

Project Name: Regional
Project Code: REG **Site ID:** T199 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	R.F. Isbell	Locality:	1.1KM north east of Tarzali Post Office along Hogans Road:
Date Desc.:	28/09/71	Elevation:	760 metres
Map Ref.:	Sheet No. : 8063 1:100000	Rainfall:	2160
Northing/Long.:	145.608333333333	Runoff:	Moderately rapid
Easting/Lat.:	-17.1686111111111	Drainage:	Moderately well drained

Geology

Exposure Type:	Undisturbed soil core	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	Cza	Substrate Material:	No Data

Land Form

Rel/Slope Class:	Undulating rises 9-30m 3-10%	Pattern Type:	Low hills
Morph. Type:	Ridge	Relief:	61 metres
Elem. Type:	Hillcrest	Slope Category:	Level
Slope:	0 %	Aspect:	No Data

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Acidic Dystrophic Red Ferrosol	Principal Profile Form:	Gn3.11
ASC Confidence:	Great Soil Group:	Krasnozem
Analytical data are incomplete but reasonable confidence.		

Site Disturbance: Limited clearing, for example selective logging

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

A11	0 - 0.1 m	Dark reddish brown (2.5YR3/4-Moist); Dark red (2.5YR3/6-Dry); ; Clay loam; Strong grade of structure, 5-10 mm, Granular; Very firm consistence; 0-2%, coarse gravelly, 20-60mm, Quartz, coarse fragments; Many, medium (2-5mm) roots; Gradual change to -
A12	0.1 - 0.2 m	Dark red (2.5YR3/5-Moist); Dark red (2.5YR3/6-Dry); ; Clay loam; Moderate grade of structure, 2-5 mm, Granular; Very firm consistence; Common, fine (1-2mm) roots; Gradual change to -
B1	0.2 - 0.3 m	Dark red (2.5YR3/6-Moist); ; Clay loam (Heavy); Weak grade of structure, 5-10 mm, Angular blocky; Weak consistence; Few cutans, <10% of ped faces or walls coated; Few (2 - 10 %), Unidentified, , Tubules; Few, fine (1-2mm) roots; Diffuse change to -
B1	0.3 - 0.6 m	Dusky red (10R3/4-Moist); ; Clay loam (Heavy); Weak grade of structure, 5-10 mm, Angular blocky; Weak consistence; Few cutans, <10% of ped faces or walls coated; Few (2 - 10 %), Unidentified, , Tubules; Few, fine (1-2mm) roots; Diffuse change to -
B2	0.6 - 0.9 m	Dusky red (10R3/4-Moist); ; Light clay; Moderate grade of structure, 5-10 mm, Angular blocky; Weak consistence; Common cutans, 10-50% of ped faces or walls coated; Few (2 - 10 %), Argillaceous, , Nodules; Few
B2	0.9 - 1.2 m	Dusky red (10R3/4-Moist); ; Light clay; Moderate grade of structure, 5-10 mm, Angular blocky; Weak consistence; Common cutans, 10-50% of ped faces or walls coated; Few (2 - 10 %), Argillaceous, , Nodules; Diffuse change to -
B2	1.2 - 1.5 m	Dusky red (10R3/4-Moist); ; Light medium clay; Strong grade of structure, 5-10 mm, Angular blocky; Weak consistence; Very few (0 - 2 %), Argillaceous, , Nodules;
	1.5 - 1.8 m	Dusky red (10R3/4-Moist); ; Light medium clay; Strong grade of structure, 5-10 mm, Angular blocky; Weak consistence; Very few (0 - 2 %), Argillaceous, , Nodules; Gradual change to -
	1.8 - 2.1 m	Dark red (2.5YR3/5-Moist); ; Light medium clay; Strong grade of structure, 5-10 mm, Angular blocky; Weak consistence; Very few (0 - 2 %), Argillaceous, , Nodules;

Morphological Notes

Observation Notes

Site Notes

TARZALI

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Laboratory Analyses Completed for this profile

10A1	Total sulfur - X-ray fluorescence
15A2_CA	Exchangeable bases (Ca ²⁺ , Mg ²⁺ , Na ⁺ , K ⁺) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_K	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_MG	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_NA	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15G_C	Exchange acidity (hydrogen and aluminium) - meq per 100g of soil - By 1M KCl exch. acidity by titration to pH 8.4
15J1	Effective CEC
17A1	Total potassium - X-ray fluorescence
2A1	Air-dry moisture content
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9A1	Total phosphorus - X-ray fluorescence
MIN_EC	Exchange Capacity - Minerology
P10_CF_C	Clay (%) - Coventry and Fett pipette method
P10_CF_CS	Coarse sand (%) - Coventry and Fett pipette method
P10_CF_FS	Fine sand (%) - Coventry and Fett pipette method
P10_CF_Z	Silt (%) - Coventry and Fett pipette method
P10_GRAV	Gravel (%)
XRD_C_Ch2	Chloritized 2:1 minerals - X-Ray Diffraction
XRD_C_Gb	Gibbsite - X-Ray Diffraction
XRD_C_Gt	Goethite - X-Ray Diffraction
XRD_C_Hm	Hematite - X-Ray Diffraction
XRD_C_K2O	K2O - X-Ray Diffraction or Clay Fraction (air dry)
XRD_C_Ka	Kaolin - X-Ray Diffraction
XRD_C_Mu	Muscovite - X-Ray Diffraction