

Soil	Soil 99116	Soil 99117	Soil 99118	Soil 99119	Soil 99120							
Analysis	Units	N	Median	MAD	Lab ¹	Median	MAD	Lab	Median	MAD	Lab	
Salinity												
Sat. Paste Moisture	%	33	24.1	1.7	52.0	3.5	37.1	2.2	27.0	1.5	48.7	2.8
pH - sp	Unit	37	6.96	0.14	5.36	0.14	7.70	0.10	7.20	0.10	5.40	0.10
Ece - sp	ds/m	42	0.39	0.05	0.47	0.05	1.40	0.11	0.68	0.06	0.43	0.07
HCO ₃ - sp	mmol/L	12	2.3	0.51	1.9	0.43	5.9	1.53	3.2	0.51	1.0	0.37
Ca - sp	mmol/L	32	0.43	0.17	3.4	0.47	6.2	0.86	3.9	0.49	2.5	0.54
Mg - sp	mmol/L	31	0.36	0.14	1.1	0.16	3.7	0.46	2.0	0.24	0.91	0.19
Na - sp	mmol/L	30	3.2	0.56	0.57	0.15	2.02	0.24	0.3	0.20	0.34	0.15
SAR - sp	value	28	5.1	0.92	0.40	0.10	0.90	0.09	0.18	0.12	0.23	0.13
Cl - sp	mmol/L	22	0.83	0.24	1.00	0.19	2.35	0.39	0.30	0.10	0.30	0.10
SO ₄ - sp	mmol/L	20	1.23	0.23	0.90	0.11	1.80	0.21	0.86	0.07	0.68	0.13
B - sp	mg/L	20	0.43	0.08	0.06	0.02	0.27	0.04	0.03	0.02	0.12	0.02
Soil EC												
Soil EC (1:1)	(dS/m)	33	0.12	0.02	0.22	0.03	0.50	0.07	0.25	0.05	0.31	0.08
Soil EC (1:2)	(dS/m)	40	0.08	0.02	0.16	0.03	0.35	0.04	0.18	0.03	0.15	0.04
Soil pH												
pH (1:1)	Unit	76	7.47	0.14	5.45	0.05	7.90	0.10	7.40	0.10	5.73	0.07
pH (1:2)	Unit	31	7.66	0.12	5.50	0.10	8.10	0.10	7.54	0.13	5.80	0.10
pH (1:1) 0.01M CaCl ₂	Unit	12	6.35	0.13	4.90	0.05	7.43	0.20	6.94	0.16	5.20	0.05
pH (1:2) 0.01M CaCl ₂	Unit	4	6.20	0.04	4.84	0.02	6.27	1.39	6.95	0.15	5.18	0.03
Buffer pH												
SMP Buffer pH	Unit	60	7.30	0.10	6.30	0.13	7.50	0.05	7.27	0.07	6.36	0.11
Adams-Evans Buf pH	Unit	7	7.76	0.02	7.18	0.08	7.83	0.01	7.73	0.02	7.28	0.06
Woodruff Buf. pH	Unit	10	6.91	0.05	6.15	0.15	7.10	0.08	7.00	0.06	6.30	0.10

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 99116		Soil 99117		Soil 99118		Soil 99119		Soil 99120			
Analysis	Units	Median	MAD	Lab ¹	Median	MAD	Lab	Median	MAD	Lab		
Nitrate (NO₃-N)												
Cd. Rd.	mg/kg	54	1.8	0.6	1.0	0.8	31.0	1.8	10.9	1.2	18.1	1.1
ISE	mg/kg	27	2.8	0.6	1.9	0.5	31.7	4.7	10.2	1.9	17.4	2.4
CTA	mg/kg	6	2.4	0.6	8.0	4.0	31.5	2.5	9.0	1.0	19.8	1.9
Ion Chromatography	mg/kg	4	2.5	0.4	8.6	8.4	33.1	1.6	9.5	0.8	19.4	1.8
Other	mg/kg	6	3.4	1.1	3.5	1.7	32.4	1.1	11.5	2.1	18.4	1.7
NH ₄ - N (KCl Extr.)	mg/kg	42	1.6	0.7	7.0	1.3	3.0	0.7	25.4	3.5	4.9	0.9
Phosphorus & Sulfur												
PO ₄ -P Bray P1 (1:10)	mg/kg	47	22.0	2.0	17.0	1.5	10	4.0	16.0	1.7	57.0	2.0
PO ₄ -P Bray P1 (1:7)	mg/kg	7	17.0	2.0	14.0	1.5	22.0	4.0	12.0	1.0	43.0	3.0
PO ₄ -P Olsen/Bicarb	mg/kg	67	10.0	1.4	12.7	2.1	31.0	3.0	8.7	1.4	34.0	3.7
PO ₄ -P AB-DTPA	mg/kg	3	6.8	1.3	9.1	4.5	27.0	3.7	6.5	1.5	21.9	5.5
PO ₄ -P M. Morgan	mg/kg	10	5.3	0.7	5.8	2.5	50.2	10.3	2.2	0	7.6	0.6
PO ₄ -P M. Kewlona	mg/kg	8	12.9	4.4	11.0	0.8	37.3	15.3	10.7	2.0	28.2	12.5
SO ₄ -S (PO ₄ Extr.)	mg/kg	48	5.0	1.5	9.4	3.7	13.9	4.3	8.0	2.0	7.0	3.0
Ammonium Ace. Bases												
K	mg/kg	86	689	50	185	17	751	56	125	15	354	21
Ca	mg/kg	84	965	66	1842	232	3770	470	1182	118	4281	270
Mg	mg/kg	83	290	13	226	22	468	32	178	18	650	39
Na	mg/kg	65	247	19	25	7	50	6	10	5	20	5
K- Bicarb.												
K Modified Morgan	mg/kg	7	533	22	152	16	635	22	102	2	264	18
Ca Modified Morgan	mg/kg	6	1045	105	2032	2	25057	6642	2333	141	4460	364
Al KCL Extr.	mg/kg	4	0.7	0.2	5.3	0.6	0.7	0.5	0.3	0.1	0.2	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 99116 Soil 99117 Soil 99118 Soil 99119 Soil 99120

