Project Name: **BRUCEDALE/LADYSMITH/GRIGGWARD - Soil Landscape Modelling**
Project Code: **Wagga_SLM** **Site ID:** **BD19** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (ACT)**

Site Information

Desc. By: McKane, Dermot
Date Desc.: 15/07/93
Map Ref.: Sheet No. : 8327 1:25000
Northing/Long.: 6123610 AMG zone: 55
Easting/Lat.: 533930 Datum: AGD66
Locality:
Elevation: 234 metres
Rainfall: No Data
Runoff: Slow
Drainage: No Data

Geology

ExposureType: Undisturbed soil core
Geol. Ref.: No Data
Conf. Sub. is Parent. Mat.: No Data
Substrate Material: No Data

Land Form

Rel/Slope Class: No Data
Morph. Type: Mid-slope
Elem. Type: Hillslope
Slope: 2 %
Pattern Type: Rises
Relief: No Data
Slope Category: No Data
Aspect: 225 degrees

Surface Soil Condition (dry): Hardsetting

Erosion:

Soil Classification

Australian Soil Classification:
Mottled Eutrophic Brown Kandosol Thin Non-gravelly Clay-loamy Clayey Very deep
Mapping Unit: N/A
Principal Profile Form: N/A
ASC Confidence:
Confidence level not specified
Great Soil Group: N/A

Site Disturbance: Cultivation. Rainfed

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A1	0 - 0.08 m	Dark reddish brown (5YR3/4-Moist); ; Clay loam; Massive grade of structure; Earthy fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Field pH 5.5 (pH meter); Common, very fine (0-1mm) roots;
B1	0.08 - 0.62 m	Yellowish red (5YR5/8-Moist); ; Light clay; Massive grade of structure; Earthy fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Weak consistence; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Fragments, weak, segregations;Field pH 6 (pH meter); Few, very fine (0-1mm) roots;
B21	0.62 - 1.7 m	Brownish yellow (10YR6/8-Moist); Mottles, 2-10% , Faint; Mottles, 0-2% , Faint; Medium clay; Weak grade of structure, 2-5 mm, Platy; Smooth-ped fabric; Few (<1 per 100mm2) Very fine (0.075-1mm) macropores, Firm consistence; Few cutans, <10% of ped faces or walls coated, faint; Very few (0 - 2 %), Ferruginous, Fine (0 - 2 mm), Fragments, weak, segregations;Field pH 6.5 (pH meter); Few, very fine (0-1mm) roots;
B22	1.7 - 2.1 m	Brownish yellow (10YR6/6-Moist); Mottles, 10-20% , Distinct; Mottles, 2-10% , Distinct; Medium clay; Weak grade of structure, 2-5 mm, Subangular blocky; Smooth-ped fabric; Firm consistence; 0-2%, fine gravelly, 2-6mm, subangular, Quartz, coarse fragments; Field pH 7 (pH

Morphological Notes

Observation Notes

Site Notes

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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 - 0.08	4.82A	0.065A	2.5J	0.81	0.91	0.06		8I		0.75
0.08 - 0.62	5.67A	0.018A	3.5J	2.6	0.48	0.08		9.2I		0.87
0.62 - 1.7	6.71A	0.105A	7.1J	7.4	1	1.1		16I		6.88
1.7 - 2.1	8.68A	0.059A	12.5J	11.6	1.4	2.8		24.8I		11.29

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 - 0.08		2.07C							38.2I		13.6	48.2
0.08 - 0.62		0.4C							55I		10.7	34.3
0.62 - 1.7		0.41C							67.1I		11.4	21.5
1.7 - 2.1		0.07C							68.4I		12.7	18.9

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 - 0.08										
0.08 - 0.62										
0.62 - 1.7										
1.7 - 2.1										

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Laboratory Analyses Completed for this profile

15F1_CA	Exchangeable bases by 0.01M silver-thiourea (AgTU)+, no pretreatment for soluble salts
15F1_K	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F1_MG	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F1_NA	Exchangeable bases by 0.01m (AgTU)+, no pretreatment for soluble salts
15F3	CEC by 0.01M silver-thiourea (AgTU)+
15L1	Base saturation percentage (BSP)
15N1	Exchangeable sodium percentage (ESP)
3A1	EC of 1:5 soil/water extract
4A1	pH of 1:5 soil/water suspension
6B3	Total organic carbon - high frequency induction furnace, infrared
P10_NR_C	Clay (%) - Not recorded
P10_NR_S	Sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded