



2010 North American Proficiency Testing Program  
4th Quarter Report - January 26, 2011

Laboratory ID  
General

Plant Analysis	Units	n	Plant 2010-210			Plant 2010-211			Plant 2010-212		
			Median	MAD	Lab <sup>1,2</sup>	Median	MAD	Lab <sup>1,2</sup>	Median	MAD	Lab <sup>1,2</sup>
Dry Matter (%)	%	27	93.6	0.47		92.3	0.99		95.3	0.71	
NO3 - N Cd Rd.	mg/kg	23	8700.0	560.0		134	24.0		3632.0	228.0	
NO3 - N ISE	mg/kg	3	8025.0	545.0		257	37.3		3954.8	125.8	
NO3 - N Other	mg/kg	3	9000	729		160	67		3740	447.0	
NH4-N	mg/kg	2	432.0	52.0		278	108		31.8	11.750	
PO4 - P	mg/kg	10	2804	360		1820	256		1080	76	
SO4 - S	mg/kg	4	2189	138		3781	588		492	215	
Cl	%	19	3.330	0.245		0.840	0.040		1.030	0.060	
TKN	%	16	2.58	0.220		1.80	0.060		0.62	0.104	
N- Dry Comb.	%	46	3.19	0.084		1.86	0.060		0.82	0.060	
S- Dry Comb.	%	13	0.315	0.075		0.500	0.060		0.040	0.029	
<b>Nitric / Perchloric</b>											
P	%	26	0.390	0.013		0.323	0.013		0.125	0.005	
K	%	26	5.45	0.240		2.36	0.108		2.924	0.162	
Ca	%	26	2.44	0.120		1.40	0.080		0.140	0.017	
Mg	%	26	1.011	0.038		0.349	0.013		0.180	0.010	
S	%	25	0.320	0.015		0.510	0.019		0.040	0.007	
Na	%	23	0.470	0.023		0.180	0.010		0.010	0.007	
Al	mg/kg	11	135.0	39.1		348	80		32	10.1	
B	mg/kg	20	34.3	2.12		30.1	1.70		2.9	1.08	
Zn	mg/kg	26	60.2	2.24		19.9	1.58		9.5	0.93	
Mn	mg/kg	26	50.8	2.86		46.2	2.18		6	0.6	
Fe	mg/kg	26	192.2	11.9		425	46.2		40.9	3.9	
Cu	mg/kg	26	13.69	0.900		46.6	2.44		3.00	0.481	
Mo	mg/kg	7	1.067	0.446		1.48	0.570		1.067	0.690	

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	%	19	0.400	0.020		0.322	0.022		0.127	0.013	
K	%	19	5.45	0.351		2.37	0.130		2.900	0.199	
Ca	%	18	2.45	0.105		1.40	0.061		0.145	0.015	
Mg	%	19	1.000	0.050		0.345	0.017		0.180	0.010	
S	%	18	0.330	0.021		0.523	0.026		0.040	0.003	
Na	%	16	0.465	0.035		0.185	0.006		0.010	0.007	
Al	mg/kg	12	155.1	19.3		469	129.3		30	5.6	
B	mg/kg	17	33.4	1.89		29.4	3.40		3.0	1.35	
Zn	mg/kg	19	61.1	5.07		20.1	2.15		9.5	1.26	
Mn	mg/kg	19	51.0	2.16		45.4	2.60		6	0.7	
Fe	mg/kg	19	193.0	19.00		430	47.8		40.5	8.1	
Cu	mg/kg	19	14.00	1.00		47.7	3.15		3.00	1.28	
Mo	mg/kg	8	0.955	0.181		1.17	0.111		0.495	0.104	
<b>Dry Ash</b>											
P	%	21	0.400	0.020		0.320	0.010		0.120	0.005	
K	%	22	5.45	0.229		2.36	0.097		2.95	0.130	
Ca	%	22	2.48	0.099		1.40	0.035		0.13	0.012	
Mg	%	22	1.010	0.039		0.340	0.010		0.177	0.007	
Na	%	16	0.490	0.024		0.200	0.020		0.016	0.006	
Al	mg/kg	10	187	20.0		515	39.7		31	3.8	
B	mg/kg	23	36.0	3.00		33.0	2.76		3.0	1.00	
Zn	mg/kg	21	59.3	3.30		19.8	2.70		9.0	1.10	
Mn	mg/kg	22	50.0	1.51		44.9	3.41		6	0.4	
Fe	mg/kg	20	183.9	17.00		448	50.7		33.3	6.1	
Cu	mg/kg	20	13.95	1.294		46.9	3.08		4.00	1.14	
Mo	mg/kg	3	5.27	1.05		2.70	1.54		0.68	0.40	

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