



2014 North American Proficiency Testing Program  
2nd Quarter Report - July 15, 2014

Laboratory ID  
general

Plant Analysis	Units	n	Plant 2014-204			Plant 2014-205			Plant 2014-206		
			Median	MAD	Lab <sup>1,2</sup>	Median	MAD	Lab <sup>1,2</sup>	Median	MAD	Lab <sup>1,2</sup>
Dry Matter (%)	%	27	95.5	0.340		94.5	0.350		95.0	0.535	
NO3 - N Cd Rd.	mg/kg	23	2180	97.0		1440	100		36.7	8.30	
NO3 - N ISE	mg/kg	4	2000	512		1780	193		232	83.0	
NO3 - N Other	mg/kg	4	2050	126		1440	85.5		468	398	
NH4-N	mg/kg	3	124	46.8		129	14.6		45.7	0.670	
PO4 - P	mg/kg	9	1680	106		3520	160		1640	50.0	
SO4 - S	mg/kg	5	3030	544		971	269		1160	186	
Cl	%	19	0.940	0.041		0.330	0.031		1.21	0.054	
TKN	%	16	3.03	0.155		2.86	0.120		1.64	0.074	
N- Dry Comb.	%	57	3.29	0.050		3.02	0.060		1.73	0.050	
S- Dry Comb.	%	12	0.481	0.053		0.219	0.017		0.210	0.021	
<b>Nitric / Perchloric</b>											
P	%	30	0.270	0.013		0.490	0.030		0.280	0.015	
K	%	33	3.93	0.140		4.39	0.244		2.60	0.130	
Ca	%	32	4.93	0.220		1.25	0.048		0.660	0.032	
Mg	%	31	1.42	0.060		0.534	0.034		0.290	0.015	
S	%	32	0.515	0.035		0.211	0.011		0.210	0.010	
Na	%	24	0.010	0.002		0.029	0.005		0.020	0.003	
Al	mg/kg	14	158	25.5		1660	108		105	21.0	
B	mg/kg	26	83.8	7.90		33.3	2.96		11.5	0.975	
Zn	mg/kg	31	35.1	2.33		101	6.28		19.9	1.90	
Mn	mg/kg	31	120	6.50		133	6.07		65.1	3.15	
Fe	mg/kg	31	221	39.0		2960	380		170	18.6	
Cu	mg/kg	31	7.05	1.05		19.7	1.78		8.55	0.660	
Mo	mg/kg	11	4.55	0.350		1.75	0.180		5.38	0.306	

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 / Peroxide- MICROWAVE</b>											
P	%	27	0.267	0.007		0.480	0.012		0.270	0.010	
K	%	27	3.90	0.123		4.26	0.070		2.59	0.059	
Ca	%	27	4.89	0.264		1.24	0.040		0.641	0.029	
Mg	%	27	1.40	0.067		0.526	0.020		0.276	0.006	
S	%	26	0.505	0.017		0.210	0.010		0.200	0.010	
Na	%	19	0.006	0.001		0.030	0.002		0.017	0.002	
Al	mg/kg	17	215	52.0		2000	380		123	13.0	
B	mg/kg	26	85.1	7.02		34.3	3.70		11.1	0.705	
Zn	mg/kg	26	35.7	4.10		101	4.20		19.9	1.82	
Mn	mg/kg	27	122	6.88		134	4.35		64.6	3.13	
Fe	mg/kg	27	220	19.0		2970	299		162	11.8	
Cu	mg/kg	26	7.06	0.961		19.6	1.35		8.05	0.850	
Mo	mg/kg	13	4.49	0.290		1.60	0.150		5.37	0.260	
<b>Dry Ash</b>											
P	%	18	0.260	0.012		0.493	0.024		0.273	0.013	
K	%	19	3.84	0.200		4.20	0.290		2.48	0.180	
Ca	%	19	4.96	0.250		1.22	0.060		0.610	0.030	
Mg	%	19	1.35	0.070		0.510	0.040		0.260	0.012	
Na	%	14	0.010	0.002		0.100	0.020		0.024	0.004	
Al	mg/kg	7	231	23.0		2420	280		107	7.00	
B	mg/kg	21	85.4	5.40		36.0	2.90		10.1	1.30	
Zn	mg/kg	18	33.9	3.88		96.1	9.59		15.3	3.20	
Mn	mg/kg	18	118	9.30		123	12.6		55.3	4.10	
Fe	mg/kg	18	211	14.0		2340	402		139	21.4	
Cu	mg/kg	19	6.66	0.900		18.3	1.70		4.00	0.662	
Mo	mg/kg	8	4.21	0.345		1.59	0.110		5.10	0.425	

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