Project Name: Hunter Valley Soil Survey

Project Code: HV Site ID: CP352 Observation ID: 1

Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By: Date Desc.: C.J. Chartres Locality: Roxburgh. Elevation: No Data 05/04/93 Sheet No.: 9033 Map Ref.: 1:100000 Rainfall: No Data Northing/Long.: 150.81305556 Runoff: No Data Easting/Lat.: -32.34388889 Drainage: No Data

<u>Geology</u>

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

Land Form

Rel/Slope Class:Steep hills 90-300m 32-56%Pattern Type:No DataMorph. Type:Mid-slopeRelief:100 metresElem. Type:HillslopeSlope Category:Moderately inclinedSlope:15 %Aspect:360 degrees

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/ARed SodosolPrincipal Profile Form:N/AASC Confidence:Great Soil Group:Solodic soil

Confidence level not specified

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.1 m	Yellowish brown (10YR5/4-Dry);; Sandy loam (Heavy); 2-10%, medium gravelly, 6-20mm, angular, coarse fragments; Few, fine (1-2mm) roots;
A2	0.1 - 0.2 m	Brown (7.5YR5/4-Dry); ; Sandy loam (Heavy); 20-50%, medium gravelly, 6-20mm, angular, coarse fragments; Common, fine (1-2mm) roots;
B21	0.2 - 0.5 m	Brown (7.5YR4/4-Moist); ; Medium clay; Few, fine (1-2mm) roots;
B22	0.5 - 0.8 m	Yellowish red (5YR4/6-Moist); ; Medium clay; 0-2%, fine gravelly, 2-6mm, subrounded, coarse fragments; Few (2 - 10 %), Calcareous, Medium (2 -6 mm), Soft segregations; Few, very fine (0-1mm) roots;
ВС	0.8 - 1 m	Yellowish red (5YR5/8-Moist); ; Sandy clay; 2-10%, fine gravelly, 2-6mm, subrounded, coarse fragments; Common (10 - 20 %), Calcareous, Fine (0 - 2 mm), Soft segregations; Few, very fine (0-1mm) roots;

Morphological Notes

B22 Carbonate from approximately 60 cm, but irregular.

Observation Notes

Site Notes

Liddell land system. Tall grass pasture.

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Laboratory Test Results:

Laboratory	rest Re	Suits:								
Depth	рН	1:5 EC		hangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m	Ca	wig	K	Cmol (+				%
0 - 0.1 0.1 - 0.2 0.2 - 0.4 0.5 - 0.7 0.8 - 1	5.01D 6.2D 6.8D 7.62D 7.81D	0.087A 0.125A 0.288A 0.918A 0.903A	8.24H 8.01H	3.81 6.35 13.22 14.22 13.71	0.87 0.35 0.45 0.28 0.24	0.25 0.78 2.95 9.82 7.04			13.17 15.77 24.65 34.96 32.44	D D D
Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Tota K	I Bulk Density	Pa GV	rticle Size	Analysis Silt Clay
m	%	%	mg/kg	%	%	%	Mg/m3	GV	%	Silt Clay
0 - 0.1 0.1 - 0.2 0.2 - 0.4 0.5 - 0.7 0.8 - 1		2.65A	3J							
Depth	COLE		Grav	/imetric/Vo	olumetric V	Vater Cor	ntents		K sat	K unsat
m		Sat.	0.05 Bar	0.1 Bar g/	0.5 Bar /g - m3/m	1 Bar 3	5 Bar 15	Bar	mm/h	mm/h
0 - 0.1 0.1 - 0.2 0.2 - 0.4 0.5 - 0.7 0.8 - 1										

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Laboratory Analyses Completed for this profile

15_NR_AL Exchangeable aluminium - method not recorded

15E1_CA 15E1_K 15E1_MG 15E1_NA Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts 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

pH of 1:5 soil/1M potassium chloride extract - direct Organic carbon - Walkley and Black 4C1

6A1

9B1 Bicarbonate-extractable phosphorus - manual colour