

**Project Name:** FGR  
**Project Code:** FGR      **Site ID:** TL37      **Observation ID:** 1  
**Agency Name:** CSIRO Division of Soils (QLD)

**Site Information**

<b>Desc. By:</b>	J.R. Sleeman	<b>Locality:</b>	8km east of Duchess:
<b>Date Desc.:</b>	02/09/53	<b>Elevation:</b>	342 metres
<b>Map Ref.:</b>		<b>Rainfall:</b>	330
<b>Northing/Long.:</b>	139.95	<b>Runoff:</b>	No Data
<b>Easting/Lat.:</b>	-21.3333333333333	<b>Drainage:</b>	Well drained

**Geology**

<b>ExposureType:</b>	No Data	<b>Conf. Sub. is Parent. Mat.:</b>	No Data
<b>Geol. Ref.:</b>	No Data	<b>Substrate Material:</b>	Limestone

**Land Form**

<b>Rel/Slope Class:</b>	Gently undulating plains <9m 1-3%	<b>Pattern Type:</b>	Rises
<b>Morph. Type:</b>	Lower-slope	<b>Relief:</b>	No Data
<b>Elem. Type:</b>	Hillslope	<b>Slope Category:</b>	Very gently sloped
<b>Slope:</b>	0 %	<b>Aspect:</b>	No Data

**Surface Soil Condition (dry):**

**Erosion:**

**Soil Classification**

<b>Australian Soil Classification:</b>	N/A	<b>Mapping Unit:</b>	N/A
<b>ASC Confidence:</b>	Confidence level not specified	<b>Principal Profile Form:</b>	Um5
		<b>Great Soil Group:</b>	Red calcareous soil

**Site Disturbance:** No effective disturbance other than grazing by hoofed animals

**Vegetation:** Low Strata - Hummock grass, 0.26-0.5m, Mid-dense. \*Species includes - None recorded  
Tall Strata - Tree, 3.01-6m, Sparse. \*Species includes - None Recorded

**Surface Coarse Fragments:**

**Profile Morphology**

A	0 - 0.18 m	Brown (10YR5/3-Dry); ; Silty clay loam (Heavy); Strong grade of structure, 10-20 mm, Subangular blocky; Dry; Weak consistence; 0-2%, fine gravelly, 2-6mm, angular, dispersed, Limestone, coarse fragments; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules;
B2	0.18 - 0.3 m	Light brown (7.5YR6/4-Dry); ; Silty light clay; Strong grade of structure, 10-20 mm, Subangular blocky; Dry; Weak consistence; 0-2%, fine gravelly, 2-6mm, angular, dispersed, Limestone, coarse fragments; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Diffuse change to
BC	0.3 - 0.5 m	Pink (7.5YR7/4-Dry); ; Silty medium clay; Weak grade of structure, 20-50 mm, Subangular blocky; Dry; Very firm consistence; 0-2%, fine gravelly, 2-6mm, angular, dispersed, Limestone, coarse fragments; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Nodules; Diffuse change to

**Morphological Notes**

**Observation Notes**

**Site Notes**

DUCHESS

**Observation ID: 1**

**Laboratory Test Results:**

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Acidity		%
						Cmol (+)/kg			

0 - 0.18	8.7A	0.036A
0.18 - 0.3	8.8A	0.036A
0.3 - 0.5	8.9A	0.034A

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle		Size	Analysis	
m	%	%	mg/kg	%	%	%	Mg/m3	GV	CS	FS %	Silt	Clay
0 - 0.18	17C		270B		0.105A			2	3D	38	8	25
0.18 - 0.3	30C		240B		0.066A			2	2D	32	5	23
0.3 - 0.5	42C							5				

[illegible]

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**Laboratory Analyses Completed for this profile**

19B_NR	Calcium Carbonate (CaCO <sub>3</sub> ) - Not recorded
2_LOI	Loss on Ignition (%)
2A1	Air-dry moisture content
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
5A2	Chloride - 1:5 soil/water extract, automated colour
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
9G_BSES	Available P (mg/kg) - Acid P - 0.005M H <sub>2</sub> SO <sub>4</sub> (BSES)
P10_GRAV	Gravel (%)
P10_PB_C	Clay (%) - Plummet balance
P10_PB_CS	Coarse sand (%) - Plummet balance
P10_PB_FS	Fine sand (%) - Plummet balance
P10_PB_Z	Silt (%) - Plummet balance