

Project Name: Soil Studies in the Lower Namoi Valley
Project Code: EDGEROI **Site ID:** ed406 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	W.T. Ward	Locality:	Twynam Pastoral Co., Boolcarrol
Date Desc.:	17/12/85	Elevation:	188 metres
Map Ref.:	Sheet No. : 8837_N 1:50000	Rainfall:	No Data
Northing/Long.:	6674780 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	742370 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): Firm, Poached

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

A11	0 - 0.05 m	Very dark greyish brown (10YR3/2-Moist); Very dark greyish brown (10YR3/2-Dry); , 10YR42, 2-10% , 5-15mm, Distinct; Light clay; Moderate grade of structure, 20-50 mm, Angular blocky; Earthy fabric; Moderately moist; Firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments;
A12p	0.05 - 0.2 m	Very dark greyish brown (10YR3/2-Moist); , 10YR64, 0-2% , 0-5mm, Distinct; Light medium clay; Weak grade of structure, 20-50 mm, Platy; Moderate grade of structure, 10-20 mm, Subangular blocky; Earthy fabric; Moderately moist; Very firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments;
A13g	0.2 - 0.65 m	Very dark greyish brown (10YR3/2-Moist); , 10YR63, 0-2% , 0-5mm, Distinct; , 10YR64, 0-2% , 0-5mm, Distinct; Medium clay; Weak grade of structure, 50-100 mm, Platy; Moderate grade of structure, 2-5 mm, Cast; 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), Nodules;
B2g	0.65 - 0.95 m	Strong brown (7.5YR4/6-Moist); , 10YR32, 10-20% , 5-15mm, Distinct; , 7.5YR64, 2-10% , 5-15mm, Prominent; Medium clay; Weak grade of structure, 100-200 mm, Angular 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), Nodules;

Morphological Notes

A11 All soil samples to I.P.L. Field profile R6. Inwashed sand continues for full depth of core. Very many fine roots evident at 20 cm. Weak pedality only, at 5-20 cm.

Observation Notes

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

Site Notes

Profile R6. Full easting, northing, elevation: 42370.74780.187.95m.

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Acidity		%
						Cmol (+)/kg			

0 - 0.05
0.05 - 0.2
0.2 - 0.65
0.65 - 0.95

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
		C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		

0 - 0.05
0.05 - 0.2
0.2 - 0.65
0.65 - 0.95

Depth	COLE	Gravimetric/Volumetric Water Contents							K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m					g/g - m ³ /m ³				mm/h	mm/h

0 - 0.05
0.05 - 0.2
0.2 - 0.65
0.65 - 0.95

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Laboratory Analyses Completed for this profile