



Soil	Soil 01-101	Soil 01-102	Soil 01-103	Soil 01-104	Soil 01-105							
Analysis	Units	N	Median	MAD	Lab ¹	Median	MAD	Lab	Median	MAD	Lab	
Salinity												
Sat. Paste Moisture	%	36	24.0	1.4	46.1	1.7	54.8	2.9	36.7	2.4	33.8	2.5
pH - sp	Unit	50	4.70	0.14	6.31	0.13	7.54	0.10	6.37	0.17	7.81	0.15
Ece - sp	ds/m	50	0.44	0.05	0.61	0.09	2.06	0.17	0.55	0.07	1.22	0.14
HCO ₃ - sp	mmol/L	14	0.50	0.10	3.76	0.42	3.29	0.68	1.86	0.38	6.93	1.18
Ca - sp	mmol/L	36	1.34	0.24	2.64	0.42	15.9	1.95	2.40	0.40	6.50	1.70
Mg - sp	mmol/L	36	0.50	0.08	0.99	0.17	2.98	0.40	0.86	0.12	3.33	0.59
Na - sp	mmol/L	37	0.87	0.18	1.60	0.30	0.61	0.22	0.50	0.20	2.04	0.30
SAR - sp	value	31	0.83	0.22	1.10	0.18	0.20	0.07	0.34	0.11	0.89	0.11
Cl - sp	mmol/L	25	0.58	0.13	0.81	0.11	0.37	0.13	0.90	0.07	4.32	0.80
SO ₄ - sp	mmol/L	23	0.65	0.14	1.12	0.20	1.33	0.23	0.88	0.11	1.60	0.20
B - sp	mg/L	24	0.10	0.04	0.09	0.04	0.13	0.03	0.10	0.02	0.12	0.02
Soil EC												
Soil EC (1:1)	(dS/m)	32	0.10	0.04	0.27	0.07	1.10	0.13	0.25	0.05	0.39	0.06
Soil EC (1:2)	(dS/m)	48	0.08	0.02	0.17	0.03	0.67	0.11	0.15	0.04	0.27	0.06
Soil pH												
pH (1:1)	Unit	88	4.94	0.08	6.41	0.09	7.70	0.11	6.60	0.10	8.10	0.10
pH (1:2)	Unit	36	5.10	0.20	6.53	0.07	7.90	0.12	6.74	0.09	8.20	0.11
pH (1:1) 0.01M CaCl ₂	Unit	21	4.27	0.09	5.92	0.13	7.50	0.09	6.10	0.11	7.70	0.07
pH (1:2) 0.01M CaCl ₂	Unit	12	4.30	0.12	5.93	0.16	7.53	0.06	6.15	0.05	7.65	0.05
Buffer pH												
SMP Buffer pH	Unit	70	6.60	0.10	6.90	0.10	7.50	0.07	7.10	0.08	7.52	0.05
Adams-Evans Buf pH	Unit	12	7.60	0.04	7.61	0.05	7.80	0.04	7.69	0.05	7.86	0.03
Woodruff Buf. pH	Unit	16	6.46	0.05	6.76	0.03	7.10	0.04	6.85	0.05	7.10	0.04
Mehlich Buf. pH	Unit	2	6.09	0.05	6.22	0.02	6.76	0.01	6.31	0.01	6.83	0.04

1 - Values flagged exceed Warning Limits " ** " based on 2.5 x MAD (Median Absolute Deviation) and Control Limits " *** " based on 4 x MAD.

