Project Name: Regional

Project Code: Site ID: T446 Observation ID: 1 REG

CSIRO Division of Soils (QLD) Agency Name:

Site Information

Desc. By: Date Desc.: Locality: R.F. Isbell Cardigan experiment site (laneway):

03/04/86 Elevation: 200 metres

Map Ref.: Sheet No.: 8157 1:100000 Rainfall:

Northing/Long.: 146.58055555556 Runoff: Moderately rapid Well drained Easting/Lat.: -20.206944444445 Drainage:

Geology

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

Substrate Material: Geol. Ref.: O-Dr Soil pit, Granodiorite

Land Form

Rel/Slope Class: Undulating plains <9m 3-10% Pattern Type: Rises Morph. Type: Upper-slope Relief: 10 metres Elem. Type: Slope Category: Very gently sloped Hillslope 3 % Aspect: 180 degrees Slope:

Surface Soil Condition (dry): Hardsetting

Erosion: Minor (sheet) **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

All necessary analytical data are available. soil

Site Disturbance: Limited clearing, for example selective logging

Low Strata - Tussock grass, 0.51-1m, Mid-dense. *Species includes - None recorded **Vegetation:**

Tall Strata - Tree, 6.01-12m, Very sparse. *Species includes - Eucalyptus drepanophylla

Surface Coarse Fragments: 2-10%, coarse gravelly, 20-60mm, angular, Quartz

Profile Morphology

A	0 - 0.1 m	Dark reddish brown (5YR3/3-Moist); ; Sandy clay loam; Weak grade of structure, 5-10 mm, Subangular blocky; Common, fine (1-2mm) roots; Clear, Wavy change to -
B2	0.1 - 0.25 m	Dark red (2.5YR3/6-Moist); ; Medium clay; Moderate grade of structure, 10-20 mm, Subangular blocky; Moderate grade of structure, 5-10 mm, Subangular blocky; Common, fine (1-2mm) roots;
	0.25 - 0.4 m	Dark red (2.5YR3/6-Moist); ; Medium clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Few, fine (1-2mm) roots; Clear, Wavy change to -
ВС	0.4 - 0.55 m	Red (2.5YR4/6-Moist); , 2.5YR58; Coarse sandy clay loam; Weak grade of structure, 2-5 mm, Subangular blocky; Few, fine (1-2mm) roots; Gradual change to -
С	0.55 - 0.85 m	Yellowish red (5YR5/8-Moist); ; Clayey sand (Heavy); Massive grade of structure;
	0.85 - 1.1 m	Yellowish red (5YR5/8-Moist); ; Clayey sand; Massive grade of structure;

Morphological Notes

Weathered granodiorite:mix of red + white + yellow:

Observation Notes

10-25cm HORIZON HAS MIXTURE OF A AND B COLOURS

Site Notes

CARDIGAN

Regional REG Site ID: T446 CSIRO Division of Soils (QLD) Observation ID: 1

Project Name: Project Code: Agency Name:

Laboratory Test Results:

Depth	рН	1:5 EC		hangeable			xchangeable	CEC	ı	ECEC	E	SP
m		dS/m	Ca	Mg	К	Na Cmol (+)	Acidity /kg				9	6
0 - 0.1	6.8A	0.06A	7H	2.22	0.4	0.06		9.9A 6C	١	9.7F	_	61 00
0.1 - 0.25	6.5A	0.04A	9.31H	3.53	0.35	0.13		8.9A 12C		13.3F	1.	46 08
0.25 - 0.4	6.6A	0.04A	10.6H	4.11	0.29	0.19		9.1A 4C	١	15.2F	2.	09 75
0.4 - 0.55	7.4A	0.03A										
0.55 - 0.85	7.5A	0.03A										
0.85 - 1.1	7.5A	0.02A										
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Pa GV	rticle CS	Size /	Analysis Silt (Nav
m	%	%	mg/kg	%	%	%	Mg/m3	GV	03	%	Siit (ыау
0 - 0.1		0.7C	8A 8B		0.0	5A		4	48A	27	7	18
0.1 - 0.25			8A 3B					2	30A	20	7	43
0.25 - 0.4								3	30A	17	9	44
0.4 - 0.55								3	48A	22	7	23
0.55 - 0.85			6A 298B					3	61A	23	5	11
0.85 - 1.1								5	73A	17	3	7
Depth	COLE	OLE Gravimetric/Volumetric Water Contents K sat K unsa Sat. 0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar 15 Bar									K unsat	
m		Jul.	0.00 Bui		g - m3/m		0 Dai: 10	- u.	mm/	h	mm/h	

0 - 0.1 0.1 - 0.25 0.25 - 0.4 0.4 - 0.55 0.55 - 0.85 0.85 - 1.1

Project Name: Regional

Project Code: REG Site ID: T446 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

Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble 5E1_K Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts 5E1_MG Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts 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

Total organic carbon - high frequency induction furnace, infrared

7A2 Total nitrogen - semimicro Kjeldahl , automated colour

9B_9C Available P (mg/kg) - Bicarbonate P - 0.5M NaHCO3 extractable

9G_BSES Available P (mg/kg) - Acid P - 0.005M H2SO4 (BSES)

9H1 Phosphate retention

P10_CF_C
P10_CF_CS
Clay (%) - Coventry and Fett pipette method
Coarse sand (%) - Coventry and Fett pipette method
P10_CF_S
Fine sand (%) - Coventry and Fett pipette method
Silt (%) - Coventry and Fett pipette method

P10_GRAV Gravel (%)