Project Name: CAN

Project Code: CAN Site ID: C122 Observation ID: 1

Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By: H.M. Churchwood Locality: County Townsend Parish Morago portion 21 (near

s.w. corner)

Date Desc.: 01/04/55 Elevation: 150 metres Map Ref.: Sheet No.: 7827 1:100000 Rainfall: 410 Northing/Long.: 144.766666666667 Runoff: Very slow Easting/Lat.: -35.4166666666667 Well drained Drainage:

Geology

ExposureType: No Data Conf. Sub. is Parent. Mat.: No Data

Geol. Ref.: No Data Substrate Material: Porous, Unconsolidated material

(unidentified)

Land Form

Rel/Slope Class:Level plain <9m <1%</th>Pattern Type:Alluvial plainMorph. Type:FlatRelief:No DataElem. Type:Valley flatSlope Category:LevelSlope:<1 %</th>Aspect:100 degrees

Surface Soil Condition (dry): Firm

Erosion:

Soil Classification

Australian Soil Classification:Mapping Unit:N/AEpicalcareous-Endohypersodic Massive Brown VertosolPrincipal Profile Form:N/AASC Confidence:Great Soil Group:N/A

No analytical data are available but confidence is fair.

Site Disturbance: Cultivation. Rainfed

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

Surface Coarse Fragments:

Profile Morphology

0 - 0.03 m Brownish yellow (10YR6/6-Moist); ; Light clay; Weak grade of structure, 5-10 mm, Platy; Weak consistence; Very few (0 - 2 %), Calcareous, Fine (0 - 2 mm), Concretions; Field pH 8.4 (pH

meter);

 $0.03 - 0.1 \, m \qquad \text{Reddish brown (5YR5/4-Moist); , } 10YR63, 20-50\% \, ; \, 20-50\% \, ; \, \text{Light clay; } 10-20 \, mm, \, \text{Subangular to the clay is a subangular to the cla$

blocky; Moderate grade of structure, 50-100 mm, Prismatic; Firm consistence; Few (2 - 10 %),

Calcareous, , Concretions; Field pH 9.1 (pH meter); Gradual change to -

0.1 - 0.2 m Strong brown (7.5YR5/6-Moist); ; Light clay (Heavy); 10-20 mm, Angular blocky; Strong grade of

structure, 100-200 mm, Prismatic; Firm consistence; Common (10 - 20 %), Calcareous, ,

Concretions; Field pH 9.4 (pH meter);

0.2 - 0.28 m Strong brown (7.5YR5/6-Moist); ; Light medium clay; 10-20 mm, Angular blocky; Strong grade of

structure, 100-200 mm, Prismatic; Firm consistence; Common (10 - 20 %), Calcareous,

Concretions; Field pH 9.2 (pH meter);

0.28 - 0.38 m Yellowish brown (10YR5/6-Moist); ; Light clay (Light); 20-50 mm, Angular blocky; Moderate grade

of structure, 100-200 mm, Angular blocky; Firm consistence; Common (10 - 20 %), Calcareous,

, Concretions; Field pH 9 (pH meter);

0.53 - 0.61 m ; Light medium clay; 10-20 mm, Subangular blocky; Weak grade of structure, 50-100 mm,

Prismatic; Very firm consistence; Few (2 - 10 %), Calcareous, , Concretions; Field pH 9 (pH

meter);

0.66 - 0.79 m ; Light clay; Weak grade of structure, 20-50 mm, Subangular blocky; Very firm consistence; Very

few (0 - 2 %), Calcareous, , Concretions; Field pH 9.2 (pH meter);

0.89 - 0.99 m ; Medium clay; Weak grade of structure, 20-50 mm, Subangular blocky; Strong consistence;

Field pH 8.6 (pH meter);

1.22 - 1.42 m Olive (5Y5/4-Moist); , 2.5Y61, 20-50%; , 20-50%; Light medium clay; Very firm consistence;

Field pH 8 (pH meter);

1.68 - 1.83 m Olive (5Y5/4-Moist); , 2.5Y61; Light medium clay; Very firm consistence; Field pH 7.3 (pH

meter);

Morphological Notes

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<u>Observation Notes</u>
WIDGELLI PARNA SANDY MATERIAL DOWN CRACKS 0-28CM

Site Notes DENIMEIN

CAN

Observation ID: 1

Project Name: Project Code: Agency Name: CAN Site ID: C122 CSIRO Division of Soils (NSW)

Laboratory Test Results:												
Depth	рН	1:5 EC	Exc	hangeable (Cations	E	xchangeable	CEC		ECEC	E	ESP
•	•		Ca I	Иg	K	Na	Acidity					
m		dS/m				Cmol (+)	/kg				•	%
0 - 0.03	8.4A	0.146A										
0.03 - 0.1	9.1A	0.188A										
0.1 - 0.2	9.4A	0.458A										
0.2 - 0.28	9.2A	1.06A										
0.28 - 0.38	9A	1.33A										
0.53 - 0.61	9A	1.68A										
0.66 - 0.79	9.2A	1.34A										
0.89 - 0.99 1.22 - 1.42	8.6A 8A	1.44A 1.32A										
1.68 - 1.83	7.3A	1.32A 1.33A										
1.00 - 1.03	7.3A	1.33A										
Depth	CaCO3	Organic	Avail.	Total	Total	Total	Bulk	P	article	Size	Analysis	
		С	Р	Р	N	K	Density	G۷	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.03		0.96D		0.059D	0.10				23D	_		26
0.03 - 0.1		0.67D		0.052D	0.069				18D	_		36
0.1 - 0.2		0.45D		0.045D	0.042	2B			20D	_		39
0.2 - 0.28									20D	_	_	36
0.28 - 0.38									20D			34
0.53 - 0.61									9D	23	_	40
0.66 - 0.79									9D	24		39
0.89 - 0.99									9D	22		49
1.22 - 1.42									10D	_	_	52
1.68 - 1.83									10D	19	18	53
Depth	COLE		Grav	Gravimetric/Volumetric Water Contents					K sat K unsat			
		Sat.	0.05 Bar		0.5 Bar	1 Bar	5 Bar 15	Bar				
m				g/g - m3/m3					mm/h		mm/h	
0 0 00												
0 - 0.03												
0.03 - 0.1												

0.1 - 0.2 0.2 - 0.28 0.28 - 0.38

0.28 - 0.38 0.53 - 0.61 0.66 - 0.79 0.89 - 0.99 1.22 - 1.42 1.68 - 1.83

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Laboratory Analyses Completed for this profile

Air-dry moisture content 2A1 3A1 EC of 1:5 soil/water extract 4A1

pH of 1:5 soil/water suspension Chloride - 1:5 soil/water extract, automated colour 5A2

6A1_UC

Organic carbon (%) - Uncorrected Walkley and Black method Total nitrogen (%) - Not recorded Total element - P(%) - By boiling HCl 7_NR 9A_HCL Clay (%) - Plummet balance

P10_PB_C P10_PB_CS P10_PB_FS Coarse sand (%) - Plummet balance Fine sand (%) - Plummet balance P10_PB_Z Silt (%) - Plummet balance