Soil	N	Soil 01-101	Soil 01-102	Soil 01-103	Soil 01-104	Soil 01-105						
Analysis	Units	Median	MAD	Lab ¹	Median	MAD	Lab	Median	MAD	Lab		
Nitrate (NO₃-N)												
Cd. Rd.	mg/kg	60	8.0	1.0	15.7	1.5	122	8.0	11.9	1.1	9.6	1.6
ISE	mg/kg	27	7.0	1.1	13.4	1.4	106	34	11.7	2.4	9.6	1.6
CTA	mg/kg	7	7.3	0.3	18.4	1.1	123	33.0	13.0	1.0	9.0	1.6
Ion Chromatography	mg/kg	2	9.0	1.5	17.8	1.2	154	3.1	16.2	1.3	12.4	0.2
Other	mg/kg	12	9.5	2.2	16.3	1.0	134	13.0	12.2	1.7	9.5	1.7
NH ₄ - N (KCl Extr.)	mg/kg	49	8.0	1.3	6.0	1.2	3.5	0.9	11.6	2.4	24.4	2.5
Phosphorus & Sulfur												
PO ₄ -P Bray P1 (1:10)	mg/kg	50	34.0	3.0	13.0	2.0	7.4	2.6	25.0	2.0	59.0	4.0
PO ₄ -P Bray P1 (1:7)	mg/kg	12	29.6	4.6	11.5	0.5	9.0	4.0	24.4	2.0	48.5	4.6
PO ₄ -P Olsen/Bicarb	mg/kg	70	16.8	2.2	7.1	1.9	14.0	1.8	12.5	1.5	28.7	2.8
PO ₄ -P AB-DTPA	mg/kg	3	11.6	6.2	7.3	3.9	7.9	1.6	5.9	1.8	15.5	3.0
PO ₄ -P M. Morgan	mg/kg	11	5.0	0.7	2.6	0.6	34.5	5.5	5.0	1.4	28.0	8.2
PO ₄ -P M. Kewlona	mg/kg	4	21.5	1.5	19.0	6.0	26.0	6.6	19.9	0.1	41.0	2.0
PO ₄ -P Strg Bray P-2	mg/kg	7	35.1	4.9	19.0	6.0	87.0	13.0	55.0	14.0	127.0	24.2
SO ₄ -S (PO ₄ Extr.)	mg/kg	49	4.6	2.1	7.0	1.5	14.6	4.3	5.7	1.3	11.0	1.7
Ammonium Ace. Bases												
K	mg/kg	93	151	15	712	85.0	640	50	721	66	457	44.0
Ca	mg/kg	88	336	47	2095	219	6570	912	1730	163	2150	173
Mg	mg/kg	87	49	12	265	30	433	33	258	20	391	36
Na	mg/kg	70	19	5.0	58	9.5	21	7.0	17	5.9	45	7.0
K - Bray (1:10)	mg/kg	4	154	10.6	473	78.5	441	59	507	63.5	377	40.9
K - Bicarb.	mg/kg	8	118	12	606	55.5	595	22	596	61	350	23
K Modified Morgan	mg/kg	5	123	13	712	166	517	144	682	184	387	79
Ca Modified Morgan	mg/kg	3	315	52	2549	319	24050	4222	2230	474	2895	324
Al KCL Extr.	mg/kg	9	25.8	3.2	0.7	0.2	0.8	0.5	0.4	0.2	0.6	0.2

1 - Values flagged exceed Warning Limits * * * based on 2.5 x MAD (Median Absolute Deviation) and Control Limits * * * based on 4 x MAD.

Soil	Soil 01-101	Soil 01-102	Soil 01-103	Soil 01-104	Soil 01-105							
Analysis	Units	N	Median	MAD	Lab ¹	Median	MAD	Lab	Median	MAD	Lab	
Mehlich-1 Multi Element												
Soil Scoop Mass	9	10	5.4	0.5	5.0	0.3	5.0	0.3	5.0	0.4	5.0	0.1
P	mg/kg	11	15.5	2.6	13.9	3.1	17.5	5.3	59.8	13.3	88	7.5
K	mg/kg	11	95	6.6	413	32.6	259	14.2	430	25.0	314	28.9
Ca	mg/kg	11	256	24	2070	266	5634	1191	1593	117	2245	316
Mg	mg/kg	11	36	2.5	236	24.6	290	32.4	225	18	385	39
Zn	mg/kg	10	1.90	0.27	2.84	0.45	0.12	0.07	0.70	0.17	2.58	0.38

Mehlich-3 Multi-Element

Soil Scoop Mass	9	36	2.61	0.64	1.84	0.28	2.00	0.26	2.00	0.46	2.49	0.57
Scoop Volume	mL	36	2.00	0.50	2.00	0.50	2.00	0.50	2.00	0.50	2.00	0.50

