Project Name:	BAGO-MARAG	LE FORES	SOIL SURVEY	,	
Project Code:	BGM_FSS	Site ID:	0084	Observation ID:	1
Agency Name:	CSIRO Divisio	n of Soils (A	NCT)		

Site Information

Desc. Date I Map R North	Desc.: Ref.: ing/Long.: ng/Lat.:	P. Ryan 13/03/96 Sheet No. : 8526 DGPS		Locality: Elevation: Rainfall: Runoff: Drainage:	tion: 1242 metres all: No Data ff: No Data				
	sureType:	Soil pit Sgg		Conf. Sub. is Parent. M Substrate Material:			Probab Schist	le	
Rel/SI Morph Elem. Slope	:	No Data Mid-slope Hillslope 20 %		Pattern Typ Relief: Slope Cate Aspect:		No Data			
<u>Surfa</u> Erosi	<u>ce Soil Co</u> on:	onditio	on (dry): Firm						
Soil C	Classificati	ion							
Acidic	alian Soil Cl Magnesic R Damy Clayey	ed Ka	ndosol Medium Slightly gravel	ly		ng Unit: bal Profile	Form:	N/A Um7.11	
ASC	Confidence	:	data are available.		Great	Soil Group):	Red earth	
	,		effective disturbance other th	nan grazing b	y hoofe	d animals			
Vege	tation:			0 0					
<u>Surfa</u> tabular,		Frag	ments: 10-20%, fine gravel	ly, 2-6mm, ai	ngular ta	abular, Coa	l; 10-209	%, medium gravelly, 6-20mm, angular	
Profil	e Morphol	ogy							
01	0 - 0.04 n	n Organic Layer; ;							
A1	0.04 - 0.1	17 m	Dark reddish brown (5YR3/2-Moist); Biological mixing, 5YR44, 2-10%, Faint; Clay loam; Strong grade of structure, 2-5 mm, Polyhedral; 5-10 mm, Polyhedral; Rough-ped fabric; Moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, subrounded tabular, coarse fragments; Field pH 5.5 (Raupach); Common, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Few, medium (2-5mm) roots; Clear, Smooth change to -					h-ped fabric; Moist; Firm se fragments; Field pH 5.5	
A3	0.17 - 0.3	31 m	Dark reddish brown (5YR3/3-Moist); Mechanical, 2.5YR46, 10-20%, Distinct; Light clay; Strong grade of structure, 2-5 mm, Polyhedral; 5-10 mm, Polyhedral; Rough-ped fabric; Moist; Firm consistence; 10-20%, fine gravelly, 2-6mm, subangular, Coal, coarse fragments; Field pH 5.5 (Raupach); Common, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Common, medium (2-5mm) roots; Few, coarse (>5mm) roots; Clear, Irregular change to -						
B21	0.31 - 0.5	54 m	Dark red (2.5YR3/6-Moist); Biological mixing, 5YR33, 2-10%, Distinct; Light clay; Massive grade of structure; Earthy fabric; Moist; Firm consistence; 0-2%, medium gravelly, 6-20mm, subangular tabular, coarse fragments; 0-2%, fine gravelly, 2-6mm, angular tabular, Coal, coarse fragments; Field pH 4.5 (Raupach); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Diffuse, Smooth change to -						
B22	0.54 - 0.8	39 m	Dark red (2.5YR3/6-Moist); ; Clay loam; Massive grade of structure; Earthy fabric; Moist; Firm consistence; Field pH 4.5 (Raupach); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Clear, Irregular change to -						
BC	0.89 - 1.1	4 m	Dark red (2.5YR3/6-Moist); ; Clay loam; Massive grade of structure; Earthy fabric; Moist; Weak consistence; 20-50%, medium gravelly, 6-20mm, angular tabular, coarse fragments; Field pH 4.5 (Raupach); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots;				parse fragments; Field pH		
<u>Morp</u> A1	hological	Notes	Pedal structure due to faunal	activity.					
A3 B21			Structure due to casting. Dist Structure and faunal activity		l mixing	evident in	boundary	y topography.	

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BC

In situ weathering schist substrate is probably Ordovician metasediments although this outcrop is not mapped.

Observation Notes

Broad open hillslope. PM is schistose so possibly Os, not Sgg.

Site Notes

COMP117H, BRG233D 450M FROM RD

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Laboratory Test Results:

Depth	рН	1:5 EC			e Cations		Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca l	Иg	к	Na Cmol (+	Acidity)/kg			%
0 - 0.04										
0.04 - 0.17	4.23C		3.65H	1.48	0.81	0.04	4.09J 0K		10.06E	
0.17 - 0.31	4.17C		1.76H	1.22	0.71	0.02	3.44J 0K		7.16E	
0.31 - 0.54	3.98C		0.45H	0.69	0.62	0.02	4.24J 0K		6.02E	
0.54 - 0.89	3.92C		0.05H	0.34	0.51	0.02	4.34J 0K		5.16E	
0.89 - 1.14	3.96C		0.05H	0.36	0.44	0.01	3.29J 0K		4.06E	
Depth	CaCO3	Organic	Avail.	Total	Total		Bulk	Parti		Analysis
m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV (CS FS %	Silt Clay
0 - 0.04 0.04 - 0.17		4.94B		332B	0.1	0.4	0.91	32.41		
0.04 - 0.17		4.94B 3.04B		294.1E	-	-	1.20	32.41		
0.31 - 0.54		1.14B		254.7E	-		1.40	34.18		
0.54 - 0.89		0.35B		199.5E	3 0.0	4A	1.27	26.27		
0.89 - 1.14		0.24B		232.1E	3 0.0	3A		35.71		
Depth	COLE	_	Grav	imetric/Vo	olumetric	Water Con	tents	_	K sat	K unsat

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	3			mm/h	mm/h

0 - 0.04
0.04 - 0.17
0.17 - 0.31
0.31 - 0.54
0.54 - 0.89

0.89 - 1.14

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Laboratory Analyses Completed for this profile

15_NR 15E1_AL 15E1_CA 15E1_H 15E1_K 15E1_MG 15E1_NA 2A1 4B2 6B2 7A2 9A3 P10_GRAV	Sum of Ex. cations + Ex. acidity - Not recorded Exchangeable AI - by compulsive exchange, no pretreatment for soluble salts Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Air-dry moisture content pH of 1:5 soil/0.01M calcium chloride extract - following Method 4A1 Total organic carbon - high frequency induction furnace, volumetric Total nitrogen - semimicro Kjeldahl , automated colour Total Phosphorus (ppm) - semimicro kjeldahl, automated colour Gravel (%)
•••••	1 1 1 2 1