

Soil	Soil 2003-101	Soil 2003-102	Soil 2003-103	Soil 2003-104	Soil 2003-105							
Analysis	Units	n	Median	MAD	Lab <sup>1</sup>	Median	MAD	Lab	Median	MAD	Lab	
<b>Salinity -SP</b>												
Sat. Paste Moisture	%	25	30.5	2.4	46.9	1.8	28.6	2.2	24.4	1.4	31.7	3.1
pH - sp	Unit	34	6.11	0.11	5.80	0.14	7.50	0.11	4.43	0.12	5.77	0.07
Ece - sp	dS/m	39	0.42	0.04	1.02	0.11	8.7	0.96	0.63	0.08	0.74	0.12
HCO <sub>3</sub> - sp	mmol/L	15	1.00	0.50	0.71	0.28	5.13	2.07	0.49	0.25	0.95	0.42
Ca - sp	mmol/L	30	1.11	0.21	5.99	0.65	43.3	4.2	2.59	0.33	2.08	0.27
Mg - sp	mmol/L	30	0.92	0.18	2.64	0.21	17.6	1.83	1.30	0.13	1.51	0.21
Na - sp	mmol/L	30	1.80	0.20	1.65	0.13	40.3	4.9	0.65	0.30	0.41	0.22
SAR - sp	value	24	1.8	0.25	0.79	0.06	7.31	0.66	0.48	0.22	0.25	0.15
Cl - sp	mmol/L	18	0.89	0.12	3.95	0.35	54.6	8.5	0.64	0.15	0.50	0.15
SO <sub>4</sub> - sp	mmol/L	18	1.06	0.10	1.12	0.07	32.5	2.9	1.04	0.10	0.42	0.06
NO <sub>3</sub> - sp	mmol/L	9	1.00	0.09	3.71	0.22	10.2	2.06	3.04	0.58	4.20	0.69
B - sp	mg/L	17	0.11	0.02	0.13	0.03	0.87	0.13	0.10	0.02	0.26	0.04
<b>Soil EC</b>												
Soil EC (1:1)	(dS/m)	33	0.15	0.03	0.30	0.06	2.55	0.58	0.21	0.06	0.33	0.06
Soil EC (1:2)	(dS/m)	42	0.09	0.02	0.27	0.03	1.75	0.22	0.15	0.03	0.17	0.03
<b>Soil pH</b>												
pH (1:1)	Unit	93	6.26	0.11	5.91	0.09	7.90	0.10	4.66	0.09	6.10	0.10
pH (1:2)	Unit	26	6.33	0.25	6.00	0.10	8.02	0.17	4.70	0.15	6.17	0.13
pH (1:1) 0.01M CaCl <sub>2</sub>	Unit	19	5.50	0.05	5.52	0.07	7.68	0.21	4.14	0.16	5.60	0.07
pH (1:2) 0.01M CaCl <sub>2</sub>	Unit	11	5.53	0.07	5.50	0.02	7.59	0.21	4.10	0.01	5.49	0.05
<b>Buffer pH</b>												
SMP Buffer pH	Unit	64	6.92	0.08	6.40	0.10	7.54	0.06	6.23	0.12	7.05	0.06
Adams-Evans Buf pH	Unit	12	7.59	0.02	7.25	0.05	7.85	0.05	7.22	0.12	7.62	0.05
Woodruff Buf. pH	Unit	15	6.70	0.10	6.45	0.06	7.11	0.05	6.18	0.11	6.75	0.05
Mehlich Buf. pH	Unit	5	6.23	0.03	6.00	0.05	6.80	0.04	5.85	0.15	6.19	0.05
Titrateable Acidity	cmol/kg	2	4.70	-	14.2	-	0.00	-	6.74	0.22	4.32	0.01

