

Project Name: Regional
Project Code: REG **Site ID:** T318 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

| | | | |
|------------------------|---------------------------|-------------------|--------------|
| Desc. By: | I. Lepsch | Locality: | |
| Date Desc.: | 01/09/81 | Elevation: | 200 metres |
| Map Ref.: | Sheet No. : 8062 1:100000 | Rainfall: | 3500 |
| Northing/Long.: | 145.833333333333 | Runoff: | Rapid |
| Easting/Lat.: | -17.6 | Drainage: | Well drained |

Geology

| | | | |
|----------------------|-----------------------|------------------------------------|---------|
| ExposureType: | Undisturbed soil core | Conf. Sub. is Parent. Mat.: | No Data |
| Geol. Ref.: | Cza | Substrate Material: | No Data |

Land Form

| | | | |
|-------------------------|-------------|------------------------|-----------|
| Rel/Slope Class: | No Data | Pattern Type: | Low hills |
| Morph. Type: | Lower-slope | Relief: | No Data |
| Elem. Type: | Hillslope | Slope Category: | No Data |
| Slope: | 4 % | Aspect: | No Data |

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

| | | | |
|--|--|--------------------------------|-----------|
| Australian Soil Classification: | | Mapping Unit: | N/A |
| Acidic Dystrophic Red Ferrosol | | Principal Profile Form: | Uf6.31 |
| ASC Confidence: | | Great Soil Group: | Krasnozem |

Analytical data are incomplete but reasonable confidence.

Site Disturbance: Complete clearing. Pasture, native or improved, cultivated at some stage

Vegetation:

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

| | | |
|-----|--------------|--|
| Ap | 0 - 0.15 m | Dark reddish brown (2.5YR3/3-Moist); Dark reddish brown (5YR3/3-Dry); ; Medium clay; Strong grade of structure, 5-10 mm, Granular; Moderately moist; Weak consistence; Clear change to - |
| A3 | 0.15 - 0.3 m | Dark reddish brown (2.5YR3/4-Moist); Dark reddish brown (5YR3/4-Dry); ; Medium clay; Moderate grade of structure, 5-10 mm, Granular; Moderately moist; Very weak consistence; Diffuse change to - |
| B1 | 0.3 - 0.5 m | Dark reddish brown (2.5YR3/4-Moist); Dark reddish brown (5YR3/4-Dry); ; Medium clay; Weak grade of structure, 5-10 mm, Subangular blocky; Moderately moist; Very weak consistence; Diffuse change to - |
| B1 | 0.5 - 0.8 m | Dark reddish brown (2.5YR3/4-Moist); Dark reddish brown (5YR3/4-Dry); ; Medium clay; Weak grade of structure, 5-10 mm, Subangular blocky; Moderately moist; Very weak consistence; 2-10%, medium gravelly, 6-20mm, Basalt, coarse fragments; Diffuse change to - |
| B21 | 0.8 - 1.1 m | Dark reddish brown (2.5YR3/4-Moist); Reddish brown (5YR4/3-Dry); ; Medium clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Moderately moist; Weak consistence; Diffuse change to - |
| B21 | 1.1 - 1.3 m | Dark reddish brown (2.5YR3/4-Moist); Reddish brown (5YR4/3-Dry); ; Medium clay; Moderate grade of structure, 5-10 mm, Subangular blocky; Moderately moist; Firm consistence; Diffuse change to - |
| B21 | 1.3 - 1.6 m | Dark reddish brown (2.5YR3/4-Moist); Reddish brown (5YR4/3-Dry); ; Medium clay; Weak grade of structure, 5-10 mm, Polyhedral; Moderately moist; Firm consistence; Diffuse change to - |
| B22 | 1.6 - 1.9 m | Dark reddish brown (5YR3/3-Moist); Reddish brown (5YR5/3-Dry); ; Medium clay; Weak grade of structure, 5-10 mm, Polyhedral; Moderately moist; Firm consistence; 2-10%, medium gravelly, 6-20mm, Basalt, coarse fragments; Diffuse change to - |
| B22 | 1.9 - 2.2 m | Dark reddish brown (5YR3/3-Moist); Reddish brown (5YR5/3-Dry); ; Medium clay; Weak grade of structure, 5-10 mm, Polyhedral; Moderately moist; Firm consistence; 2-10%, medium gravelly, 6-20mm, Basalt, coarse fragments; Diffuse change to - |
| B3 | 2.2 - 2.5 m | Dark reddish brown (5YR3/3-Moist); Reddish brown (5YR5/3-Dry); ; Medium clay; Weak grade of structure, 5-10 mm, Polyhedral; Moderately moist; Firm consistence; Diffuse change to - |

