

Project Name: CAN
Project Code: CAN **Site ID:** CP193 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By:	D. McGarry	Locality:	Paddock C2 Cotton Research Unit Narrabri
Date Desc.:	07/05/80	Elevation:	205 metres
Map Ref.:	Sheet No. : 8837 1:100000	Rainfall:	640
Northing/Long.:	149.583333333333	Runoff:	Very slow
Easting/Lat.:	-30.2	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): Cracking, Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:	Mapping Unit:	N/A
Epicalcareous-Endohypersodic Self-Mulching Black Vertosol	Principal Profile Form:	Ug5.15

ASC Confidence:

All necessary analytical data are available.

Great Soil Group:

Grey clay

Site Disturbance: Cultivation. Irrigated, past or present

Vegetation:

Tall Strata - Forb, 1.01-3m, Closed or dense. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

0.1 - 0.13 m	Greyish brown (10YR5/2-Dry); ; Light clay; Weak grade of structure, Granular; Coarse, (10 - 20) mm crack; Very firm consistence; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8 (pH meter); Abrupt, Smooth change to -
0.13 - 0.22 m	Very dark grey (10YR3/1-Moist); Greyish brown (10YR5/2-Dry); ; Medium clay; Strong grade of structure, 50-100 mm, Prismatic; Very coarse, (20 - 50) mm crack; Very firm consistence; Very few (0 - 2 %), Calcareous, , Concretions; Field pH 8 (pH meter); Abrupt, Smooth change to -
0.22 - 0.3 m	Very dark grey (10YR3/1-Moist); ; Medium clay; Strong grade of structure, Prismatic; 100-200 mm, Lenticular; Coarse, (10 - 20) mm crack; Very firm consistence; Very few (0 - 2 %), Calcareous, , Concretions; Field pH 8.5 (pH meter); Abrupt, Smooth change to -
0.3 - 0.8 m	Very dark grey (10YR3/1-Moist); , 10YR43, 2-10% , 15-30mm, Distinct; , 10YR33, 2-10% , 15-30mm, Distinct; Medium clay; , Lenticular; 50-100 mm, Prismatic; Medium, (5 - 10) mm crack; Very firm consistence; Common (10 - 20 %), Calcareous, , Concretions; Field pH 8.8 (pH meter); Diffuse, Tongued change to -
0.8 - 1.5 m	Brown (10YR4/3-Moist); , 10YR43; , 10YR31; Medium clay; Massive grade of structure; Fine, (0 - 5) mm crack; Very firm consistence; Common (10 - 20 %), Calcareous, , Concretions; Field pH 8.8 (pH meter);

Morphological Notes

Observation Notes

LAND-PLANED:SEDIMENTS DERIVED FROM BASALTIC (MAJOR)/SEDIMENTARY ROCKS

Site Notes

NARRABRI

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations			Exchangeable	CEC	ECEC	ESP
m		dS/m	Ca	Mg	K	Na	Acidity		%
						Cmol	(+)/kg		
0 - 0.1	8A	0.09A	24.5K	12.4	1.8	1.2	9B	48.9J	2.45
0.1 - 0.2	8A	0.09A	24.3K	12.4	1.7	1.3	6.7B	46.4J	2.80
0.2 - 0.3	8.5A	0.12A	24.8K	14	0.87	2.1	9.2B	51J	4.12
0.3 - 0.4	8.7A	0.16A	24K	14.7	0.8	3.2	8B	50.7J	6.31
0.4 - 0.5	8.8A	0.18A							

Depth m	CaCO3	Organic	Avail.	Total	Total	Total	Bulk Density Mg/m3	Particle		Size FS %	Analysis	
	%	C %	P mg/kg	P %	N %	K %		GV	CS		Silt	Clay
0 - 0.1	0.13A	0.85A	61.3A		0.07B				3D	15	19	62
0.1 - 0.2		0.73A			0.063B							
0.2 - 0.3		0.5A										
0.3 - 0.4	0.77A	0.47A							2D	12	17	65
0.4 - 0.5												

[illegible]

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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
19A1	Carbonates - rapid titration
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	Organic carbon - Walkley and Black
7_NR	Total nitrogen (%) - Not recorded
9B_9C	Available P (mg/kg) - Bicarbonate P - 0.5M NaHCO ₃ 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