Projec	et Name: et Code: ey Name:	ED	il Studies in the Lower N GEROI Site ID: IRO Division of Soils (QI	ed076	Ob	oservatio	on ID: 🤺	1	
<u>Site In</u> Desc. E Date De			Roberts /85	Locality: Elevation:		P.C.S.(Pe 203 metre	,	Douall, Bald Hill	
Map Re Northir Easting	ng/Long.:	66680	t No. : 8837_N 1:50000 000 AMG zone: 55 00 Datum: AGD66	Rainfall: Runoff: Drainage:		No Data No Data No Data			
<u>Geolo</u> Exposi Geol. R	ureType:	Undis No Da	sturbed soil core ata	Conf. Sub. is P Substrate Mate			No Data No Data		
Morph. Elem. 1 Slope:	ope Class: Type: Type:	0 %	ata ce plain	Pattern Type: Relief: Slope Category Aspect:	y:	No Data No Data Level No Data			
	e Soil Co	onditic	on (dry): Self-mulching, Ro	ecently cultivated					
<u>Erosic</u> Soil C	<u>on:</u> Iassificat	ion							
	lian Soil C		cation:	Ма	ppin	ng Unit:		N/A	
N/A						al Profile		Ug5.15	
	confidence		ecified	Gre	eat S	Soil Group):	Brown clay	
		<u>:e:</u> Cu	Itivation. Rainfed						
Vegeta Surfac	<u>ation:</u> ce Coarse	Frag	mente						
	e Morphol		menta.						
A11p	0 - 0.08 r		Very dark greyish brown (10 clay; Weak grade of structur Sandy (grains prominent) fa fine (0.075-1mm) macroport Few, very fine (0-1mm) root	re, <2 mm, Granu bric; Medium, (5 es, Moderately m	ular; - 10) oist;	Single gra) mm cracl Weak cor	in grade k; Comm	of structure; Earthy fabric; on (1-5 per 100mm2) Very	
A12	0.08 - 0.2	25 m	Very dark greyish brown (10 mm, Lenticular; Moderate g Medium, (5 - 10) mm crack; Moderately moist; Strong co fragments; Very few (0 - 2 % Few, very fine (0-1mm) root	rade of structure, Common (1-5 pe onsistence; 0-2%, 6), Calcareous, F	2-5 er 10 , fine	mm, Suba 0mm2) Ve gravelly, 2	angular bl ery fine (0 2-6mm, r	ocky; Smooth-ped fabric;).075-1mm) macropores, ounded, Quartz, coarse	
A13k	0.25 - 0.6	6 m	Very dark greyish brown (10 clay; Moderate grade of stru 10 mm, Angular blocky; Sm fine (0.075-1mm) macropore 6mm, rounded, Quartz, coa Nodules; Field pH 9 (pH me	icture, 20-50 mm ooth-ped fabric; F es, Moderately m rse fragments; Ve	, Anę ⁼ine, oist; ery fe	gular block (0 - 5) mn Very firm ew (0 - 2 %	ky; Moder n crack; f consister 6), Calca	rate grade of structure, 5- Few (<1 per 100mm2) Very nce; 0-2%, fine gravelly, 2- reous, Medium (2 -6 mm),	
B21k	0.6 - 1 m		Brown (7.5YR4/2-Moist); , 1 grade of structure, 50-100 n blocky; Smooth-ped fabric; I macropores, Moderately m mm), Nodules; Very few (0 Few, very fine (0-1mm) root	nm, Lenticular; M Fine, (0 - 5) mm c oist; Firm consist - 2 %), Gypseous	oder crack tence	ate grade k; Few (<1 e; Few (2 -	of structu per 100r 10 %), 0	ure, 5-10 mm, Angular nm2) Very fine (0.075-1mm Calcareous, Medium (2 -6	,
B22k	1 - 1.9 m		Brown (7.5YR4/2-Moist); , 1 Distinct; Medium clay; Weal of structure, 2-5 mm, Angula Few (<1 per 100mm2) Very Few (2 - 10 %), Calcareous (0 - 2 mm), Crystals; Field p	k grade of structu ar blocky; Smooth fine (0.075-1mm , Medium (2 -6 m	re, 2 n-peo) ma m), î	20-50 mm, d fabric; Ea cropores, Nodules; V	Subangu arthy fabi Moderate /ery few (ular blocky; Moderate grade ric; Fine, (0 - 5) mm crack; ely moist; Firm consistence (0 - 2 %), Gypseous, Fine	

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B23k 1.9 - 2.7 m
Brown (7.5YR4/2-Moist); 7.5YR56, 2-10%, 5-15mm, Distinct; , 10YR81, 0-2%, 0-5mm, Distinct; Medium clay; Moderate grade of structure, 5-10 mm, Lenticular; Moderate grade of structure, 5-10 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; Few (2 - 10%), Ferruginous, Medium (2 -6 mm), Veins; Very few (0 - 2%), Calcareous, Fine (0 - 2 mm), Nodules; Field pH 8.7 (pH meter);

Morphological Notes

Small sandy patches at 30cm only 1-2cm wide.

Observation Notes

Parent Rock: alluvial sediment, clay, parna on fourth fan

Site Notes

Sorghum follows wheat. Pieces of basaltic rock said to come from Bald Hill are visible on the surface, mean cross section is

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Laboratory Test Results:

Depth	рН	1:5 EC	Ex	changeabl			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	к	Na Cmol (Acidity (+)/kg			%
0 - 0.02	7.7A	0.068A	18.77B	9.74	1.77	0.64				
0 - 0.08	8.08A	0.108A	21.39B	10.8	1.59	1.05				
0.1 - 0.2	8.52A	0.116A	22.43B	10.75	1.02	1.58				
0.3 - 0.4	9.12A	0.174A	22.28B	12.01	0.72	3.66				
0.7 - 0.8	7.97A	2.05A	21.62B	12.47	0.96	7.28				
1.2 - 1.3	8.81A	0.8A	21.94B	15.55	1.41	8.95				
2.5 - 2.6	8.8A	0.617 <i>A</i>	20.78B	15.06	1.27	8.80999 9				

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Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Pa	article	Size	Analysis	6
m	%	С %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	CS	FS %	Silt	Clay
0 - 0.02	<0.1B	0.84C									18.8	46.1
0 - 0.08	0.1B	0.87C	10.5J								17.8	43.2
0.1 - 0.2	0.4B	0.55C	4.4J								18.1	45.1
0.3 - 0.4	1.3B	0.41C	1.4J								18	45.5
0.7 - 0.8	1B	0.34C	1.9J								19.3	48.2
1.2 - 1.3	0.8B	0.13C	7.4J								17.5	56.1
2.5 - 2.6	0.1B	0.05C	3.6J								16.2	57.6

	Gravimetric/Volumetric Water Contents					
Sat. 0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar 15 Bar m g/g - m3/m3 mm/h mm		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 Clay (%) - Coventry and Fett pipette method P10_CF_Z Silt (%) - Coventry and Fett pipette method