Project Name: LBV
Project Code: LBV   **Site ID:** B121   **Observation ID:** 1
Agency Name: CSIRO Division of Soils (QLD)

Site Information

Desc. By:	G.D. Hubble	**Locality:**	29 miles north of Springsure on main road to
Date Desc.:	01/06/50	**Elevation:**	259 metres
Map Ref.:	Sheet No. : 8550 1:100000	**Rainfall:**	610
Northing/Long.:	148.083333333333	**Runoff:**	Very slow
Easting/Lat.:	-23.7166666666667	**Drainage:**	Poorly drained

Geology

ExposureType:	Soil pit	**Conf. Sub. is Parent. Mat.:**	No Data
Geol. Ref.:	TB	**Substrate Material:**	Soil pit, 0.84 m deep,Slightly porous,

Land Form

Rel/Slope Class:	Undulating rises 9-30m 3-10%	**Pattern Type:**	Rises
Morph. Type:	No Data	**Relief:**	15 metres
Elem. Type:	Hillslope	**Slope Category:**	No Data
Slope:	0 %	**Aspect:**	No Data

Surface Soil Condition (dry):

Erosion:

Soil Classification

Australian Soil Classification:		**Mapping Unit:**	N/A
Epicalcareous Epipedal Black Vertosol		**Principal Profile Form:**	Ug5.12
ASC Confidence:		**Great Soil Group:**	Black earth
All necessary analytical data are available.			

Site Disturbance: No effective disturbance other than grazing by hoofed animals

Vegetation:

Tall Strata - Tussock grass, 0.51-1m, Mid-dense. *Species includes - None Recorded

Surface Coarse Fragments: No surface coarse fragments

Profile Morphology

AB   0 - 0.15 m   Very dark grey (10YR3/1-Moist); ; Heavy clay; Strong grade of structure, Granular; Dry; Firm consistence; Very few (0 - 2 %), Calcareous, , Concretions; Field pH 7.9 (pH meter); Gradual change to -

B2   0.15 - 0.46 m   Very dark grey (10YR3/1-Moist); ; Heavy clay; Moderate grade of structure, Angular blocky; Dry; Very firm consistence; Very few (0 - 2 %), Calcareous, , Concretions; Field pH 8.1 (pH meter); Diffuse change to -

B2   0.46 - 0.84 m   Very dark grey (10YR3/1-Moist); ; Heavy clay; Moderate grade of structure, Lenticular; Dry; Very firm consistence; Very few (0 - 2 %), Calcareous, , Concretions; Field pH 8.4 (pH meter); Diffuse change to -

C   0.84 - 1.07 m   ;

Morphological Notes

C   Mottled weathered basalt

Observation Notes

0-15 GRANULAR GRADING TO MODERATE BLOCKY STRUCTURE

Site Notes

SPRINGSURE

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Laboratory Test Results:

Depth	pH	1:5 EC	Ca	Exchangeable Mg	Cations K	Na	Exchangeable Acidity	CEC	ECEC	ESP
m		dS/m				Cmol (+)/kg				%
0 - 0.15	7.9H	0.02B	43.5K	23.5	0.21	0.35	3.02D	67.5J	70.6E	0.52
0.15 - 0.46	8.1H	0.027B								
0.46 - 0.84	8.4H	0.046B	37.9K	22	0.16	0.79			60.8E	
0.84 - 1.07	8.8H	0.062B								

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	GV	CS	FS	Silt	Clay
m	%	%	mg/kg	%	%	%	Mg/m3			%		
0 - 0.15	0.081C		22C	0.029F	0.065B				3C	14	11	61
0.15 - 0.46		1.04E										
0.46 - 0.84	0.244C								3C	14	9	62
0.84 - 1.07												

Depth	COLE	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 - 0.46										
0.46 - 0.84										
0.84 - 1.07										

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Laboratory Analyses Completed for this profile

15_NR	Sum of Ex. cations + Ex. acidity - Not recorded
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
19B_NR	Calcium Carbonate (CaCO3) - Not recorded
2_LOI	Loss on Ignition (%)
2A1	Air-dry moisture content
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
5_NR	Water soluble Chloride - Cl(%) - Not recordede
6Z	Organic carbon (%) - Not recorded
7_NR	Total nitrogen (%) - Not recorded
9_NR	Available P (mg/kg) - Not recorded
9A_NR	Total element - P(%) - Not recorded
P10_NR_C	Clay (%) - Not recorded
P10_NR_CS	Coarse sand (%) - Not recorded
P10_NR_FS	Fine sand (%) - Not recorded
P10_NR_Z	Silt (%) - Not recorded