Project Name:	BAGO-MARAG	LE FORES	SOIL SURVEY		
Project Code:	BGM_FSS	Site ID:	0085	Observation ID:	1
Agency Name:	CSIRO Division	n of Soils (A	CT)		

Site Information

Site In	formation	<u>n</u>								
Desc. E	•	P. Ry		Locality:						
Date D		14/03		Elevation:		1144 metres				
Map Re			t No. : 8526 DGPS	Rainfall:		No Data				
Easting	ng/Long.:		439 AMG zone: 55 41 Datum: AGD66	Runoff: Drainage:		No Data Well drai	nod			
		01034	T Datum. AGD00	Diamaye.		Weilulai	neu			
<u>Geolo</u>	<u>qy</u> ureType:		ata	Conf Sub	ic Doro	nt Moti	No Dat			
Geol. R		No Da Tb	ala		Conf. Sub. is Parent. Mat.: Substrate Material:		Schist	a		
		10		Substrate	Wateria	•	Schist			
Land I				.						
	pe Class:			Pattern Ty	/pe:	No Data				
Morph. Elem. 1		Mid-s Hillslo	•	Relief:	ogory	No Data No Data				
Slope:	i ype.	14 %	•	Aspect:						
-	e Soil Co			Aspeet.		roo acgi	000			
		manue	<u>on (ary).</u> Thin							
Erosic		_								
<u>Soil C</u>	lassificati	ion								
Austra	lian Soil Cl	lassific	cation:		Mappi	ng Unit:		N/A		
Acidic [Dystrophic I	Red Ka	andosol Thin Slightly gravelly	Clay-	Princip	pal Profile	Form:	Gn2.14		
loamy (Clayey Very	/ deep	0,00,0		-					
ASC C	onfidence	:			Great	Soil Group	o:	Red podzolic soil		
All nec	essary ana	lytical of	data are available.			-		·		
Site D	isturbanc	:e: No	effective disturbance other the	han grazing	by hoofe	d animals				
Vegeta	ation:									
		Frag	ments: 2-10%, fine gravelly	v. 2-6mm. ar	ngular. C	oal				
	e Morphol			, , _ . , .	.g, -					
			Organia Lavar:							
01	0 - 0.01 n	n	Organic Layer; ;							
A1	0.01 - 0.0)6 m	Very dark greyish brown (10YR3/2-Moist); Biological mixing, 7.5YR43, 10-20%, Faint; Clay loam; Moderate grade of structure, 5-10 mm, Polyhedral; 2-5 mm, Polyhedral; Rough-ped fabric; Moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, angular, Coal, coarse fragments; Field pH 4.5 (Raupach); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Common, medium (2-5mm) roots; Abrupt, Smooth change to -							
A2	0.06 - 0.1	19 m	of structure, 5-10 mm, Angu	ular blocky; 2 upach); Few	2-5 mm, I /, very fir	Polyhedral	Rough-	nt; Light clay; Moderate grade ped fabric; Moist; Firm Few, fine (1-2mm) roots; Few,		
B1	0.19 - 0.3	32 m	Brown (7.5YR4/4-Moist); Bi Distinct; Light clay; Moderat Polyhedral; Rough-ped fabr tabular, Coal, coarse fragme Smooth change to -	te grade of s ric; Moist; Fir	tructure, m consis	5-10 mm, stence; 0-2	Subangu %, fine g	ular blocky; 2-5 mm,		
B21	0.32 - 0.6	68 m	Yellowish red (5YR4/6-Mois Rough-ped fabric; Moist; Fin fragments; Field pH 4.5 (Ra	rm consisten	ce; 2-10	%, fine gra	velly, 2-6	6mm, subangular, coarse		
B22	0.68 - 1.5	56 m		Medium san -20%, fine g	ndy clay l	oam; Mass	sive grad	% , Faint; Biological mixing, le of structure; Earthy fabric; , coarse fragments; Field pH		
B3	1.56 - 2.7	76 m	Strong brown (7.5YR4/6-Mo prominent) fabric; Moist; Ve tabular, coarse fragments; F	ry weak con	sistence	; 10-20%, f	ine grav			
С	2.76 - 3.0)1 m	Yellowish brown (10YR5/4-I (grains prominent) fabric; M subangular tabular, coarse f	loist; Very we	eak cons	istence; 10)-20%, m			
Morph	ological	Notes								
A1			Thinness of horizon and low	organic mat	ter conte	ent would ir	ndicate d	listurbance post fire.		
				0						

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B22

Increase in small gravel content derived from schist. Individual sand grains are rounded.

Observation Notes

Site stand diameter classes indicate major fire 25 years ago. Soil PM is not basalt. Substrate is schist, Os metasediment.

Site Notes

4895-1 220D 200M FROM RD,COMP 119H

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Laboratory Test Results:

Depth	рН	1:5 EC	Ex(Ca	changeabl Mg	e Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ga	wg	n	Cmol				%
0 - 0.01										
0.01 - 0.06	4.14C		4.45H	0.96	0.58	0.03	4.54J 0K		10.56E	
0.06 - 0.19	4.23C		1.21H	0.78	0.32	0.02	2.47J 0K		4.81E	
0.19 - 0.32	4.27C		1.64H	1.24	0.27	0	2.03J 0K		5.18E	
0.32 - 0.68	4.15C		1.16H	1.21	0.3	0.02	2.64J 0K		5.32E	
0.68 - 1.56	4.07C		0.37H	0.47	0.18	0	2.42J 0K		3.44E	
1.56 - 2.76	4.14C		0.26H	0.44	0.07	0.02	1.11J 0K		1.9E	
2.76 - 3.01	4.25C		0.32H	0.49	0.08	0.01	0.63J 0K		1.54E	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density		ticle Size CS FS	Analysis Silt Clay
m	%	%	mg/kg	Р %	%	%	Mg/m3	94	%	Sint Ciay
0 - 0.01										
0.01 - 0.06		6.5B		1785.9B	0.24A		0.87	22.46		
0.06 - 0.19		1.58B		1452B	0.1A		1.33	29.96		
0.19 - 0.32		1.13B		1132.6B	0.08A		1.25	31.55		
0.32 - 0.68		0.41B		678.3B	0.05A		1.35	31.7		
0.68 - 1.56		0.14B		587.9B	0.02A		1.65	20.24		
1.56 - 2.76		0.09B		434.5B	0.02A			15.91		
2.76 - 3.01		0.06B		335.6B	0.01A			19.36		
Dawth			0	imetric/Volu		0			Kaat	Kunnat
Depth	COLE	S - 4						Ber	K sat	K unsat
m		Sat.	0.05 Bar		.5 Bar 1 m3/m3	Bar	5 Bar 15	5 Bar	mm/h	mm/h
0 - 0.01										

0.01 - 0.06 0.06 - 0.19 0.06 - 0.19 0.19 - 0.32 0.32 - 0.68 0.68 - 1.56 1.56 - 2.76 2.76 - 3.01

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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 <i>1 1</i>
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