

Project Name: CAN **Site ID:** CP100 **Observation ID:** 1
Project Code: CAN **Agency Name:** CSIRO Division of Soils (NSW)

Site Information

Desc. By:	J. Loveday	Locality:	Leeton Agricultural Experiment Station
Date Desc.:	10/10/78	Elevation:	150 metres
Map Ref.:	Sheet No. : 8128 1:100000	Rainfall:	430
Northing/Long.:	146.35	Runoff:	Slow
Easting/Lat.:	-34.6166666666667	Drainage:	Imperfectly drained

Geology

Exposure Type:	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%	Pattern Type:	Alluvial plain
Morph. Type:	Flat	Relief:	No Data
Elem. Type:	Plain	Slope Category:	Level
Slope:	<1 %	Aspect:	No Data

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

Erosion:

Soil Classification

Australian Soil Classification:	Epicalcareous-Endohypersodic Self-Mulching Aquic Vertosol	Mapping Unit:	N/A
		Principal Profile Form:	Ug5.24

ASC Confidence: Great Soil Group: Grey clay

All necessary analytical data are available.

Site Disturbance: Cultivation. Irrigated, past or present

Vegetation:

Surface Coarse Fragments:

Profile Morphology

0 - 0.1 m	Dark greyish brown (2.5Y4/2-Moist); ; Medium heavy clay; 50-100 mm, Subangular blocky; Weak consistence; Few (2 - 10 %), Calcareous, , Concretions; Field pH 7.5 (pH meter); Common, coarse (>5mm) roots;
0.1 - 0.2 m	Dark greyish brown (2.5Y4/2-Moist); ; Medium heavy clay; 50-100 mm, Subangular blocky; Weak consistence; Few (2 - 10 %), Calcareous, , Concretions; Field pH 7.8 (pH meter); Common, coarse (>5mm) roots; Gradual change to -
0.2 - 0.3 m	Dark grey (5Y4/1-Moist); ; Medium heavy clay; , Angular blocky; Very weak consistence; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.2 (pH meter); Common, coarse (>5mm) roots;
0.3 - 0.4 m	Dark grey (5Y4/1-Moist); ; Medium heavy clay; , Angular blocky; Very weak consistence; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.3 (pH meter); Common, coarse (>5mm) roots;
0.4 - 0.5 m	Dark grey (5Y4/1-Moist); ; Medium heavy clay; , Angular blocky; Very weak consistence; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.3 (pH meter); Common, coarse (>5mm) roots;
0.5 - 0.6 m	Dark grey (5Y4/1-Moist); ; Medium heavy clay; , Angular blocky; Very weak consistence; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.5 (pH meter);
0.6 - 0.7 m	Dark grey (5Y4/1-Moist); ; Medium heavy clay; , Angular blocky; Very weak consistence; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.6 (pH meter);
0.7 - 0.8 m	Dark grey (5Y4/1-Moist); ; Medium heavy clay; , Angular blocky; Very weak consistence; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.7 (pH meter);
0.8 - 0.9 m	Dark grey (5Y4/1-Moist); ; Medium heavy clay; , Angular blocky; Very weak consistence; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.8 (pH meter);
0.9 - 1 m	Dark grey (5Y4/1-Moist); ; Medium heavy clay; , Angular blocky; Very weak consistence; Few (2 - 10 %), Calcareous, , Concretions; Field pH 9 (pH meter);
1 - 1.1 m	Dark grey (5Y4/1-Moist); ; Medium heavy clay; Very weak consistence; Field pH 9.1 (pH meter);
1.1 - 1.2 m	Dark grey (5Y4/1-Moist); ; Medium heavy clay; Very weak consistence; Field pH 9 (pH meter);

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- 1.2 - 1.3 m Dark grey (5Y4/1-Moist); ; Medium heavy clay; Very weak consistence; Field pH 9.2 (pH meter);
- 1.3 - 1.4 m Dark grey (5Y4/1-Moist); ; Medium heavy clay; Very weak consistence; Field pH 9.3 (pH meter);
Gradual change to -
- 1.4 - 1.5 m Olive grey (5Y4/2-Moist); , 5Y63, 20-50% ; , 20-50% ; Medium heavy clay; Loose consistence;
Very few (0 - 2 %), Calcareous, , Concretions; Field pH 9.3 (pH meter);
- 1.5 - 1.6 m Olive grey (5Y4/2-Moist); , 5Y63, 20-50% ; , 20-50% ; Heavy clay; Loose consistence; Very few (0 - 2 %), Calcareous, , Concretions; Field pH 9.4 (pH meter);
- 1.6 - 1.7 m Olive grey (5Y4/2-Moist); , 5Y63, 20-50% ; , 20-50% ; Heavy clay; Loose consistence; Very few (0 - 2 %), Calcareous, , Concretions; Field pH 9.4 (pH meter);
- 1.7 - 1.8 m Pale olive (5Y6/3-Moist); ; Heavy clay; Loose consistence; Very few (0 - 2 %), Calcareous, ,
Concretions; Field pH 9.3 (pH meter);
- 1.8 - 1.9 m Pale olive (5Y6/3-Moist); ; Heavy clay; Loose consistence; Very few (0 - 2 %), Calcareous, ,
Concretions; Field pH 9.3 (pH meter);
- 1.9 - 2 m Pale olive (5Y6/3-Moist); ; Heavy clay; Loose consistence; Very few (0 - 2 %), Calcareous, ,
Concretions; Field pH 9.3 (pH meter);

Morphological Notes

Observation Notes

ALLUVIUM

Site Notes

LEETON

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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
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
15G1_H	Hydrogen Cation - meq per 100g of soil - 1M KCl Exch. Acidity By titration to pH 8.0
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_UC	Organic carbon (%) - Uncorrected Walkley and Black method
P10_GRAV	Gravel (%)
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