

Project Name: Regional
Project Code: REG **Site ID:** T463 **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 68:
Date Desc.:	01/07/86	Elevation:	No Data
Map Ref.:	Sheet No. : 58 1:5000	Rainfall:	890
Northing/Long.:	147.3175	Runoff:	Slow
Easting/Lat.:	-19.81	Drainage:	Moderately well drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	CPg	Substrate Material:	No Data

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:	1 %	Aspect:	270 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Ferric Eutrophic Brown Chromosol		Principal Profile Form:	Dy3.12
ASC Confidence:		Great Soil Group:	No suitable group
All necessary analytical data are available.			

Site Disturbance: Extensive clearing, for example poisoning, ringbarking

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.15 m	Dark brown (10YR3/3-Moist); Brown (10YR5/3-Dry); ; Sandy clay loam (Light); Massive grade of structure; Common, fine (1-2mm) roots; Gradual, Smooth change to -
A3	0.15 - 0.27 m	Dark yellowish brown (10YR3/4-Moist); Dark yellowish brown (10YR4/4-Dry); ; Sandy clay loam (Heavy); Massive grade of structure; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Nodules; Few, fine (1-2mm) roots; Clear, Smooth change to -
B21	0.27 - 0.42 m	Strong brown (7.5YR5/6-Moist); , 2.5YR48, 2-10% , 0-5mm, Distinct; , 2-10% , 0-5mm, Distinct; Sandy medium clay; Weak grade of structure, 10-20 mm, Subangular blocky; Few (2 - 10 %), Ferruginous, Fine (0 - 2 mm), Nodules; Few, very fine (0-1mm) roots; Diffuse change to -
B22	0.42 - 0.57 m	Strong brown (7.5YR5/6-Moist); , 2.5YR48, 2-10% , 0-5mm, Distinct; , 2-10% , 0-5mm, Distinct; Medium clay; Moderate grade of structure, 20-50 mm, Angular blocky; 2-10%, fine gravelly, 2-6mm, angular, dispersed, Quartz, coarse fragments; Common (10 - 20 %), Ferruginous, Medium (2 - 6 mm), Nodules; Few, very fine (0-1mm) roots; Diffuse change to -
B23	0.57 - 0.91 m	Strong brown (7.5YR5/6-Moist); , 2.5YR48, 10-20% , 5-15mm, Distinct; , 10-20% , 5-15mm, Distinct; Medium clay; Weak grade of structure, 10-20 mm, Subangular blocky; 2-10%, medium gravelly, 6-20mm, angular, dispersed, Quartz, coarse fragments; Many (20 - 50 %), Ferruginous, Medium (2 - 6 mm), Nodules; Few, very fine (0-1mm) roots; Clear, Wavy change to -
B3	0.91 - 1.11 m	Brownish yellow (10YR6/5-Moist); , 5YR48, 2-10% , 0-5mm, Distinct; , 10YR74, 2-10% , 0-5mm, Distinct; Medium clay; Weak grade of structure, 50-100 mm, Lenticular; Moderate grade of structure, 10-20 mm, Subangular blocky; Few, very fine (0-1mm) roots; Gradual change to -
BC	1.11 - 1.41 m	Brownish yellow (10YR6/5-Moist); , 10YR72, 10-20% , 5-15mm, Distinct; , 7.5YR56, 10-20% , 5-15mm, Distinct; Medium clay; Few (2 - 10 %), Ferruginous, Fine (0 - 2 mm), Soft segregations; Few, very fine (0-1mm) roots;

Morphological Notes

BC Rock sample from pit:

Observation Notes

C HORIZON PROBABLY AT 120CM:

Site Notes

BURDEKIN VALLE

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				CMol (+)/kg				%
0 - 0.15	6.4A	0.05A	3.65H	1.37	0.14	0.08		13.5A 4C	5.2F	0.59 2.00
0.15 - 0.27	6.6A	0.03A								
0.27 - 0.42	6.4A	0.03A	6.57H	3.27	0.06	0.08		10.3A 8C	10F	0.78 1.00
0.42 - 0.57	6.7A	0.03A								
0.57 - 0.91	6.5A	0.03A	7.88H	4	0.06	0.12		8.2A 9C	12.1F	1.46 1.33
0.91 - 1.11	7.2A	0.03A								
1.11 - 1.41	7A	0.04A	19.5H	14.2	0.03	0.27		14.6A	34F	1.85

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			%		
0 - 0.15			9A					0	48A	37	6	9
0.15 - 0.27			5B									
			7A					0	45A	33	6	17
			<3B									
0.27 - 0.42								0	37A	23	4	36
0.42 - 0.57								0	34A	17	3	46
0.57 - 0.91								0	34A	21	5	41
0.91 - 1.11								0	14A	40	13	32
1.11 - 1.41								0	17A	51	15	18

[illegible]

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Laboratory Analyses Completed for this profile

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)
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 (%)