Project Name:BAGO-MARAGLE FOREST SOIL SURVEYProject Code:BGM_FSSSite ID:0067Observation ID:1Agency Name:CSIRO Division of Soils (ACT)

Site Information

Desc. I Date D Map R Northin Eastin	esc.: ef.: ng/Long.: g/Lat.:	N.J. N 22/02 Sheet 60232	//cKenzie //96 t No. : 8526 DGPS 279 AMG zone: 55 75 Datum: AGD66	Locality: Elevation: Rainfall: Runoff: Drainage:		949 metr No Data No Data Rapidly d				
<u>Geolo</u> Expos Geol. F	ureType:	No Da Dga	ata				Probab Adame			
Land Rel/Slo Morph Elem. Slope:	ope Class: . Type: Type:	No D Lowe Hillsle 42 %	er-slope ope	Pattern Ty Relief: Slope Cate Aspect:		No Data No Data No Data 135 degr	Data Data			
Surfac	ce Soil Co	onditio	on (dry): Soft			-				
Erosic	on:									
<u>Soil C</u>	lassificati	ion								
Haplic	l ian Soil Cl Mesotrophic Clay-loamy	c Red	Kandosol Medium Gravelly C	lay-		ing Unit: ipal Profile Form:		N/A : Um6.		
ASC C	Confidence	:			Great	Soil Group) :	N/A		
	,		data are available.							
Veget		: <u>e:</u> NC	effective disturbance other the	nan grazing i	by noofe	ed animais				
	ce Coarse	Frag	ments:							
	e Morphol									
01	0 - 0.02 n	n	Organic Layer; ;							
A11	0.02 - 0.1	l6 m	5 m Very dark grey (5YR3/1-Moist); ; Clay loam; Strong grade of structure, 5-10 mm, Granular; 2-5 mm, Granular; Rough-ped fabric; Dry; Firm consistence; 2-10%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; 10-20%, cobbly, 60-200mm, subrounded tabular, dispersed, Adamellite, coarse fragments; Common cutans, 10-50% of ped faces or walls coated, faint; Field pH 6.5 (Raupach); Many, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Few, medium (2-5mm) roots; Few, coarse (>5mm) roots; Clear, Smooth change to -							
A12	0.16 - 0.4	14 m	 Brown (7.5YR4/4-Moist); Biological mixing, 5YR31, 2-10%, Faint; Biological mixing, 7.5YR42, 2-10%, Faint; Clay loam; Weak grade of structure, 10-20 mm, Polyhedral; Earthy fabric; Moderately moist; Weak consistence; 2-10%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; 2-10%, cobbly, 60-200mm, subrounded tabular, dispersed, Adamellite, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Field pH 6.5 (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 - 							
B21	0.44 - 0.8	3 m	Yellowish red (5YR4/5-Moist); Biological mixing, 5YR43, 2-10%, Faint; Clay loam; Weak grade of structure, 20-50 mm, Polyhedral; Earthy fabric; Moderately moist; Firm consistence; 2-10%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; 0-2%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; 2-10%, coarse gravelly, 20-60mm, subrounded tabular, dispersed, Adamellite, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Field pH 6 (Raupach); Common, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Few, medium (2-5mm) roots; Few, coarse (>5mm) roots; Gradual, Smooth change to -							
B22	0.8 - 1.62	2 m	M Yellowish red (5YR5/5-Moist); ; Clay loam; Weak grade of structure, 10-20 mm, Polyhedral; Earthy fabric; Moderately moist; Weak consistence; 10-20%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; 2-10%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; 0-2%, coarse gravelly, 20-60mm, subrounded tabular, dispersed, Adamellite, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Field pH 6 (Raupach); Few, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Diffuse, Smooth change to -							

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- B31 1.62 2.42 m Reddish yellow (5YR6/8-Moist); ; Medium sandy clay loam; Massive grade of structure; Earthy fabric; Moderately moist; 10-20%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; 2-10%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; Field pH 6 (Raupach); Diffuse, Smooth change to -
- B32 2.42 3.02 m Reddish yellow (5YR6/8-Moist); ; Medium sandy clay loam; Massive grade of structure; Earthy fabric; Moderately moist; 10-20%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; 2-10%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; Field pH 6 (Raupach);

Morphological Notes

A11 Very granular thick A horizon.

- B21 Max. B2 development less coarse sand than layers 2 or 3.
- B31 Yellowing with some weathered adamellite soft areas.

B32

Slight yellowing CF's but not a complete munsell chip colour.

Observation Notes

Moist SW aspect giving high OM and well structured A1 horizon. Very deep whole coloured B3 horizons. Deep colluvial footslope. Weakly developed B2 hor. Simila-r to other Dga profiles in local area.

Site Notes

COMP 39H,9936-1,25M FR RD/CK JCN

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Project Code:	BGM_FSS	Site ID:	0067	Observation ID:	1
Agency Name:	CSIRO Division	of Soils (A	CT)		

Laboratory Test Results:

Depth	рН	1:5 EC			e Cations		xchangeable	CEC	ECEC	ESP
m		dS/m	Ca I	Mg K		Na Acidity Cmol (+)/kg				%
0 - 0.02 0.02 - 0.16	5.06C		15.1H	2.37	1.25	0.05	0.53J		19.31E	
0.16 - 0.44	4.91C		4.99H	0.68	0.9	0.04	0K 0.73J 0K		7.33E	
0.44 - 0.8	4.76C		2.24H	0.67	0.61	0.05	0.49J 0K		4.05E	
0.8 - 1.62	4.81C		1.43H	0.77	0.45	0.03	0.24J 0K		2.92E	
1.62 - 2.42	4.92C		1.4H	0.8	0.91	0.03	0.04J 0.02K		3.21E	
2.42 - 3.02	4.77C		0.87H	0.64	0.52	0.03	0.021 0.07J 0K		2.13E	
Depth	CaCO3	Organic	Avail.	Total	Total		Bulk	Particle		
m	%	С %	P mg/kg	P %	N %	K %	Density Mg/m3	GV CS	FS S %	Silt Clay
0 - 0.02 0.02 - 0.16 0.16 - 0.44 0.44 - 0.8 0.8 - 1.62 1.62 - 2.42 2.42 - 3.02		7.09B 1.66B 0.57B 0.22B 0.11B 0.08B		1107.41 400.9E 183.4E 94.5B 73.5B 63.5B	3 0.1 3 0.0 0.0 0.0	IA 4A 1A 1A	0.82 0.93 1.29 1.45	24.08 24.43 21.22 21.51 9.4 7.76		

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						mm/h	mm/h	

0 - 0.02 0.02 - 0.16 0.16 - 0.44 0.44 - 0.8 0.8 - 1.62 1.62 - 2.42 2.42 - 3.02

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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	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 H - 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
	pH of 1:5 soil/0.01M calcium chloride extract - following Method 4A1
6B2 7A2	Total organic carbon - nign frequency induction furnace, volumetric
9A3	Total Phosphorus (ppm) - semimicro kjeldahl, automated colour
P10_GRAV	Gravel (%)
P3A1	Bulk density - g/cm3