

Soil	Soil 99101	Soil 99102	Soil 99103	Soil 99104	Soil 99105						
Analysis	Units	Median	MAD	Lab ¹	Median	MAD	Lab	Median	MAD	Lab	
Salinity											
Sat. Paste Moisture	%	37.0	1.8	47.0	2.0	24.8	1.8	55.0	4.1	51.0	2.8
pH - sp	Unit	7.70	0.10	5.70	0.20	6.90	0.20	7.40	0.17	7.40	0.10
ECE - sp	dS/m	1.35	0.15	2.42	0.34	2.42	0.34	1.39	0.18	1.39	0.08
HCO ₃ - sp	mmolc/L	4.6	1.56	2.1	0.55	4.0	0.33	7.6	2.64	4.4	1.32
Ca - sp	mmolc/L	6.5	0.85	14.6	2.47	6.0	0.61	3.3	0.76	5.3	0.60
Mg - sp	mmolc/L	3.6	0.66	8.0	1.72	1.7	0.23	2.6	0.47	0.72	0.12
Na - sp	mmolc/L	2.0	0.25	1.5	0.17	0.30	0.16	2.7	0.28	0.22	0.14
SAR - sp	value	0.91	0.09	0.45	0.05	0.19	0.10	1.60	0.13	0.11	0.06
Cl - sp	mmolc/L	2.31	0.51	4.00	0.62	0.40	0.12	1.57	0.35	0.23	0.10
SO ₄ - sp	mmolc/L	2.00	0.33	1.90	0.24	1.20	0.20	3.80	0.36	0.48	0.21
B - sp	mg/L	0.26	0.03	0.10	0.04	0.04	0.02	0.26	0.05	0.06	0.02
Soil EC											
Soil EC (1:1)	(dS/m)	0.48	0.04	0.89	0.09	0.23	0.07	0.75	0.05	0.40	0.03
Soil EC (1:2)	(dS/m)	0.33	0.05	0.69	0.06	0.17	0.03	0.56	0.09	0.23	0.04
Soil pH											
pH (1:1)	Unit	8.01	0.11	5.79	0.09	6.98	0.12	7.70	0.09	7.64	0.07
pH (1:2)	Unit	8.11	0.11	5.87	0.13	7.00	0.20	7.80	0.10	7.70	0.13
pH (1:1) 0.01M CaCl ₂	Unit	7.60	0.10	5.47	0.06	6.59	0.19	7.30	0.09	7.22	0.09
pH (1:2) 0.01M CaCl ₂	Unit	7.50	0.24	5.80	0.10	6.73	0.10	7.30	0.10	7.25	0.09
Buffer pH											
	Unit	7.51	0.05	6.78	0.08	7.08	0.08	7.30	0.03	7.35	0.05
Adams-Evans Buf pH	Unit	7.83	0.03	7.57	0.04	7.69	0.02	7.75	0.01	7.68	0.03
Woodruff Buf. pH	Unit	7.10	0.06	6.70	0.06	6.90	0.04	7.10	0.06	7.10	0.09

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	30.8	1.5	124	10.0	9.9	1.2	19.3	1.1	18.8	1.2
ISE	mg/kg	29.5	4.8	108	12.8	9.0	2.0	18.5	2.8	16.0	2.9
CTA	mg/kg	30.8	2.9	100	30.0	9.3	0.6	22.4	0.9	18.9	1.9
Ion Chromatography	mg/kg	37.9	6.4	138	9.9	11.0	2.7	20.8	1.4	21.5	3.4
Other	mg/kg	28.5	4.1	126	9.0	11.5	0.8	17.7	2.1	18.0	2.5
NH ₄ - N (KCl Extr.)	mg/kg	2.5	0.8	7.0	0.9	6.8	1.1	8.41	0.6	3.07	0.9
Phosphorus and Sulfur											
PO ₄ -P Bray P1 (1:10)	mg/kg	9.0	3.8	122	12.5	46.0	6.0	481	287	48.4	7.6
PO ₄ -P Bray P1 (1:7)	mg/kg	20.0	11.0	110	7.0	35.0	9.0	300	125	39.0	9.0
PO ₄ -P Olsen/Bicarb	mg/kg	31.0	3.0	65.0	8.0	16.0	2.8	395	159	32.0	6.0
PO ₄ -P AB-DTPA	mg/kg	34.0	7.8	68.9	6.1	14.3	5.7	190	57.5	28.6	5.4
PO ₄ -P M. Morgan	mg/kg	51.0	3.8	33.5	2.0	3.2	0.2	792	124	21.0	2.6
SO ₄ -S (PO ₄ Extr.)	mg/kg	14.0	4.0	15.6	2.8	8.8	2.7	29.0	5.5	5.0	1.4
Ammonium Acetate Bases											
K	mg/kg	734	51	315	25	73	9.5	2618	250	609	48
Ca	mg/kg	3820	535	1957	133	1343	217	3680	433	3931	281
Mg	mg/kg	470	26	420	31	88	10	897	53	220	13
Na	mg/kg	46	6	34	6	12	5	120	11	13	8
K- Bicarb.	mg/kg	600	27	304	17	60	13	2290	115	453	16
K Modified Morgan	mg/kg	648	108	280	12.0	53	5.5	2687	255	666	63.5
Ca Modified Morgan	mg/kg	17730	1170	2213	77	3784	1348	10643	2647	6278	980
Al KCL Extr.	mg/kg	0.9	0.9	13	12	1.0	0.9	0.40	0.39	1.5	1.3

