

Soil	Soil 2002-111	Soil 2002-112	Soil 2002-113	Soil 2002-114	Soil 2002-115							
Analysis	Units	n	Median	MAD	Lab ¹	Median	MAD	Lab	Median	MAD	Lab	
Salinity -SP												
Sat. Paste Moisture	%	26	52.6	2.4	65.0	6.0	40.0	3.8	50.0	2.2	20.6	1.0
pH - sp	Unit	36	7.60	0.10	7.60	0.10	6.56	0.09	6.70	0.10	5.40	0.10
Ece - sp	ds/m	40	1.73	0.15	0.98	0.13	0.67	0.10	0.37	0.04	0.48	0.05
HCO ₃ - sp	mmol/L	16	3.88	0.90	2.94	0.52	2.47	0.96	2.79	0.68	0.50	0.29
Ca - sp	mmol/L	32	11.2	1.71	6.00	0.88	3.39	0.59	2.73	0.45	1.63	0.33
Mg - sp	mmol/L	32	3.89	0.69	2.04	0.24	1.23	0.26	0.89	0.18	0.90	0.27
Na - sp	mmol/L	32	5.37	0.43	0.68	0.17	0.69	0.19	0.56	0.16	0.85	0.15
SAR - sp	value	25	2.0	0.10	0.32	0.09	0.49	0.11	0.41	0.13	0.82	0.13
Cl - sp	mmol/L	22	2.78	0.95	0.39	0.17	1.60	0.19	0.31	0.15	1.37	0.32
SO ₄ - sp	mmol/L	18	13.1	1.35	1.33	0.21	2.00	0.15	0.58	0.09	0.56	0.14
NO ₃ - sp	mmol/L	8	1.53	1.06	3.48	2.22	0.19	0.16	0.09	0.06	2.00	0.70
B - sp	mg/L	18	0.59	0.11	0.14	0.03	0.19	0.06	0.05	0.03	0.10	0.02
Soil EC												
Soil EC (1:1)	(dS/m)	29	0.97	0.10	0.93	0.09	0.36	0.04	0.31	0.06	0.10	0.04
Soil EC (1:2)	(dS/m)	49	0.62	0.07	0.46	0.07	0.20	0.03	0.15	0.03	0.09	0.02
Soil pH												
pH (1:1)	Unit	87	7.81	0.10	7.73	0.08	6.85	0.06	7.00	0.09	5.63	0.10
pH (1:2)	Unit	34	8.00	0.12	7.86	0.11	6.91	0.11	7.09	0.21	5.82	0.25
pH (1:1) 0.01M CaCl ₂	Unit	19	7.50	0.17	7.40	0.13	6.30	0.12	6.50	0.10	4.97	0.14
pH (1:2) 0.01M CaCl ₂	Unit	12	7.54	0.13	7.54	0.05	6.32	0.04	6.54	0.06	4.96	0.06
Buffer pH												
SMP Buffer pH	Unit	45	7.50	0.03	7.40	0.05	7.20	0.04	7.01	0.07	6.81	0.09
Adams-Evans Buf pH	Unit	11	7.85	0.02	7.56	0.02	7.70	0.03	7.50	0.04	7.64	0.04
Woodruff Buf. pH	Unit	13	7.10	0.02	7.10	0.04	6.90	0.04	6.88	0.07	6.65	0.07
Mellich Buf. pH	Unit	4	6.75	0.02	6.87	0.04	6.38	0.00	6.43	0.02	6.27	0.05

