

Soil	Soil 99106	Soil 99107	Soil 99108	Soil 99109	Soil 99110						
Analysis	Units	Median	MAD	Lab ¹	Median	MAD	Lab	Median	MAD	Lab	
Salinity											
Sat. Paste Moisture	%	39.4	2.7	41.1	2.9	45.5	2.3	38.0	2.0	46.3	2.2
pH - sp	Unit	4.91	0.19	6.40	0.16	6.81	0.14	7.70	0.11	7.30	0.10
ECE - sp	ds/m	0.42	0.07	1.16	0.15	1.02	0.09	1.33	0.10	0.42	0.08
HCO ₃ - sp	mmol/L	0.9	0.41	5.6	1.08	6.5	0.63	5.2	0.87	3.3	0.70
Ca - sp	mmol/L	1.6	0.30	10.0	1.38	6.3	0.80	6.5	0.69	2.8	0.65
Mg - sp	mmol/L	0.80	0.17	2.0	0.26	4.0	0.68	3.7	0.44	1.70	0.37
Na - sp	mmol/L	0.50	0.23	0.53	0.19	0.70	0.17	2.0	0.31	0.39	0.21
SAR - sp	value	0.49	0.19	0.21	0.11	0.30	0.07	0.90	0.11	0.22	0.12
Cl - sp	mmol/L	0.50	0.11	0.70	0.12	1.10	0.28	2.49	0.18	0.41	0.20
SO ₄ - sp	mmol/L	0.99	0.22	2.90	0.40	2.07	0.28	1.95	0.25	0.91	0.13
B - sp	mg/L	0.10	0.02	0.04	0.03	0.12	0.04	0.28	0.05	0.06	0.04
Soil EC											
Soil EC (1:1)	(dS/m)	0.17	0.03	0.34	0.08	0.45	0.06	0.50	0.10	0.17	0.03
Soil EC (1:2)	(dS/m)	0.12	0.03	0.27	0.05	0.31	0.04	0.34	0.04	0.12	0.03
Soil pH											
pH (1:1)	Unit	5.10	0.10	6.48	0.14	6.94	0.06	8.00	0.10	7.45	0.06
pH (1:2)	Unit	5.16	0.14	6.50	0.19	7.10	0.13	8.12	0.19	7.53	0.11
pH (1:1) 0.01M CaCl ₂	Unit	4.53	0.11	6.20	0.25	6.68	0.17	7.55	0.07	6.92	0.10
pH (1:2) 0.01M CaCl ₂	Unit	4.50	0.05	6.21	0.11	6.75	0.06	7.45	0.09	6.80	0.05
Buffer pH											
SMP Buffer pH	Unit	6.36	0.13	6.70	0.10	7.10	0.09	7.51	0.05	7.30	0.06
Adams-Evans Buf pH	Unit	7.45	0.06	7.50	0.03	7.65	0.08	7.82	0.04	7.77	0.05
Woodruff Buf. pH	Unit	6.28	0.12	6.60	0.07	6.93	0.02	7.10	0.03	6.97	0.03

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

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Analysis	Units	Median	MAD	Lab ¹	Median	MAD	Lab	Median	MAD	Lab	
Nitrate (NO₃-N)											
Cd. Rd.	mg/kg	9.2	1.1	24	2.0	18.5	1.2	31.0	2.0	3.2	1.0
ISE	mg/kg	8.5	1.5	23	4.5	18.0	3.0	32.0	4.1	3.2	0.8
CTA	mg/kg	9.4	1.0	24	3.8	18.7	3.5	27.7	3.7	3.8	1.2
Ion Chromatography	mg/kg	10.2	0.2	26	1.3	21.1	3.5	32.7	5.3	5.4	1.6
Other	mg/kg	11.3	2.1	22	4.1	19.9	5.0	35.0	10.3	4.4	2.5
NH ₄ - N (KCl Extr.)	mg/kg	37.95	4.2	45.1	9.2	4.0	1.0	3.0	0.8	13.2	1.4
Phosphorus and Sulfur											
PO ₄ -P Bray P1 (1:10)	mg/kg	76.0	9.0	33.0	2.0	28.0	2.0	8.0	3.0	23.3	1.3
PO ₄ -P Bray P1 (1:7)	mg/kg	58.0	13.0	27.0	3.0	23.0	3.0	14.0	8.0	17.5	2.1
PO ₄ -P Olsen/Bicarb	mg/kg	45.5	4.5	14.0	3.0	18.0	2.0	31.0	2.8	13.3	2.6
PO ₄ -P AB-DTPA	mg/kg	16.9	7.2	15.6	3.9	7.3	4.1	26.7	4.4	16.8	6.5
PO ₄ -P M. Morgan	mg/kg	10.0	3.5	5.5	9.8	6.8	1.8	51.0	29	6.4	5.0
PO ₄ -P M. Kewlona	mg/kg	47.0	-	18.0	-	19.0	-	53.0	-	16.0	-
SO ₄ -S (PO ₄ Extr.)	mg/kg	8.0	2.5	25.0	10.5	16.1	3.1	14.0	4.0	7.0	2.0
Ammonium Acetate Bases											
K	mg/kg	219	12	105	9	440	25	739	50	107	10
Ca	mg/kg	558	56	2205	436	2627	175	3893	543	1692	112
Mg	mg/kg	116	10	104	9	629	39	476	31	363	25
Na	mg/kg	17	7	16	7	26	7	50	10	15	7
K- Bicarb.	mg/kg	204	11	105	10	350	21	572	36	104	15
K Modified Morgan	mg/kg	181	21	106	10.0	455	4.0	665	172	98	2.0
Ca Modified Morgan	mg/kg	738	82	15781	472	3247	71	23553	6430	1928	72
Al KCL Extr.	mg/kg	35.0	1.9	0.8	0.1	0.4	0.3	0.5	0.3	0.6	0.3

