Project Name:	BAGO-MARAG	LE FORES	SOIL SURVEY		
Project Code:	BGM_FSS	Site ID:	0044	<b>Observation ID:</b>	1
Agency Name:	CSIRO Division	n of Soils (A	CT)		

### Site Information

Desc. I Date D Map Re Northin Eastin Geolo	esc.: ef.: ng/Long.: g/Lat.: <u>QV</u> ureType:	P. Ryan 13/03/96 Sheet No. : 8526 DGPS 6040005 AMG zone: 55 615167 Datum: AGD66 No Data Tb	Locality: Elevation: Rainfall: Runoff: Drainage: Conf. Sub. is Pare Substrate Materia				
Morph Elem. Slope:	ope Class: . Type: Type:	No Data Crest Hillcrest 1 %	Pattern Type: Relief: Slope Category: Aspect:	No Data No Data No Data 0 degrees			
		ndition (dry): Firm					
<u>Erosic</u> Soil C	lassificati	on					
<b>Austra</b> Haplic	lian Soil Cl	assification: ed Ferrosol Medium Slightly grave		ng Unit: pal Profile Form:	N/A Gn3.21		
ASC C	Confidence		Great	Soil Group:	Chocolate soil		
		lytical data are available. <u>e:</u> No effective disturbance other	than grazing by hoofe	ed animals			
Veget	ation:						
		Fragments:					
01	e Morphol 0 - 0.01 r						
A1	0.01 - 0.1	grade of structure, 2-5 mm moist; Very weak consiste Field pH 4.5 (Raupach); M	Dark reddish brown (5YR3/2-Moist); Biological mixing, 10YR44, 2-10%, Faint; Loam; Strong grade of structure, 2-5 mm, Polyhedral; 5-10 mm, Polyhedral; Rough-ped fabric; Moderately moist; Very weak consistence; 2-10%, fine gravelly, 2-6mm, subrounded, coarse fragments; Field pH 4.5 (Raupach); Many, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Common, medium (2-5mm) roots; Common, coarse (>5mm) roots; Clear, Wavy change to -				
B21	0.14 - 0.4	Moderate grade of structur fabric; Moderately moist; V fragments; Field pH 6 (Rau	Dark reddish brown (5YR3/4-Moist); Biological mixing, 7.5YR32, 2-10%, Faint; Clay loam; Moderate grade of structure, Subangular blocky; 10-20 mm, Subangular blocky; Rough-ped fabric; Moderately moist; Weak consistence; 2-10%, fine gravelly, 2-6mm, subrounded, coarse fragments; Field pH 6 (Raupach); Common, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Few, medium (2-5mm) roots; Few, coarse (>5mm) roots; Clear, Smooth change to -				
B22	0.4 - 0.56	blocky; 5-10 mm, Polyhed fine gravelly, 2-6mm, subro coated, faint; Field pH 5.5	Dark brown (7.5YR3/4-Moist); ; Light clay; Moderate grade of structure, 10-20 mm, Subangular blocky; 5-10 mm, Polyhedral; Rough-ped fabric; Moderately moist; Weak consistence; 10-20%, fine gravelly, 2-6mm, subrounded, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Field pH 5.5 (Raupach); Common, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Gradual, Irregular change to -				
B23	0.56 - 0.7	blocky; 2-5 mm, Polyhedra fine gravelly, 2-6mm, subro	Dark brown (7.5YR3/4-Moist); ; Light clay; Strong grade of structure, 10-20 mm, Subangular blocky; 2-5 mm, Polyhedral; Smooth-ped fabric; Moderately moist; Firm consistence; 20-50%, fine gravelly, 2-6mm, subrounded, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, distinct; Field pH 5.5 (Raupach); Few, very fine (0-1mm) roots; Gradual, Tongued change to -				
B3	0.78 - 1.3	blocky; 2-5 mm, Polyhedra gravelly, 6-20mm, subrour	al; Smooth-ped fabric; nded tabular, coarse fr	Moist; Firm consiste agments; Common			
Morphological Notes A1 Strong aggregration gives sub-plasticfeatures. Possibly colluvial origin.							
A1 B21		Strong aggregration gives s A light, friable layer which r colluvial origin.					