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Soil	Soil 2002-111	Soil 2002-112	Soil 2002-113	Soil 2002-114	Soil 2002-115							
Analysis	Units	n	Median MAD	Lab ¹	Median MAD	Lab	Median MAD	Lab	Median MAD	Lab		
Nitrate (NO₃-N)												
Cd. Rd.	mg/kg	52	15.2	1.0	57.1	5.3	6.1	0.6	7.1	0.9	7.7	1.3
ISE	mg/kg	26	14.5	2.3	51.5	8.0	6.5	1.0	7.7	1.4	8.8	1.6
CTA	mg/kg	7	15.0	1.0	52.5	2.5	6.3	0.8	6.7	1.1	5.7	0.7
Ion Chromatography	mg/kg	2	16.6	2.6	56.7	7.4	7.0	1.9	7.1	1.50	7.8	1.7
Other	mg/kg	12	15.4	5.3	55.8	18.8	6.0	1.8	7.3	2.7	8.7	2.3
NH ₄ - N (KCl Extr.)	mg/kg	53	6.0	0.9	7.7	1.3	10.2	1.3	5.8	1.4	4.1	1.6
Phosphorus & Sulfur												
PO ₄ -P Bray P1 (1:10)	mg/kg	49	63.0	5.0	60.0	7.2	61.0	5.5	7.0	1.0	80.0	9.3
PO ₄ -P Bray P1 (1:7)	mg/kg	12	50.4	1.8	34.2	10.4	54.0	1.9	4.9	0.9	62.1	5.1
PO ₄ -P Olsen/Bicarb	mg/kg	66	30.0	2.0	77.0	8.4	29.0	2.5	7.2	1.8	33.3	3.1
PO ₄ -P AB-DTPA	mg/kg	3	15.5	0.5	19.6	0.4	12.5	1.9	3.6	0.8	17.1	2.1
PO ₄ -P M. Morgan	mg/kg	13	68.0	8.1	16.5	2.0	28.8	4.9	0.9	0.6	5.5	0.6
PO ₄ -P M. Kewlona	mg/kg	3	40.6	6.50	65.9	2.8	46.1	2.8	5.0	1.8	55.1	1.1
PO ₄ -P Strg Bray P-2	mg/kg	9	199	36.0	87.2	20.8	165	36.0	11.4	5.6	93.0	20.0
PO ₄ -P Water Soluble	mg/kg	1	9.1	-	10.3	-	20.9	-	5.1	-	9.1	-
SO ₄ -S (PO ₄ Extr.)	mg/kg	40	89.1	16.0	16.0	2.5	10.7	1.7	5.6	1.8	7.4	1.6
Ammonium Ace. Bases												
K	mg/kg	93	463	32	1290	118	1093	82	244	15	129	23
Ca	mg/kg	88	4960	568	6250	475	2310	124	3950	346	301	69
Mg	mg/kg	89	620	41	921	79.5	376	24	553	41	56	13
Na	mg/kg	70	186	19.0	33	9.0	24	6.4	28	7.0	17	6.5
K - Bray (1:10)	mg/kg	3	307	17	493	21.0	515	28	134	9.0	118	13.0
K - Bicarb.	mg/kg	11	419	21.0	702	178	819	48.0	149	19	105	18
K Modified Morgan	mg/kg	10	426	61	1112	383	1046	232	223	40	114	14
Ca Modified Morgan	mg/kg	5	8420	666	7830	315	2480	107	3960	345	311	95
Al KCl Extr.	mg/kg	8	0.14	0.04	0.48	0.30	0.49	0.34	0.45	0.41	2.3	0.7

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Soil	Soil 2002-111	Soil 2002-112	Soil 2002-113	Soil 2002-114	Soil 2002-115							
Analysis	Units	n	Median	MAD	Lab ¹	Median	MAD	Lab	Median	MAD	Lab	
Mehlich-1 Multi Element												
Soil Scoop Mass	g	11	5.00	0.24	5.00	0.01	5.00	0.46	5.00	0.08	5.00	1.05
P	mg/kg	12	107	21.0	8.4	2.4	177.0	19.00	5.1	1.49	31.3	3.9
K	mg/kg	12	206	14.0	380	59.5	581	41.3	103	10.5	89	11
Ca	mg/kg	11	4620	644.3	4270	354	1860	124	2760	186	198	37
Mg	mg/kg	11	440	76	558	94	277	23	411	43	44	5.2
Zn	mg/kg	11	0.48	0.38	0.77	0.36	0.76	0.13	1.10	0.18	1.65	0.29
Mehlich-3 Multi-Element												
Soil Scoop Mass	g	39	2.01	0.49	2.25	0.48	2.00	0.50	2.19	0.45	2.71	0.71
Scoop Volume	mL	19	1.08	0.08	1.18	0.18	1.03	0.03	1.17	0.17	1.18	0.18
P Colorimetric												
P	mg/kg	20	83.5	8.8	93.0	8.0	81.0	11.8	8.9	1.3	79.0	11.0
P ICP	mg/kg	36	92.6	6.6	98.2	7.8	95.0	7.1	8.3	1.7	95.1	8.5
K												
K	mg/kg	50	484	35	1310	119.0	1110	85.3	254	21	153	17
Ca												
Ca	mg/kg	50	6120	506	7840	607	2490	167	4120	440	318	57
Mg												
Mg	mg/kg	49	737	64	1070	80.0	420	36.0	621	55	64	14.6
Na												
Na	mg/kg	28	196	14.1	34	7.5	24	4.9	30	6.0	15	3.5
S												
S	mg/kg	25	121.0	14.0	26.0	5.8	16.5	2.5	13.0	4.0	12.8	2.2
Al												
Al	mg/kg	23	328	28	742	50	466	33	919	44	850	139
Zn												
Zn	mg/kg	40	5.07	0.62	4.73	0.50	1.36	0.21	1.90	0.30	2.94	0.46
Mn												
Mn	mg/kg	39	158	15	115	15.3	161	13	152	15.5	285	48
Fe												
Fe	mg/kg	35	121	13.0	248	26	63	6.7	116	8.7	136	16
Cu												
Cu	mg/kg	39	5.10	0.40	5.31	0.59	1.80	0.21	2.18	0.28	1.14	0.16
B												
B	mg/kg	36	3.38	0.43	2.59	0.38	1.10	0.19	0.77	0.17	0.38	0.12

