few (<1 per 100 consistence; Very few (0 - 2 Calcareous, Fine (0 - 2 mm	nm, Angular blocky; S 0mm2) Very fine (0.0 2 %), Gypseous, Fine	mooth-ped fabric; E 75-1mm) macropore e (0 - 2 mm), Crysta	arthy fabric; Fine, (0 - 5) s, Moderately moist; Weak s; Very few (0 - 2 %),	
B21	1.02 - 1.9 (grade of structure, 100-200) mm, Lenticular; Stro Fine, (0 - 5) mm crao noist; Weak consister Few (2 - 10 %), Man (0 - 2 mm), Crystals;	ong grade of structur ck; Few (<1 per 100 nce; 0-2%, fine grav ganiferous, Fine (0 - Very few (0 - 2%),	e, 5-10mm, Ángular mm2) Very fine (0.075-1mm) elly, 2-6mm, rounded, 2mm), Laminae; Very few Calcareous, Fine (0 - 2	

Project Name:Soil Studies in the Lower Namoi ValleyProject Code:EDGEROISite ID:ed021Observation ID:1Agency Name:CSIRO Division of Soils (QLD)

B22 1.9 - 2.6 m Reddish brown (5YR4/3-Moist); , 5YR56, 2-10% , 5-15mm, Prominent; Medium clay; Moderate grade of structure, 100-200 mm, Lenticular; Strong grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Weak consistence; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Veins; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 8.5 (pH meter); Gradual, Smooth change to -</p>

Morphological Notes

This site could receive recent deposits of alluvium. Well structured B horizon.

Observation Notes

Parent Rock: alluvial sediment, clay, parna on fourth fan

Site Notes

A11p

Prepared seed bed. Surface cracks hidden by seed bed. Near sunset a very low microrelief is seen, a ripple effect in surface, wavelength 4 metres depth approx 10 cm, running E/W while seed bed runs NE/SW.

Project Name:	Soil Studies ir	n the Lower	Namoi Valley	
Project Code:	EDGEROI	Site ID:	ed021	Observation ID:
Agency Name:	CSIRO Divisio	n of Soils (C	QLD)	

Laboratory Test Results:

Depth	рН		Exchangeab		Exchangeable	CEC	ECEC	ESP
m		Ca dS/m	Mg	К	Na Acidity Cmol (+)/kg			%
0 - 0.02	7.96A	0.162A 30.7	B 13.02	2.6	2.57			
0 - 0.1	7.5A	0.162A 28.28	B 14.04	2.89	2.5			
0.1 - 0.2	8.6A	0.125A 31.38	B 14.57	2.1	3.9			
0.3 - 0.38	9.01A	0.17A 26.6	B 13.36	1.81	7.41			
0.7 - 0.8	8A	1.75A 26.22	B 14.91	1.83	12.56			
1.2 - 1.3	8.45A	1.3A 25.8	B 17.47	2.13	15.64			
2.5 - 2.6	8.83A	1.155A 28.35	B 17.08	1.79	15.29			

1

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	P	article	Size	Analysi	5
m	%	С %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	CS	FS %	Silt	Clay
	70	70	iiig/kg	70	70	70	Mg/110			70		
0 - 0.02	<0.1B	1.03C									18.3	69.1
0 - 0.1	<0.1B	1.05C	35.4J								19.2	65
0.1 - 0.2	<0.1B	0.71C	19.6J								18.9	66.2
0.3 - 0.38	0.1B	0.61C	34J								20.7	64.1
0.7 - 0.8	0.4B	0.42C	30.3J								21.2	67.6
1.2 - 1.3	0.4B	0.1C	24.2J								18.3	73.2
2.5 - 2.6	1.4B	0.07C	18.1J								15.2	73.8

Depth	COLE	Gravimetric/Volumetric Water Contents	K sat	K unsat
m		Sat. 0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar 15 Bar g/g - m3/m3	mm/h	mm/h
0 - 0.02				

0 - 0.02 0 - 0.1 0.1 - 0.2 0.3 - 0.38 0.7 - 0.8 1.2 - 1.3 2.5 - 2.6

Project Name: Soil Studies in the Lower Namoi Valley Project Code: Agency Name: EDGEROI Site ID: ed021 CSIRO Division of Soils (QLD)

Observation ID: 1

Laboratory Analyses Completed for this profile

15A2_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_K	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_MG	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_NA	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
19B1	Carbonates - manometric
3A1	EC of 1:5 soil/water extract
4 4 1	nH of 1:5 soil/water suspension

- pH of 1:5 soil/water suspension Chloride 1:5 soil/water extract, automated colour 4A1 5A2
- 6B3
- Total organic carbon high frequency induction furnace, infrared Water soluble nitrate automated colour
- 7B1
- Bicarbonate-extractable phosphorus manual colour Clay (%) Coventry and Fett pipette method Silt (%) Coventry and Fett pipette method 9B1
- P10_CF_C P10_CF_Z