Project Name: Regional

Project Code: REG Site ID: T464 Observation ID: 1

Agency Name: CSIRO Division of Soils (QLD)

Site Information

Locality: R.F. Isbell D.P.I. experiment farm: Leichardt block: site 55:

Desc. By: Date Desc.: Elevation: 01/07/86 No Data Sheet No.: 58 1:5000 Map Ref.: Rainfall: 890 Northing/Long.: 147.3158333333333 Runoff: Slow

Easting/Lat.: -19.8136111111111 Drainage: Moderately well drained

Geology

ExposureType: Soil pit Conf. Sub. is Parent. Mat.: No Data

Geol. Ref.: CPg **Substrate Material:** Soil pit, 95 m deep, Porous, Igneous rock

(unidentified)

Land Form

Rel/Slope Class: Gently undulating plains <9m Pattern Type: Rises

1-3%

Morph. Type: Mid-slope Relief: No Data

Very gently sloped Pediment Slope Category: Elem. Type: Slope: 2 % Aspect: 180 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification: N/A **Mapping Unit:** Haplic Eutrophic Red Chromosol Principal Profile Form: Dr2.12

ASC Confidence: Great Soil Group: Non-calcic brown

All necessary analytical data are available. soil

Site Disturbance: Extensive clearing, for example poisoning, ringbarking

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.13 m	Dark brown (10YR3/3-Moist); ; Sandy clay loam; Weak grade of structure, 10-20 mm, Subangular blocky; Gradual, Wavy change to -
A3	0.13 - 0.26 m	Dark brown (7.5YR3/3-Moist); ; Clay loam, sandy (Heavy); Massive grade of structure; Clear, Smooth change to -
B21	0.26 - 0.5 m	Red (2.5YR4/6-Moist); ; Medium clay; Moderate grade of structure, 10-20 mm, Angular blocky; Weak grade of structure, 20-50 mm, Prismatic; 2-10%, medium gravelly, 6-20mm, angular, dispersed, Quartz, coarse fragments; Common (10 - 20 %), Manganiferous, , Soft segregations; Diffuse change to -
B22	0.5 - 0.7 m	Yellowish red (5YR4/6-Moist); ; Medium clay; Moderate grade of structure, 5-10 mm, Angular blocky; Moderate grade of structure, 20-50 mm, Angular blocky; Few (2 - 10 %), Manganiferous, , Soft segregations; Diffuse change to -
ВС	0.7 - 0.95 m	Yellowish red (5YR5/8-Moist); ; Light medium clay; Weak grade of structure, 10-20 mm, Angular blocky; Weak grade of structure, 50-100 mm, Prismatic; Gradual change to -
С	0.95 - 1.1 m	Strong brown (7.5YR5/6-Moist); , 10YR82, 10-20% , 5-15mm, Distinct; , 5YR58, 10-20% , 5-15mm, Distinct; Clay loam;

Morphological Notes

Observation Notes

C HORIZON MOTTLES ARE WEATHERED FELSPARS MANGANESE NODULES ALSO OCCUR:

Site Notes

BURDEKIN VALLE

Project Name: Project Code: Agency Name:

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Laboratory									_		_		
Depth	pН	1:5 EC		nangeable Vig	Cations K	Na I	Exchangeable Acidity	CEC	E	CEC	Е	SP	
m		dS/m	Ca My		K	Cmol (+)/kg					9/	6	
0 0 40	0.44	0.004	0.4011	7.00	0.40	0.00		0.04			0	05	
0 - 0.13	6.4A	0.09A	8.49H	7.06	0.13	0.06		9.2A 8C		15.7F		.65 .75	
0.13 - 0.26	6.9A	0.03A										-	
0.26 - 0.5	6.6A	0.04A	9.05H	3.72	0.06	0.11		10A 13C		12.9F		.10 .85	
0.5 - 0.7	7A	0.03A						130			0.	.00	
0.7 - 0.95	7.5A	0.03A	14.2H	6.34	0.06	0.31		18A		20.9F		72	
0.95 - 1.1	7.5A	0.04A						24C			1.	29	
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K		Pai GV	rticle S	Size A	nalysis	Na.,	
m	%	%	mg/kg	%	%	%	Density Mg/m3	GV	CS	г э %	Silt (Jay	
0 - 0.13			11A 7B					0	37A	36	11	16	
0.13 - 0.26			9A <3B					2	33A	31	10	26	
0.26 - 0.5			7A <3B					2	22A	19	6	53	
0.5 - 0.7			\0D					2	18A	19	7	56	
0.7 - 0.95								2	30A	23	11	36	
0.95 - 1.1								3	39A	26	11	24	
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/s	g - m3/m3	3			mm/ł	1	mm/h		

0 - 0.13 0.13 - 0.26 0.26 - 0.5 0.5 - 0.7 0.7 - 0.95 0.95 - 1.1

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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 (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts 15E1_K 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

EC of 1:5 soil/water extract 3A1 4A1 pH of 1:5 soil/water suspension

Available P (mg/kg) - Bicarbonate P - 0.5M NaHCO3 extractable Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES) 9B_9C

9G_BSES

9H1 Phosphate retention

P10_CF_C Clay (%) - Coventry and Fett pipette method P10_CF_CS P10_CF_FS Coarse sand (%) - Coventry and Fett pipette method Fine sand (%) - Coventry and Fett pipette method P10_CF_Z Silt (%) - Coventry and Fett pipette method

P10_GRAV Gravel (%)