Project Name: **Balonne-Maranoa Soil Survey and Soil Moisture Profiles**
Project Code: **B-M** **Site ID:** **B43** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (ACT)**

Site Information

Desc. By:	Gunn, RH	**Locality:**	Profile B43 located 2.4 km SW of "Billenbah" HS.
Date Desc.:	01/01/74	**Elevation:**	No Data
Map Ref.:	Sheet No. : SG55-16 1:250000	**Rainfall:**	560
Northing/Long.:	149.3593351	**Runoff:**	No Data
Easting/Lat.:	-27.44624944	**Drainage:**	Imperfectly drained

Geology

ExposureType:	Auger boring	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	No Data	**Substrate Material:**	No Data

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	**Pattern Type:**	Plain
Morph. Type:	No Data	**Relief:**	No Data
Elem. Type:	Plain	**Slope Category:**	No Data
Slope:	2 %	**Aspect:**	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
Red Sodosol
ASC Confidence:
Analytical data are incomplete but reasonable confidence.

Mapping Unit: N/A
Principal Profile Form: Dr2.13
Great Soil Group: Solodic soil

Site Disturbance:

Vegetation:

Tall Strata - Tree, , Mid-dense. *Species includes - Casuarina cristata, Acacia harpophylla

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.1 m	Dark reddish brown (5YR3/3-Moist); ; Clay loam; Massive grade of structure; Firm consistence;
B21	0.1 - 0.55 m	Dark reddish brown (5YR3/3-Moist); ; Heavy clay; , Subangular blocky; Firm consistence; 2-10%, Gravel, coarse fragments; Few (2 - 10 %), Calcareous, , Soft segregations;
B22	0.55 - 0.9 m	Dark reddish brown (2.5YR3/4-Moist); ; Heavy clay; Massive grade of structure, Subangular blocky; Firm consistence; 2-10%, Gravel, coarse fragments;

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.1	6.4A		11.6A	3.6	1.35					
0.1 - 0.55	8.6A	1A	30.9A	17.4	0.3					
0.55 - 0.9	8.4A									

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis				
								GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1		2.9A										
0.1 - 0.55												
0.55 - 0.9												

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 - 0.1									
0.1 - 0.55									
0.55 - 0.9									

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Laboratory Analyses Completed for this profile

15A1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_MG	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
5A1	Chloride - 1:5 soil/water extract, potentiometric titration
6A1	Organic carbon - Walkley and Black
9G1	Acid-extractable phosphorus - manual colour