Project Name:	BAGO-MARAGI	E FOREST	SOIL SURVEY		
Project Code:	BGM_FSS	Site ID:	0033	Observation ID:	1
Agency Name:	CSIRO Division	of Soils (A	CT)		

Site Information

Desc. Date I Map R Northi	Desc.: Ref.: ing/Long.: ng/Lat.:	P. Ryan 24/11/95 Sheet No. : 8526 DGPS 6034931 AMG zone: 55 617481 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:	1130 metres No Data No Data Well drained			
	sureType:	Soil pit Os	Conf. Sub. is Pare Substrate Materia		Probable Sandstone		
Rel/SI Morph Elem. Slope		No Data Mid-slope Hillslope 43 %	Pattern Type: Relief: Slope Category: Aspect:	No Data No Data No Data 90 degrees			
Erosi		ndition (dry): Loose, Other al, Minor (sheet) on					
Austra Melaci	alian Soil Cl ic Magnesic	assification: Red Kandosol Medium Moderatel		ng Unit: pal Profile Form:	N/A Gn2.11		
ASC All ne	,	lytical data are available.		Soil Group:	Red earth		
Veget	tation:	e: No effective disturbance. Natu Fragments: 10-20%, , , Sands					
<u>Profil</u>	e Morphol	ogy					
O1 A11	0 - 0.06 n 0.06 - 0.2	27 m Black (5YR2.5/1-Moist); ; Rough-ped fabric; Modera subrounded, Sandstone, c	Black (5YR2.5/1-Moist); ; Medium sandy clay loam; Weak grade of structure, 2-5 mm, Granular; Rough-ped fabric; Moderately moist; Loose consistence; 20-50%, medium gravelly, 6-20mm, subrounded, Sandstone, coarse fragments; Field pH 4.5 (Raupach); Abundant, very fine (0- 1mm) roots; Many, fine (1-2mm) roots; Few, medium (2-5mm) roots; Abrupt, Smooth change to -				
A12	0.27 - 0.3	Strong grade of structure, Moist; Weak consistence; coarse fragments; Field pl	Black (5YR2.5/1-Moist); Biological mixing, 5YR33, 10-20%, Faint; Medium sandy clay loam; Strong grade of structure, 2-5 mm, Polyhedral; 5-10 mm, Subangular blocky; Rough-ped fabric; Moist; Weak consistence; 10-20%, medium gravelly, 6-20mm, rounded tabular, Sandstone, coarse fragments; Field pH 5 (Raupach); Many, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Few, medium (2-5mm) roots; Gradual, Wavy change to -				
A13	0.39 - 0.6	Moderate grade of structu consistence; 20-50%, meo fragments; Few cutans, <	Dark reddish brown (5YR3/2-Moist); Biological mixing, 5YR44, 10-20%, Faint; Clay loam, sandy; Moderate grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Moist; Weak consistence; 20-50%, medium gravelly, 6-20mm, subrounded tabular, Sandstone, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Field pH 5 (Raupach); Common, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Clear, Irregular change to -				
B1	0.6 - 0.81	clay; Weak grade of struct consistence; 10-20%, med	Reddish brown (2.5YR4/4-Moist); Biological mixing, 5YR32, 2-10%, Distinct; Medium sandy clay; Weak grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Moist; Weak consistence; 10-20%, medium gravelly, 6-20mm, subrounded tabular, Sandstone, coarse fragments; Field pH 5 (Raupach); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Gradual, Irregular change to -				
B2	0.81 - 1.3	consistence; 10-20%, coa	Red (2.5YR4/6-Moist); ; Light clay; Massive grade of structure; Earthy fabric; Moist; Weak consistence; 10-20%, coarse gravelly, 20-60mm, subrounded tabular, Sandstone, coarse fragments; Field pH 5 (Raupach); Few, fine (1-2mm) roots; Clear change to -				
	hological l						
A11		Loose colluvial layer.					
A12 A13		Coherent A horizon, may b Organic layer infilling an ol					

A13 Organic layer infilling an old root channel?

Observation Notes

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Surface disturbance by lyrebird scratching. Terracettes of litter and soil along slope. Lyrebird mounds below plot. Site Notes

COMP 7H,2083-1,104D,400M FROM RD CRES

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Laboratory Test Results:

Depth	рН	1:5 EC		hangeable			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca I	Mg	к	Na Cmol (Acidity +)/kg			%
0 - 0.06										
0.06 - 0.27	4.32C		5.25H	1.07	0.62	0.01	3.06J 0K		10.01E	1
0.27 - 0.39	4.21C		0.52H	0.37	0.38	0.02	3.36J 0K		4.65E	
0.39 - 0.6	4.24C		0.16H	0.48	0.32	0.04	2.61J 0K		3.61E	
0.6 - 0.81	4.32C		он	0.57	0.33	0	1.43J 0K		2.32E	
0.81 - 1.36	4.12C		ОH	0.61	0.32	0	1.77J		2.7E	
							0K			
Depth	CaCO3	Organic	Avail.	Total	Total					Analysis
m	%	C %	P mg/kg	P %	N %	K %	Density Mg/m3	GV	CS FS %	Silt Clay
0 - 0.06										
0.06 - 0.27		8.5B		294.4E	3 0.2	3A	0.62	35.86		
0.27 - 0.39		4.33B		286.7E	3 0.1	4A	0.88	28.73		
0.39 - 0.6		3.34B		245.8E	3 0.1	1A	1.15	23.65		
0.6 - 0.81		1.8B		210.8E	3 0.0	6A	1.25	29.69		
0.81 - 1.36		0.75B		176.7E	3 0.0	ЗA	1.43	28.52		
Depth	COLE				olumetric				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 - 0.06 0.06 - 0.27 0.27 - 0.39 0.39 - 0.6 0.6 - 0.81 0.81 - 1.36

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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	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 organic - semimicro Kieldabl - automated colour
7A2	Total nitrogen - semimicro Kieldahl, automated colour
9A3	Total Phosphorus (ppm) - semimicro kjeldahl, automated colour
P10_GRAV	Gravel (%)
P3A1	Bulk density - g/cm3