

Project Name: BAGO-MARAGLE FOREST SOIL SURVEY
Project Code: BGM_FSS **Site ID:** 0021 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	N.J. McKenzie	Locality:	
Date Desc.:	18/12/95	Elevation:	1202 metres
Map Ref.:	Sheet No. : 8526 DGPS	Rainfall:	No Data
Northing/Long.:	6026033 AMG zone: 55	Runoff:	No Data
Easting/Lat.:	620439 Datum: AGD66	Drainage:	Rapidly drained

Geology

ExposureType:	No Data	Conf. Sub. is Parent. Mat.:	Probable
Geol. Ref.:	No Data	Substrate Material:	No Data

Land Form

Rel/Slope Class:	No Data	Pattern Type:	No Data
Morph. Type:	Mid-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	No Data
Slope:	25 %	Aspect:	90 degrees

Surface Soil Condition (dry): Soft

Erosion: Stable, Not apparent (sheet)

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Haplic Mesotrophic Red Kandosol Medium Gravelly Loamy Clay-loamy Very deep	Principal Profile Form:	Um5.52

ASC Confidence:	Great Soil Group:	N/A
All necessary analytical data are available.		

Site Disturbance: No effective disturbance other than grazing by hoofed animals

Vegetation:

Surface Coarse Fragments:

Profile Morphology

O1	0 - 0.04 m	Organic Layer; ;
A11	0.04 - 0.1 m	Dark reddish brown (5YR3/2-Moist); ; Loam; Weak grade of structure, 10-20 mm, Granular; Sandy (grains prominent) fabric; Moderately moist; Very weak consistence; 10-20%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; 10-20%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Field pH 6 (Raupach); Many, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Few, medium (2-5mm) roots; Clear, Smooth change to -
A12	0.1 - 0.25 m	Reddish brown (5YR4/3-Moist); Biological mixing, 5YR32, 20-50% , Distinct; Medium sandy clay loam; Weak grade of structure, 10-20 mm, Granular; Sandy (grains prominent) fabric; Moderately moist; Very weak consistence; 10-20%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; 2-10%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; 10-20%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Field pH 6 (Raupach); Many, very fine (0-1mm) roots; Few, fine (1-2mm) roots; Common, medium (2-5mm) roots; Few, coarse (>5mm) roots; Gradual, Smooth change to -
B21	0.25 - 0.69 m	Strong brown (7.5YR4/6-Moist); ; Medium sandy clay loam; Massive grade of structure; Sandy (grains prominent) fabric; Moist; Very weak consistence; 20-50%, fine gravelly, 2-6mm, subrounded, dispersed, Quartz, coarse fragments; 10-20%, fine gravelly, 2-6mm, subrounded, dispersed, coarse fragments; 2-10%, fine gravelly, 2-6mm, subrounded, dispersed, 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; Gradual, Smooth change to -
B22	0.69 - 1.54 m	Strong brown (7.5YR4/6-Moist); ; Medium sandy clay loam; Massive grade of structure; Sandy (grains prominent) fabric; Moist; Very weak consistence; 10-20%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; 10-20%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Field pH 5 (Raupach); Few, very fine (0-1mm) roots; Diffuse, Smooth change to -
C1	1.54 - 2.64 m	Reddish yellow (7.5YR6/6-Moist); ; Medium sandy clay loam; Massive grade of structure; Sandy (grains prominent) fabric; Moist; Very weak consistence; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Field pH 5 (Raupach); Diffuse, Smooth change to -

Project Name: BAGO-MARAGLE FOREST SOIL SURVEY
Project Code: BGM_FSS **Site ID:** 0021 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

C2 2.54 - 3.04 m Reddish yellow (7.5YR7/6-Moist); ; Medium sandy clay loam; Massive grade of structure; Sandy (grains prominent) fabric; Moist; Very weak consistence; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, Quartz, coarse fragments; 20-50%, fine gravelly, 2-6mm, subangular, dispersed, coarse fragments; Few cutans, <10% of ped faces or walls coated, faint; Field pH 5 (Raupach);

Morphological Notes

Observation Notes

Site Notes

COMP 25H,5895-1,B 242D,225M FR RD JCN

Project Name: BAGO-MARAGLE FOREST SOIL SURVEY
Project Code: BGM_FSS Site ID: 0021 Observation ID: 1
Agency Name: CSIRO Division of Soils (ACT)

Laboratory Test Results:

Depth m	pH	1:5 EC dS/m	Ca	Exchangeable Mg	Cations K	Na Cmol (+)/kg	Exchangeable Acidity	CEC	ECEC	ESP %
0 - 0.04										
0.04 - 0.1	4.89C		12.87H	1.71	1.36	0.05	0.84J 0K		16.82E	
0.1 - 0.25	4.73C		3.51H	0.65	1.07	0.04	1.62J 0K		6.89E	
0.25 - 0.69	4.72C		1.54H	0.53	0.68	0.03	0.43J 0K		3.22E	
0.69 - 1.54										
1.54 - 2.64	4.12C		0.1H	0.32	0.31	0.03	1.07J 0K		1.83E	
2.54 - 3.04	4.12C		0.07H	0.39	0.3	0.03	1.06J 0K		1.85E	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size		Analysis	
								GV	CS	FS	Silt
m	%	%	mg/kg	%	%	%	Mg/m3			%	
0 - 0.04											
0.04 - 0.1		7.1B		219.3B	0.25A				38.4		
0.1 - 0.25		3.8B		176.6B	0.13A		1.02		32.63		
0.25 - 0.69		0.76B		67.8B	0.04A		1.19		29.83		
0.69 - 1.54							1.51				
1.54 - 2.64		0.05B		58.1B	0.01A				24.59		
2.54 - 3.04		0.06B		39.2B	0A				27.23		

[illegible]

Project Name: BAGO-MARAGLE FOREST SOIL SURVEY
Project Code: BGM_FSS **Site ID:** 0021 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Laboratory Analyses Completed for this profile

15_NR	Sum of Ex. cations + Ex. acidity - Not recorded
15E1_AL	Exchangeable Al - 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 H - 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	Air-dry moisture content
4B2	pH of 1:5 soil/0.01M calcium chloride extract - following Method 4A1
6B2	Total organic carbon - high frequency induction furnace, volumetric
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9A3	Total Phosphorus (ppm) - semimicro kjeldahl, automated colour
P10_GRAV	Gravel (%)
P3A1	Bulk density - g/cm3