Project Name: **Wheat experiments in Western Australia - 1967,1968 & 1970**
Project Code: **WAWheatEx** **Site ID:** **38-68** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (WA)**

Site Information

Desc. By: F.J. Hingston
Date Desc.: 01/01/68
Map Ref.: Sheet No. : 2432 1:100000
Northing/Long.: 6350500 AMG zone: 50
Easting/Lat.: 574000 Datum: AGD66
Locality: Murray, Tincurrin
Elevation: No Data
Rainfall: No Data
Runoff: No Data
Drainage: No Data

Geology

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

Land Form

Rel/Slope Class: No Data
Morph. Type: Mid-slope
Elem. Type: No Data
Slope: 3 %
Pattern Type: No Data
Relief: No Data
Slope Category: No Data
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: Dy3.32
Great Soil Group: Soloth

Site Disturbance: Cultivation. Rainfed

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A	0 - 0.05 m	Very dark greyish brown (10YR3/2-Moist); , 0-2% ; Sandy loam; 0-2%, coarse fragments;
A	0.05 - 0.1 m	Dark greyish brown (10YR4/2-Moist); , 0-2% ; Sandy loam; 0-2%, coarse fragments;
A	0.1 - 0.15 m	Brown (10YR5/3-Moist); , 2-10% ; Sandy loam; 0-2%, coarse fragments;
	0.15 - 0.2 m	Pale brown (10YR6/3-Moist); , 2-10% ; Sandy loam; 0-2%, coarse fragments;
	0.2 - 0.3 m	Pale brown (10YR6/3-Moist); , 10-20% ; Clay loam, sandy; 0-2%, coarse fragments;
	0.3 - 0.4 m	Very pale brown (10YR7/3-Moist); , 10-20% ; Clay loam, sandy; 0-2%, coarse fragments;
	0.4 - 0.5 m	Very pale brown (10YR7/3-Moist); , 10-20% ; Clay loam, sandy; 0-2%, coarse fragments;
	0.5 - 0.6 m	Light grey (10YR7/2-Moist); , 10-20% ; Clay loam, sandy; 0-2%, coarse fragments;
	0.6 - 0.7 m	Very pale brown (10YR7/3-Moist); , 10-20% ; Light clay; 0-2%, coarse fragments;
	0.7 - 0.8 m	Light grey (10YR7/2-Moist); , 10-20% ; Light clay; 0-2%, coarse fragments;
	0.8 - 0.9 m	Light grey (10YR7/2-Moist); , 20-50% ; Light clay; 0-2%, coarse fragments;
	0.9 - 1 m	Light grey (10YR7/2-Moist); , 20-50% ; Medium heavy clay;

Morphological Notes

Observation Notes

Soil parent material - laterite

Site Notes

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Laboratory Test Results:

Depth	pH	1:5 EC	Exchangeable Cations				Exchangeable Acidity	CEC	ECEC	ESP
			Ca	Mg	K	Na				
m		dS/m	Cmol (+)/kg							%
0 - 0.05										
0 - 0.1	6.11I	0.128E	2.3B	1.2	0.5	0.3	31M	6.6A	4.3D	4.55
0.05 - 0.1										
0.1 - 0.15										
0.15 - 0.2										
0.2 - 0.3										
0.3 - 0.4										
0.4 - 0.5										
0.5 - 0.6										
0.6 - 0.7										
0.7 - 0.8										
0.8 - 0.9										
0.9 - 1										

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 - 0.05												
0 - 0.1		1.46G	22.7H 10.1G 27F		0.12A		1.42		55C	31	9	5
0.05 - 0.1												
0.1 - 0.15												
0.15 - 0.2												
0.2 - 0.3												
0.3 - 0.4												
0.4 - 0.5												
0.5 - 0.6												
0.6 - 0.7												
0.7 - 0.8												
0.8 - 0.9												
0.9 - 1												

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 - 0.05										
0 - 0.1								4.2A		
0.05 - 0.1										
0.1 - 0.15										
0.15 - 0.2										
0.2 - 0.3										
0.3 - 0.4										
0.4 - 0.5										
0.5 - 0.6										
0.6 - 0.7										
0.7 - 0.8										
0.8 - 0.9										
0.9 - 1										

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Laboratory Analyses Completed for this profile

15A2_CA	Exchangeable bases (Ca2+,Mg2+,Na+,K+) - 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_CEC	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_K	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_MG	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15A2_NA	Exchangeable bases- 1M ammonium chloride at pH 7.0, pretreatment for soluble salts
15F4	Exchangeable aluminium by 1M ammonium acetate (pH5.8). Abdullah and Riley (1966).
15J_BASES	Sum of Bases
3A_C_2.5	EC of 1:2.5 soil/water extract
4A_C_2.5	pH of soil - pH of 1:2.5 soil/water suspension
5A_C_2.5	Chloride - 1:2.5 soil/water extract
6B1	Total organic carbon - Heanes wet oxidation
7A2	Total nitrogen - semimicro Kjeldahl , automated colour
7C1a	Ammonium-N, in presence or absence of nitrite
7C1d	(Ammonium+nitrate)-N, in presence of nitrite
7C1e	Nitrate-N, in presence of nitrite
9B2_COL	Bicarbonate-extractable phosphorus - automated colour. Based on Colwell (1965). Method no longer recommended
9BUFF_0	Buffering Capacity by 0.01M CaCl2, solution of 0 ppm phosphorus added (CSIRO Div of Soil Tech Mem 63/1972)
9BUFF_0.5	Buffering Capacity by 0.01M CaCl2, solution of 0.5 ppm phosphorus added (CSIRO Div of Soil Tech Mem 63/1972)
9BUFF_1	Buffering Capacity by 0.01M CaCl2, solution of 1 ppm phosphorus added (CSIRO Div of Soil Tech Mem 63/1972)
9BUFF_2	Buffering Capacity by 0.01M CaCl2, solution of 2 ppm phosphorus added (CSIRO Div of Soil Tech Mem 63/1972)
9BUFF_4	Buffering Capacity by 0.01M CaCl2, solution of 4 ppm phosphorus added (CSIRO Div of Soil Tech Mem 63/1972)
9D2	Lactate-extractable phosphorus - automated colour
9E2	Fluoride-extractable phosphorus (Bray 1-P) - automated colour
9R1	Resin extractable phosphorus - automated colour (CSIRO Div of Soil Tech Mem 63/1972)
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
P3A_NR	Bulk density - Not recorded
P3B_NR_15	15 BAR Moisture % - Not recorded