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Soil	Soil 2003-101	Soil 2003-102	Soil 2003-103	Soil 2003-104	Soil 2003-105							
Analysis	Units	n	Median	MAD	Lab <sup>1</sup>	Median	MAD	Lab	Median	MAD	Lab	
<b>Nitrate (NO<sub>3</sub>-N)</b>												
Cd. Rd.	mg/kg	54	5.5	1.0	27.8	1.4	71.3	7.3	14.3	1.5	23.7	2.3
ISE	mg/kg	25	5.0	1.3	23.4	3.0	72.8	14.9	14.0	2.2	21.3	3.3
CTA	mg/kg	6	5.2	1.0	31.1	1.2	83.0	11.0	21.5	6.2	25.7	1.7
Ion Chromatography	mg/kg	1	3.6	-	20.8	-	58.4	-	9.2	-	18.0	-
Other	mg/kg	9	5.1	0.7	29.0	5.5	74.1	11.0	15.5	3.8	28.0	6.1
NH <sub>4</sub> - N (KCl Extr.)	mg/kg	47	3.3	0.8	4.4	1.0	9.0	2.3	5.2	1.2	1.4	0.8
Amino-N (Mulvaney)	mg/kg	5	7.0	7	165	16	56	10	82	11	115	12
<b>Phosphorus &amp; Sulfur</b>												
PO <sub>4</sub> -P Bray P1 (1:10)	mg/kg	51	8.0	1.0	51.2	7.1	3.0	1.0	43	4.0	52	5.0
PO <sub>4</sub> -P Bray P1 (1:7)	mg/kg	13	7.0	1.0	28.0	6.5	3.2	1.0	35	4.0	46.1	4.3
PO <sub>4</sub> -P Olsen/Bicarb	mg/kg	59	4.7	1.2	36.0	4.0	11.3	1.3	19.0	2.0	28.2	2.4
PO <sub>4</sub> -P AB-DTPA	mg/kg	1	6.0	-	51.1	-	4.2	-	31.0	-	12.7	-
PO <sub>4</sub> -P M. Morgan	mg/kg	12	1.0	0.3	6.2	1.2	34.8	3.8	4.9	0.9	11.5	2.9
PO <sub>4</sub> -P M. Kewlona	mg/kg	3	7.0	1.0	33.0	4.0	18.0	3.0	26	1.0	43.0	1.5
PO <sub>4</sub> -P Strg Bray P-2	mg/kg	11	13	1.8	116	17.4	95	19.0	49	3.8	91	13.0
PO <sub>4</sub> -P Water Soluble	mg/kg	1	1.1	-	28.0	-	2.0	-	28.8	-	2.1	-
SO <sub>4</sub> -S (PO <sub>4</sub> Extr.)	mg/kg	43	8.3	2.2	18.0	4.4	140	42.0	11.9	4.1	4.0	1.7
<b>Ammonium Ace. Bases</b>												
K	mg/kg	91	78	7	92	12	461	33	240	27	1022	105
Ca	mg/kg	83	936	94	1323	123	4134	619	347	50	1330	122
Mg	mg/kg	84	312	27	155	14.4	311	28	75	11	438	37
Na	mg/kg	69	57	6.6	48	6.8	478	57.0	17	8.0	15	6.1
K - Bray (1:10)	mg/kg	5	71	4	76	6	333	27	240	12.9	791	43.0
K - Bicarb.	mg/kg	9	70	6	114	13	344	16	176	31	747	104
K - Modified Morgan	mg/kg	8	75	9	99	6	403	87	234	39	1065	256
Ca Modified Morgan	mg/kg	5	1043	70	1519	83	19075	1691	623	148	1508	128
Al KCl Extr.	mg/kg	8	1.31	0.61	1.43	0.62	0.72	0.25	92.8	11	2.6	1.4

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Analysis	Units	n	Median	MAD	Lab <sup>1</sup>	Median	MAD	Lab	Median	MAD	Lab	Median	MAD	Lab
<b>Mehlich-1 Multi Element</b>														
Soil Scoop Mass	g	12	5.00	0.18	5.00	0.19	5.00	0.04	5.00	0.62	5.00	0.52		
P	mg/kg	13	4.2	0.5	26	7.4	18.1	1.6	18.8	1.5	72.1	6.4		
K	mg/kg	12	49	6.5	84	6.5	176	9	158	19	538	36		
Ca	mg/kg	12	755	56	1557	325	5535	574	268	40	1019	127		
Mg	mg/kg	12	264	29	162	17	272	15	60.2	5.8	338	40		
Mn	mg/kg	10	20.2	1.0	18.0	1.6	2.8	0.95	56.2	5.5	10.1	1.2		
Zn	mg/kg	11	0.31	0.15	0.79	0.12	0.10	0.03	0.81	0.13	0.53	0.19		
<b>Mehlich-3 Multi-Element</b>														
Soil Scoop Mass	g	36	2.17	0.58	1.76	0.58	2.42	0.68	2.44	0.78	1.92	0.55		
Scoop Volume	mL	20	1.18	0.10	1.07	0.11	1.18	0.13	1.18	0.17	1.09	0.10		
<b>P Colorimetric</b>														
P	mg/kg	18	8.5	1.3	54.4	6.5	38.0	2.8	40.5	3.0	47.5	4.5		
P ICP	mg/kg	34	9.5	1.3	52.6	6.0	39.5	4.3	48.7	5.0	53.2	6.3		
K	mg/kg	46	76	7	92	10.8	469	32.4	254	20	968	102		
Ca	mg/kg	45	962	85	1469	149	6964	680	417	65	1317	115		
Mg	mg/kg	45	326	27	169	13.3	423	33.0	88	12	437	31.1		
Na	mg/kg	26	63	7.4	49	5.1	508	73.0	16	5.7	15	4.5		
S	mg/kg	23	15.0	2.5	29.6	2.7	204	33	27.0	3.8	10.0	2.8		
Al	mg/kg	20	786	55	1637	173	92	18	956	95	556	60		
Zn	mg/kg	34	0.51	0.12	0.92	0.18	1.5	0.26	1.39	0.20	0.92	0.22		
Mn	mg/kg	32	39	3.9	9.0	1.3	60	6.2	75	11.0	100	20		
Fe	mg/kg	29	121	14.1	332	40	23	4.4	154	15.7	74	11.4		
Cu	mg/kg	32	0.51	0.11	3.23	0.30	0.97	0.21	4.29	0.38	1.10	0.19		
B	mg/kg	27	0.40	0.10	0.81	0.29	2.72	0.33	0.35	0.15	0.65	0.15		

