Project Name: CAN
Project Code: CAN **Site ID:** CP59 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (ACT)

Site Information

Desc. By: J.R. Sleeman
Date Desc.: 24/11/75
Map Ref.: Sheet No. : 8727 1:100000
Northing/Long.: 149.1
Easting/Lat.: -35.2
Locality: Experimental Station
Elevation: 650 metres
Rainfall: 630
Runoff: Moderately rapid
Drainage: Moderately well drained

Geology

ExposureType: No Data
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: Non-porous, dense, Siltstone

Land Form

Rel/Slope Class: Rolling low hills 30-90m 10-
Morph. Type: Lower-slope
Elem. Type: Hillslope
Slope: 5 %
Pattern Type: Low hills
Relief: No Data
Slope Category: Gently inclined
Aspect: 200 degrees

Surface Soil Condition (dry): Soft

Erosion:

Soil Classification

Australian Soil Classification:
Calcic Subnatric Brown Sodosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Dy2.34
Great Soil Group: Solodic soil

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

Vegetation: Low Strata - Sod grass, , Mid-dense. *Species includes - None recorded

Surface Coarse Fragments: 2-10%, fine gravelly, 2-6mm, , Siltstone

Profile Morphology

A1	0 - 0.1 m	Brown (10YR5/3-Moist); ; Fine sandy loam (Heavy); Massive grade of structure; Very weak consistence; Few (2 - 10 %), Ferruginous, Fine (0 - 2 mm), Soft segregations; Field pH 5.7 (pH meter); Clear change to -
A2	0.1 - 0.27 m	Pale brown (10YR6/3-Moist); ; Fine sandy loam; Massive grade of structure; Firm consistence; Few (2 - 10 %), Ferruginous, Fine (0 - 2 mm), Soft segregations; Field pH 6.5 (pH meter); Abrupt change to -
B1	0.27 - 0.34 m	Brown (10YR5/3-Moist); ; Light medium clay; Massive grade of structure; Firm consistence; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Soft segregations; Field pH 7.4 (pH meter); Abrupt change to -
B2	0.34 - 0.52 m	Yellowish brown (10YR5/4-Moist); ; Medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Very firm consistence; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Soft segregations; Field pH 7.6 (pH meter); Sharp change to -
2B2k	0.52 - 0.83 m	Brownish yellow (10YR6/5-Moist); ; Medium clay; Strong grade of structure, 20-50 mm, Angular blocky; Very strong consistence; Common (10 - 20 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Few (2 - 10 %), Calcareous, , ; Field pH 8.1 (pH meter); Gradual change to -
2B2k	0.84 - 1.06 m	; Medium clay (Light); Strong grade of structure, 20-50 mm, Angular blocky; Very strong consistence; Common (10 - 20 %), Manganiferous, Medium (2 -6 mm), Soft segregations; Few (2 - 10 %), Calcareous, , ; Field pH 8.2 (pH meter);

Morphological Notes

Observation Notes

SILTSTONE SUBSTRATE MATERIAL NOT CONFIRMED:UNDERLIE >52CM:A2 SL. BLEACHED

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.1	5.7A	0.1A	1.9K	0.74	0.14	0.17	6.2B	9.1J		1.87
0.1 - 0.27	6.5A	0.11A	2.3K	0.68	0.06	0.14	0.3E	3.5J		4.00
0.27 - 0.34	7.4A	0.14A	5K	2.4	0.12	0.58	0.5E	8.6J		6.74
0.34 - 0.52	7.6A	0.22A	8.4K	5.8	0.25	1	0.9E	16.4J		6.10
0.52 - 0.83	8.1A	0.21A	7.1K	8.5	0.29	1.3	0.3E	17.5J		7.43
0.84 - 1.06	8.2A	0.17A	6.4K	7.1	0.23	0.96	0E	13.8J		6.96

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis			
								GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.1		1.97D	15A		0.185B				3D	53	29	11
0.1 - 0.27		0.54D	1A		0.062B				3D	53	34	10
0.27 - 0.34		0.38D	0A		0.054B				2D	41	30	27
0.34 - 0.52		0.38D	0A		0.06B				1D	24	29	47
0.52 - 0.83	0.1A	0.19D	0A		0.037B				1D	32	23	45
0.84 - 1.06	0.16C	0.09D	0A		0.03B				6D	37	22	36

Depth	COLE	Gravimetric/Volumetric Water Contents						K sat	K unsat
		Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar		
m		g/g - m3/m3							mm/h	mm/h
0 - 0.1										
0.1 - 0.27										
0.27 - 0.34										
0.34 - 0.52										
0.52 - 0.83										
0.84 - 1.06										

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Laboratory Analyses Completed for this profile

15_NR_CA	Exch. basic cations (Ca++) - meq per 100g of soil - Not recorded
15_NR_CEC	CEC - 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
15G_C_AL1	Exchangeable aluminium - meq per 100g of soil - Aluminium By difference of C and A or B
15G1_H	Hydrogen Cation - meq per 100g of soil - 1M KCl Exch. Acidity By titration to pH 8.0
19A1	Carbonates - rapid titration
19B_NR	Calcium Carbonate (CaCO3) - Not recorded
2A1	Air-dry moisture content
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
5A2	Chloride - 1:5 soil/water extract, automated colour
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7_NR	Total nitrogen (%) - Not recorded
9B_9C	Available P (mg/kg) - Bicarbonate P - 0.5M NaHCO3 extractable
P10_PB_C	Clay (%) - Plummet balance
P10_PB_CS	Coarse sand (%) - Plummet balance
P10_PB_FS	Fine sand (%) - Plummet balance
P10_PB_Z	Silt (%) - Plummet balance