Project Name: CAN
Project Code: CAN **Site ID:** CP152 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By:	G.A. Stewart	**Locality:**	Karoo 3.3KM from Coonamble/Toorawewah Road:Coonamble 14.6KM
Date Desc.:	13/06/79	**Elevation:**	200 metres
Map Ref.:	Sheet No. : SH8635 1:100000	**Rainfall:**	500
Northing/Long.:	148.6	**Runoff:**	Very slow
Easting/Lat.:	-31.0666666666667	**Drainage:**	Imperfectly drained

Geology

ExposureType:	No Data	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	No Data	**Substrate Material:**	Slightly porous, Unconsolidated material (unidentified)

Land Form

Rel/Slope Class:	Level plain <9m <1%	**Pattern Type:**	Alluvial plain
Morph. Type:	Flat	**Relief:**	No Data
Elem. Type:	Plain	**Slope Category:**	Level
Slope:	0 %	**Aspect:**	No Data

Surface Soil Condition (dry): Self-mulching, Recently cultivated

Erosion:

Soil Classification

Australian Soil Classification:
Epicalcareous-Endohypersodic Self-Mulching Black Vertosol

Mapping Unit: N/A
Principal Profile Form: Ug5.15

ASC Confidence:
Analytical data are incomplete but reasonable confidence.

Great Soil Group: Black earth

Site Disturbance: Cultivation. Rainfed

Vegetation:

Surface Coarse Fragments: 0-2%, medium gravelly, 6-20mm, rounded,

Profile Morphology

0 - 0.08 m	Very dark greyish brown (10YR3/2-Moist); ; Medium heavy clay; Weak grade of structure, 5-10 mm, Angular blocky; Very firm consistence; 0-2%, medium gravelly, 6-20mm, rounded, dispersed, coarse fragments; Field pH 7.3 (pH meter);
0.08 - 0.2 m	Very dark greyish brown (10YR3/2-Moist); ; Medium heavy clay; Moderate grade of structure, 5-10 mm, Angular blocky; Weak consistence; Field pH 7.9 (pH meter);
0.2 - 0.3 m	Very dark greyish brown (10YR3/2-Moist); ; Medium heavy clay; Moderate grade of structure, 5-10 mm, Angular blocky; Firm consistence; Field pH 8.7 (pH meter);
0.3 - 0.4 m	Very dark grey (10YR3/1-Moist); ; Medium heavy clay; Moderate grade of structure, 5-10 mm, Angular blocky; Firm consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 8.9 (pH meter);
0.4 - 0.5 m	Very dark grey (10YR3/1-Moist); ; Medium heavy clay; Moderate grade of structure, 5-10 mm, Angular blocky; Firm consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Concretions; Field pH 9 (pH meter);
0.5 - 0.6 m	Very dark grey (10YR3/1-Moist); ; Medium heavy clay; Moderate grade of structure, 5-10 mm, Angular blocky; Firm consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 9.1 (pH meter);
0.6 - 0.7 m	Very dark grey (10YR3/1-Moist); ; Medium heavy clay; Moderate grade of structure, 5-10 mm, Angular blocky; Firm consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Concretions; Field pH 9.1 (pH meter);
0.7 - 0.8 m	Dark greyish brown (10YR4/2-Moist); , 7.5YR43, 20-50% ; , 20-50% ; Medium heavy clay; Moderate grade of structure, 2-5 mm, Angular blocky; Firm consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 9.1 (pH meter);
0.8 - 0.9 m	Dark greyish brown (10YR4/2-Moist); , 7.5YR43, 20-50% ; , 20-50% ; Medium heavy clay; Moderate grade of structure, 2-5 mm, Angular blocky; Firm consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.9 (pH meter);