P	Colorimetric	mg/kg	20	34.5	2.5	14.0	2.0	49.8	2.8	27.2	2.0	75.0	5.5
P	ICP	mg/kg	32	51.8	7.4	24.9	2.9	54.0	3.9	34.0	2.8	79.5	5.3
K		mg/kg	46	165	19	701	78	645	45	732	56	523	48
Ca		mg/kg	43	375	47	2149	172	8390	687	1870	148	2780	272
Mg		mg/kg	43	56.0	8.9	280	28	545	28	283	13	482	47
Na		mg/kg	25	19.0	5.8	54	10.1	23	5.7	16.0	5.0	47.5	3.5
S		mg/kg	21	13.4	1.4	16.5	6.5	33.6	8.4	12.7	3.7	19.7	4.3
Al		mg/kg	21	512	75	605	53	183	27	583	75	424	37
Zn		mg/kg	37	2.5	0.38	3.78	0.58	1.30	0.16	1.09	0.21	4.11	0.49
Mn		mg/kg	34	6.8	1.1	125	18.2	117	10.2	143	16.8	91.5	9.8
Fe		mg/kg	34	120	15	131	18	31.8	3.3	69	9.0	69	9.2
Cu		mg/kg	35	0.61	0.14	1.61	0.30	1.71	0.32	1.10	0.20	2.01	0.29
B		mg/kg	31	0.27	0.09	0.55	0.13	2.20	0.30	0.52	0.13	1.30	0.19

1 - Values flagged exceed Warning Limits "*" based on 2.5 x MAD (Median Absolute Deviation) and Control Limits "**" based on 4 x MAD.

Soil	Soil 01-101	Soil 01-102	Soil 01-103	Soil 01-104	Soil 01-105									
Analysis	Units	N	Median	MAD	Lab ¹	Median	MAD	Lab	Median	MAD	Lab	Median	MAD	Lab
Micronutrients														
Zn - DTPA	mg/kg	83	1.50	0.18	2.33	0.21	0.39	0.09	0.39	0.07	1.41	0.19		
Mn - DTPA	mg/kg	76	5.1	0.7	51.4	6.9	3.0	0.8	30.4	4.1	14.0	1.8		
Fe - DTPA	mg/kg	78	68.0	13.5	48.5	5.1	2.2	0.5	11.5	1.6	9.3	1.3		
Cu - DTPA	mg/kg	78	0.43	0.08	0.90	0.10	0.50	0.07	0.60	0.09	0.88	0.11		
Zn - HCl	mg/kg	8	2.70	0.43	4.05	0.20	0.60	0.41	1.10	0.10	4.05	0.40		
Mn-H ₃ PO ₄	mg/kg	9	4.4	0.79	35.5	5.6	2.4	0.7	31.0	4.02	23.5	3.5		
Cl - Ca(NO ₃) ₂ Extr.	mg/kg	19	5.7	0.7	10.0	1.8	6.5	1.9	11.0	2.0	46.0	8.8		
B - Hot Water	mg/kg	56	0.24	0.10	0.58	0.13	0.85	0.21	0.51	0.14	0.70	0.15		
B - DTPA-Sorb	mg/kg	8	0.50	0.24	0.20	0.16	1.02	0.09	0.29	0.14	0.76	0.15		
Soil Organic Matter														
Soil Kjeldahl N	%	30	0.072	0.010	0.199	0.016	0.130	0.010	0.110	0.010	0.077	0.008		
Soil TN (combustion)	%	37	0.070	0.013	0.209	0.015	0.136	0.009	0.110	0.011	0.078	0.011		
Soil TOC (combustion)	%	29	0.84	0.05	2.42	0.11	1.91	0.20	1.17	0.05	0.67	0.03		
SOM - Walkley-Black	%	57	1.51	0.20	3.80	0.50	2.30	0.18	2.00	0.19	1.20	0.20		
SOM - LOL (Raw Values)	%	74	1.40	0.10	4.16	0.27	3.04	0.39	2.40	0.24	1.31	0.15		
CaCO ₃ Content	%	17	0.20	0.15	0.35	0.30	5.8	0.58	0.62	0.49	0.95	0.40		
Soil CEC	cmol/kg	34	4.5	1.0	18.8	2.5	29.4	3.0	14.5	1.5	11.6	1.7		
Particle Size Analysis														
Sand 2000 - 50 um	%	51	88.0	2.0	19.6	4.5	35.0	3.8	35.0	3.0	72.0	3.0		
Silt 50 - 2 um	%	51	7.0	2.0	60.0	5.0	39.2	3.8	49.5	2.5	13.0	2.0		
Clay 2 - 0 um	%	51	5.2	1.4	18.6	3.5	25.7	3.7	15.7	2.7	15.0	2.0		

1 - Values flagged exceed Warning Limits " * " based on 2.5 x MAD (Median Absolute Deviation) and Control Limits " ** " based on 4 x MAD.