Analysis Units N Median MAD Lab¹ Median MAD Lab Median MAD Lab Median MAD Lab

Mehlich-1 Multi Element

Soil Scoop Mass	9	5	5.3	0.3	5.0	0.1	5.3	0.3	6.2	1.2	5.0	0.0
P	mg/kg	7	104	5.0	11.1	1.2	34.5	3.5	7.0	0.9	92.0	10.7
K	mg/kg	6	392	17	123	8.0	355	5.0	77	1.5	156	5.8
Ca	mg/kg	6	963	69	1870	179	5110	478	2285	133	3074	119
Mg	mg/kg	6	263	15	210	32	454	36	274	22	457	41
Zn	mg/kg	6	1.44	0.23	1.43	0.24	0.06	0.06	1.96	0.20	2.73	0.20

Mehlich-3 Multi-Element

Soil Scoop Mass	9	16	2.0	0.2	1.9	0.2	2.0	0.2	2.0	0.5	2.0	0.0
Scoop Volume	mL	14	2.00	0.2	2.00	0.2	2.00	0.3	2.00	0.3	2.00	0.3

P	mg/kg	37	28	2.3	20	3.0	85	6.5	17.0	2.0	68.0	4.0
K	mg/kg	34	721	63	183	9	773	63.0	140	13	346	17
Ca	mg/kg	30	1004	86	1878	140	5378	415	1596	160	4214	296
Mg	mg/kg	30	319	26	227	12	583	38.0	226	16	657	28
Na	mg/kg	15	247	13.0	20	3.2	50.0	4.8	7.6	2.4	15.0	2.0
Al	mg/kg	8	610	72	992	92	170	27	906	146	833	98
Zn	mg/kg	22	1.93	0.40	1.60	0.20	3.03	0.43	2.90	0.57	4.42	0.38
Mn	mg/kg	20	81	12	260	28	188	13	446	72	21	3
Fe	mg/kg	19	75	12	233	46	54	8	51	10	298	32.4
Cu	mg/kg	20	2.20	0.35	1.20	0.23	2.95	0.44	1.00	0.20	2.88	0.45
B	mg/kg	16	0.89	0.20	0.30	0.10	2.38	0.19	0.40	0.05	0.58	0.11

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Soil	Soil 99116	Soil 99117	Soil 99118	Soil 99119	Soil 99120									
Analysis	Units	N	Median	MAD	Lab ¹	Median	MAD	Lab	Median	MAD	Lab	Median	MAD	Lab
Micronutrients														
Zn - DTPA	mg/kg	75	1.00	0.10	1.19	0.11	1.06	0.06	1.60	0.37	2.80	0.19		
Mn - DTPA	mg/kg	66	11.8	1.3	157.2	36.4	12.0	2.0	44.0	9.0	16.3	0.9		
Fe - DTPA	mg/kg	66	7.6	1.2	88.6	11.1	7.0	1.0	5.6	1.1	125	18.7		
Cu - DTPA	mg/kg	67	1.29	0.13	1.00	0.10	1.20	0.10	0.48	0.08	2.13	0.15		
Zn - HCl	mg/kg	3	1.56	0.05	1.57	0.03	0.90	0.60	1.56	0.56	3.60	0.80		
Mn-H ₃ PO ₄	mg/kg	5	13	2.1	167.0	12.6	10.0	1.8	71.4	4.40	10.7	0.5		
Cl - Ca(NO ₃) ₂ Extr.	mg/kg	16	6.3	2.2	16.3	3.5	33.7	6.3	2.0	1.0	4.1	1.0		
B - Hot Water	mg/kg	50	0.80	0.20	0.37	0.18	1.30	0.30	0.28	0.11	0.60	0.15		
Soil Organic Matter														
Soil Kjeldahl N	%	16	0.034	0.004	0.140	0.009	0.110	0.005	0.054	0.006	0.212	0.014		
Soil TN (combustion)	%	24	0.040	0.010	0.140	0.014	0.110	0.010	0.060	0.010	0.230	0.010		
Soil TOC (combustion)	%	20	0.33	0.02	3.45	0.21	1.60	0.38	0.52	0.11	2.40	0.10		
SOM - Walkley-Black	%	42	0.77	0.15	5.38	0.50	1.94	0.15	0.90	0.10	4.00	0.35		
SOM - LOI (Raw Values)	%	57	1.60	0.20	6.10	0.59	1.92	0.22	1.35	0.15	4.74	0.44		
CaCO ₃ Content	%	10	0.52	0.22	0.50	0.23	6.58	0.69	1.7	0.5	0.64	0.45		
Soil CEC	mmol/kg	18	10.5	1.3	17.4	3.8	12.5	2.1	5.7	1.3	32.6	2.5		
Particle Size Analysis														
Sand 2000 - 50 um	%	39	58.0	2.5	39.6	4.2	42.5	3.2	51.5	3.5	20.7	5.3		
Silt 50 - 2 um	%	39	32.4	2.4	43.0	3.2	38.8	2.9	30.9	2.9	42.0	4.0		
Clay 2 - 0 um	%	39	10.0	2.0	18.0	2.5	17.0	3.4	18.0	2.8	37.0	3.0		

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