Site Information Desc. By: W.T. Ward Locality: Paul Owens, Old Edgeroi Date Desc.: 16/06/86 Elevation: 274 metres Map Ref.: Sheet No.: 8837_N 1:50000 Rainfall: No Data Northing/Long.: 6676900 AMG zone: 55 Runoff: No Data Easting/Lat.: 777700 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
ExposureType: Undisturbed soil core Conf. Sub. is Parent. Mat.: No Data
Land FormRel/Slope Class:No DataMorph. Type:No DataMorph. Type:No DataElem. Type:Terrace flatSlope:0 %Aspect:No Data
Surface Soil Condition (dry): Self-mulching, Recently cultivated
Erosion: Soil Classification
Australian Soil Classification:Mapping Unit:N/AN/APrincipal Profile Form:Ug5.15ASC Confidence:Great Soil Group:Brown clay
Confidence level not specified Site Disturbance: Cultivation. Rainfed
Vegetation: Surface Coarse Fragments:
Profile Morphology
A11p 0 - 0.1 m Dark brown (7.5YR3/2-Moist); Dark brown (7.5YR3/2-Dry); ; Medium clay; Moderate grade of structure, 2-5 mm, Granular; Moderate grade of structure, 2-5 mm, Angular blocky; Smooth-ped 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); Few, very fine (0-1mm) roots; Abrupt, Smooth change to -
A12 0.1 - 0.25 m Dark brown (7.5YR3/2-Moist); , 10YR53, 0-2% , 0-5mm, Distinct; Medium clay; Moderate grade of structure, 2-5 mm, Angular blocky; Moderate grade of structure, 2-5 mm, Granular; Smooth- ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very firm consistence; Field pH 9 (pH meter); Few, very fine (0-1mm) roots;
A13 0.25 - 0.55 m Dark reddish brown (5YR3/2-Moist); ; Medium heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; Field pH 9 (pH meter); Few, very fine (0-1mm) roots;
A14 0.55 - 1 m Dark reddish brown (5YR3/2-Moist); , 7.5YR64, 0-2% , 0-5mm, Faint; Medium heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Field pH 9 (pH meter); Few, very fine (0-1mm) roots; Gradual, Smooth change to -
B211 - 1.9 mReddish brown (5YR4/3-Moist); ; Medium heavy clay; Weak grade of structure, 20-50 mm, Angular blocky; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Firm consistence; Field pH 9 (pH meter);
B22 1.9 - 2.79 m Reddish brown (5YR4/3-Moist); , 7.5YR54, 2-10%, 5-15mm, Distinct; , N20, 0-2%, 0-5mm, Faint; Medium heavy clay; Moderate grade of structure, 50-100 mm, Lenticular; Smooth-ped fabric; Fine, (0 - 5) mm crack; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Moderately moist; Very firm consistence; Few (2 - 10%), Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 9 (pH meter);
Morphological Notes
A11p 10-20 inwashed fine sand. First metre is moist throughout. The 0-10 is possibly a recent surface wash on ? the redbrown terrace. Soft 7.5YR 6/4 carbonate (1ks2) below 160cm. B2 contains 5YR4/6 faunal casts in worm channels. Q. A brown soil
A12 of heavy texture. Observation Notes

Project Name:Soil Studies in the Lower Namoi ValleyProject Code:EDGEROISite ID:ed014Agency Name:CSIRO Division of Soils (QLD)

Observation ID: 1

Parent Rock: , , second (brown parna) terraced

Site Notes

Site is 15m north of drainage channel. Large gum to SE. Chart penetrometer like site 013.

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Laboratory Test Results:

Depth	pН	1:5 EC	Ex	changeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	C a	Mg	ĸ	Cmol (%
0 - 0.02	8.77A	0.16A	31.29B	15.03	1.38	0.93999 99				
0 - 0.1	8.47A	0.18A	27.37B	15.67	1.16	1.01				
0.1 - 0.2	8.84A	0.165A	27.82B	17.33	0.89	1.78				
0.3 - 0.4	9.06A	0.231A	25.11B	19.19	0.75	4.21				
0.7 - 0.8	9.34A	0.376A	19.74B	23.23	0.9	9.03000 1				
1.2 - 1.3	9.11A	0.79A	15.34B	24.53	1.2	11.05				
2.5 - 2.6	9.06A	0.916A	12.99B	25.46	0.97	10.41				

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	P	article	Size	Analysis	5
-		C	Р	Р	N	к	Density	GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		•
0 - 0.02	0.5B	1.15C									21.7	53.4
0 - 0.1	0.4B	1.27C	37.1J								14.8	50.1
0.1 - 0.2	0.3B	0.95C	16.9J								20.3	56.1
0.3 - 0.4	0.8B	0.79C	13.6J								18.9	57.6
0.7 - 0.8	1.4B	0.7C	25.2J								20.8	57.4
1.2 - 1.3	1.8B	0.29C	38J								22.9	59.4
2.5 - 2.6	3.4B	0.16C	16.6J								15.7	55.7

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 - m3/m3						mm/h	mm/h

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

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Laboratory Analyses Completed for this profile

15A2_CA	Exchangeable bases (Ca2+,Mg2+,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