

Project Name: Soil Studies in the Lower Namoi Valley
Project Code: EDGEROI **Site ID:** ed070 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	W.T. Ward	Locality:	J.G.(John) Wilson, Montana
Date Desc.:	27/06/86	Elevation:	419 metres
Map Ref.:	Sheet No. : 8837_N 1:50000	Rainfall:	No Data
Northing/Long.:	6669500 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	787200 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:	Pediment	Slope Category:	Gently inclined
Slope:	4 %	Aspect:	255 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:	N/A	Mapping Unit:	N/A
ASC Confidence:	Confidence level not specified	Principal Profile Form:	Gn3.12
		Great Soil Group:	Prairie soil

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

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.1 m	Dark reddish brown (5YR3/2-Moist); Dark reddish grey (5YR4/2-Dry); ; Clay loam; Strong grade of structure, 2-5 mm, Granular; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm ²) Fine (1-2mm) macropores, Moderately moist; Weak consistence; 0-2%, medium gravelly, 6-20mm, subangular, Basalt, coarse fragments; Field pH 5.8 (pH meter); Common, fine (1-2mm) roots;
A12	0.1 - 0.25 m	Dark reddish brown (5YR3/2-Moist); ; Light clay; Moderate grade of structure, 20-50 mm, Angular blocky; Moderate grade of structure, 2-5 mm, Granular; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Weak consistence; Field pH 6.3 (pH meter); Common, very fine (0-1mm) roots;
A13	0.25 - 0.5 m	Dark reddish brown (5YR3/3-Moist); ; Light clay; Weak grade of structure, 20-50 mm, Prismatic; Strong 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; Weak consistence; 0-2%, fine gravelly, 2-6mm, subangular, Consolidated rock (unidentified), coarse fragments; Field pH 6.5 (pH meter); Common, very fine (0-1mm) roots; Gradual, Smooth change
B21	0.5 - 1 m	Dark reddish brown (5YR3/3-Moist); ; Light medium clay; Weak grade of structure, 20-50 mm, Prismatic; 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; Firm consistence; 0-2%, medium gravelly, 6-20mm, subangular, Consolidated rock (unidentified), coarse fragments; Field pH 6.7 (pH meter); Few, very fine (0-1mm) roots;
B22	1 - 1.8 m	Dark reddish brown (5YR3/3-Moist); ; Light medium clay; Weak grade of structure, 20-50 mm, Subangular blocky; Rough-ped fabric; Fine, (0 - 5) mm crack; Common (1-5 per 0.01m ²) Medium (2-5mm) macropores, Moderately moist; Strong consistence; 2-10%, medium gravelly, 6-20mm, subangular, Consolidated rock (unidentified), coarse fragments; Field pH 7 (pH meter); Few, very fine (0-1mm) roots; Clear, Smooth change to -

Morphological Notes

A11 Sandstone fragments possibly in core also. Weathering basalt in situ below 180. No visible lime; weathering rock stained with manganese. WTW guessed brown clay as great soil group.

Observation Notes

Parent Rock: colluvial sediment, do, colluvium, thin, with basalt

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Groundsurface formed by meshed fan/pediment segments, much surface stone. Pediment or structural bench. Rocks are detached boulders. No cracks. Note chartpen stopped by stone, in stony patches. Access around piggery, then north to gate,

SOU

[illegible]

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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