

**Project Name:** Acids Soils in South Eastern Australia  
**Project Code:** AcidSoils **Site ID:** AV1 **Observation ID:** 1  
**Agency Name:** CSIRO Land and Water (ACT)

#### Site Information

<b>Desc. By:</b>	C.J. Chartres	<b>Locality:</b>	
<b>Date Desc.:</b>	30/05/88	<b>Elevation:</b>	175 metres
<b>Map Ref.:</b>	Sheet No. : 8225 1:100000	<b>Rainfall:</b>	No Data
<b>Northing/Long.:</b>	6004700 AMG zone: 55	<b>Runoff:</b>	Very slow
<b>Easting/Lat.:</b>	455900 Datum: AGD66	<b>Drainage:</b>	Imperfectly drained

#### Geology

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

#### Land Form

<b>Rel/Slope Class:</b>	Level plain <9m <1%	<b>Pattern Type:</b>	Alluvial plain
<b>Morph. Type:</b>	Flat	<b>Relief:</b>	5 metres
<b>Elem. Type:</b>	Plain	<b>Slope Category:</b>	Level
<b>Slope:</b>	0.5 %	<b>Aspect:</b>	120 degrees

#### 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>	Gn2.34
		<b>Great Soil Group:</b>	N/A

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

#### Vegetation:

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

**Surface Coarse Fragments:** No surface coarse fragments

#### Profile Morphology

Ap	0 - 0.12 m	Brown (7.5YR4/4-Moist); ; Fine sandy loam (Heavy); Few (2 - 10 %), Unidentified, Medium (2 -6 mm), Nodules; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Nodules;
A2	0.12 - 0.3 m	Brown (7.5YR5/4-Moist); Very pale brown (10YR7/3-Dry); ; Clay loam, fine sandy; Common (10 - 20 %), Unidentified, Coarse (6 - 20 mm), Nodules; Common (10 - 20 %), Manganiferous, Coarse (6 - 20 mm), Nodules; Common (10 - 20 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Many (20 - 50 %), Manganiferous, , Nodules;
B2	0.3 - 0.5 m	Yellowish brown (10YR5/4-Moist); , 2.5YR36, 2-10% , 0-5mm, Distinct; Light clay (Light); Common (10 - 20 %), Unidentified, Coarse (6 - 20 mm), Nodules; Common (10 - 20 %), Manganiferous, Coarse (6 - 20 mm), Nodules; Common (10 - 20 %), Ferruginous, Coarse (6 - 20 mm), Nodules; Common (10 - 20 %), Ferruginous, , Nodules; Common (10 - 20 %), Manganiferous, , Nodules;
B22	0.5 - 0.8 m	Brownish yellow (10YR6/6-Moist); , 5YR58, 10-20% , 5-15mm, Distinct; Light medium clay; Very many (50 - 100 %), Unidentified, Coarse (6 - 20 mm), Nodules; Very many (50 - 100 %), Manganiferous, Coarse (6 - 20 mm), Nodules; Very many (50 - 100 %), Ferruginous, Coarse (6 - 20 mm), Nodules;

#### Morphological Notes

#### Observation Notes

500m approx from hill. Clover and grass paddock. Rutherglen loam (normal phase) a yellowish brown example, duplex, gradational textured brown, yellow brown acid profile. Alkaline trend, bleached A2 Pod. Red Earth (?)/ Pod. yellow earth (?).

#### Site Notes

Rutherglen Research Station.

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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
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