

Soil	Soil 2002-101	Soil 2002-102	Soil 2002-103	Soil 2002-104	Soil 2002-105							
Analysis	Units	n	Median	MAD	Lab <sup>1</sup>	Median	MAD	Lab	Median	MAD	Lab	
<b>Salinity-SP</b>												
Sat. Paste Moisture	%	31	35.5	2.3	52.0	3.0	21.0	1.0	41.6	4.2	39.2	3.2
pH - sp	Unit	41	6.40	0.20	5.30	0.10	6.38	0.08	6.85	0.10	6.52	0.12
Ece - sp	ds/m	44	1.05	0.36	0.41	0.10	0.38	0.05	0.84	0.14	0.64	0.09
HCO <sub>3</sub> - sp	mmol/L	15	1.17	0.33	0.51	0.28	1.00	0.41	3.10	1.16	2.00	0.75
Ca - sp	mmol/L	35	5.82	1.73	2.02	0.46	1.30	0.24	4.10	0.50	2.60	0.48
Mg - sp	mmol/L	35	2.92	0.89	0.83	0.20	1.39	0.17	2.35	0.33	1.06	0.22
Na - sp	mmol/L	35	0.40	0.18	0.30	0.20	0.40	0.20	0.49	0.21	0.80	0.36
SAR - sp	value	31	0.20	0.10	0.20	0.12	0.34	0.17	0.23	0.09	0.55	0.25
Cl - sp	mmol/L	23	0.47	0.08	0.65	0.08	1.32	0.21	0.51	0.13	1.46	0.25
SO <sub>4</sub> - sp	mmol/L	20	1.55	0.40	0.93	0.14	0.95	0.14	1.71	0.18	2.19	0.28
NO <sub>3</sub> - sp	mmol/L	7	9.80	1.34	1.34	1.05	0.30	0.25	2.94	2.34	0.24	0.22
B - sp	mg/L	16	0.10	0.04	0.10	0.01	0.10	0.07	0.13	0.05	0.18	0.04
<b>Soil EC</b>												
Soil EC (1:1)	(ds/m)	34	0.42	0.09	0.28	0.04	0.11	0.04	0.49	0.06	0.35	0.04
Soil EC (1:2)	(ds/m)	51	0.30	0.07	0.16	0.03	0.09	0.03	0.29	0.06	0.19	0.04
<b>Soil pH</b>												
pH (1:1)	Unit	93	6.34	0.09	5.50	0.06	6.50	0.10	7.02	0.08	6.78	0.08
pH (1:2)	Unit	33	6.50	0.18	5.59	0.09	6.58	0.14	7.10	0.10	6.90	0.10
pH (1:1) 0.01M CaCl <sub>2</sub>	Unit	21	5.95	0.12	4.98	0.12	5.81	0.10	6.65	0.05	6.30	0.10
pH (1:2) 0.01M CaCl <sub>2</sub>	Unit	13	5.97	0.07	4.93	0.08	5.78	0.08	6.52	0.03	6.20	0.10
<b>Buffer pH</b>												
SMP Buffer pH	Unit	65	7.09	0.08	6.05	0.08	7.11	0.09	7.12	0.07	7.19	0.06
Adams-Evans Buf pH	Unit	11	7.74	0.04	7.19	0.07	7.77	0.04	7.69	0.03	7.69	0.04
Woodruff Buf. pH	Unit	17	6.86	0.04	6.12	0.12	6.83	0.03	6.95	0.05	6.90	0.04
Mehlich Buf. pH	Unit	4	6.33	0.02	5.63	0.06	6.46	0.05	6.45	0.06	6.40	0.05

1 - Values flagged exceed Warning Limits \* \* \* 2.5 x MAD (Median Absolute Deviation) and Control Limits \* \* \* 4 x MAD. "-" and "ND" values not recorded.

