

Project Name: Acids Soils in South Eastern Australia
Project Code: AcidSoils **Site ID:** AV42 **Observation ID:** 1
Agency Name: CSIRO Land and Water (ACT)

Site Information

Desc. By:	C.J. Chartres	Locality:	
Date Desc.:	02/06/88	Elevation:	180 metres
Map Ref.:	Sheet No. : 8025 1:100000	Rainfall:	No Data
Northing/Long.:	5971000 AMG zone: 55	Runoff:	Rapid
Easting/Lat.:	408700 Datum: AGD66	Drainage:	Moderately well 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:	Undulating low hills 30-90m 3-10%	Pattern Type:	Hills
Morph. Type:	Mid-slope	Relief:	50 metres
Elem. Type:	Hillslope	Slope Category:	Gently inclined
Slope:	3 %	Aspect:	260 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

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

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

Vegetation:

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

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

Ap	0 - 0.15 m	Dark brown (10YR3/3-Moist); ; Fine sandy loam; ; 2-10%, medium gravelly, 6-20mm, subrounded, Other, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Nodules;
A2	0.15 - 0.25 m	Pale brown (10YR6/3-Moist); White (10YR8/2-Dry); ; Fine sandy loam; 2-10%, coarse gravelly, 20-60mm, subangular, Other, coarse fragments; Few (2 - 10 %), Manganiferous, Medium (2 -6 mm), Nodules; Few (2 - 10 %), Ferruginous, Medium (2 -6 mm), Nodules;
B21	0.25 - 0.6 m	Yellowish brown (10YR5/8-Moist); , 2.5YR48, 10-20% , 5-15mm, Distinct; Light clay; 2-10%, coarse gravelly, 20-60mm, subangular, Other, coarse fragments; Very few (0 - 2 %), Manganiferous, Medium (2 -6 mm), Nodules; Very few (0 - 2 %), Ferruginous, Medium (2 -6 mm), Nodules;
B22	0.6 - 0.8 m	Brown (10YR5/3-Moist); , 10YR58, 10-20% , 5-15mm, Distinct; Light clay; 2-10%, medium gravelly, 6-20mm, subangular tabular, Other, coarse fragments;

Morphological Notes

Ap	~50% many 1cm hard mang. Nodules 10-25 cm
A2	~50% many 1cm hard mang. Nodules 10-25 cm, bleached. Some coarse rock fragments 2cm
B21	Some coarse rock fragments 2cm
B22	Some coarse rock fragments 2cm

Observation Notes

Hills 800m away 20m box, well drained reasonable perm. Thick grass and clover pasture. Yellow podzolic?

Site Notes

Goorambat

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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	4.15B		1.74K	0.46	0.42	0.14			
0.1 - 0.2	4.49B		1.08K	0.87	0.23	0.14			
0.2 - 0.3	5.07B		2.56K	3.08	0.42	0.34			
0.3 - 0.4	5.29B		3.48K	4.78	0.57	0.89			
0.4 - 0.5	5.37B								
0.7 - 0.8	5.54B								

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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