

Project Name: Acids Soils in South Eastern Australia
Project Code: AcidSoils **Site ID:** AV2 **Observation ID:** 1
Agency Name: CSIRO Land and Water (ACT)

Site Information

Desc. By:	C.J. Chartres	Locality:	
Date Desc.:	30/05/88	Elevation:	155 metres
Map Ref.:	Sheet No. : 8225 1:100000	Rainfall:	No Data
Northing/Long.:	6006300 AMG zone: 55	Runoff:	Slow
Easting/Lat.:	449000 Datum: AGD66	Drainage:	Imperfectly drained

Geology

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

Land Form

Rel/Slope Class:	Level plain <9m <1%	Pattern Type:	Rises
Morph. Type:	Lower-slope	Relief:	3 metres
Elem. Type:	Footslope	Slope Category:	Level
Slope:	0.5 %	Aspect:	150 degrees

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:	DY
		Great Soil Group:	N/A

Site Disturbance: Cultivation. Rainfed

Vegetation:

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

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

Ap	0 - 0.12 m	Very dark greyish brown (10YR3/2-Moist); ; Fine sandy loam; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments;
A2	0.12 - 0.3 m	Brown (10YR5/3-Moist); Light grey (10YR7/2-Dry); , 7.5YR58, 10-20% , 0-5mm, Distinct; Sandy clay loam, fine sandy; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; 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;
B21	0.3 - 0.5 m	Light yellowish brown (10YR6/4-Moist); , 2.5YR48, 2-10% , 0-5mm, Distinct; , 10YR56, 2-10% , 0-5mm, Distinct; Light clay; 0-2%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Very few (0 - 2 %), Unidentified, Coarse (6 - 20 mm), Nodules; Very few (0 - 2 %), Manganiferous, Coarse (6 - 20 mm), Nodules; Very few (0 - 2 %), Ferruginous, Coarse (6 - 20 mm), Nodules;
B22	0.5 - 0.7 m	Yellowish brown (10YR5/8-Moist); , 2.5YR62, 10-20% , 5-15mm, Distinct; Light clay; 0-2%, fine gravelly, 2-6mm, angular, Quartz, coarse fragments; Very few (0 - 2 %), Unidentified, Medium (2 - 6 mm), Nodules; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules;
B23	0.7 - 0.8 m	Pale red (2.5YR6/2-Moist); ; Light clay; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Very few (0 - 2 %), Unidentified, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules;

Morphological Notes

A2	bleached
B23	quartz grit

Observation Notes

Simple footslope 1.5 km from top of rise, clover and grass paddock, gradnl textured yellowish brown profile, weak A2, Acid with alkaline trend, Rutherglen loam (normal phase) podzolic red earth/podzolic yellow earth?

Site Notes

Rutherglen. Limed; 1987 1/3 tonne/acre. 1984 1/2 tonne/acre

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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 Cmol (+)/kg	Acidity		%
0 - 0.1	5.67B		4.3K	0.33	0.68	0.05			
0.1 - 0.2	4.12B		1.5K	0.12	0.25	0.11			
0.2 - 0.3	4.29B		2.15K	0.61	0.25	0.13			
0.3 - 0.4	5.12B		3.62K	1.94	0.29	0.58			
0.4 - 0.5	5.43B								
0.7 - 0.8	5.92B								

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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