Soil	Soil 2002-101	Soil 2002-102	Soil 2002-103	Soil 2002-104	Soil 2002-105							
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	61	51.0	5.1	16.7	1.6	2.8	0.74	31.0	2.4	5.9	0.7
ISE	mg/kg	28	46.0	8.4	15.0	2.3	3.6	0.8	28.4	6.3	6.0	0.8
CTA	mg/kg	8	47.7	9.1	16.3	1.1	2.3	0.68	28.9	0.20	6.8	1.2
Ion Chromatography	mg/kg	2	32.1	25.2	16.3	2.8	3.9	0.94	29.5	1.25	9.1	3.2
Other	mg/kg	9	50.0	4.6	16.5	1.1	3.9	1.8	32.1	3.1	5.9	0.9
NH <sub>4</sub> - N (KCl Extr.)	mg/kg	52	69.5	8.1	31.0	3.9	4.0	1.0	14.5	1.7	9.0	2.2
<b>Phosphorus &amp; Sulfur</b>												
PO <sub>4</sub> -P Bray P1 (1:10)	mg/kg	55	59.8	4.8	59.3	4.3	118	14	450	92	63.0	5.4
PO <sub>4</sub> -P Bray P1 (1:7)	mg/kg	12	48.7	5.5	48.0	4.5	94.0	13	246	80	54.0	6.0
PO <sub>4</sub> -P Olsen/Bicarb	mg/kg	68	28.3	3.2	29.3	3.4	34.0	6.0	216	53	30.7	4.3
PO <sub>4</sub> -P AB-DTPA	mg/kg	4	28.9	8.6	15.7	7.3	30.1	9.6	170	91	17.5	5.3
PO <sub>4</sub> -P M. Morgan	mg/kg	12	15.0	2.9	6.2	0.6	11.4	2.0	188	53	30.2	5.1
PO <sub>4</sub> -P M. Kewlona	mg/kg	4	34.3	2.2	38.2	0.5	77.6	8.9	327	45	43.4	3.4
PO <sub>4</sub> -P Strg Bray P-2	mg/kg	8	7.3	4.8	7.6	4.0	137	20	788	117	202	35
PO <sub>4</sub> -P Water Soluble	mg/kg	2	4.6	3.9	5.4	4.6	9.6	8.5	39.9	34	13.0	11.3
SO <sub>4</sub> -S (PO <sub>4</sub> Extr.)	mg/kg	50	9.0	2.0	7.3	2.1	5.0	1.5	10.6	2.4	10	2.5
<b>Ammonium Ace. Bases</b>												
K	mg/kg	98	244	22	362	36	92	14	933	68	1086	78
Ca	mg/kg	94	1620	146	3345	405	330	62	3576	332	2281	172
Mg	mg/kg	95	267	24	476	46	95	15	697	46	371	30
Na	mg/kg	75	12	4	13	4	10	5	18	4	23	4
K - Bray (1:10)	mg/kg	4	206	7	243	6	94	9	656	37	816	47
K- Bicarb.	mg/kg	9	227	5	305	5	92	6	783	10	867	17
K Modified Morgan	mg/kg	7	217	37.0	377	47	75	8	879	237	1006	275
Ca Modified Morgan	mg/kg	3	1943	115	3913	341	418	30	5199	865	2875	384
Al KCL Extr.	mg/kg	7	0.65	0.35	0.49	0.32	0.49	0.39	0.4	0.2	0.0	0.3

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Soil	Soil 2002-101	Soil 2002-102	Soil 2002-103	Soil 2002-104	Soil 2002-105							
<b>Analysis</b>	<b>Units</b>	<b>n</b>	<b>Median</b>	<b>MAD</b>	<b>Lab<sup>1</sup></b>	<b>Median</b>	<b>MAD</b>	<b>Lab</b>	<b>Median</b>	<b>MAD</b>	<b>Lab</b>	
<b>Mehlich-1 Multi Element</b>												
Soil Scoop Mass	g	14	5.00	0.75	5.00	0.62	5.42	0.58	5.00	0.44	5.00	0.68
P	mg/kg	13	39	5.4	34.8	8.5	59.3	8.3	43.4	52	193	17
K	mg/kg	14	168	23.6	203	25.3	69	7.3	451	31	597	49
Ca	mg/kg	13	1669	269	3100	438	272	58	3878	724	1880	220
Mg	mg/kg	12	263	27	415	51	91	10	591	65.4	293	30.0
Zn	mg/kg	13	4.15	0.68	1.62	0.36	2.60	0.24	14.5	1.1	0.72	0.25

**Mehlich-3 Multi-Element**

Soil Scoop Mass	g	39	2.01	0.49	1.99	0.49	2.77	0.81	2.20	0.48	2.12	0.54
Scoop Volume	mL	19	1.07	0.11	1.02	0.15	1.18	0.18	1.18	0.18	1.14	0.14

