



2010 North American Proficiency Testing Program  
2nd Quarter Report - July 16, 2010

Laboratory ID

Plant Analysis	Units	n	Plant 2010-204			Plant 2010-205			Plant 2010-206		
			Median	MAD	Lab <sup>1,2</sup>	Median	MAD	Lab <sup>1,2</sup>	Median	MAD	Lab <sup>1,2</sup>
Dry Matter (%)	%	20	94.7	0.54		92.5	3.73		95.8	3.78	
NO3 - N Cd Rd.	mg/kg	16	45.2	17.2		128	17.5		13.3	10.8	
NO3 - N ISE	mg/kg	4	75.0	32.5		181	13.2		55.5	22.0	
NO3 - N Other	mg/kg	2	723	638		110	595		491	0.000	
NH4-N	mg/kg	2	73.0	43.0		264	134		58.1	0.000	
PO4 - P	mg/kg	7	858	125		1629	200		1080	103	
SO4 - S	mg/kg	3	108	362		3248	354		195	498	
Cl	%	13	0.090	0.070		0.820	0.035		0.090	0.060	
TKN	%	17	1.47	0.070		1.80	0.090		1.58	0.136	
N- Dry Comb.	%	41	1.48	0.074		1.86	0.042		1.60	0.142	
S- Dry Comb.	%	6	0.085	0.022		0.479	0.034		0.107	0.035	
<b>Nitric / Perchloric</b>											
P	%	28	0.200	0.010		0.320	0.020		0.220	0.016	
K	%	28	1.43	0.114		2.35	0.135		0.844	0.045	
Ca	%	28	1.30	0.063		1.38	0.061		0.430	0.030	
Mg	%	28	0.560	0.031		0.340	0.013		0.140	0.010	
S	%	26	0.090	0.007		0.510	0.025		0.112	0.011	
Na	%	21	0.008	0.003		0.175	0.015		0.010	0.006	
Al	mg/kg	13	78.6	21.7		332	102		335	26.7	
B	mg/kg	22	34.6	2.81		30.9	2.67		19.4	2.43	
Zn	mg/kg	28	11.6	0.80		19.0	1.05		20.4	1.57	
Mn	mg/kg	28	29.5	1.88		45.4	2.69		459	35.6	
Fe	mg/kg	28	91.7	12.9		411	61.5		78.1	11.9	
Cu	mg/kg	28	3.48	0.740		47.8	3.47		3.76	0.550	
Mo	mg/kg	9	0.738	0.313		1.21	0.338		0.084	0.084	

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	%	16	0.201	0.011		0.324	0.013		0.220	0.010	
K	%	16	1.46	0.055		2.32	0.093		0.870	0.068	
Ca	%	16	1.31	0.052		1.41	0.066		0.449	0.029	
Mg	%	16	0.548	0.023		0.345	0.014		0.140	0.007	
S	%	16	0.088	0.005		0.510	0.030		0.112	0.008	
Na	%	13	0.005	0.003		0.180	0.016		0.004	0.005	
Al	mg/kg	11	88.7	17.9		442	171.4		341	20.0	
B	mg/kg	15	32.9	2.49		30.0	1.93		19.6	1.76	
Zn	mg/kg	16	11.0	0.56		19.0	1.00		20.6	1.40	
Mn	mg/kg	16	28.9	1.35		45.8	1.83		477	19.1	
Fe	mg/kg	16	93.4	10.08		441	47.0		73.3	10.5	
Cu	mg/kg	15	3.50	0.500		48.0	1.80		3.80	0.800	
Mo	mg/kg	8	0.752	0.125		1.28	0.135		0.335	0.115	
<b>Dry Ash</b>											
P	%	17	0.194	0.006		0.323	0.014		0.220	0.010	
K	%	18	1.45	0.058		2.30	0.091		0.842	0.034	
Ca	%	18	1.28	0.056		1.40	0.065		0.420	0.020	
Mg	%	18	0.545	0.020		0.340	0.017		0.138	0.021	
Na	%	12	0.011	0.004		0.190	0.020		0.010	0.007	
Al	mg/kg	7	79.2	11.77		466	63.0		336	26.2	
B	mg/kg	18	33.5	3.40		31.2	3.63		20.0	1.00	
Zn	mg/kg	18	12.5	2.12		19.1	1.38		19.0	1.29	
Mn	mg/kg	18	28.9	1.87		45.0	2.77		447	17.9	
Fe	mg/kg	15	98.6	12.09		446	49.3		72.9	10.9	
Cu	mg/kg	17	4.00	1.000		46.0	1.72		4.00	1.00	
Mo	mg/kg	2	1.42	0.755		1.99	0.077		1.11	0.000	

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