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Laboratory ID

Soil	Soil 2002-111	Soil 2002-112	Soil 2002-113	Soil 2002-114	Soil 2002-115
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Analysis	Units	n	Median	MAD	Lab ¹	Median	MAD	Lab	Median	MAD	Lab	Median	MAD	Lab
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Micronutrients														
Zn - DTPA	mg/kg	76	1.49	0.12		1.71	0.20		0.40	0.06		0.99	0.12	
Mn - DTPA	mg/kg	65	13.5	1.50		9.9	1.4		11.5	3.0		31.1	3.5	
Fe - DTPA	mg/kg	70	9.7	1.3		22.1	6.1		8.6	1.4		17.0	1.97	
Cu - DTPA	mg/kg	68	2.20	0.20		2.27	0.27		0.88	0.13		1.01	0.09	
Zn - HCl	mg/kg	8	6.15	0.85		5.50	1.14		1.90	0.15		2.3	0.3	
Mn-H ₂ PO ₄	mg/kg	10	33.9	6.1		13.1	1.8		12.8	2.8		29.3	3.90	
Cl - Ca(NO ₃) ₂ Extr.	mg/kg	24	41.3	5.7		6.5	2.4		18.4	2.4		5.2	2.2	
B - Hot Water	mg/kg	51	1.80	0.40		1.20	0.53		0.83	0.28		0.45	0.17	
B - DTPA-Sorb	mg/kg	11	1.98	0.38		1.47	0.29		0.41	0.12		0.31	0.11	

Soil Organic Matter

Soil Kjeldahl N	%	21	0.070	0.006		0.140	0.009		0.128	0.008		0.132	0.009	
Soil TN (combustion)	%	34	0.080	0.014		0.161	0.011		0.139	0.011		0.150	0.010	
Soil TOC (combustion)	%	26	0.83	0.01		1.47	0.01		1.35	0.02		1.52	0.02	
SOM - Walkley-Black	%	59	1.27	0.19		2.38	0.24		2.40	0.20		2.70	0.30	
SOM - LOI (Raw Values)	%	65	2.07	0.27		3.77	0.56		2.80	0.21		3.80	0.30	
CaCO ₃ Content	%	19	2.00	0.50		1.50	0.64		0.48	0.35		0.62	0.42	
Soil CEC	cmol/kg	32	25.4	1.9		38.8	3.5		19.4	2.05		26.5	3.2	
Scoop Density	mg/cm ³	9	1.18	0.04		1.38	0.05		1.30	0.06		1.29	0.06	

Particle Size Analysis

Sand 2000 - 50 um	%	45	31.0	3.0		16.5	3.5		36.1	3.1		17.3	3.0	
Silt 50 - 2 um	%	45	36.0	4.4		28.6	3.6		37.5	2.9		45.0	3.4	
Clay 2 - 0 um	%	45	34.6	3.7		55.2	4.9		26.1	2.3		37.7	2.6	

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