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Analysis	Units	Median	MAD	Lab¹	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
K	mg/kg	358	37	243	34	46	4.4	1292	322	353
P	mg/kg	35.0	4.6	108	10.4	25	5.4	804	94.2	43
Ca	mg/kg	5400	1318	1940	270	4048	547	4562	518	4512
Mg	mg/kg	424	68	378	48	129	21	764	167	218
Zn	mg/kg	0.22	0.38	4.22	0.27	0.80	0.30	2.55	0.65	1.30
Mehlich-3 Multi-Element										
Soil Scoop Mass	g	2.0	0.5	2.0	0.5	2.0	0.5	2.0	0.5	2.0
Scoop Volume	mL	2.20	0.3	2.20	0.3	2.20	0.3	2.20	0.3	2.20
P	mg/kg	86	8.0	154	18.1	44.8	3.8	1385	95	63.3
K	mg/kg	795	41	328	26	81	5.0	2737	186	627
Ca	mg/kg	5490	374	2220	213	2414	429	5816	486	4474
Mg	mg/kg	602	40	446	30	109	9.2	1151	61	260
Na	mg/kg	50	7.0	33	6.5	9.0	3.7	130	13.6	8.0
Al	mg/kg	184	37	812	22	921	65	278	19	587
Zn	mg/kg	3.30	0.33	5.94	0.34	1.07	0.13	38.9	1.9	2.85
Mn	mg/kg	194	28.1	40	3.7	212	30.7	80	9.0	150
Fe	mg/kg	57	8.8	261	35	66	11.3	350	47	66
Cu	mg/kg	3.20	0.30	4.79	0.55	0.85	0.15	4.80	0.49	2.50
B	mg/kg	2.42	0.28	0.80	0.20	0.31	0.10	4.26	0.51	1.31

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Analysis	Units	Median	MAD	Lab ¹	Median	MAD	Lab	Median	MAD	Lab	
Micronutrients											
Zn - DTPA	mg/kg	1.10	0.10	3.20	0.30	0.50	0.10	11.6	1.5	1.10	0.10
Mn - DTPA	mg/kg	7.9	1.90	26.0	2.0	32.4	5.3	9.8	1.9	12.4	2.5
Fe - DTPA	mg/kg	7.4	1.30	79.3	11.3	8.0	1.5	46.2	8.2	8.8	1.5
Cu - DTPA	mg/kg	1.20	0.14	3.00	0.30	0.33	0.08	3.80	0.40	0.83	0.10
Zn - HCl	mg/kg	0.95	0.35	5.35	0.85	1.15	0.05	32	7.1	2.75	0.15
Mn-H ₃ PO ₄	mg/kg	5.0	1.6	27	2.0	55	3.8	25	7.8	21	2.6
Cl - Ca(NO ₃) ₂ Extr.	mg/kg	31.5	3.9	63.9	6.6	3.7	1.1	26.0	2.4	3.2	1.1
B - Hot Water	mg/kg	1.20	0.20	0.66	0.16	0.20	0.08	2.54	0.57	0.70	0.20
Soil Organic Matter											
Soil Kjeldahl N	%	0.110	0.010	0.188	0.020	0.049	0.011	0.39	0.038	0.199	0.019
Soil TN (combustion)	%	0.110	0.012	0.195	0.012	0.044	0.012	0.45	0.021	0.210	0.012
Soil TOC (combustion)	%	1.70	0.68	1.94	0.11	0.61	0.16	4.18	0.37	2.42	0.11
SOM - Walkley-Black	%	1.90	0.20	3.40	0.30	0.88	0.13	6.30	0.80	3.90	0.30
SOM - LOI (Raw Values)	%	2.0	0.33	3.8	0.38	1.4	0.21	6.6	0.50	4.2	0.37
CaCO ₃ Content	%	6.70	0.83	0.35	0.26	1.60	0.22	3.5	0.6	1.10	0.26
Soil CEC	cmol/kg	13.1	2.1	16.5	1.9	5.2	1.2	28.4	3.5	23.6	2.5
Particle Size Analysis											
Sand 2000 - 50 um	%	44.1	4.0	23.0	5.0	69.6	2.4	36.0	6.0	18.0	4.8
Silt 50 - 2 um	%	38.0	3.0	49.9	5.5	15.0	2.0	38.0	5.0	59.2	5.2
Clay 2 - 0 um	%	17.6	3.1	26.6	4.0	16.8	1.8	26.5	3.8	23.0	6.0

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