

Project Name: Acids Soils in South Eastern Australia
Project Code: AcidSoils **Site ID:** AV7 **Observation ID:** 1
Agency Name: CSIRO Land and Water (ACT)

Site Information

| | | | |
|------------------------|---------------------------|-------------------|---------------------|
| Desc. By: | C.J. Chartres | Locality: | |
| Date Desc.: | 31/05/88 | Elevation: | 145 metres |
| Map Ref.: | Sheet No. : 8125 1:100000 | Rainfall: | No Data |
| Northing/Long.: | 6007900 AMG zone: 55 | Runoff: | Slow |
| Easting/Lat.: | 446400 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: | Level plain <9m <1% | Pattern Type: | Plain |
| Morph. Type: | Flat | Relief: | 1 metres |
| Elem. Type: | Plain | Slope Category: | Level |
| Slope: | 0.2 % | Aspect: | No Data |

Surface Soil Condition (dry):

Erosion:

Soil Classification

| | | | |
|--|--------------------------------|--------------------------------|-----|
| Australian Soil Classification: | N/A | Mapping Unit: | N/A |
| ASC Confidence: | Confidence level not specified | Principal Profile Form: | DN |
| | | Great Soil Group: | N/A |

Site Disturbance: Cultivation. Rainfed

Vegetation:

Tall Strata - Sod grass, <0.25m, Very sparse. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

| | | |
|----|--------------|--|
| Ap | 0 - 0.1 m | Dark yellowish brown (10YR3/4-Moist); ; Loam; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Few (2 - 10 %), Unidentified, Medium (2 -6 mm), Nodules; |
| A2 | 0.1 - 0.25 m | Brown (7.5YR4/4-Moist); Light brown (7.5YR6/4-Dry); ; Loam; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Few (2 - 10 %), Unidentified, Medium (2 -6 mm), Nodules; |
| B1 | 0.25 - 0.4 m | Strong brown (7.5YR4/6-Moist); ; Clay loam; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Few (2 - 10 %), Unidentified, Medium (2 -6 mm), Nodules; |
| B2 | 0.4 - 0.8 m | Strong brown (7.5YR5/6-Moist); , 10R48, 10-20% , 0-5mm, Prominent; Light clay; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Few (2 - 10 %), Unidentified, Medium (2 - 6 mm), Nodules; |

Morphological Notes

A2 Not bleached

Observation Notes

600 m from drainage line. Freshly sown oats paddock. Rutherglen loam.

Site Notes

Rutherglen, Benett's - manager Tom Bartell.

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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 - 0.1 | 5.05B | | 3.25K | 0.87 | 1.3 | | | | |
| 0.1 - 0.2 | 4.16B | | 2.34K | 0.36 | 0.62 | | | | |
| 0.2 - 0.3 | 5.31B | | 4.18K | 0.55 | 0.5 | | | | |
| 0.3 - 0.4 | 6.02B | | 4.39K | 0.77 | 0.37 | | | | |
| 0.4 - 0.5 | 6.23B | | | | | | | | |
| 0.7 - 0.8 | 6.75B | | | | | | | | |

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Laboratory Analyses Completed for this profile

| | |
|----------|--|
| 13_NR_AL | Extractable Al(%) - Not recorded |
| 13_NR_MN | Extractable Mn(%) - 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 |
| 4B1 | pH of 1:5 soil/0.01M calcium chloride extract - direct |