

Project Name: Balonne-Maranoa Soil Survey and Soil Moisture Profiles
Project Code: B-M **Site ID:** SM08 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	Gunn, RH	Locality:	Approximately 1 mile south of Quondong turnoff.
Date Desc.:	03/08/71	Elevation:	No Data
Map Ref.:	1:100000	Rainfall:	No Data
Northing/Long.:	148.2240422	Runoff:	Rapid
Easting/Lat.:	-28.23422487	Drainage:	Well 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:	No Data	Pattern Type:	No Data
Morph. Type:	No Data	Relief:	No Data
Elem. Type:	Plain	Slope Category:	Level
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion: Severe (sheet)

Soil Classification

Australian Soil Classification:	N/A	Mapping Unit:	N/A
ASC Confidence:	Confidence level not specified	Principal Profile Form:	Gn2.15
		Great Soil Group:	N/A

Site Disturbance:

Vegetation:

Tall Strata - Tree, , . *Species includes - Eucalyptus intertexta, Eucalyptus populnea

Surface Coarse Fragments:

Profile Morphology

0 - 0.2 m	Dark reddish brown (2.5YR3/4-Moist); , 0-0% ; Sandy clay loam; Massive grade of structure; Earthy fabric; Weak consistence; Ferricrete, Moderately cemented; Field pH 6 (pH meter);
0.2 - 0.5 m	Dark red (2.5YR3/6-Moist); , 0-0% ; Clay loam; Massive grade of structure; Earthy fabric; Weak consistence; Field pH 6.5 (pH meter);
0.5 - 1 m	Dusky red (10R3/4-Moist); , 0-0% ; Light clay; Massive grade of structure; Rigid consistence; Field pH 7.7 (pH meter);

Morphological Notes

Hardpan.

Observation Notes

Erosion: severely sheet eroded, 7.5-10 cm x 70%.

Site Notes

Mapping symbol: cpXAn. Land unit: 24 (5200 km2). Vegetation: shrub woodland (mulga), wilga, very sparse grasses, 90% bare ground.

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Acidity		
						Cmol (+)/kg			%

Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	Particle		Size	Analysis	
m	%	C	P	P	N	K	Density	GV	CS	FS	Silt	Clay
		%	mg/kg	%	%	%	Mg/m3			%		

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

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Laboratory Analyses Completed for this profile