Project Name: GH
Project Code: GH **Site ID:** CP39 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Site Information

Desc. By: J. Loveday
Date Desc.: 19/02/67
Map Ref.: Sheet No. : 8837 1:100000
Northing/Long.: 149.816666666667
Easting/Lat.: -30.3
Locality: N.W. Wheat Research Institute
Elevation: 250 metres
Rainfall: 660
Runoff: Very slow
Drainage: Imperfectly drained

Geology

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

Land Form

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

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

Erosion:

Soil Classification

Australian Soil Classification:
Epicalcareous-Epihypersodic Self-Mulching Grey Vertosol
ASC Confidence:
All necessary analytical data are available.
Mapping Unit: N/A
Principal Profile Form: Ug5.16
Great Soil Group: Grey clay

Site Disturbance: Cultivation. Rainfed

Vegetation:

Surface Coarse Fragments:

Profile Morphology

0 - 0.06 m	Dark grey (10YR4/1-Moist); , 10YR31; Medium heavy clay; 2-5 mm, Angular blocky; Weak consistence; Few (2 - 10 %), Calcareous, , Concretions; Field pH 7.4 (pH meter); Sharp change to -
0.06 - 0.1 m	Very dark grey (10YR3/1-Moist); ; Medium heavy clay; Very firm consistence; Few (2 - 10 %), Calcareous, , Concretions; Field pH 7.8 (pH meter);
0.1 - 0.2 m	Very dark grey (10YR3/1-Moist); ; Medium heavy clay; Very firm consistence; Few (2 - 10 %), Calcareous, , Concretions;
0.2 - 0.3 m	Very dark grey (10YR3/1-Moist); ; Medium heavy clay; Very firm consistence; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.3 (pH meter);
0.3 - 0.4 m	Very dark grey (10YR3/1-Moist); ; Medium heavy clay; Very firm consistence; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.7 (pH meter);
0.4 - 0.5 m	Very dark grey (10YR3/1-Moist); ; Medium heavy clay; Very firm consistence; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.7 (pH meter);
0.5 - 0.6 m	Very dark grey (10YR3/1-Moist); ; Medium heavy clay; Very firm consistence; Few (2 - 10 %), Calcareous, , Concretions;
0.6 - 0.7 m	Very dark grey (10YR3/1-Moist); ; Medium heavy clay; Very firm consistence; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.6 (pH meter);
0.7 - 0.8 m	Dark greyish brown (10YR4/2-Moist); , 10YR32; Medium heavy clay; Very firm consistence; Few (2 - 10 %), Calcareous, , Concretions;
0.8 - 0.9 m	Dark greyish brown (10YR4/2-Moist); , 10YR32; Medium heavy clay; Very firm consistence; Few (2 - 10 %), Calcareous, , Concretions; Field pH 8.8 (pH meter);

Morphological Notes

Observation Notes

ALLUVIUM LAYERS RE NUMBERED 21/10/92

Site Notes

NARRABRI

Project Name: GH
Project Code: GH **Site ID:** CP39 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Project Name: GH
Project Code: GH **Site ID:** CP39 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.06	7.4A	0.19A	30.7K	17.5	1.9	1.3		54.2J		2.40
0 - 0.1	8A	0.21A	21.4K	17.4	1.9	1.3	1.5D	43.5J		2.99
0.06 - 0.1	7.8A	0.23A	30K	18.1	1.6	2		54.3J		3.68
0.2 - 0.3	8.3A	0.29A	27.2K	20.6	1.1	3.2		54.4J		5.88
0.3 - 0.4	8.7A	0.32A	23K	22	1.5	5.1		50J		10.20
0.4 - 0.5	8.7A	0.35A								
0.6 - 0.7	8.6A	0.51A								
0.8 - 0.9	8.8A	0.63A	18K	25	1.6	11		50J		22.00

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 - 0.06	0A	0.97D	58A						8D	13	18	61
0 - 0.1		0.68D	48.5A						8D	13	16	63
0.06 - 0.1	0A	0.82D	37A						8D	13	19	59
0.2 - 0.3	1.07A		19A									
0.3 - 0.4	1.37A											
0.4 - 0.5			21A									
0.6 - 0.7			31A									
0.8 - 0.9	1.2A		41A									

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 - 0.06									
0 - 0.1									
0.06 - 0.1									
0.2 - 0.3									
0.3 - 0.4									
0.4 - 0.5									
0.6 - 0.7									
0.8 - 0.9									

Project Name: GH
Project Code: GH **Site ID:** CP39 **Observation ID:** 1
Agency Name: CSIRO Division of Soils (NSW)

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_H	Hydrogen Cation - 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
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
9B_9C	Available P (mg/kg) - Bicarbonate P - 0.5M NaHCO3 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