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0.9 - 1 m	Dark greyish brown (10YR4/2-Moist); , 7.5YR43, 20-50% ; , 20-50% ; Medium heavy clay; Moderate grade of structure, 2-5 mm, Angular blocky; Firm consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 8.8 (pH meter);
1 - 1.1 m	Dark greyish brown (10YR4/2-Moist); , 7.5YR43, 20-50% ; , 20-50% ; Medium heavy clay; Moderate grade of structure, 2-5 mm, Angular blocky; Firm consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Concretions; Field pH 9 (pH meter);
1.1 - 1.2 m	Dark greyish brown (10YR4/2-Moist); , 7.5YR43, 20-50% ; , 20-50% ; Medium heavy clay; Moderate grade of structure, 2-5 mm, Angular blocky; Firm consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 8.9 (pH meter);
1.2 - 1.3 m	Light brown (7.5YR6/4-Moist); ; Medium heavy clay; Moderate grade of structure, 2-5 mm, Angular blocky; Firm consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.8 (pH meter);
1.3 - 1.4 m	Light brown (7.5YR6/4-Moist); ; Medium heavy clay; Moderate grade of structure, 2-5 mm, Angular blocky; Firm consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 8.8 (pH meter);
1.4 - 1.5 m	Light brown (7.5YR6/4-Moist); ; Medium heavy clay; Moderate grade of structure, 2-5 mm, Angular blocky; Firm consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.8 (pH meter);
1.5 - 1.6 m	Light brown (7.5YR6/4-Moist); ; Medium heavy clay; Moderate grade of structure, 2-5 mm, Angular blocky; Firm consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 8.4 (pH meter);
1.6 - 1.7 m	Light brown (7.5YR6/4-Moist); ; Medium heavy clay; Moderate grade of structure, 2-5 mm, Angular blocky; Firm consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.3 (pH meter);
1.7 - 1.8 m	Light brown (7.5YR6/4-Moist); ; Medium heavy clay; Moderate grade of structure, 2-5 mm, Angular blocky; Firm consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 8.1 (pH meter);
1.8 - 1.9 m	Light brown (7.5YR6/4-Moist); ; Medium heavy clay; Moderate grade of structure, 2-5 mm, Angular blocky; Firm consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8 (pH meter);
1.9 - 2 m	Light brown (7.5YR6/4-Moist); ; Medium heavy clay; Moderate grade of structure, 2-5 mm, Angular blocky; Firm consistence; Moderately plastic; Slightly sticky; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 7.8 (pH meter);

Morphological Notes

Observation Notes

>120CM OCCASIONALLY SMALL SHINY FACES

Site Notes

COONAMBLE

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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 - 0.08	7.3A	0.15A	18.7K	3	2.2	0.63	7.3B	31.8J		1.98
0.08 - 0.2	7.9A	0.08A								
0.2 - 0.3	8.7A	0.1A								
0.3 - 0.4	8.9A	0.17A								
0.4 - 0.5	9A	0.2A								
0.5 - 0.6	9.1A	0.23A								
0.6 - 0.7	9.1A	0.27A								
0.7 - 0.8	9.1A	0.31A								
0.8 - 0.9	8.9A	0.34A								
0.9 - 1	8.8A	0.4A								
1 - 1.1	9A	0.45A								
1.1 - 1.2	8.9A	0.49A								
1.2 - 1.3	8.8A	0.54A								
1.3 - 1.4	8.8A	0.58A								
1.4 - 1.5	8.8A	0.58A								
1.5 - 1.6	8.4A	0.51A								
1.6 - 1.7	8.3A	0.49A								
1.7 - 1.8	8.1A	0.5A								
1.8 - 1.9	8A	0.48A								
1.9 - 2	7.8A	0.49A								

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 - 0.08		1.21D							12D	27	15	44
0.08 - 0.2												
0.2 - 0.3												
0.3 - 0.4												
0.4 - 0.5												
0.5 - 0.6												
0.6 - 0.7												
0.7 - 0.8												
0.8 - 0.9												
0.9 - 1												
1 - 1.1												
1.1 - 1.2												
1.2 - 1.3												
1.3 - 1.4												
1.4 - 1.5												
1.5 - 1.6												
1.6 - 1.7												
1.7 - 1.8												
1.8 - 1.9												
1.9 - 2												

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 - 0.08								0.18B	

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0.08 - 0.2
0.2 - 0.3
0.3 - 0.4
0.4 - 0.5
0.5 - 0.6
0.6 - 0.7
0.7 - 0.8
0.8 - 0.9
0.9 - 1
1 - 1.1
1.1 - 1.2
1.2 - 1.3
1.3 - 1.4
1.4 - 1.5
1.5 - 1.6
1.6 - 1.7
1.7 - 1.8
1.8 - 1.9
1.9 - 2

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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
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
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
P3B_GV_15	15 BAR Moisture g/g - Gravimetric using pressure plate