Project Name: Balonne-Maranoa Soil Survey and Soil Moisture Profiles
Project Code: B-M Site ID: F63 Observation ID: 1

Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By: Gunn, RH Locality: Profile F63 located 2.4 km west of "Heather Downs"

HS.

 Date Desc.:
 01/01/74
 Elevation:
 No Data

 Map Ref.:
 Sheet No.: SG55-11
 1:250000
 Rainfall:
 580

 Northing/Long.:
 148.0397856
 Runoff:
 No Data

Easting/Lat.: -26.28839631 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 Pattern Type: Plain

1-3%

Morph. Type:No DataRelief:No DataElem. Type:PlainSlope Category:No DataSlope:3 %Aspect:No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/ABlack VertosolPrincipal Profile Form:Ug5.15ASC Confidence:Great Soil Group:Black earth

Analytical data are incomplete but reasonable confidence.

Site Disturbance:

Vegetation: Low Strata - Tussock grass, , . *Species includes - None recorded

Tall Strata - Tree, 3.01-6m, Isolated clumps. *Species includes - Acacia harpophylla, Eucalyptus ochrophloia

Surface Coarse Fragments: 0-2%, stony, 200-600mm, subrounded, Gravel

Profile Morphology

A1	0 - 0.15 m	Very dark greyish brown (10YR3/2-Moist); ; Medium clay; 2-5 mm, Granular; Loose consistence; 0-2%, medium gravelly, 6-20mm, Quartz, coarse fragments;
B21	0.15 - 0.36 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; , Subangular blocky; Firm consistence;
B22	0.36 - 0.9 m	Very dark grey (10YR3/1-Moist); ; Heavy clay; , Subangular blocky; Firm consistence; 0-2%, subrounded, Quartz, coarse fragments; Few (2 - 10 %), Calcareous, , Soft segregations;
В3	0.9 - 1.5 m	Strong brown (7.5YR5/6-Moist); ; Heavy clay; Massive grade of structure; Firm consistence; 0-2%, Shale, coarse fragments; Common (10 - 20 %), Gypseous, , ;

Morphological Notes

Observation Notes

Site Notes

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Laboratory Test Results:

<u>Luborator</u> y	1001111	Jourto.										
Depth	рН	1:5 EC		hangeable Mg	Cations K	Exchangeable Na Acidity Cmol (+)/kg		CEC		ECEC		ESP
m		dS/m		9							%	
0 - 0.15	7.9A		29.9A	8.4	1.31							
0.15 - 0.36	8A	0.31A										
0.36 - 0.9	8.6A		41.9A	13.5	0.51							
0.9 - 1.5	7.2A	2.4A										
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Pa GV	rticle CS	Size FS	Analys Silt	is Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		,
0 - 0.15 0.15 - 0.36 0.36 - 0.9 0.9 - 1.5		0.9A										
Depth	COLE		Grav	/imetric/V	olumetric V	later Contents			K sat		K unsat	
		Sat.	0.05 Bar		0.5 Bar	1 Bar	5 Bar 1	5 Bar				
m				g/	/g - m3/m3	•			mm	/h	mm/h	1
0 - 0.15 0.15 - 0.36												

0.36 - 0.9 0.9 - 1.5

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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