

Project Name: Soil Studies in the Lower Namoi Valley
Project Code: EDGEROI **Site ID:** ed242 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	W.T. Ward	Locality:	J.Amos/R.Simpson, Woodville
Date Desc.:	06/08/87	Elevation:	320 metres
Map Ref.:	Sheet No. : 8837_N 1:50000	Rainfall:	No Data
Northing/Long.:	6660800 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	782700 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:	Very gently sloped
Slope:	1 %	Aspect:	180 degrees

Surface Soil Condition (dry): Hardsetting, Trampled

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

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A11	0 - 0.1 m	Dark brown (7.5YR3/2-Moist); Dark yellowish brown (10YR3/4-Dry); ; Light clay; Strong grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm ²) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; Field pH 7.5 (pH meter); Common, very fine (0-1mm) roots;
A12	0.1 - 0.25 m	Dark brown (7.5YR3/2-Moist); ; Light clay; Weak grade of structure, 100-200 mm, Prismatic; Strong grade of structure, 20-50 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; Field pH 8 (pH meter); Few, very fine (0-1mm) roots; Gradual, Smooth change to -
B21	0.25 - 0.55 m	Brown (7.5YR4/3-Moist); , 7.5YR32, 2-10% , 15-30mm, Prominent; Light clay; Weak grade of structure, 100-200 mm, Prismatic; Moderate grade of structure, 10-20 mm, Platy; 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, Medium (2 -6 mm), Soft segregations; Field pH 8.8 (pH meter); Few, very fine (0-1mm) roots;
B22	0.55 - 1 m	Brown (7.5YR4/4-Moist); , 7.5YR32, 0-2% , 5-15mm, Distinct; Light medium clay; Moderate grade of structure, 20-50 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; Common (10 - 20 %), Calcareous, Very coarse (20 - 60 mm), Soft segregations; Field pH 8.8
B23	1 - 1.35 m	Reddish brown (5YR4/4-Moist); , 7.5YR32, 0-2% , 5-15mm, Distinct; Light medium clay; Weak grade of structure, 50-100 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; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.8 (pH meter); Diffuse, Smooth change to -
C1	1.35 - 1.9 m	Light yellowish brown (2.5Y6/4-Moist); , 7.5YR54, 2-10% , 0-5mm, Distinct; Medium clay; Weak grade of structure, 50-100 mm, Angular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Moderately moist; Strong consistence; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.8 (pH meter); Diffuse, Smooth change to -
C2	1.9 - 2.9 m	Light grey (5Y7/2-Moist); , 10YR64, 10-20% , 5-15mm, Prominent; Light clay; Massive grade of structure; Massive grade of structure; Fine, (0 - 5) mm crack; Moderately moist; Very firm consistence; Field pH 8.5 (pH meter); Diffuse, Smooth change to -

Project Name: Soil Studies in the Lower Namoi Valley
Project Code: EDGEROI **Site ID:** ed242 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

C3 2.9 - 3.5 m White (5Y8/2-Moist); , 10YR6/6, 20-50% , 15-30mm, Prominent; , 5YR2/1, 0-2% , 0-5mm, Distinct; Light clay; Massive grade of structure; Fine, (0 - 5) mm crack; Moderately moist; Field pH 8.5 (pH meter); Few, very fine (0-1mm) roots;

Morphological Notes

A11 A few small rounded fragments of quartz at 20-25cm. Carbonate-rich B2 over weathered parent material with manganese at 140cm. A grey horizon with nodules of manganese (3% abundance) lies between the B2 and C horizons and justifies the additional sample. C2 apedal rather than structureless, simply fissile and fractured weathering parent rock with soft manganese stains to 290cm, where the stains become much less frequent and a biscuity structure appears. Parent rock: Garawilla Volcanics.

B21

Observation Notes

Parent Rock: residual, intensely weathered, tuff Garrawilla Volcanics

Site Notes

Many dead trees here. A native pasture on pediment surface. A dam NE of 242 is sandy pedisegment over Garawilla basalt and tuff; immediately to the E is a sandy rise with cypress which I think is solodic soil on sandstone in situ.

Project Name: Soil Studies in the Lower Namoi Valley
Project Code: EDGEROI **Site ID:** ed242 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

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