Project Name: APSRU Soil Reference Sites
Project Code: APSRU **Site ID:** 243 **Observation ID:** 1
Agency Name: CSIRO Sustainable Ecosystems (QLD)

Site Information

Desc. By:		**Locality:**	Characterisation_Site: Corroboree. Farmer_Contact: L.B. & A. MacSmith
Date Desc.:	20/08/08	**Elevation:**	No Data
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	148.81969	**Runoff:**	No Data
Easting/Lat.:	-33.25917	**Drainage:**	No Data

Geology

ExposureType:	No Data	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	No Data	**Substrate Material:**	No Data

Land Form

Rel/Slope Class:	No Data	**Pattern Type:**	No Data
Morph. Type:	No Data	**Relief:**	No Data
Elem. Type:	No Data	**Slope Category:**	No Data
Slope:	%	**Aspect:**	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:
N/A
ASC Confidence:
Confidence level not specified

Mapping Unit: N/A
Principal Profile Form: N/A
Great Soil Group: N/A

Site Disturbance:

Vegetation:

Surface Coarse Fragments:

Profile Morphology

0 - 0.15 m ;

0.15 - 0.3 m ;

0.3 - 0.6 m ;

0.6 - 0.9 m ;

0.9 - 1.2 m ;

1.2 - 1.5 m ;

1.5 - 1.8 m ;

Morphological Notes

Observation Notes

Soil_Classification: Classification based on Particle size analysis. Sandy clay loam over heavy clay. Soil_Comments: This soil has a PAWC of 103 mm for wheat to a depth of 180 cm. Soil data does not indicate any chemical constraints to crop

Site Notes

Cudal

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations Ca	Mg	K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.15	5.3A	0.079A	12.55E	1.71	3.53	0.05				
0.15 - 0.3	6.2A	0.084A	12.23E	1.91	1.97	0.06				
0.3 - 0.6	6.5A	0.086A	13.15E	2.85	1.34	0.08				
0.6 - 0.9	6.6A	0.067A	13.38E	3.58	0.93	0.13				
0.9 - 1.2	6.3A	0.044A	10.33E	3.55	0.83	0.15				
1.2 - 1.5	6.1A	0.035A	9.61E	3.39	0.78	0.17				
1.5 - 1.8	6.1A	0.026A	11.42E	4	0.86	0.25				

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 - 0.15		2.18A					1.12				19	34
0.15 - 0.3		0.79A					1.37				26	43
0.3 - 0.6		0.37A					1.32				15	56
0.6 - 0.9		0.29A					1.28				12	63
0.9 - 1.2		0.17A					1.39				12	60
1.2 - 1.5		0.13A					1.42				12	59
1.5 - 1.8		0.17A					1.44				14	57

Depth	COLE	Gravimetric/Volumetric Water Contents Sat.	0.05 Bar	0.1 Bar	0.5 Bar	1 Bar	5 Bar	15 Bar	K sat	K unsat
m					g/g - m3/m3				mm/h	mm/h
0 - 0.15										
0.15 - 0.3										
0.3 - 0.6										
0.6 - 0.9										
0.9 - 1.2										
1.2 - 1.5										
1.5 - 1.8										

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Project Code: **APSRU** **Site ID:** **243** **Observation ID:** **1**
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Laboratory Analyses Completed for this profile

12C2	Calcium chloride extractable boron - ICPAES
15C1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_K	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_MG	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15C1_NA	Exchangeable bases and CEC - alcoholic 1M ammonium chloride at pH 8.5, pretreatment for soluble salts
15N1	Exchangeable sodium percentage (ESP)
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
P10_HYD_C	Clay (%) - Hydrometer Method
P10_HYD_S	Sand (%) - Hydrometer Method
P10_HYD_Z	Silt (%) - Hydrometer Method
P3A1	Bulk density - g/cm3
P3B6VL_DUL	Drained Upper Limit (0.1 BAR) Moisture m3/m3 - Volumetric using APSRU in situ methodology
P3B6VL_LL	Lower Limit (15 BAR) Moisture m3/m3 - Volumetric using APSRU in situ methodology
P3B6VL_SAT	Saturated Moisture m3/m3 - Volumetric using APSRU in situ methodology