



**2010 North American Proficiency Testing Program
1st Quarter Report - May 2, 2010**

Laboratory ID

Plant Analysis	Units	n	Plant 2010-201			Plant 2010-202			Plant 2010-203		
			Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}
Dry Matter (%)	%	19	92.3	1.17		93.3	3.73		94.4	3.78	
NO3 - N Cd Rd.	mg/kg	21	130	14.0		957	82.4		918	68.0	
NO3 - N ISE	mg/kg	3	253	88.0		1312	128		1070	81.3	
NO3 - N Other	mg/kg	1	1772	0.0		3653	0.00		4793	0.0	
NH4-N	mg/kg	3	120	13.8		320	185		440	132	
PO4 - P	mg/kg	9	1751	284		2770	130		2230	131	
SO4 - S	mg/kg	4	3858	247		1074	54.9		958	243	
Cl	%	17	0.860	0.080		0.450	0.072		1.02	0.060	
TKN	%	15	1.82	0.070		0.985	0.046		3.40	0.136	
N- Dry Comb.	%	44	1.85	0.074		1.05	0.042		3.55	0.142	
S- Dry Comb.	%	8	0.514	0.071		0.164	0.018		0.238	0.028	
Nitric / Perchloric											
P	%	27	0.316	0.014		0.348	0.018		0.390	0.016	
K	%	26	2.360	0.130		2.390	0.120		1.424	0.075	
Ca	%	27	1.390	0.050		1.606	0.066		0.757	0.026	
Mg	%	27	0.348	0.012		0.680	0.025		0.620	0.025	
S	%	26	0.526	0.026		0.160	0.010		0.228	0.018	
Na	%	22	0.181	0.011		0.119	0.008		0.012	0.002	
Al	mg/kg	14	405	90.6		49.2	8.03		72.3	16.0	
B	mg/kg	20	30.8	2.74		44.7	3.09		11.2	1.27	
Zn	mg/kg	27	19.9	0.800		77.7	3.74		27.0	0.60	
Mn	mg/kg	27	47.0	1.88		84.8	3.75		89.0	3.60	
Fe	mg/kg	26	429	49.1		61.5	5.52		132	10.0	
Cu	mg/kg	28	48.3	2.33		20.0	1.20		11.4	0.55	
Mo	mg/kg	11	1.40	0.200		0.270	0.153		0.902	0.178	

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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			Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}
Nitric / Perchloric- MICROWAVE											
P	%	17	0.322	0.022		0.360	0.029		0.405	0.030	
K	%	17	2.310	0.237		2.349	0.171		1.382	0.068	
Ca	%	16	1.368	0.067		1.642	0.066		0.740	0.030	
Mg	%	17	0.350	0.020		0.690	0.030		0.603	0.033	
S	%	15	0.490	0.036		0.160	0.006		0.223	0.019	
Na	%	15	0.190	0.010		0.120	0.010		0.015	0.005	
Al	mg/kg	11	455	108		57.0	14.7		86.0	17.0	
B	mg/kg	15	30.3	1.70		42.3	2.12		11.5	0.67	
Zn	mg/kg	17	20.0	1.40		79.4	4.40		27.0	2.00	
Mn	mg/kg	17	48.0	2.10		85.1	5.03		88.6	5.22	
Fe	mg/kg	17	434	34.8		66.0	6.00		126	11.5	
Cu	mg/kg	17	47.7	2.28		20.0	1.10		11.1	0.65	
Mo	mg/kg	7	1.44	0.130		0.307	0.102		0.830	0.126	
Dry Ash											
P	%	20	0.320	0.010		0.340	0.014		0.394	0.013	
K	%	21	2.352	0.184		2.370	0.100		1.379	0.105	
Ca	%	21	1.400	0.056		1.620	0.065		0.739	0.036	
Mg	%	21	0.349	0.019		0.680	0.027		0.608	0.021	
Na	%	14	0.201	0.015		0.135	0.007		0.020	0.010	
Al	mg/kg	10	479	75.0		66.4	11.5		61.3	21.3	
B	mg/kg	21	32.0	3.00		43.1	3.05		11.3	1.76	
Zn	mg/kg	21	20.0	2.15		77.0	4.00		24.8	1.92	
Mn	mg/kg	21	47.0	1.87		84.8	5.68		86.0	3.84	
Fe	mg/kg	18	440	56.9		59.3	7.49		125	16.5	
Cu	mg/kg	19	49.0	5.00		21.4	1.50		9.00	1.20	
Mo	mg/kg	4	1.01	0.184		0.830	0.064		0.593	0.291	

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