

Project Name: Balonne-Maranoa Soil Survey and Soil Moisture Profiles
Project Code: B-M **Site ID:** I46 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	Gunn, RH	Locality:	Profile I46 located 3.2 km north of "Dolgelly House" HS.
Date Desc.:	01/01/74	Elevation:	No Data
Map Ref.:	Sheet No. : SH55-4 1:250000	Rainfall:	530
Northing/Long.:	149.8719377	Runoff:	No Data
Easting/Lat.:	-28.83136015	Drainage:	Imperfectly drained

Geology

Exposure Type:	Auger boring	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	No Data

Land Form

Rel/Slope Class:	Level plain <9m <1%	Pattern Type:	Plain
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	Plain	Slope Category:	No Data
Slope:	1 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Black Vertosol		Principal Profile Form:	Ug5.16
ASC Confidence:		Great Soil Group:	Grey clay
Analytical data are incomplete but reasonable confidence.			

Site Disturbance:

Vegetation: Low Strata - , , . *Species includes - Astrebla species, Bassia species, Acacia farnesiana

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.01 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; Weak grade of structure, Platy; , Granular; Very weak consistence;
B1	0.01 - 0.15 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; 20-50 mm, Subangular blocky; Very weak consistence;
B21	0.15 - 0.6 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; , Subangular blocky; Very weak consistence; Very few (0 - 2 %), Calcareous, , Concretions;
B22	0.6 - 0.9 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; Massive grade of structure; Very weak consistence; Very few (0 - 2 %), Calcareous, , Concretions;
B23	0.9 - 1.5 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; Massive grade of structure; Very weak consistence; Very few (0 - 2 %), Calcareous, , Concretions;

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				cmol (+)/kg				%
0 - 0.01	8A		38.8A	16.8	2.16					
0.01 - 0.15	8A		38.8A	16.8	2.16					
0.15 - 0.6	8.6A	0.39A								
0.6 - 0.9	8.7A		27A	19.5	1.7					
0.9 - 1.5	8.6A	0.94A								

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Laboratory Analyses Completed for this profile

15A1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_K	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) - 1M ammonium chloride at pH 7.0, no pretreatment for soluble salts
15A1_MG	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,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