

Project Name: Regional
Project Code: REG **Site ID:** T446 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	R.F. Isbell	Locality:	Cardigan experiment site (laneway):
Date Desc.:	03/04/86	Elevation:	200 metres
Map Ref.:	Sheet No. : 8157 1:100000	Rainfall:	0
Northing/Long.:	146.580555555556	Runoff:	Moderately rapid
Easting/Lat.:	-20.2069444444445	Drainage:	Well drained

Geology

ExposureType:	Soil pit	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	O-Dr	Substrate Material:	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:	Hillslope	Slope Category:	Very gently sloped
Slope:	3 %	Aspect:	180 degrees

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 soil
All necessary analytical data are available.			

Site Disturbance: Limited clearing, for example selective logging

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

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[illegible]

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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 (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
6B3	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 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 (%)