Project Project Agency	Code: E	Soil Studies in the Lower N EDGEROI Site ID: CSIRO Division of Soils (Q	ed184 C	Observation ID:	1
Desc. By Date Des Map Ref Northing Easting/ Geolog	sc.: 23, .: Sh g/Long.: 66 /Lat.: 76	J. Smith /06/86 neet No. : 8837_N 1:50000 53600 AMG zone: 55 3400 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:	Peter Miller, Noe 215 metres No Data No Data No Data No Data	lurma
Exposur Geol. Re	ef.: No	ndisturbed soil core o Data	Conf. Sub. is Pare Substrate Materia		
Morph. 1 Elem. Ty Slope: <u>Surface</u> <u>Erosion</u>	De Class: No Type: No ype: Te 0 ° 2 Soil Cond 1:	ition (dry): Self-mulching, R	Pattern Type: Relief: Slope Category: Aspect: Recently cultivated	No Data No Data Very gently slope No Data	ed
-	assification				N 1/A
N/A ASC Co Confider	an Soil Class onfidence: nce level not	specified	Princ	oing Unit: Aipal Profile Form: Soil Group:	N/A Ug5.15 Grey clay
		Cultivation. Rainfed			
Vegetat Surface	e Coarse Fr	agments:			
	Morpholog				
A11p	0 - 0.08 m	2-5 mm, Granular; Earthy f	structure, 5-10 mm, S abric; Fine, (0 - 5) m ately moist; Weak cor	Subangular blocky; I m crack; Few (<1 p	72, 0-2% , 0-5mm, Distinct; Moderate grade of structure, er 100mm2) Very fine (0.075- 6.8 (pH meter); Common, very
A12	0.08 - 0.25 m	 Dark brown (10YR3/3-Mois blocky; Earthy fabric; Fine, macropores, Moderately m 	(0 - 5) mm crack; Fe	ew (<1 per 100mm2)) Very fine (0.075-1mm)
A13	0.25 - 0.55 m	n Dark brown (7.5YR3/2-Moi: Angular blocky; Earthy fabr 1mm) macropores, Modera (0-1mm) roots;	ric; Fine, (0 - 5) mm o	crack; Few (<1 per	100mm2) Very fine (0.075-
A14	0.55 - 1 m	Dark brown (7.5YR3/2-Moi grade of structure, 20-50 m per 100mm2) Very fine (0.0 Very few (0 - 2 %), Calcare (0-1mm) roots;	nm, Angular blocky; E 075-1mm) macropore	Earthy fabric; Fine, (es, Moderately mois	0 - 5) mm crack; Few (<1
A15	1 - 2 m		nm, Angular blocky; E) macropores, Mode - 2 mm), Nodules; V	Earthy fabric; Fine, (rately moist; Very fin /ery few (0 - 2 %), C	0 - 5) mm crack; Few (<1 m consistence; Very few (0 Calcareous, Fine (0 - 2 mm),
B2	2 - 2.74 m	Dark brown (10YR3/3-Mois grade of structure, 20-50 m blocky; Smooth-ped fabric; macropores, Moderately m (0 - 2 mm), Nodules; Field	nm, Prismatic; Moder Fine, (0 - 5) mm cra oist; Very strong con	rate grade of structu ick; Few (<1 per 100	0mm2) Fine (1-2mm)
Morpho	ological Not	tes One fragment of 0.0 shows	and alin Developed		

A11p

One fragment of 0-8 shows sand skin ?surface crust. Lime nodules start at 60cm. 70-80 has brownish tint coating aggregates. Carbonate at 150 has coat of manganese. At 110 is inwashed sand in worm burrow. Note depth of A horizon over B. Tops

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oil is brownish to 50cm and then is grey, suggesting possibility of burial.

Observation Notes

Parent Rock: alluvial sediment, mixed texture, with lime, parna on third fan

Site Notes

A12

Rough cultivated surface, so no handpen or shearvane. Surface has a brown appearance. Wheat planted into cultivated

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Laboratory Test Results:

Depth	рН	1:5 EC		changeabl			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	к	Na Cmol	Acidity (+)/kg			%
0 - 0.02	7.4A	0.087 <i>A</i>	10.51B	12.35	1.29	1.24				
0 - 0.08	7.04A	0.129A	9.3B	15.76	1.36	1.41				
0.1 - 0.2	7.53A	0.1A	13.15B	17.88	0.84	2.07				
0.3 - 0.4	9.06A	0.235A	13.23B	19.9	0.4	3.52				
0.7 - 0.8	9.27A	0.349A	11.83B	25.13	0.6	6.5				
1.2 - 1.3	9.16A	0.387 <i>F</i>	14.03B	25.67	0.78	5.51				
2.5 - 2.6	9.24A	0.335A	8.89B	26.58	0.77	4.82				

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Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	P	article	Size	Analysi	5
	0/	C	Р	P	N	ĸ	Density	GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.02	<0.1B	1.39C									20.9	36.5
0 - 0.08	<0.1B	1.25C	34J								20.2	38.4
0.1 - 0.2	<0.1B	1.02C	10.8J								18.2	43.8
0.3 - 0.4	0.7B	0.81C	2.7J								19.6	39.6
0.7 - 0.8	2.4B	0.47C	17.9J								19.8	50.9
1.2 - 1.3	3.5B	0.4C	10.3J								19.9	53
2.5 - 2.6	1.1B	0.14C	4.9J								20.9	49.7

Depth	COLE	Gravimetric/Volumetric Water Contents							K sat	K unsat
m		Sat.	0.05 Bar		0.5 Bar /g - m3/m3		5 Bar	15 Bar	mm/h	mm/h

0 - 0.02 0 - 0.08 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