Project Name: **Wheat experiments in Western Australia - 1967,1968 & 1970**
Project Code: **WAWheatEx** **Site ID:** **FPW16-67** **Observation ID:** **1**
Agency Name: **CSIRO Division of Soils (WA)**

Site Information

Desc. By:	F.J. Hingston	**Locality:**	Justin, Wagin
Date Desc.:	01/01/67	**Elevation:**	No Data
Map Ref.:	1:100000	**Rainfall:**	No Data
Northing/Long.:	117.4	**Runoff:**	No Data
Easting/Lat.:	-33.2	**Drainage:**	No Data

Geology

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

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: Dy3.62
Great Soil Group: Lateritic podzolic soil

Site Disturbance: Cultivation. Rainfed

Vegetation:

Surface Coarse Fragments:

Profile Morphology

A	0 - 0.05 m	Yellowish brown (10YR5/4-Moist); , 0-2% ; Fine sand; 0-2%, coarse fragments;
A	0.05 - 0.1 m	Yellowish brown (10YR5/4-Moist); , 0-2% ; Fine sand; 0-2%, coarse fragments;
A	0.1 - 0.15 m	Yellowish brown (10YR5/6-Moist); , 0-2% ; Fine sand; 10-20%, coarse fragments;
A	0.15 - 0.2 m	Yellowish brown (10YR5/6-Moist); , 0-2% ; Fine sand; 10-20%, coarse fragments;
A	0.2 - 0.3 m	Yellowish brown (10YR5/6-Moist); , 0-2% ; Fine sand; 20-50%, coarse fragments;
	0.3 - 0.4 m	Strong brown (7.5YR5/8-Moist); , 10-20% ; Sandy clay loam; 10-20%, coarse fragments;
	0.4 - 0.5 m	Strong brown (7.5YR5/8-Moist); , 10-20% ; Sandy clay loam; 10-20%, coarse fragments;

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	CEC	ECEC	ESP
			Ca	Mg	K	Na	Acidity			
m		dS/m	Cmol (+)/kg							%
0 - 0.05										
0 - 0.1	5.76I	0.084E	2.2B	0.7	0.1	0.2	32M	5.5A	3.3D	3.64
0.05 - 0.1										
0.1 - 0.15										
0.15 - 0.2										
0.2 - 0.3										
0.3 - 0.4										
0.4 - 0.5										

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			1.9I									
0 - 0.1		1.43G	1.7H		0.06A		1.76	40				
			3.7G									
			9.7F									
0.05 - 0.1			1.7I									
0.1 - 0.15			0.6I									
0.15 - 0.2			0.8I									
0.2 - 0.3			0.5I									
0.3 - 0.4			0.3I									
0.4 - 0.5												

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								3.7A		
0 - 0.1										
0.05 - 0.1								4.2A		
0.1 - 0.15								3.6A		
0.15 - 0.2								3.9A		
0.2 - 0.3								6.7A		
0.3 - 0.4								8A		
0.4 - 0.5										

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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)
9C2	Olsen-extractable phosphorus - automated colour
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_GRAV	Gravel (%)
P3A_NR	Bulk density - Not recorded
P3B_NR_15	15 BAR Moisture % - Not recorded