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- Texture and consistence increase gravel content also increases indicating less disturbance. B22 B23 Basalt floaters common in this layer.

В3

Auger stopped by floaters, layer could continue.

### **Observation Notes**

Basalt pm has a near - pisolithic structure producing common small gravel.

### Site Notes

COMP1174H 9356-1,316D 240M fr 9602-1

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## Laboratory Test Results:

Depth	рН	1:5 EC		hangeable		Na	Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Vlg	К	Na Cmol (	Acidity +)/kg			%
0 - 0.01										
0.01 - 0.14	4.31C		2.96H	1.37	0.89	0.05	5.39J 0K		10.66E	1
0.14 - 0.4	4.78C		2.34H	1.51	0.68	0.03	0.93J 0K		5.49E	
0.4 - 0.56	5.03C		3.74H	2.89	1.33	0.02	0.2J 0K		8.18E	
0.56 - 0.78	4.84C		3.35H	3.27	1.3	0.04	0.45J 0K		8.42E	
0.78 - 1.36	4.63C		3.35H	2.76	0.88	0.17	0.98J 0K		8.14E	
Depth	CaCO3	Organic	Avail.	Total	Total	Tota	al Bulk	Par	ticle Size	Analysis
		c	Р	Р	Ν	к	Density	GV	CS FS	Silt Clay
m	%	%	mg/kg	%	%	%	Mg/m3		%	
0 - 0.01										
0.01 - 0.14		8.45B		4742.9E		-	0.68	37.37		
0.14 - 0.4		2.98B		3952.3E	-		1.08	15.88		
0.4 - 0.56		0.75B		3661.8E		-	1.01	28.63		
0.56 - 0.78		0.64B		3546.7E				36.19		
0.78 - 1.36		0.38B		3099.4E	3 0/	Ą		34.71		
Depth	COLE		Grav	imetric/Vo	lumetric \	Water Co	ntents		K sat	K unsat
m		Sat.	0.05 Bar		0.5 Bar g - m3/m	1 Bar 13	5 Bar 15	Bar	mm/h	mm/h

m 0 - 0.01 0.01 - 0.14 0.14 - 0.4 0.4 - 0.56 0.56 - 0.78 0.78 - 1.36

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### Laboratory Analyses Completed for this profile

13C1_AL	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
15_NR	Sum of Ex. cations + Ex. acidity - Not recorded
15E1_AL	Exchangeable AI - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble
15E1_H	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_K	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MG	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
2A1	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
4B2	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
6B2	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
7A2	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
9A3	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
P10_GRAV	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
P10_S_0.48	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
P10_S_1	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
P10_S_125	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
P10_S_125	Exchangeable bases, cec and AEC by compulsive exchange, no pretreatment for soluble salts
P10_S_2	Exchangeable bases, cec and AEC by compulsive exchange, no pretreatment for soluble salts
P10_S_20	Exchangeable bases, cec and AEC by compulsive exchange, no pretreatment for soluble salts
P10_S_200	Air-dy moisture content
P10_S_250	pH of 1:5 soil/0.01M calcium chloride extract - following Method 4A1
P10_S_31.2	Total organic carbon - high frequency induction furnace, volumetric
P10_S_31.2	Total Phosphorus (ppm) - Sedigraph
P10_S_500	15.6 micron (cumulative %) - Se
P10_S_53	53 micron (cumulative %) - Sedigraph
P10_S_63	63 micron (cumulative %) - Sedigraph
P10_S_7.8	7.8 micron (cumulative %) - Sedigraph
P3A1	Bulk density - g/cm3