Project Name:	BAGO-MARAG	LE FORES	SOIL SURVE	Y
Project Code:	BGM_FSS	Site ID:	0120	Observation ID:
Agency Name:	CSIRO Divisio	n of Soils (A	NCT)	

1

Site Information

Desc. Date D Map R Northi Eastin <u>Geolo</u>	Desc.: ef.: ng/Long.: g/Lat.: <u>DQV</u> ureType:	P. Ryan 13/05/96 Sheet No. : 85 6052864 AMC 607295 Datu Soil pit Sgg	Locality: Elevation: Rainfall: Runoff: Drainage: Conf. Sub. Substrate M						
	ope Class: . Type: Type:	No Data Simple-slope Hillslope 15 %	Pattern Type: No Data Relief: No Data Slope Category: No Data Aspect: 0 degrees						
Erosi		<u>ndition (dry)</u> on	<u>):</u> Soft						
Acidic	Dystrophic E	assification: Brown Kandoso amy Very deel	avelly	Mappin Princip	-	Unit: N/A I Profile Form: Gn2.41			
All neo	•	ytical data are			Great S	oil Group	:	Brown earth	
Veget	ation:	Fragments:	e disturbance. Natura	1					
Profile	e Morphol	ogy							
O1	0 - 0.02 n	n Organi	c Layer; ;						
A1	0.02 - 0.1	Weak g consist 6 (Rai	Dark brown (7.5YR3/2-Moist); Biological mixing, 10YR44, 2-10%, Faint; Fine sandy clay loam; Weak grade of structure, 10-20 mm, Subangular blocky; Rough-ped fabric; Moist; Weak consistence; 2-10%, fine gravelly, 2-6mm, subangular tabular, Coal, coarse fragments; Field pH 6 (Raupach); Many, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Few, medium (2-5mm) roots; Few, coarse (>5mm) roots; Clear, Wavy change to -						eak ts; Field pH
B21	0.15 - 0.3	loam; N gravelly (0-1mn	Strong brown (7.5YR4/6-Moist); Biological mixing, 10YR32, 2-10%, Distinct; Fine sandy clay loam; Massive grade of structure; Earthy fabric; Moist; Weak consistence; 2-10%, medium gravelly, 6-20mm, subangular, Quartz, coarse fragments; Field pH 5.5 (Raupach); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Common, medium (2-5mm) roots; Few, coarse (>5mm) roots; Gradual, Irregular change to -						
B22	0.37 - 0.5	loam; N Comm	Dark yellowish brown (10YR4/6-Moist); Biological mixing, 10YR43, 2-10%, Faint; Fine sandy loam; Massive grade of structure; Earthy fabric; Moist; Weak consistence; Field pH 6 (Raupach); Common, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Common, medium (2-5mm) roots; Common, coarse (>5mm) roots; Clear, Irregular change to -						(Raupach);
B31	0.58 - 0.7	Massiv Few, ve	Brown (10YR4/3-Moist); Biological mixing, 10YR42, 20-50%, Distinct; Fine sandy clay loam; Massive grade of structure; Earthy fabric; Moist; Very weak consistence; Field pH 6 (Raupach); Few, very fine (0-1mm) roots; Common, fine (1-2mm) roots; Common, medium (2-5mm) roots; Many, coarse (>5mm) roots; Gradual, Irregular change to -						
B32	0.73 - 1.1	clay loa consist	Light yellowish brown (10YR6/4-Moist); Biological mixing, 2.5Y52, 2-10%, Distinct; Fine sandy clay loam; Massive grade of structure; Sandy (grains prominent) fabric; Moist; Very weak consistence; Field pH 6 (Raupach); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Few, medium (2-5mm) roots; Clear change to -						
B33	1.17 - 1.7		ellowish brown (2.5Y6 ent) fabric; Moist; Vei						
С	1.72 - 2.4		Pale yellow (2.5Y7/4-Moist); ; Clayey sand; Massive grade of structure; Sandy (grains prominent fabric; Moderately moist; Very weak consistence; Field pH 6.5 (Raupach);						s prominent)
Morphological Notes B31 High OM content due to old infilled root channel. Also concentration of large roots in this layer.									

Project Name:BAGO-MARAGLE FOREST SOIL SURVEYProject Code:BGM_FSSSite ID:0120Observation ID:1Agency Name:CSIRO Division of Soils (ACT)

Observation Notes Site below tors. Profile is deep but poorly weathered. Site Notes COMP 35H,14701-1,210D 200M FR Y INTSN

Project Name:	BAGO-MARAGL	E FOREST	SOIL SURVEY		
Project Code:	BGM_FSS	Site ID:	0120	Observation ID:	1
Agency Name:	CSIRO Division	of Soils (A	CT)		

Laboratory Test Results:

Depth	рН	1:5 EC	Exc Ca	changeabl Mg	le Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ga	Wg	ĸ	Cmol				%
0 - 0.02										
0.02 - 0.15	4.05C		0.93H	0.29	0.38	0.06	4.37J 0K		6.03E	
0.15 - 0.37	4.28C		0.15H	0.12	0.2	0.03	1.02J 0K		1.53E	
0.37 - 0.58	4.36C		0.45H	0.32	0.26	0.04	0.7J 0K		1.78E	
0.58 - 0.73	4.35C		0.57H	0.29	0.38	0.04	1.46J 0K		2.73E	
0.73 - 1.17	4.25C		0.13H	0.15	0.38	0.03	0.7J 0K		1.38E	
1.17 - 1.72	4.23C		0.12H	0.09	0.22	0.03	0.54J 0K		1.01E	
1.72 - 2.42	4.4C		0.04H	0.06	0.11	0.04	0.43J 0K		0.68E	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Pa GV	rticle Size CS FS	Analysis Silt Clay
m	%	%	mg/kg	%	%	%	Mg/m3		%	ont only
0 - 0.02										
0.02 - 0.15		5.8B		553.9B	0.22A		1.07	3.73		
0.15 - 0.37		1.15B		358.4B	0.07A		1.25	5.29		
0.37 - 0.58		0.62B		359.5B	0.04A		1.28	5.68		
0.58 - 0.73		1.24B		693.5B	0.05A		1.57	5.37		
0.73 - 1.17		0.29B		875.4B	0.02A			2.95		
1.17 - 1.72		0.1B		607.1B	0.01A			3.66		
1.72 - 2.42		0.11B		515.1B	0.01A			2.99		
Danéh	COLE		Crew	imetric/Volu	motrie Wet				K sat	K unsat
Depth	COLE	Sat.	0.05 Bar			Bar		Bar	r sat	K unsat
m		581.	0.05 Bar		- m3/m3	Daľ	j Dar 13	Dai	mm/h	mm/h
0 - 0.02										

0 - 0.02 0.02 - 0.15 0.15 - 0.37 0.37 - 0.58 0.58 - 0.73 0.73 - 1.17 1.17 - 1.72 1.72 - 2.42

Project Name:BAGO-MARAGLE FOREST SOIL SURVEYProject Code:BGM_FSSSite ID:0120Observation ID:1Agency Name:CSIRO Division of Soils (ACT)

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, 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 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 (%)
P10_GRAV	Gravel (%)
P3A1	Bulk density - g/cm3