

**Project Name:** Soil Studies in the Lower Namoi Valley  
**Project Code:** EDGEROI **Site ID:** ed401 **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

#### Site Information

<b>Desc. By:</b> W.T. Ward	<b>Locality:</b> Twynam Pastoral Co., Boolcarrol
<b>Date Desc.:</b> 05/12/85	<b>Elevation:</b> 188 metres
<b>Map Ref.:</b> Sheet No. : 8837_N 1:50000	<b>Rainfall:</b> No Data
<b>Northing/Long.:</b> 6674810 AMG zone: 55	<b>Runoff:</b> No Data
<b>Easting/Lat.:</b> 742360 Datum: AGD66	<b>Drainage:</b> No Data

#### Geology

<b>ExposureType:</b> Undisturbed soil core	<b>Conf. Sub. is Parent. Mat.:</b> No Data
<b>Geol. Ref.:</b> No Data	<b>Substrate Material:</b> No Data

#### Land Form

<b>Rel/Slope Class:</b> No Data	<b>Pattern Type:</b> No Data
<b>Morph. Type:</b> No Data	<b>Relief:</b> No Data
<b>Elem. Type:</b> Terrace plain	<b>Slope Category:</b> Gently inclined
<b>Slope:</b> 0 %	<b>Aspect:</b> No Data

**Surface Soil Condition (dry):** Self-mulching

#### Erosion:

#### Soil Classification

<b>Australian Soil Classification:</b> N/A	<b>Mapping Unit:</b> N/A
<b>ASC Confidence:</b> Confidence level not specified	<b>Principal Profile Form:</b> N/A
	<b>Great Soil Group:</b> N/A

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

#### Vegetation:

#### Surface Coarse Fragments:

#### Profile Morphology

A11g	0 - 0.03 m	Very dark greyish brown (10YR3/2-Moist); Very dark greyish brown (10YR3/2-Dry); ; Medium clay; Strong grade of structure, 2-5 mm, Subangular blocky; Earthy fabric; Moderately moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Clear, Wavy change to -
A12g	0.03 - 0.32 m	Very dark greyish brown (10YR3/2-Moist); Very dark greyish brown (10YR3/2-Dry); ; Medium clay; Strong grade of structure, 20-50 mm, Subangular blocky; Earthy fabric; Moderately moist; Very firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Few, very fine (0-1mm) roots; Gradual, Smooth change to -
A13g	0.32 - 1.05 m	Very dark greyish brown (10YR3/2-Moist); , 10YR73, 0-2% , 0-5mm, Distinct; , 10YR42, 0-2% , 0-5mm, Distinct; Medium clay; Moderate grade of structure, 50-100 mm, Prismatic; Weak grade of structure, 10-20 mm, Angular blocky; Earthy fabric; Moderately moist; Very strong consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, Medium (2 - 6 mm), Soft segregations; Few, very fine (0-1mm) roots; Diffuse,
B21	1.05 - 1.9 m	Brown (7.5YR4/4-Moist); , 10YR32, 10-20% , 15-30mm, Prominent; , 10YR74, 0-2% , 0-5mm, Distinct; Medium clay; Moderate grade of structure, 50-100 mm, Angular blocky; Earthy fabric; Moderately moist; Very firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Very few (0 - 2 %), Gypseous, Fine (0 - 2 mm), Crystals; Diffuse, Smooth change to -
B22	1.9 - 2.6 m	Brown (7.5YR4/4-Moist); , 10YR32, 2-10% , 15-30mm, Distinct; , 10YR74, 0-2% , 0-5mm, Distinct; Silty clay; Moderate grade of structure, 100-200 mm, Lenticular; Moderate grade of structure, 20-50 mm, Subangular blocky; Smooth-ped fabric; Earthy fabric; Moderately moist; Very firm consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Diffuse, Smooth change to -
C	2.6 - 3.37 m	Strong brown (7.5YR5/6-Moist); , N20, 2-10% , 0-5mm, Distinct; , 7.5YR32, 10-20% , 5-15mm, Distinct; Silty clay; Massive grade of structure; Moderate grade of structure, 2-5 mm, Cast; Smooth-ped fabric; Earthy fabric; Moderately moist; Firm consistence;

#### Morphological Notes

A11g	Soil faunal (?ant) seed store at 58 cm. There are extremely few coarse fragments in 401.04. Few very small soft lime segregations in 401.06. Compared with R1, R10 has slightly paler or yellower colours (?hydromorphic effect), but chips quoted do not show the difference; new determinations give 7.5YR5/4-6 for R10.
A12g	

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

**Site Notes**

Profile R10. Full easting, northing, elevation: 42362.74812.188.04m.



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Laboratory Analyses Completed for this profile