



2008 North American Proficiency Testing Program  
4th Quarter Report - November 28, 2008

Laboratory ID

Plant Analysis	Units	n	Plant 2008-210			Plant 2008-211			Plant 2008-212		
			Median	MAD	Lab <sup>1,2</sup>	Median	MAD	Lab <sup>1,2</sup>	Median	MAD	Lab <sup>1,2</sup>
Dry Matter (%)	%	27	92.0	3.74		93.8	3.7		93.0	3.68	
NO3 - N Cd Rd.	mg/kg	24	30.2	22.2		333	27.0		592	47.7	
NO3 - N ISE	mg/kg	5	13.9	8.86		400	31.0		830	53.8	
NO3 - N Other	mg/kg	2	71.8	68.3		361	79.0		1105	565	
NH4-N	mg/kg	4	48.6	10.9		519	213		108	30.0	
PO4 - P	mg/kg	13	500	70.0		2500	128		2859	311	
SO4 - S	mg/kg	7	343	250		1377	153		556	289	
Cl	%	18	0.135	0.043		0.795	0.045		0.317	0.097	
TKN	%	17	1.980	0.110		3.730	0.220		1.640	0.090	
N- Dry Comb.	%	49	2.000	0.080		3.943	0.155		1.678	0.127	
S- Dry Comb.	%	11	0.159	0.030		0.390	0.067		0.145	0.035	
<b>Nitric / Perchloric</b>											
P	%	28	0.312	0.018		0.437	0.017		0.380	0.020	
K	%	28	0.450	0.025		2.495	0.125		1.790	0.090	
Ca	%	28	0.070	0.010		0.690	0.034		1.438	0.055	
Mg	%	28	0.130	0.026		0.288	0.024		0.441	0.021	
S	%	29	0.130	0.010		0.350	0.015		0.120	0.010	
Na	%	24	0.019	0.002		0.007	0.003		0.010	0.002	
Al	mg/kg	14	30.9	2.85		87.6	16.6		203	29.6	
B	mg/kg	21	2.20	0.897		9.05	1.40		35.3	3.04	
Zn	mg/kg	28	35.7	2.27		34.3	2.20		23.0	1.66	
Mn	mg/kg	28	18.0	1.41		53.0	2.10		107	4.20	
Fe	mg/kg	28	51.1	9.15		161	10.7		257	26.5	
Cu	mg/kg	28	7.68	0.680		13.5	0.54		6.24	0.630	
Mo	mg/kg	8	1.21	0.082		2.17	0.119		0.762	0.117	

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	%	21	0.320	0.019		0.445	0.025		0.390	0.020	
K	%	21	0.460	0.105		2.480	0.130		1.721	0.090	
Ca	%	21	0.070	0.006		0.710	0.072		1.479	0.071	
Mg	%	21	0.129	0.009		0.297	0.017		0.454	0.029	
S	%	21	0.131	0.011		0.370	0.021		0.120	0.010	
Na	%	18	0.020	0.002		0.007	0.003		0.010	0.003	
Al	mg/kg	15	31.9	1.30		91.0	16.3		240	38.6	
B	mg/kg	15	1.61	0.734		9.40	1.74		36.0	1.80	
Zn	mg/kg	21	34.0	1.64		35.0	2.00		22.9	1.24	
Mn	mg/kg	21	19.2	3.93		54.0	6.36		110	4.4	
Fe	mg/kg	21	52.0	6.19		163	7.3		256	20.9	
Cu	mg/kg	21	7.67	0.670		14.0	1.00		6.90	0.644	
Mo	mg/kg	7	1.34	0.144		2.25	0.090		0.824	0.173	
<b>Dry Ash</b>											
P	%	20	0.328	0.012		0.448	0.018		0.385	0.016	
K	%	20	0.470	0.020		2.360	0.128		1.770	0.088	
Ca	%	20	0.070	0.010		0.665	0.035		1.424	0.068	
Mg	%	21	0.130	0.007		0.278	0.012		0.440	0.015	
Na	%	14	0.020	0.004		0.017	0.007		0.020	0.010	
Al	mg/kg	8	26.7	4.80		73.2	18.5		238	43.7	
B	mg/kg	18	2.00	1.000		9.36	1.30		35.3	2.19	
Zn	mg/kg	20	35.2	1.40		31.8	2.30		22.8	2.23	
Mn	mg/kg	20	18.0	1.00		49.1	2.70		104	5.6	
Fe	mg/kg	20	45.0	7.00		153	28.1		253	28.0	
Cu	mg/kg	20	7.33	1.75		9.00	3.00		6.30	0.800	
Mo	mg/kg	6	0.900	0.420		1.70	0.600		1.32	0.660	

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