

Project Name: Soil Studies in the Lower Namoi Valley
Project Code: EDGEROI **Site ID:** ed012 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: W.T. Ward	Locality: A.V.(Alan) Albert, Nabra
Date Desc.: 07/07/86	Elevation: 250 metres
Map Ref.: Sheet No. : 8837_N 1:50000	Rainfall: No Data
Northing/Long.: 6677100 AMG zone: 55	Runoff: No Data
Easting/Lat.: 772200 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: No Data
Morph. Type: No Data	Relief: No Data
Elem. Type: Terrace flat	Slope Category: Very gently sloped
Slope: 1 %	Aspect: 180 degrees

Surface Soil Condition (dry): Self-mulching, Recently cultivated

Erosion:

Soil Classification

Australian Soil Classification: N/A	Mapping Unit: N/A
ASC Confidence: Confidence level not specified	Principal Profile Form: Ug5.15
	Great Soil Group: Brown clay

Site Disturbance: Cultivation. Rainfed

Vegetation:

Surface Coarse Fragments:

Profile Morphology

AC1	0 - 0.1 m	Dark brown (7.5YR3/2-Moist); Dark brown (7.5YR3/2-Dry); ; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Moderate grade of structure, 2-5 mm, Granular; Smooth-ped fabric; Medium, (5 - 10) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; Field pH 9 (pH meter); Few, very fine (0-1mm) roots;
AC2	0.1 - 0.22 m	Dark brown (7.5YR3/2-Moist); ; Medium heavy clay; Weak grade of structure, 20-50 mm; Earthy fabric; Fine, (0 - 5) mm crack; Moderately moist; Strong consistence; Field pH 9 (pH meter); Few, very fine (0-1mm) roots; Clear, Smooth change to -
2A1	0.22 - 0.7 m	Dark brown (7.5YR3/2-Moist); , 7.5YR44, 0-2% , 0-5mm, Distinct; , 10YR72, 0-2% , 0-5mm, Faint; Medium heavy clay; Moderate grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 9.5 (pH meter); Few, very fine (0-1mm) roots; Gradual, Smooth change to -
2B21	0.7 - 1 m	Dark reddish brown (5YR3/4-Moist); , 7.5YR64, 0-2% , 0-5mm, Distinct; Medium heavy clay; 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 firm consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 9.5 (pH meter); Few, very fine (0-1mm) roots;
2B22	1 - 1.9 m	Dark reddish brown (5YR3/3-Moist); , 7.5YR64, 0-2% , 0-5mm, Distinct; , 7.5YR32, 0-2% , 0-5mm, Distinct; Medium clay; Moderate 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; Firm consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 9.5 (pH meter); Few, very fine (0-1mm) roots;
2B23	1.9 - 3.1 m	Dark reddish grey (5YR4/2-Moist); , 5YR46, 0-2% , 0-5mm, Distinct; , 7.5YR64, 0-2% , 0-5mm, Distinct; Medium clay; Weak 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; Firm consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 9.5 (pH meter);

Morphological Notes

AC1 0-10 has conchoidal fracture suggesting a recent deposit without soil structure. Ditto for 10-20. I accept this as recent fill or surface wash over prior soil mainly on evidence of inwashed sand from 20-30. Possibly just local redistributio

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AC2 n of surface soil. Prior soil resembles Q.

Observation Notes

Parent Rock: alluvial sediment, mixed texture, with lime, second (brown parna) terraced

Site Notes

This is the backslope of a levee related to a drainageway .75km N. Tendency to weak crust. Few large cracks to 40mm wide show through cultivated surface; 600mm deep. Slicks at bottom of core. Boggy Creek is a prior stream with low terrace s

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Laboratory Analyses Completed for this profile

15A2_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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
4A1	pH of 1:5 soil/water suspension
5A2	Chloride - 1:5 soil/water extract, automated colour
6B3	Total organic carbon - high frequency induction furnace, infrared
7B1	Water soluble nitrate - automated colour
9B1	Bicarbonate-extractable phosphorus - manual colour
P10_CF_C	Clay (%) - Coventry and Fett pipette method
P10_CF_Z	Silt (%) - Coventry and Fett pipette method