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Soil	Soil 2003-101			Soil 2003-102			Soil 2003-103			Soil 2003-104			Soil 2003-105		
Analysis	Units	n	Median	MAD	Lab <sup>1</sup>	Median	MAD	Lab	Median	MAD	Lab	Median	MAD	Lab	
<b>Micronutrients</b>															
Zn - DTPA	mg/kg	72	0.18	0.04		0.50	0.09		0.50	0.10		0.86	0.11		
Mn - DTPA	mg/kg	66	19.9	1.72		3.4	0.39		7.9	2.7		56.8	9.0		
Fe - DTPA	mg/kg	68	27.7	3.6		111	14.00		2.0	0.50		56.2	7.0		
Cu - DTPA	mg/kg	67	0.20	0.04		1.95	0.21		0.34	0.06		3.20	0.36		
Zn - HCl	mg/kg	6	0.85	0.25		1.50	0.28		0.3	0.18		1.1	0.10		
Mn-H <sub>3</sub> PO <sub>4</sub>	mg/kg	5	17.5	1.5		8.3	1.1		8.0	2.0		48.9	8.02		
Cl - Ca(NO <sub>3</sub> ) <sub>2</sub> Extr.	mg/kg	22	9.9	1.3		54.5	7.5		552	146		5.9	1.5		
B - Hot Water	mg/kg	49	0.37	0.08		0.55	0.12		1.60	0.28		0.34	0.12		
B - DTPA-Sorb	mg/kg	13	0.20	0.03		0.30	0.08		1.80	0.10		0.15	0.04		
<b>Soil Organic Matter</b>															
Soil Kjeldahl N	%	22	0.053	0.003		0.13	0.008		0.060	0.005		0.061	0.008		
Soil TN (combustion)	%	34	0.048	0.009		0.14	0.006		0.054	0.008		0.050	0.010		
Soil TOC (combustion)	%	25	0.52	0.03		2.58	0.12		1.08	0.21		0.59	0.03		
SOM - Walkley-Black	%	47	0.93	0.12		4.55	0.55		1.10	0.17		1.23	0.22		
SOM - LOI (Raw Values)	%	66	1.42	0.17		5.14	0.26		1.23	0.15		1.20	0.11		
<b>CaCO<sub>3</sub> Content</b>															
CEC - Displacement	cmol/kg	34	9.7	1.4		13.9	2.7		9.9	1.64		7.2	1.3		
- Estimation	cmol/kg	7	8.0	1.0		15.0	0.8		28.8	1.8		9.9	2.1		
Scoop Density	mg/cm <sup>3</sup>	7	1.36	0.08		1.06	0.03		1.46	0.03		1.44	0.05		
<b>Particle Size Analysis</b>															
Sand 2000 - 50 um	%	43	59.0	2.1		21.3	3.7		65.9	2.1		54.6	2.3		
Silt 50 - 2 um	%	43	24.6	2.2		68.7	2.7		21.6	1.6		30.9	1.9		
Clay 2 - 0 um	%	43	16.0	2.1		10.6	3.0		13.0	1.8		14.6	2.1		

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