



2014 North American Proficiency Testing Program  
4th Quarter Report - January 18, 2015

Laboratory ID  
general

Plant Analysis	Units	n	Plant 2014-210			Plant 2014-211			Plant 2014-212		
			Median	MAD	Lab <sup>1,2</sup>	Median	MAD	Lab <sup>1,2</sup>	Median	MAD	Lab <sup>1,2</sup>
Dry Matter (%)	%	27	94.4	0.375		92.0	0.520		94.3	0.500	
NO3 - N Cd Rd.	mg/kg	22	31.8	6.00		64.7	6.72		19500	1330	
NO3 - N ISE	mg/kg	4	132	43.0		145	33.0		22000	4120	
NO3 - N Other	mg/kg	2	128	57.5		294	172		21300	2800	
NH4-N	mg/kg	1	32.0	0.000		115	0.000		252	0.000	
PO4 - P	mg/kg	7	1650	124		850	184.0		1570	116	
SO4 - S	mg/kg	4	1080	115		322	34.0		1295	120	
Cl	%	20	1.180	0.092		0.255	0.021		2.32	0.115	
TKN	%	14	1.65	0.060		2.73	0.075		2.71	0.372	
N- Dry Comb.	%	58	1.74	0.030		2.78	0.060		4.11	0.060	
S- Dry Comb.	%	12	0.220	0.014		0.187	0.017		0.220	0.020	
<b>Nitric / Perchloric</b>											
P	%	31	0.277	0.014		0.175	0.005		0.251	0.013	
K	%	32	2.54	0.083		1.43	0.076		9.94	0.740	
Ca	%	32	0.659	0.037		2.13	0.097		1.19	0.030	
Mg	%	32	0.290	0.014		0.610	0.024		0.545	0.026	
S	%	31	0.210	0.010		0.199	0.011		0.240	0.012	
Na	%	24	0.017	0.003		0.010	0.002		0.018	0.004	
Al	mg/kg	14	104	16.5		224	38.0		77.2	16.5	
B	mg/kg	28	10.8	1.07		146	9.74		28.5	2.50	
Zn	mg/kg	31	19.9	1.07		90.4	5.87		81.0	3.08	
Mn	mg/kg	31	65.1	3.70		163	6.00		239	15.4	
Fe	mg/kg	31	164	13.2		296	25.3		157	19.1	
Cu	mg/kg	31	8.25	0.326		231	12.8		7.29	0.590	
Mo	mg/kg	7	5.43	0.380		0.220	0.090		0.120	0.120	

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 <sup>1,2</sup>	Median	MAD	Lab <sup>1,2</sup>	Median	MAD	Lab <sup>1,2</sup>
<b>Nitric / Peroxide- MICROWAVE</b>											
P	%	24	0.277	0.013		0.178	0.013		0.251	0.010	
K	%	25	2.590	0.160		1.44	0.050		10.0	0.620	
Ca	%	25	0.644	0.036		2.13	0.130		1.18	0.060	
Mg	%	25	0.290	0.013		0.590	0.030		0.533	0.025	
S	%	24	0.207	0.011		0.200	0.010		0.240	0.018	
Na	%	17	0.020	0.004		0.010	0.002		0.018	0.003	
Al	mg/kg	17	115	12.2		285	58.2		93.0	19.0	
B	mg/kg	25	11.3	1.20		153	9.64		28.5	2.70	
Zn	mg/kg	24	19.4	1.69		88.0	6.88		78.9	4.59	
Mn	mg/kg	24	65.1	2.60		164	6.10		233	7.18	
Fe	mg/kg	24	160	14.8		317	33.6		169	24.3	
Cu	mg/kg	24	8.28	0.503		232	10.8		7.54	0.500	
Mo	mg/kg	11	5.70	0.390		0.265	0.065		0.336	0.079	
<b>Dry Ash</b>											
P	%	18	0.278	0.012		0.172	0.012		0.250	0.010	
K	%	18	2.50	0.135		1.49	0.085		9.93	0.200	
Ca	%	18	0.620	0.025		2.18	0.135		1.17	0.035	
Mg	%	18	0.261	0.011		0.595	0.038		0.530	0.030	
Na	%	14	0.020	0.001		0.021	0.003		0.059	0.010	
Al	mg/kg	5	68.9	17.9		249	64.0		107	31.2	
B	mg/kg	19	10.9	0.920		148	12.9		27.8	2.34	
Zn	mg/kg	17	15.0	2.60		86.8	4.96		75.7	5.26	
Mn	mg/kg	17	53.8	3.80		157	15.0		234	17.9	
Fe	mg/kg	17	137	11.5		257	47.1		172	15.0	
Cu	mg/kg	17	3.76	0.760		225	14.9		8.00	1.00	
Mo	mg/kg	5	4.96	0.650		0.730	0.165		0.470	0.205	

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