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Soil	Soil 99106	Soil 99107	Soil 99108	Soil 99109	Soil 99110						
Analysis	Units	Median	MAD	Lab ¹	Median	MAD	Lab	Median	MAD	Lab	
Mehlich-1 Multi Element											
Soil Scoop Mass	g	5.0	0.0	5.0	0.0	5.0	0.0	5.0	0.0	5.0	
P	mg/kg	28.0	2.5	6.0	4.3	35.5	3.6	35.9	5.2	16.5	1.9
K	mg/kg	142	13	63	6.5	265	9.0	349	22.5	70	6.4
Ca	mg/kg	540	47	5077	434	2557	193	5125	363	1610	123
Mg	mg/kg	105	6	133	14	542	63	390	50	312	16
Zn	mg/kg	2.09	0.10	1.22	0.24	2.85	0.15	0.10	0.05	1.95	0.22
Mehlich-3 Multi-Element											
Soil Scoop Mass	g	1.5	0.5	1.5	0.5	1.5	0.5	1.5	0.5	1.5	
Scoop Volume	mL	2.00	0.5	2.00	0.5	2.00	0.5	2.00	0.5	2.00	
P	mg/kg	101	10.0	40	6.6	36.0	3.5	85.0	7.0	29.0	2.6
K	mg/kg	223	14	101	8	464	28.7	782	71	107	7
Ca	mg/kg	613	66	3591	418	2908	179	5501	341	1832	100
Mg	mg/kg	128	13	123	11	690	24.9	596	24	402	25
Na	mg/kg	12	5.2	17	7.5	25.4	6.6	52	8.0	13.0	5.0
Al	mg/kg	693	58	971	92	620	69	178	57	517	53
Zn	mg/kg	2.40	0.11	2.33	0.21	4.10	0.27	3.02	0.19	2.40	0.20
Mn	mg/kg	227	15	152	17	103	15	196	14	322	29
Fe	mg/kg	499	69	141	32	192	23	57	6	200	27.5
Cu	mg/kg	0.81	0.23	1.40	0.11	2.40	0.17	3.00	0.20	1.44	0.26
B	mg/kg	0.32	0.11	0.30	0.10	1.23	0.12	2.22	0.19	0.70	0.11

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Analysis	Units	Median	MAD	Lab ¹	Median	MAD	Lab	Median	MAD	Lab	
Micronutrients											
Zn - DTPA	mg/kg	1.64	0.20	0.89	0.18	2.26	0.16	1.09	0.09	1.06	0.08
Mn - DTPA	mg/kg	182	33	90.0	18.0	20.0	3.7	10.0	2.0	144	27
Fe - DTPA	mg/kg	258	80	43.0	8.3	63.0	7.8	7.6	1.0	45.9	6.1
Cu - DTPA	mg/kg	1.50	0.17	0.74	0.14	1.20	0.10	1.20	0.12	0.85	0.08
Zn - HCl	mg/kg	2.35	0.05	2.20	0.09	4.17	0.50	1.59	1.24	2.51	0.30
Mn-H ₃ PO ₄	mg/kg	157	12.9	100	4.6	17.8	2.8	6.70	0.50	168	8.4
Cl - Ca(NO ₃) ₂ Extr.	mg/kg	6.1	1.9	9.0	1.1	16.8	3.2	32.0	1.7	4.0	1.0
B - Hot Water	mg/kg	0.40	0.11	0.33	0.13	0.90	0.26	1.29	0.27	0.50	0.19
Soil Organic Matter											
Soil Kjeldahl N	%	0.120	0.016	0.220	0.039	0.193	0.033	0.110	0.020	0.140	0.030
Soil TN (combustion)	%	0.120	0.020	0.220	0.027	0.200	0.020	0.110	0.020	0.144	0.024
Soil TOC (combustion)	%	1.26	0.04	2.61	0.20	2.70	0.17	1.52	0.39	1.50	0.03
SOM - Walkley-Black	%	2.18	0.22	4.07	0.57	3.63	0.31	1.93	0.21	2.48	0.22
SOM - LOI (Raw Values)	%	2.39	0.19	4.70	0.70	3.90	0.30	2.00	0.20	2.80	0.22
CaCO ₃ Content	%	0.50	0.53	2.60	0.70	1.26	0.89	6.7	0.8	0.99	0.66
Soil CEC	cmol/kg	10.5	1.7	13.1	2.3	19.4	2.0	13.4	2.4	12.2	1.3
Particle Size Analysis											
Sand 2000 - 50 um	%	16.3	3.7	51.0	4.0	43.1	2.9	45.0	2.3	22.0	5.0
Silt 50 - 2 um	%	67.0	5.0	36.0	4.0	34.0	2.5	37.5	2.4	62.0	5.0
Clay 2 - 0 um	%	16.0	3.5	12.2	3.8	22.8	3.2	17.0	3.0	15.9	2.2

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