

Project Name: Jerramungup soils inventory (=JER LRS)
Project Code: JSI **Site ID:** 1166 **Observation ID:** 1
Agency Name: Agriculture Western Australia

Site Information

Desc. By:	Tim Overheu	Locality:	
Date Desc.:	16/11/94	Elevation:	134 metres
Map Ref.:		Rainfall:	500
Northing/Long.:	6199681 AMG zone: 50	Runoff:	No Data
Easting/Lat.:	676806 Datum: AGD84	Drainage:	Imperfectly drained

Geology

ExposureType:	Existing vertical exposure	Conf. Sub. is Parent. Mat.:	No Data
Geol. Ref.:	No Data	Substrate Material:	No Data

Land Form

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

Surface Soil Condition Cracking, Hardsetting

Erosion: (wind); (scald) (sheet) (rill) (mass) (gully)
(stbank) (tunnel)

Soil Classification

Australian Soil Classification:		Mapping Unit:	N/A
Episodic-Epicalcareous Pedal Brown Vertosol		Principal Profile Form:	N/A
ASC Confidence:		Great Soil Group:	N/A
All necessary analytical data are available.			

Site Extensive clearing, for example poisoning, ringbarking

Vegetation:

Surface Coarse No surface coarse fragments; No surface coarse fragments

Profile

Ap	0 - 0.06 m	Dark brown (10YR3/3-Moist); Mottles, 10YR56, 2-10% , 0-5mm, Faint; Light medium clay;
Moderate		grade of structure, 5-10 mm, Polyhedral; Rough-ped fabric; Dry; Very weak consistence;
0-2%, coarse		gravelly, 20-60mm, subangular, Limestone, coarse fragments; Field pH 8.8 (pH meter);
Clear change to		-
B21	0.06 - 0.41 m	Light olive brown (2.5Y5/6-Moist); Mottles, 2.5Y64, 2-10% , 0-5mm, Faint; Medium heavy clay; Strong
		grade of structure, 5-10 mm, Angular blocky; Smooth-ped fabric; Moderately moist; Firm
consistence;		Field pH 9.1 (pH meter); Gradual change to -
B22	0.41 - 1.48 m	Light olive brown (2.5Y5/4-Moist); ; Medium heavy clay; Moist;

Morphological Notes

Ap ALSO MOTTLES-FMD 2.5YR 4/8 R, & COARSE FRAGMENTS- 13 U G
B21 VERY DISPERSIVE

Observation Notes

Site Notes

Paddock recently cleared (1992). P. Lynch.lower yilgarn block. A gravelly duplex soil

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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 - 0.06	5B	16B	7H	3.2	1.1	0.54	0.13J		11.84D	
0.06 - 0.41	5.8H	8B	4H	4.1	0.39	1.2	0.04J		9.69D	
0.41 - 0.6	5.2B	10B	2.4H	3.1	0.34	1.3	0.18J		7.14D	
0.6 - 1.05	6.4H	24B	2.2H	3.7	0.45	2.7	0.47J		9.05D	
1.05 - 1.4	4.4B	38B	1.8H	3.6	0.55	3.6	0.5J		9.55D	
	5.7H									
	4B									
	5.1H									
	3.9B									
	4.9H									

Depth	CaCO3	Organic C	Avail. P	Total P	Total N	Total K	Bulk Density	Particle Size Analysis
m	%	Clay %	mg/kg	%	%	%	Mg/m3	GV CS FS Silt
0 - 0.06		3.14D		430B	0.296E	0.5A		8
0.06 - 0.41		0.3D		35B	0.022E	0.41A		3.7
0.41 - 0.6		0.14D		20B	0.011E	0.37A		2.6
0.6 - 1.05		0.08D		14B	0.008E	0.47A		2.8
1.05 - 1.4		0.07D		14B	0.006E	0.48A		4

Laboratory Analyses Completed for this profile

15_NR_BSa	Exchangeable bases (Ca++) - meq per 100g of soil - Auto calculated from available
15_NR_CMR	Exchangeable bases (Ca/Mg ratio) - Not recorded
15E1_AL	Exchangeable Al - by compulsive exchange, no pretreatment for soluble salts
15E1_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) 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_MN	Exchangeable bases (Mn2+) by compulsive exchange, no pretreatment for soluble salts
15E1_NA	Exchangeable bases, CEC and AEC by compulsive exchange, no pretreatment for soluble salts
15J_BASES	Sum of Bases
15N1_b	Exchangeable sodium percentage (ESP) - Auto calculated from available using Sum of Cations
17A1	Total Potassium - X-ray fluorescence
3_NR	Electrical conductivity or soluble salts - Not recorded
4_NR	pH of soil - Not recorded
4B_AL_NR	Aluminium in 1:5 soil/0.01M calcium chloride extract - method not recorded
4B1	pH of 1:5 soil/0.01M calcium chloride extract - direct
6A1_UC	Organic carbon (%) - Uncorrected Walkley and Black method
7A1	Total nitrogen - semimicro Kjeldahl, steam distillation
9A3	Total Phosphorus (ppm) - semimicro kjeldahl, automated colour
9H1	Anion storage capacity
P10_1m2m	1000 to 2000u particle size analysis, (method not recorded)
P10_20_75	20 to 75u particle size analysis, (method not recorded)
P10_75_106	75 to 106u particle size analysis, (method not recorded)
P10_NR_C	Clay (%) - Not recorded
P10_NR_Saa	Sand (%) - Not recorded arithmetic difference, auto generated
P10_NR_Z	Silt (%) - Not recorded
P10106_150	106 to 150u particle size analysis, (method not recorded)
P10150_180	150 to 180u particle size analysis, (method not recorded)
P10180_300	180 to 300u particle size analysis, (method not recorded)
P10300_600	300 to 600u particle size analysis, (method not recorded)

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P106001000 600 to 1000u particle size analysis, (method not recorded)