

Project Name: Regional
Project Code: REG **Site ID:** T465 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	R.F. Isbell	Locality:	D.P.I. experiment farm: Leichardt block: site 76:
Date Desc.:	01/07/86	Elevation:	No Data
Map Ref.:	Sheet No. : 58 1:5000	Rainfall:	890
Northing/Long.:	147.3125	Runoff:	Slow
Easting/Lat.:	-19.8111111111111	Drainage:	Well drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	CPg	Substrate Material:	Soil pit, 110 m deep,Porous, Igneous rock (unidentified)

Land Form

Rel/Slope Class:	Gently undulating plains <9m 1-3%	Pattern Type:	Rises
Morph. Type:	Mid-slope	Relief:	No Data
Elem. Type:	Pediment	Slope Category:	Very gently sloped
Slope:	0 %	Aspect:	270 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Haplic Eutrophic Red Chromosol		Principal Profile Form:	Dr2.12
ASC Confidence:		Great Soil Group:	Non-calcic brown soil
All necessary analytical data are available.			

Site Disturbance: Extensive clearing, for example poisoning, ringbarking

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.14 m	Very dark greyish brown (10YR3/2-Moist); ; Sandy clay loam; Massive grade of structure; Many, fine (1-2mm) roots; Gradual, Wavy change to -
A3	0.14 - 0.22 m	Dark brown (7.5YR3/4-Moist); , 10YR32, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Sandy clay loam (Heavy); Massive grade of structure; Common, fine (1-2mm) roots; Clear, Smooth change to -
B21	0.22 - 0.42 m	Red (2.5YR4/7-Moist); ; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; 2-10%, medium gravelly, 6-20mm, angular, dispersed, Quartz, coarse fragments; Common (10 - 20 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Few, very fine (0-1mm) roots; Diffuse change to -
B22	0.42 - 0.64 m	Red (2.5YR4/7-Moist); ; Medium clay; Strong grade of structure, 10-20 mm, Angular blocky; Weak grade of structure, 10-20 mm, Prismatic; 2-10%, medium gravelly, 6-20mm, angular, dispersed, Quartz, coarse fragments; Common (10 - 20 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Few, very fine (0-1mm) roots; Gradual, Wavy change to -
B3	0.64 - 0.85 m	Yellowish red (5YR5/8-Moist); ; Light medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Few, very fine (0-1mm) roots; Gradual change to -
BC	0.85 - 1.1 m	Yellowish red (5YR5/8-Moist); , 10YR82, 20-50% , 5-15mm, Distinct; , 20-50% , 5-15mm, Distinct; Light clay; Weak grade of structure, 20-50 mm, Angular blocky; Few, very fine (0-1mm) roots; Gradual change to -
C	1.1 - 1.25 m	Very pale brown (10YR8/3-Moist); , 10YR76, 10-20% , 5-15mm, Distinct; , 5YR58, 10-20% , 5-15mm, Distinct; Clay loam; Massive grade of structure; Few, very fine (0-1mm) roots;

Morphological Notes

Observation Notes

BC-C HORIZON MOTTLES ARE WEATHERED FELSPARS: MANGANESE NODULE ALSO OCCUR:

Site Notes

BURDEKIN VALLE

Observation ID: 1

[illegible]

Project Name: Regional
Project Code: REG **Site ID:** T465 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Laboratory Analyses Completed for this profile

13C1_FE	Citrate/dithionite-extractable iron, aluminium, Manganese and Silicon
15A2_CEC	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15D1_CEC	CEC - 1M ammonium acetate at pH 7.0, pretreatment for soluble salts; manual leach
15E1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) by compulsive exchange, no pretreatment for soluble
15E1_K	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MG	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15J1	Effective CEC
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
9B_9C	Available P (mg/kg) - Bicarbonate P - 0.5M NaHCO ₃ extractable
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H ₂ SO ₄ (BSES)
9H1	Phosphate retention
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 (%)