

Project Name: Soil Studies in the Lower Namoi Valley
Project Code: EDGEROI **Site ID:** ed400 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By: W.T. Ward	Locality: Twynam Pastoral Co., Boolcarrol
Date Desc.: 04/12/85	Elevation: 188 metres
Map Ref.: Sheet No. : 8837_N 1:50000	Rainfall: No Data
Northing/Long.: 6674740 AMG zone: 55	Runoff: No Data
Easting/Lat.: 742380 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 plain	Slope Category: Level
Slope: 0 %	Aspect: No Data

Surface Soil Condition (dry): Surface crust

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: N/A

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

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A11s	0 - 0.03 m	Brown (10YR4/3-Moist); Brown (10YR5/3-Dry); ; Sandy clay loam; Weak grade of structure, 50-100 mm, Platy; Earthy fabric; Moderately moist; Strong consistence; 2-10%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Abrupt, Wavy change to -
A12b	0.03 - 0.14 m	Dark brown (7.5YR3/2-Moist); Dark brown (7.5YR3/2-Dry); ; Light medium clay; Moderate grade of structure, 20-50 mm, Subangular blocky; Earthy fabric; Moderately moist; Strong consistence; 2-10%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Clear,
A13b	0.14 - 0.36 m	Dark brown (7.5YR3/2-Moist); Dark brown (7.5YR3/2-Dry); , 10YR64, 2-10% , 0-5mm, Faint; Light clay; Moderate grade of structure, 10-20 mm, Platy; Weak grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Moderately moist; Strong consistence; 2-10%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Soft segregations; Gradual, Smooth change to -
B21k	0.36 - 0.55 m	Brown (7.5YR4/3-Moist); , 10YR74, 2-10% , 0-5mm, Distinct; Light clay; Moderate grade of structure, 10-20 mm, Platy; Weak grade of structure, 5-10 mm, Subangular blocky; Earthy fabric; Moderately moist; Strong consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Soft segregations; Clear, Smooth change to -
B22yk	0.55 - 1.45 m	Brown (7.5YR4/4-Moist); , 10YR82, 2-10% , 5-15mm, Distinct; , 10YR74, 2-10% , 0-5mm, Distinct; Light clay; Weak grade of structure, 20-50 mm, Platy; Weak grade of structure, 20-50 mm, Subangular blocky; Earthy fabric; Moderately moist; Strong consistence; Few (2 - 10 %), Gypseous, Medium (2 -6 mm), Crystals; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Soft segregations; Abrupt, Smooth change to -
2B2k	1.45 - 2.4 m	Brown (7.5YR4/4-Moist); , 10YR74, 2-10% , 15-30mm, Prominent; , 10YR21, 2-10% , 0-5mm, Distinct; Medium clay; Weak grade of structure, 50-100 mm, Platy; Weak grade of structure, 10-20 mm, Subangular blocky; Smooth-ped fabric; Earthy fabric; Moderately moist; Strong consistence; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; Diffuse, Smooth change to -
2C	2.4 - 3.14 m	Strong brown (7.5YR5/6-Moist); , 5YR42, 10-20% , 5-15mm, Prominent; , 10YR21, 2-10% , 0-5mm, Distinct; Silty clay; Massive grade of structure; Strong grade of structure, 2-5 mm, Cast; Earthy fabric; Smooth-ped fabric; Moderately moist; Strong consistence; Very few (0 - 2 %), Gypseous, Fine (0 - 2 mm), Crystals;

Morphological Notes

A11s All soil samples to I.P.L. The A13 is separated by its slight carbonate content. Uncertain

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A12b ate. Cast granules at 300 cm appear organic but it is manganese and humus stain on
outside of casts that give colour.

Observation Notes

Parent Rock: alluvial sediment, mixed texture, with lime, clay parna on fourth fan, Namoi

Site Notes

Profile R1. Full easting, northing, elevation: 42380.74740.188m.

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Laboratory Test Results:

[illegible][illegible][illegible]

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Laboratory Analyses Completed for this profile