

Project Name: Soil Studies in the Lower Namoi Valley
Project Code: EDGEROI **Site ID:** cu003 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

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|---|---|
| Desc. By: W.T. Ward | Locality: stock route, 400m W of Cubbaroo Road |
| Date Desc.: 30/05/85 | Elevation: 171 metres |
| Map Ref.: Sheet No. : 8737_S 1:50000 | Rainfall: No Data |
| Northing/Long.: 6651500 AMG zone: 55 | Runoff: No Data |
| Easting/Lat.: 701100 Datum: AGD66 | Drainage: No Data |

Geology

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

Land Form

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|---------------------------------|---|
| Rel/Slope Class: No Data | Pattern Type: No Data |
| Morph. Type: No Data | Relief: No Data |
| Elem. Type: Levee | Slope Category: Very gently sloped |
| Slope: 1 % | Aspect: 180 degrees |

Surface Soil Condition (dry): Surface crust, Trampled

Erosion:

Soil Classification

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

Site Disturbance: Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation:

Surface Coarse Fragments:

Profile Morphology

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| A11 | 0 - 0.1 m | Dark brown (7.5YR3/2-Moist); Brown (7.5YR4/2-Dry); ; Light clay; Strong grade of structure, 20-50 mm, Subangular blocky; Weak grade of structure, 2-5 mm, Platy; Rough-ped fabric; Medium, (5 - 10) mm crack; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 6.5 (pH meter); Few, very fine (0-1mm) roots; |
| A12 | 0.1 - 0.25 m | Dark brown (7.5YR3/2-Moist); ; Light clay; Strong grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Medium, (5 - 10) mm crack; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.5 (pH meter); Few, very fine (0-1mm) roots; |
| A13 | 0.25 - 0.55 m | Dark brown (7.5YR3/2-Moist); ; Medium clay; Strong grade of structure, 50-100 mm, Subangular blocky; Moderate grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.5 (pH meter); Few, very fine (0-1mm) roots; |
| A14 | 0.55 - 0.9 m | Dark brown (7.5YR3/2-Moist); ; Light medium clay; Weak grade of structure, 50-100 mm, Subangular blocky; Moderate grade of structure, 2-5 mm, Angular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Very firm consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.5 (pH meter); Few, very fine (0-1mm) roots; Diffuse, Smooth change to - |
| B2 | 0.9 - 2 m | Brown (7.5YR4/4-Moist); , 7.5YR32, 0-2% , 5-15mm, Distinct; Light clay; Moderate grade of structure, 50-100 mm, Lenticular; Moderate grade of structure, 5-10 mm, Prismatic; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Very firm consistence; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Gypseous, Fine (0 - 2 mm), Crystals; Field pH 8.5 (pH meter); Few, very fine (0-1mm) roots; Diffuse, Smooth change to - |
| C | 2 - 2.55 m | Brown (10YR4/3-Moist); , 7.5YR32, 0-2% , 0-5mm, Distinct; Light clay; Weak grade of structure, 100-200 mm, Prismatic; Weak grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Sandy (grains prominent) fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Very firm consistence; Very few (0 - 2 %), Gypseous, Fine (0 - 2 mm), Crystals; Field pH 8 (pH meter); |

Morphological Notes

A11 The carbonate nodules in cu00301 and cu00302 are subrounded and are clearly

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Observation Notes

Parent Rock: alluvial sediment, clay, first terraced fan, Namoi

Site Notes

Bodgy measure of crack depth. Upper slope of gentle levee leading down to abandoned channel with Pilliga grey box. Surface beneath weak crust is very well structured.

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Laboratory Analyses Completed for this profile