

Project Name: CAN
Project Code: CAN **Site ID:** CP153 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By:	G.A. Stewart	Locality:	2.7KM from main Gilgandra/Coonabarabran Rd.
Date Desc.:	13/06/79	Elevation:	460 metres
Map Ref.:	Sheet No. : SH8635 1:100000	Rainfall:	500
Northing/Long.:	148.966666666667	Runoff:	Very slow
Easting/Lat.:	-31.5	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:	Gently undulating plains <9m 1-3%	Pattern Type:	Plain
Morph. Type:	Mid-slope	Relief:	No Data
Elem. Type:	Hillslope	Slope Category:	Very gently sloped
Slope:	2 %	Aspect:	20 degrees

Surface Soil Condition (dry): Cracking, Self-mulching

Erosion:

Soil Classification

Australian Soil Classification:	Endocalcareous-Endohypersodic Self-Mulching Black Vertisol	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: Low Strata - Sod grass, <0.25m, Closed or dense. *Species includes - Avena sativa
Tall Strata - Tree, , Isolated plants. *Species includes - Eucalyptus species

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

0 - 0.04 m	Very dark greyish brown (10YR3/2-Moist); ; Medium heavy clay; Weak grade of structure, 5-10 mm, Angular blocky; Very firm consistence; Field pH 6.7 (pH meter);
0.04 - 0.1 m	Very dark brown (10YR2/2-Moist); ; Medium heavy clay; Moderate grade of structure, 5-10 mm, Angular blocky; Weak consistence; Moderately plastic; Slightly sticky; Field pH 6.9 (pH meter);
0.1 - 0.2 m	Very dark brown (10YR2/2-Moist); ; Medium heavy clay; Moderate grade of structure, 5-10 mm, Angular blocky; Weak consistence; Moderately plastic; Slightly sticky; Field pH 7.1 (pH meter);
0.2 - 0.3 m	Very dark greyish brown (10YR3/2-Moist); ; Medium heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Firm consistence; Field pH 7.5 (pH meter);
0.3 - 0.4 m	Very dark greyish brown (10YR3/2-Moist); ; Medium heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Firm consistence; Field pH 7.9 (pH meter);
0.4 - 0.5 m	Very dark greyish brown (10YR3/2-Moist); ; Medium heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Firm consistence; Field pH 8.2 (pH meter);
0.5 - 0.6 m	Very dark greyish brown (10YR3/2-Moist); ; Medium heavy clay; Moderate grade of structure, 10-20 mm, Angular blocky; Firm consistence; Field pH 8.4 (pH meter);
0.6 - 0.7 m	Dark brown (7.5YR3/3-Moist); ; Medium heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Firm consistence; Many (20 - 50 %), Calcareous, , Soft segregations; Field pH 8.5 (pH meter);
0.7 - 0.8 m	Dark brown (7.5YR3/3-Moist); , 10YR34, 0-2% ; , 0-2% ; Medium heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Firm consistence; Many (20 - 50 %), Calcareous, , Concretions; Field pH 8.5 (pH meter);
0.8 - 0.9 m	Dark brown (7.5YR3/3-Moist); , 10YR34, 2-10% ; , 2-10% ; Medium heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Firm consistence; Many (20 - 50 %), Calcareous, , Soft segregations; Field pH 8.6 (pH meter);

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0.9 - 1 m	Dark brown (7.5YR3/3-Moist); , 10YR34, 2-10% ; , 2-10% ; Medium heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Very firm consistence; Many (20 - 50 %), Calcareous, , Concretions; Field pH 8.6 (pH meter);
1 - 1.1 m	Dark brown (7.5YR3/3-Moist); , 10YR34, 10-20% ; , 10-20% ; Medium heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Very firm consistence; Many (20 - 50 %), Calcareous, , Soft segregations; Field pH 8.5 (pH meter);
1.1 - 1.2 m	Dark brown (7.5YR3/3-Moist); , 10YR34, 10-20% ; , 10-20% ; Medium heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Very firm consistence; Many (20 - 50 %), Calcareous, , Concretions; Field pH 8.4 (pH meter);
1.2 - 1.3 m	Dark brown (7.5YR3/3-Moist); , 10YR34, 20-50% ; , 20-50% ; Medium heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Very firm consistence; Many (20 - 50 %), Calcareous, , Soft segregations; Field pH 8.3 (pH meter);
1.3 - 1.4 m	Dark brown (7.5YR3/3-Moist); , 10YR34, 20-50% ; , 20-50% ; Medium heavy clay; Strong grade of structure, 10-20 mm, Angular blocky; Very firm consistence; Many (20 - 50 %), Calcareous, , Concretions; Field pH 8.3 (pH meter);
1.4 - 1.5 m	Dark yellowish brown (10YR3/4-Moist); , 7.5YR33, 20-50% ; , 20-50% ; Medium clay; 5-10 mm, Angular blocky; Firm consistence; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 8.3 (pH meter);
1.5 - 1.6 m	Dark yellowish brown (10YR3/4-Moist); , 7.5YR33, 10-20% ; , 10-20% ; Medium clay; 5-10 mm, Angular blocky; Firm consistence; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.2 (pH meter);
1.6 - 1.7 m	Dark yellowish brown (10YR3/4-Moist); , 7.5YR33, 2-10% ; , 2-10% ; Medium clay; 5-10 mm, Angular blocky; Firm consistence; Few (2 - 10 %), Calcareous, , Soft segregations; Field pH 8.1 (pH meter);
1.7 - 1.8 m	Dark yellowish brown (10YR3/4-Moist); , 7.5YR33, 0-2% ; , 0-2% ; Medium clay; 5-10 mm, Angular blocky; Firm consistence; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Concretions; Field pH 8.1 (pH meter);
1.8 - 1.9 m	Dark yellowish brown (10YR3/5-Moist); ; Medium clay; 5-10 mm, Angular blocky; Firm consistence; Few (2 - 10 %), Calcareous, Coarse (6 - 20 mm), Concretions; Field pH 8.2 (pH meter);

Morphological Notes

Observation Notes

MARKED SMOOTH SHINY SURFACES FROM 20CM

Site Notes

TOORAWENAH

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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	mm/h	mm/h
m		g/g - m3/m3								
0 - 0.04								0.19B		

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0.04 - 0.1
0.1 - 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

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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