P	Colorimetric	mg/kg	19	60.5	3.5	58.0	5.0	130	18	485	157	88.0	13.0
P	ICP	mg/kg	37	69.0	5.0	75.5	5.6	145	14	676	62	92.9	10.1
K		mg/kg	51	252	16	356	26	102	13.0	957	61	1119	85
Ca		mg/kg	50	1774	123	3598	175	394	68	4595	370	2444	177
Mg		mg/kg	50	292	18	485	32	116	18.0	793	48	424	37
Na		mg/kg	31	14	7	16	7	14	7	22	8	27	6
S		mg/kg	26	17.1	4.3	19.5	4.7	9.8	1.7	23.4	5.4	17.8	3.3
Al		mg/kg	21	449	39	809	43	850	158	360	39	456	41
Zn		mg/kg	42	5.07	0.57	2.60	0.30	4.50	0.70	21.2	2.30	1.38	0.22
Mn		mg/kg	39	171	26	67.2	7.9	124	19	46.1	9.5	164	17
Fe		mg/kg	36	227	27	271	28	147	21.4	388	47.1	71	12
Cu		mg/kg	39	1.37	0.17	2.29	0.30	1.39	0.30	2.52	0.32	1.71	0.21
B		mg/kg	35	0.80	0.20	1.00	0.23	0.29	0.11	2.20	0.30	1.06	0.24

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Soil	Soil 2002-101		Soil 2002-102		Soil 2002-103		Soil 2002-104		Soil 2002-105							
Analysis	Units	n	Median	MAD	Lab <sup>1</sup>	Median	MAD	Lab	Median	MAD	Lab					
<b>Micronutrients</b>																
Zn - DTPA	mg/kg	78	2.22	0.28		1.62	0.17		1.27	0.19		7.92	0.94		0.39	0.09
Mn - DTPA	mg/kg	70	24.5	7.73		61.7	8.2		28.0	3.9		6.5	2.3		9.1	3.1
Fe - DTPA	mg/kg	74	55.6	13.5		140	21		13.1	3.0		50.6	8.8		10.5	2.3
Cu - DTPA	mg/kg	72	0.50	0.09		1.32	0.11		0.47	0.07		1.45	0.23		0.80	0.10
Zn - HCl	mg/kg	7	6.00	0.59		3.89	0.51		3.10	0.25		29.0	1.3		1.72	0.28
Mn-H <sub>3</sub> PO <sub>4</sub>	mg/kg	8	36.7	11.8		41.5	3.0		39.0	4.3		20.1	1.10		13.5	5.0
Cl - Ca(NO <sub>3</sub> ) <sub>2</sub> Extr.	mg/kg	21	6.2	1.8		8.7	1.7		11.3	2.7		6.5	1.6		16.2	3.4
B - Hot Water	mg/kg	57	0.58	0.18		0.91	0.29		0.20	0.08		1.22	0.37		0.76	0.26
B - DTPA-Sorb	mg/kg	13	0.35	0.21		0.26	0.14		0.15	0.05		0.80	0.20		0.50	0.20
<b>Soil Organic Matter</b>																
Soil Kjeldahl N	%	24	0.186	0.013		0.320	0.010		0.024	0.004		0.299	0.021		0.131	0.010
Soil TN (combustion)	%	32	0.197	0.014		0.328	0.022		0.024	0.006		0.310	0.021		0.134	0.013
Soil TOC (combustion)	%	23	1.89	0.06		4.19	0.18		0.49	0.04		3.35	0.12		1.35	0.06
SOM - Walkley-Black	%	63	3.19	0.31		6.40	0.70		0.90	0.20		5.15	0.46		2.34	0.24
SOM - LOI (Raw Values)	%	61	3.42	0.22		7.30	0.40		1.16	0.09		5.53	0.35		2.69	0.21
CaCO <sub>3</sub> Content	%	12	0.30	0.30		0.30	0.40		0.10	0.06		0.75	0.55		0.33	0.24
Soil CEC	cmol/kg	33	13.0	1.7		31.7	4.8		3.2	0.64		27.3	3.1		18.9	1.85
Scoop Density	mg/cm <sup>3</sup>	14	1.10	0.10		1.02	0.06		1.62	0.07		1.26	0.09		1.22	0.13
<b>Particle Size Analysis</b>																
Sand 2000 - 50 um	%	52	23.7	4.3		23.4	3.5		81.5	1.6		44.0	3.0		39.3	3.7
Silt 50 - 2 um	%	52	62.9	3.6		47.1	4.8		9.5	1.5		32.0	3.0		37.0	3.0
Clay 2 - 0 um	%	52	15.5	3.0		28.8	3.9		9.2	1.7		25.0	4.0		26.0	2.0

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