

Project Name: Balonne-Maranoa Soil Survey and Soil Moisture Profiles
Project Code: B-M **Site ID:** F6 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	Gunn, RH	Locality:	Profile F6 located near "Bonus Downs" HS.
Date Desc.:	01/01/74	Elevation:	No Data
Map Ref.:	Sheet No. : SG55-11 1:250000	Rainfall:	480
Northing/Long.:	147.6882389	Runoff:	No Data
Easting/Lat.:	-26.72430837	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:	1 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Grey Vertosol		Principal Profile Form:	Ug5.24
ASC Confidence:	Analytical data are incomplete but reasonable confidence.	Great Soil Group:	Grey clay

Site Disturbance:

Vegetation:

Mid Strata - Shrub, , Isolated plants. *Species includes - Eremophila mitchellii
Tall Strata - Tree, 3.01-6m, Mid-dense. *Species includes - Acacia harpophylla

Surface Coarse Fragments: 0-2%, bouldery, 600mm-2m, , Silcrete; 0-2%, bouldery, 600mm-2m, , Ferricrete

Profile Morphology

A1	0 - 0.15 m	Dark grey (10YR4/1-Moist); ; Medium clay; , Subangular blocky; Strong consistence;
B21	0.15 - 0.6 m	Greyish brown (10YR5/2-Moist); ; Heavy clay; , Subangular blocky; Very firm consistence; Very few (0 - 2 %), Calcareous, , Soft segregations;
B22	0.6 - 0.9 m	Greyish brown (10YR5/2-Moist); ; Heavy clay; Massive grade of structure; Very firm consistence;
B23	0.9 - 1.5 m	Greyish brown (10YR5/2-Moist); ; Heavy clay; Massive grade of structure; Very firm consistence; 0-2%, coarse gravelly, 20-60mm, Gravel, coarse fragments;

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Ca	Exchangeable Mg	Cations K	Exchangeable Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.15	5.9A		9.2A	7.2	0.55					
0.15 - 0.6	8.1A	0.91A	11.7A	10	0.66					
0.6 - 0.9	7A									
0.9 - 1.5	5.3A	1.25A	6.9A	9.2	0.49					

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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