

Project Name: Soil Studies in the Lower Namoi Valley
Project Code: EDGEROI **Site ID:** cu001 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: W.T. Ward	Locality: J. R. (Jeff) Carolan, Scotsburn
Date Desc.: 23/05/86	Elevation: 171 metres
Map Ref.: Sheet No. : 8737_S 1:50000	Rainfall: No Data
Northing/Long.: 6647250 AMG zone: 55	Runoff: No Data
Easting/Lat.: 698600 Datum: AGD66	Drainage: No Data

Geology

ExposureType: Undisturbed soil core	Conf. Sub. is Parent. Mat.: No Data
Geol. Ref.: No Data	Substrate Material: No Data

Land Form

Rel/Slope Class: No Data	Pattern Type: Flood plain
Morph. Type: No Data	Relief: No Data
Elem. Type: No Data	Slope Category: Level
Slope: 0 %	Aspect: No Data

Surface Soil Condition (dry): Self-mulching

Erosion:

Soil Classification

Australian Soil Classification: N/A	Mapping Unit: N/A
ASC Confidence: Confidence level not specified	Principal Profile Form: N/A
	Great Soil Group: Grey clay

Site Disturbance: Cultivation. Irrigated, past or present, Complete clearing. Pasture, native or improved, cultivated at some stage,

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.1 m	Very dark grey (10YR3/1-Moist); Very dark greyish brown (10YR3/2-Dry); ; Clay loam; Strong grade of structure, 5-10 mm, Subangular blocky; Moderate grade of structure, 50-100 mm, Prismatic; Smooth-ped fabric; Medium, (5 - 10) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; 0-2%, medium gravelly, 6-20mm, subrounded, Clay, coarse fragments; Field pH 7 (pH meter); Few, very fine (0-1mm)
A12	0.1 - 0.25 m	Very dark greyish brown (10YR3/2-Moist); ; Light medium clay; Moderate grade of structure, 50-100 mm, Prismatic; Smooth-ped fabric; Medium, (5 - 10) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very strong consistence; Field pH 7 (pH meter); Few, very fine (0-1mm) roots;
A13	0.25 - 0.55 m	Very dark greyish brown (10YR3/2-Moist); ; Light medium clay; Moderate grade of structure, 50-100 mm, Prismatic; Smooth-ped fabric; Medium, (5 - 10) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very strong consistence; Field pH 9 (pH meter); Few, very fine (0-1mm) roots; Gradual, Smooth change to -
A14	0.55 - 1 m	Very dark greyish brown (10YR3/2-Moist); ; Light medium clay; Moderate grade of structure, 50-100 mm, Lenticular; Weak grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very strong consistence; 0-2%, medium gravelly, 6-20mm, subrounded, Clay, coarse fragments; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 9 (pH meter); Few, very fine (0-1mm) roots;
A15	1 - 1.5 m	Very dark greyish brown (10YR3/2-Moist); ; Light medium clay; Moderate grade of structure, 50-100 mm, Lenticular; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very strong consistence; Very few (0 - 2 %), Gypseous, Medium (2 -6 mm), Crystals; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 8.5 (pH meter); Few, very fine (0-1mm) roots; Diffuse, Smooth change to -
B2	1.5 - 2.67 m	Brown (10YR4/3-Moist); , 10YR31, 10-20% , 0-5mm, Distinct; Light medium clay; Weak grade of structure, 100-200 mm, Angular blocky; Weak grade of structure, 2-5 mm, Cast; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very firm consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 7.5 (pH meter);

Morphological Notes

A11 Top metre contains several pieces of dark reddish brown (5YR3/4) baked clay, at the

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Observation Notes

Parent Rock: alluvial sediment, clay, parna on third fan, Namoi

Site Notes

Recently sold by Doug Hardy, farmer. Three photos of site, one showing nearby Namoi flood channel that led me to suppose that this was floodplain. However, the profile looks like MVpH (perhaps thickened with recent flood deposit) so I now b

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Acidity		%
						Cmol (+)/kg			

0 - 0.1
0.1 - 0.2
0.3 - 0.4
0.7 - 0.8
1.2 - 1.3
2.5 - 2.6

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
		C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		

0 - 0.1
0.1 - 0.2
0.3 - 0.4
0.7 - 0.8
1.2 - 1.3
2.5 - 2.6

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

0 - 0.1
0.1 - 0.2
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0.7 - 0.8
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Laboratory Analyses Completed for this profile