Project Name: Project Code: Agency Name:	ED	il Studies in the Lower N GEROI Site ID: IRO Division of Soils (QI	ed234	0	bservatio	n ID:   ′	1				
Site Information											
Desc. By:	M. Ko	brevaar	Locality:		Departme Station	ent of Agr	riculture, Myall Vale Research				
Date Desc.: Map Ref.: Northing/Long.: Easting/Lat.:	66549	5/85 t No. : 8837_N 1:50000 900 AMG zone: 55 00 Datum: AGD66	Elevation: Rainfall: Runoff: Drainage:		200 metre No Data No Data No Data						
<u>Geology</u> ExposureType: Geol. Ref.:	Undis No D	sturbed soil core lata	Conf. Sub. is Pa Substrate Mate	a a							
Land Form Rel/Slope Class: Morph. Type: Elem. Type: Slope: Surface Soil Co	No D Terra 0 %		Pattern Type: Relief: Slope Category Aspect: ecently cultivated	No Data No Data Level No Data							
Erosion:		<u> </u>	,								
Soil Classificat	tion										
Australian Soil C		cation:	Prir	ncip	ng Unit: bal Profile		N/A Ug5.15				
ASC Confidence Confidence level		ecified	Gre	at	Soil Group	):	Grey clay				
		ultivation. Irrigated, past or pre	esent								
Vegetation:											
Surface Coarse	e Frag	ments:									
Profile Morpho							/				
A11p 0-0.12	m	heavy clay; Weak grade of s structure, 2-5 mm, Granular fine (0.075-1mm) macropore	Very dark greyish brown (10YR3/2-Moist); Very dark greyish brown (10YR3/2-Dry); ; Medium heavy clay; Weak grade of structure, 50-100 mm, Subangular blocky; Moderate grade of structure, 2-5 mm, Granular; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; Field pH 8.2 (pH meter); Few, fine (1-2mm) roots; Abrupt, Smooth change to -								
A12 0.12 - 0.	25 m	100 mm, Subangular blocky per 100mm2) Very fine (0.0	Very dark greyish brown (10YR3/2-Moist); ; Medium heavy clay; Weak grade of structure, 50- 100 mm, Subangular blocky; Smooth-ped fabric; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very firm consistence; Field pH 8.5 (pH meter); Common, fine (1-2mm) roots;								
A13 0.25 - 0.	55 m	Very dark brown (10YR2/2-Moist); ; Medium heavy clay; Weak grade of structure, 50-100 mm, Subangular blocky; Smooth-ped fabric; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Strong consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 8.5 (pH meter); Few, fine (1-2mm) roots;									
A14 0.55 - 1.	1 m	Very dark greyish brown (10YR3/2-Moist); ; Medium heavy clay; Weak grade of structure, 50- 100 mm, Subangular blocky; Smooth-ped fabric; Earthy fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very firm consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.7 (pH meter); Few, fine (1-2mm) roots; Diffuse, Smooth change to -									
B21 1.1 - 1.9	m	structure, 50-100 mm, Suba crack; Common (1-5 per 10) firm consistence; Very few (	Brown (10YR4/3-Moist); , N30, 2-10% , 0-5mm, Distinct; Medium heavy clay; Weak grade of structure, 50-100 mm, Subangular blocky; Earthy fabric; Smooth-ped fabric; Fine, (0 - 5) mm crack; Common (1-5 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very firm consistence; Very few (0 - 2 %), Calcareous, Medium (2 -6 mm), Nodules; Field pH 8.5 (pH meter); Few, very fine (0-1mm) roots;								
B22 1.9 - 2.9	7 m	Brown (10YR4/3-Moist); , N structure; Smooth-ped fabrie 1mm) macropores, Moderat Medium (2 -6 mm), Nodules	c; Fine, (0 - 5) mm tely moist; Firm co	n cr onsi	ack; Few (· stence; Ve	<1 per 10	00mm2) Very fine (0.075-				
Morphological	Notes	5									

Morphological Notes

Observation Notes Parent Rock: alluvial sediment, clay, second terraced fan, Namoi

Project Name:	Soil Studies in	n the Lower N	amoi Valley	
Project Code:	EDGEROI	Site ID:	ed234	C
Agency Name:	CSIRO Divisio	on of Soils (Q	LD)	

Observation ID: 1

## Site Notes

Height of cotton hill is 17 cm. Hole drilled on side of cotton hill. Cracks run perpendicular and parallel to furrows, crack measurements done on cotton hill.

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Agency Name:	CSIRO Divisio	n of Soils (C	QLD)	

## Laboratory Test Results:

Depth	рН	1:5 EC	Ex	changeabl	e Cations		Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	к	Na Cmol	Acidity (+)/kg			%
0 - 0.02	8.4A	0.143A	23.43B	12.52	1.53	0.95				
0 - 0.1	8.48A	0.124A	25.06B	21.15	1.35	0.77				
0.12 - 0.2	8.51A	0.093A	21.88B	22.12	1.22	0.92				
0.3 - 0.4	8.84A	0.126A	19.27B	25.78	0.77	2.01				
0.7 - 0.8	9.18A	0.255A	17.59B	28.55	0.71	4.9				
1.2 - 1.3	9.36A	0.336A	15.21B	28.56	0.66	5.95				
2.5 - 2.6	9.25A	0.392A	12.52B	29.8	0.55	6.19				

1

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	P	article	Size	Analysis	5
		С	Р	Р	N	к	Density	GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		-
0 - 0.02	<0.1B	1.29C									24.4	58.5
0 - 0.1	0.1B	1.16C	52.2J								24.4	55.4
0.12 - 0.2	0.1B	1.16C	42.8J								24.2	56.1
0.3 - 0.4	0.2B	0.93C	27.1J								25.1	58
0.7 - 0.8	1.2B	0.75C	47J								24.5	57.7
1.2 - 1.3	2.6B	0.37C	27.7J								26.6	53.5
2.5 - 2.6	2B	0.17C	19.4J								21	53.7
Donth			Crovin	notrio/Volu	umotrio W/	tor Contor			K	<b>a</b> t	Kunoo	

Depth	COLE		Grav	K sat	K unsat					
		Sat. 0	.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m			g/g - m3/m3							mm/h
0 - 0 02										

0 - 0.02 0 - 0.1 0.12 - 0.2 0.3 - 0.4 0.7 - 0.8 1.2 - 1.3 2.5 - 2.6

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Observation ID: 1

## Laboratory Analyses Completed for this profile