



2009 North American Proficiency Testing Program  
1st Quarter Report - April 25, 2009

Laboratory ID

Plant Analysis	Units	n	Plant 2009-201			Plant 2009-202			Plant 2009-203		
			Median	MAD	Lab <sup>1,2</sup>	Median	MAD	Lab <sup>1,2</sup>	Median	MAD	Lab <sup>1,2</sup>
Dry Matter (%)	%	20	95.0	0.58		93.2	0.57		94.7	0.51	
NO3 - N Cd Rd.	mg/kg	21	404	18.4		871	62.0		21.3	15.2	
NO3 - N ISE	mg/kg	6	463	35.5		1100	70.0		89.0	20.0	
NO3 - N Other	mg/kg	3	700	340		854	54.0		729	99.0	
NH4-N	mg/kg	2	53.1	23.1		364	74.0		37.0	17.0	
PO4 - P	mg/kg	12	1640	131		2566	217		1272	172	
SO4 - S	mg/kg	5	692	249		1154	119		1259	815	
Cl	%	19	0.640	0.025		0.390	0.040		0.610	0.024	
TKN	%	20	1.38	0.060		0.960	0.080		1.62	0.085	
N- Dry Comb.	%	43	1.40	0.055		0.976	0.039		1.67	0.066	
S- Dry Comb.	%	9	0.150	0.012		0.150	0.010		0.200	0.038	
<b>Nitric / Perchloric</b>											
P	%	26	0.255	0.015		0.330	0.010		0.192	0.009	
K	%	26	1.894	0.085		2.394	0.108		2.150	0.090	
Ca	%	27	0.340	0.016		1.670	0.083		0.390	0.020	
Mg	%	27	0.150	0.008		0.700	0.030		0.211	0.010	
S	%	25	0.130	0.010		0.152	0.008		0.220	0.012	
Na	%	21	0.090	0.006		0.111	0.009		0.020	0.002	
Al	mg/kg	13	106	6.9		59.0	15.0		70.9	8.88	
B	mg/kg	20	4.77	1.50		42.9	1.93		13.9	1.19	
Zn	mg/kg	27	13.8	0.88		75.4	4.02		16.2	1.06	
Mn	mg/kg	27	54.0	2.16		104	6.3		84.5	3.38	
Fe	mg/kg	26	96.5	5.60		59.2	7.53		81.0	6.04	
Cu	mg/kg	27	5.80	0.370		19.1	1.16		7.00	0.400	
Mo	mg/kg	6	1.00	0.080		0.264	0.054		0.926	0.175	

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

2 - Limits not compared to lab data for methods with < 7 labs reporting.



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<b>Nitric / Perchloric- MICROWAVE</b>											
P	%	18	0.261	0.011		0.340	0.030		0.200	0.011	
K	%	18	1.945	0.090		2.377	0.115		2.162	0.060	
Ca	%	18	0.365	0.025		1.650	0.110		0.410	0.030	
Mg	%	18	0.150	0.010		0.700	0.056		0.210	0.010	
S	%	18	0.140	0.010		0.155	0.015		0.223	0.018	
Na	%	16	0.090	0.007		0.115	0.006		0.023	0.004	
Al	mg/kg	12	112	5.4		62.2	12.5		66.5	15.3	
B	mg/kg	15	4.10	1.20		41.5	3.00		13.0	1.42	
Zn	mg/kg	18	14.8	1.68		74.8	4.90		17.1	2.11	
Mn	mg/kg	18	55.6	4.30		106	5.0		84.7	4.29	
Fe	mg/kg	18	108	14.8		64.9	7.48		88.1	11.5	
Cu	mg/kg	18	6.23	0.930		19.3	1.20		7.13	0.441	
Mo	mg/kg	7	0.880	0.130		0.332	0.327		0.862	0.142	
<b>Dry Ash</b>											
P	%	22	0.270	0.016		0.345	0.015		0.200	0.010	
K	%	22	1.900	0.100		2.432	0.125		2.185	0.125	
Ca	%	23	0.349	0.019		1.700	0.068		0.398	0.018	
Mg	%	23	0.150	0.011		0.710	0.040		0.210	0.010	
Na	%	17	0.099	0.018		0.130	0.020		0.030	0.003	
Al	mg/kg	8	79.9	16.7		68.2	7.08		48.9	8.49	
B	mg/kg	19	4.00	0.410		41.0	3.81		13.3	1.45	
Zn	mg/kg	21	14.0	1.00		74.0	5.00		15.2	0.80	
Mn	mg/kg	21	50.0	4.00		103	6.0		74.0	5.62	
Fe	mg/kg	21	86.0	24.0		57.9	9.90		73.9	10.2	
Cu	mg/kg	21	5.00	0.640		19.0	1.00		6.00	0.890	
Mo	mg/kg	4	0.883	0.208		1.32	0.079		0.98	0.490	

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