

Project Name: Hunter Valley Soil Survey
Project Code: HV **Site ID:** CP357 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By:	C.J. Chartres	Locality:	Roxburgh.
Date Desc.:	05/04/93	Elevation:	No Data
Map Ref.:	Sheet No. : 9033 1:100000	Rainfall:	No Data
Northing/Long.:	150.78611111	Runoff:	No Data
Easting/Lat.:	-32.37	Drainage:	No Data

Geology

ExposureType:	Undisturbed soil core	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	No Data

Land Form

Rel/Slope Class:	No Data	Pattern Type:	Low hills
Morph. Type:	Upper-slope	Relief:	30 metres
Elem. Type:	Hillslope	Slope Category:	Moderately inclined
Slope:	10 %	Aspect:	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

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

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.1 m	Brown (7.5YR4/4-Dry); ; Sandy clay loam; 0-2%, medium gravelly, 6-20mm, coarse fragments; Field pH 6 (Raupach); Many, fine (1-2mm) roots;
AB	0.1 - 0.2 m	Dark reddish brown (5YR3/4-Dry); ; Silty clay loam (Heavy); 0-2%, medium gravelly, 6-20mm, coarse fragments; Field pH 9 (Raupach); Common, fine (1-2mm) roots;
B2	0.2 - 0.4 m	Red (2.5YR4/6-Moist); ; Light clay; 2-10%, medium gravelly, 6-20mm, coarse fragments; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Soft segregations; Common, fine (1-2mm) roots;
B2k	0.4 - 0.55 m	Yellowish red (5YR5/6-Moist); ; Light medium clay; 10-20%, coarse gravelly, 20-60mm, coarse fragments; Many (20 - 50 %), Calcareous, Coarse (6 - 20 mm), Soft segregations; , Calcareous, Coarse (6 - 20 mm), Nodules; Field pH 9 (Raupach); Few, very fine (0-1mm) roots;

Morphological Notes

B2k Soil too hard to sample below 60 cm.

Observation Notes

Site Notes

As for CP356. 2-3 metres out of vines. Black grapes.

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.1	7.1D	0.19A	18.33H	2.27	2.08	0.04			22.72D	
0.1 - 0.2	7.52D	0.162A	17.61H	2.84	2.05	0.15			22.66D	
0.2 - 0.4	7.62D	0.142A	21.06H	4.93	2.63	0.09			28.72D	
0.4 - 0.6	7.65D		17.26H	6.3	2.12	0.25			25.94D	

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle GV	Size CS	Analysis FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1		2.15A	3J									
0.1 - 0.2												
0.2 - 0.4												
0.4 - 0.6												

Depth	COLE	Sat.	Gravimetric/Volumetric Water Contents	K sat	K unsat
m			0.05 Bar 0.1 Bar 0.5 Bar 1 Bar 5 Bar 15 Bar	mm/h	mm/h
			g/g - m3/m3		
0 - 0.1					
0.1 - 0.2					
0.2 - 0.4					
0.4 - 0.6					

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Laboratory Analyses Completed for this profile

15_NR_AL	Exchangeable aluminium - method not recorded
15E1_CA	Exchangeable bases (Ca ²⁺ ,Mg ²⁺ ,Na ⁺ ,K ⁺) by compulsive exchange, no pretreatment for soluble
15E1_K	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MG	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15J_BASES	Sum of Bases
3A1	EC of 1:5 soil/water extract
4C1	pH of 1:5 soil/1M potassium chloride extract - direct
6A1	Organic carbon - Walkley and Black
9B1	Bicarbonate-extractable phosphorus - manual colour