Project Name: APSRU Soil Reference Sites
Project Code: APSRU **Site ID:** 284 **Observation ID:** 1
Agency Name: CSIRO Sustainable Ecosystems (QLD)

Site Information

Desc. By:		**Locality:**	Characterisation_Site: Hart. Farmer_Contact: Michael Jaeschke
Date Desc.:	20/05/05	**Elevation:**	No Data
Map Ref.:		**Rainfall:**	No Data
Northing/Long.:	138.413	**Runoff:**	No Data
Easting/Lat.:	-33.67	**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 ;

Morphological Notes

Observation Notes

Soil_Classification: Calcareous Clay Loam. Soil_Comments: High CEC moderate-high clay gradational soil with a PAWC of 183mm. Root growth may be impeded below about 60cm due to high ESP and boron mobilised by the high pH. High EC may moderat

Site Notes

Brinkworth

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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	8.1A	0.2A	23.8H	5.2	1.7	0.9		31.6E		2.85
0.15 - 0.3	8.7A	0.2A	21.5H	9.5	0.8	3.5		35.2E		9.94
0.3 - 0.6	9.4A	0.4A	16.1H	12.2	0.9	6.8		36.1E		18.84
0.6 - 0.9	9.5A	0.5A	13.5H	10.8	1	8.5		33.8E		25.15
0.9 - 1.2	9.4A	0.9A	12H	10.5	1	10.5		34E		30.88
1.2 - 1.5	8.9A	1.3A	12.2H	9.4	1	10.6		33.2E		31.93

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		1.2A					1.36		47I		10	43
0.15 - 0.3		0.96A					1.25		43I		6	50
0.3 - 0.6		0.6A					1.31		42I		7	51
0.6 - 0.9		0.3A					1.42		48I		4	48
0.9 - 1.2		0.18A					1.46		43I		6	52
1.2 - 1.5		0.12A					1.45		42I		4	54

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										

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Project Code: **APSRU** **Site ID:** **284** **Observation ID:** **1**
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Laboratory Analyses Completed for this profile

12C2	Calcium chloride extractable boron - ICPAES
15E1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) by compulsive exchange, no pretreatment for soluble
15E1_CEC	CEC by compulsive exchange, no pretreatment for soluble salts
15E1_K	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_MG	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no 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_NR_C	Clay (%) - Not recorded
P10_NR_S	Sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded
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