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| | | |
|----|-----------|---|
| B3 | 2.5 - 3 m | Dark reddish brown (5YR3/3-Moist); Reddish brown (5YR5/3-Dry); ; Medium clay; Weak grade of structure, 5-10 mm, Polyhedral; Moderately moist; Firm consistence; Diffuse change to - |
| B3 | 3 - 3.5 m | Dark reddish brown (5YR3/3-Moist); Reddish brown (5YR5/3-Dry); ; Medium clay; Weak grade of structure, 5-10 mm, Polyhedral; Moderately moist; Firm consistence; |

Morphological Notes

Observation Notes

VERMIFORM STRUCTURE FROM 130CM

Site Notes

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Laboratory Test Results:

| Depth | pH | 1:5 EC | Exchangeable Cations | | | Exchangeable Acidity | | CEC | ECEC | ESP |
|------------|--------------|--------|----------------------|-------|------|----------------------|--------|-------|------|------|
| m | | dS/m | Ca | Mg | K | Na Cmol | (+)/kg | | | % |
| 0 - 0.15 | 4.8D 5.5A | | 2.01H | 1.25 | 0.7 | 0.04 | 0.4F | 1.06A | 4.4F | 3.77 |
| 0.15 - 0.3 | 4.6D 5.2A | | 0.1H | 0.07 | 0.29 | 0.02 | 0.6F | 2.29A | 1.1F | 0.87 |
| 0.3 - 0.5 | 4.7D 5.2A | | 0.06H | <0.01 | 0.17 | 0.02 | 0.4F | | 0.7F | |
| 0.5 - 0.8 | 5D 5.4A | | | | | | | | | |
| 0.8 - 1.1 | 4.9D 5.1A | | 0.38H | <0.01 | 0.04 | 0.03 | 0.3F | 1.76A | 0.8F | 1.70 |
| 1.1 - 1.3 | 4.7D 5.1A | | | | | | | | | |
| 1.3 - 1.6 | 4.5D 5A | | 0.16H | <0.01 | 0.07 | 0.07 | 0.7F | 1.78A | 1F | 3.93 |
| 1.6 - 1.9 | 4.5D 5A | | | | | | | | | |
| 1.9 - 2.2 | 5.1A | | 0.18H | <0.01 | 0.03 | 0.13 | 1.2F | | 1.6F | |
| 2.2 - 2.5 | 4.4D 5A | | 0.12H | <0.01 | 0.03 | 0.12 | 1.5F | | 1.8F | |
| 2.5 - 3 | 4.4D 5A | | | | | | | | | |
| 3 - 3.5 | 4.3D 4.9A | | 0.04H | 0.24 | 0.04 | 0.09 | 1.6F | <0.1A | 2F | |

| 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 | | 3.43D | | | | | | | <1A | 10 | 22 | 68 |
| 0.15 - 0.3 | | 1.31D | | | | | | | 1A | 10 | 21 | 68 |
| 0.3 - 0.5 | | 0.73D | | | | | | | 1A | 9 | 21 | 69 |
| 0.5 - 0.8 | | | | | | | | | 1A | 10 | 23 | 66 |
| 0.8 - 1.1 | | 0.22D | | | | | | | 1A | 12 | 26 | 61 |
| 1.1 - 1.3 | | | | | | | | | | | | |
| 1.3 - 1.6 | | 0.12D | | | | | | | <1A | 14 | 30 | 56 |
| 1.6 - 1.9 | | | | | | | | | | | | |
| 1.9 - 2.2 | | 0.08D | | | | | | | <1A | 17 | 30 | 53 |
| 2.2 - 2.5 | | | | | | | | | <1A | 20 | 28 | 52 |
| 2.5 - 3 | | | | | | | | | | | | |
| 3 - 3.5 | | | | | | | | | <1A | 15 | 29 | 56 |

[illegible]

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1.3 - 1.6
1.6 - 1.9
1.9 - 2.2
2.2 - 2.5
2.5 - 3
3 - 3.5

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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 |
| 15E1_CA | Exchangeable bases (Ca2+,Mg2+,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 |
| 15G_C | Exchange acidity (hydrogen and aluminium) - meq per 100g of soil - By 1M KCl exch. acidity by titration to pH 8.4 |
| 15J1 | Effective CEC |
| 4A1 | pH of 1:5 soil/water suspension |
| 4C1 | pH of 1:5 soil/1M potassium chloride extract - direct |
| 6A1_UC | Organic carbon (%) - Uncorrected Walkley and Black method |
| 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 |