**Project Name:** **Acids Soils in South Eastern Australia**
**Project Code:** **AcidSoils** **Site ID:** **AN249** **Observation ID:** **1**
**Agency Name:** **CSIRO Land and Water (ACT)**

## Site Information

| | | | |
|---|---|---|---|
| **Desc. By:** | G. W. Geeves | **Locality:** | Combanning South |
| **Date Desc.:** | 14/06/89 | **Elevation:** | 310 metres |
| **Map Ref.:** | Sheet No. : 8428 1:100000 | **Rainfall:** | No Data |
| **Northing/Long.:** | 6174000 AMG zone: 55 | **Runoff:** | Slow |
| **Easting/Lat.:** | 553900 Datum: AGD66 | **Drainage:** | Imperfectly drained |

## Geology

| | | | |
|---|---|---|---|
| **ExposureType:** | Auger boring | **Conf. Sub. is Parent. Mat.:** | No Data |
| **Geol. Ref.:** | No Data | **Substrate Material:** | No Data |

## Land Form

| | | | |
|---|---|---|---|
| **Rel/Slope Class:** | Gently undulating rises 9-30m 1-3% | **Pattern Type:** | Rises |
| **Morph. Type:** | Lower-slope | **Relief:** | 10 metres |
| **Elem. Type:** | Hillslope | **Slope Category:** | Very gently sloped |
| **Slope:** | 1 % | **Aspect:** | 45 degrees |

## Surface Soil Condition (dry):

## Erosion:

## Soil Classification

**Australian Soil Classification:**
N/A
**ASC Confidence:**
Confidence level not specified

**Mapping Unit:** N/A
**Principal Profile Form:** Dr2.13
**Great Soil Group:** N/A

**Site Disturbance:** Cultivation. Rainfed

## Vegetation:

Tall Strata - Sod grass, <0.25m, Closed or dense. *Species includes - None Recorded

## Surface Coarse Fragments:

## Profile Morphology

| | | |
|---|---|---|
| Ap | 0 - 0.15 m | Dark reddish brown (5YR3/2-Moist); ; Clay loam; Sharp change to - |
| B21 | 0.15 - 0.4 m | Yellowish red (5YR4/6-Moist); , 7.5YR42, 10-20% , 5-15mm, Distinct; Light clay; Gradual change to - |
| B22 | 0.4 - 0.8 m | Reddish brown (5YR4/4-Moist); , 7.5YR42, 10-20% , 5-15mm, Distinct; Medium clay; Common (10 - 20 %), Calcareous, Medium (2 -6 mm), Concretions; |

## Morphological Notes

B22 lime conc.

## Observation Notes

Duplex red profile with CO3, transitional? Red Brown Earth.

## Site Notes

Clover and grass pasture, lower end of 1000 m slope, not well drained.

**Project Name:** Acids Soils in South Eastern Australia
**Project Code:** AcidSoils **Site ID:** AN249 **Observation ID:** 1
**Agency Name:** CSIRO Land and Water (ACT)

## Laboratory Test Results:

| Depth | pH | 1:5 EC | Exchangeable Cations | | | | Exchangeable Acidity | CEC | ECEC | ESP |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Ca | Mg | K | Na | | | | |
| m | | dS/m | Cmol (+)/kg | | | | | | | % |
| 0 - 0.1 | 5.41B | | 8.46K | 7.66 | 0.87 | 1.27 | | | | |
| 0.1 - 0.2 | 5.88B | | 9.98K | 10.01 | 0.92 | 1.87 | | | | |
| 0.2 - 0.3 | 6.62B | | 11.11K | 10.97 | 0.78 | 2.49 | | | | |
| 0.3 - 0.4 | 6.88B | | 10.98K | 10.97 | 0.77 | 2.56 | | | | |
| 0.4 - 0.5 | 7.11B | | | | | | | | | |
| 0.7 - 0.8 | 7.63B | | | | | | | | | |

| Depth | CaCO3 | Organic C | Avail. P | Total P | Total N | Total K | Bulk Density | Particle Size Analysis GV | CS | FS | Silt | Clay |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| m | % | % | mg/kg | % | % | % | Mg/m3 | | | % | | |
| 0 - 0.1 | | | | | | | | | | | | |
| 0.1 - 0.2 | | | | | | | | | | | | |
| 0.2 - 0.3 | | | | | | | | | | | | |
| 0.3 - 0.4 | | | | | | | | | | | | |
| 0.4 - 0.5 | | | | | | | | | | | | |
| 0.7 - 0.8 | | | | | | | | | | | | |

| 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/g - m3/m3 | | | | | | mm/h | mm/h |
| 0 - 0.1 | | | | | | | | | |
| 0.1 - 0.2 | | | | | | | | | |
| 0.2 - 0.3 | | | | | | | | | |
| 0.3 - 0.4 | | | | | | | | | |
| 0.4 - 0.5 | | | | | | | | | |
| 0.7 - 0.8 | | | | | | | | | |

**Project Name:** **Acids Soils in South Eastern Australia**
**Project Code:** **AcidSoils** **Site ID:** **AN249** **Observation ID:** **1**
**Agency Name:** **CSIRO Land and Water (ACT)**

**Laboratory Analyses Completed for this profile**

| | |
|---|---|
| 13_NR_AL | Extractable Al(%) - Not recorded |
| 15_NR_AL | Exchangeable aluminium - method not recorded |
| 15_NR_CA | Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded |
| 15_NR_K | Exch. basic cations (K++) - meq per 100g of soil - Not recorded |
| 15_NR_MG | Exch. basic cations (Mg++) - meq per 100g of soil - Not recorded |
| 15_NR_NA | Exch. basic cations (Na++) - meq per 100g of soil - Not recorded |
| 4B1 | pH of 1:5 soil/0.01M calcium chloride extract - direct |