



2014 North American Proficiency Testing Program
1st Quarter Report - April 15, 2014

Laboratory ID
general

Plant Analysis	Units	n	Plant 2014-201			Plant 2014-202			Plant 2014-203		
			Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}
Dry Matter (%)	%	24	95.1	0.305		92.8	0.465		94.4	0.370	
NO3 - N Cd Rd.	mg/kg	24	36.3	9.00		2210	199		455	62.3	
NO3 - N ISE	mg/kg	5	158	66.0		2440	272		713	87.0	
NO3 - N Other	mg/kg	3	576	224		2210	102		1240	688	
NH4-N	mg/kg	3	70.0	0.000		195	69.0		58.0	12.2	
PO4 - P	mg/kg	11	1670	84.0		1900	140		2390	29.0	
SO4 - S	mg/kg	6	1277	219		10600	1800		695	197	
Cl	%	21	1.19	0.060		1.50	0.120		0.320	0.061	
TKN	%	12	1.63	0.038		2.46	0.070		1.65	0.050	
N- Dry Comb.	%	53	1.75	0.050		2.62	0.070		1.72	0.060	
S- Dry Comb.	%	10	0.216	0.015		1.03	0.095		0.130	0.009	
Nitric / Perchloric											
P	%	31	0.280	0.020		0.290	0.020		0.340	0.020	
K	%	32	2.60	0.125		1.10	0.070		1.54	0.090	
Ca	%	32	0.660	0.028		6.53	0.405		1.98	0.080	
Mg	%	32	0.290	0.018		1.56	0.080		0.522	0.027	
S	%	33	0.200	0.010		1.09	0.090		0.130	0.010	
Na	%	25	0.017	0.003		0.130	0.010		0.006	0.001	
Al	mg/kg	15	96.3	13.9		331	35.0		210	23.0	
B	mg/kg	28	11.2	0.915		93.0	5.99		60.2	3.55	
Zn	mg/kg	32	19.4	1.60		19.2	1.62		16.0	1.20	
Mn	mg/kg	32	66.0	2.70		166	6.00		228	11.3	
Fe	mg/kg	32	158	18.5		452	56.5		305	35.3	
Cu	mg/kg	33	8.00	0.710		8.00	1.00		7.00	0.900	
Mo	mg/kg	11	5.81	0.450		1.20	0.230		1.99	0.360	

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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Nitric / Peroxide- MICROWAVE											
P	%	24	0.271	0.013		0.290	0.017		0.331	0.019	
K	%	24	2.61	0.135		1.10	0.071		1.54	0.055	
Ca	%	24	0.640	0.030		6.44	0.309		1.93	0.091	
Mg	%	24	0.281	0.013		1.57	0.090		0.509	0.024	
S	%	23	0.208	0.012		1.06	0.045		0.130	0.010	
Na	%	17	0.020	0.002		0.130	0.010		0.006	0.000	
Al	mg/kg	14	120	29.5		468	56.5		318	37.2	
B	mg/kg	23	11.4	1.21		95.4	8.56		62.8	3.82	
Zn	mg/kg	23	19.2	0.900		18.5	1.61		16.0	1.00	
Mn	mg/kg	24	65.9	1.95		166	9.10		225	9.50	
Fe	mg/kg	24	161	11.7		466	40.5		319	24.6	
Cu	mg/kg	23	8.24	0.390		8.71	0.810		7.00	0.650	
Mo	mg/kg	11	5.57	0.617		1.40	0.300		2.04	0.260	
Dry Ash											
P	%	18	0.275	0.015		0.300	0.025		0.350	0.020	
K	%	19	2.49	0.140		1.11	0.070		1.54	0.080	
Ca	%	19	0.600	0.040		6.60	0.400		1.94	0.080	
Mg	%	19	0.251	0.006		1.53	0.110		0.500	0.034	
Na	%	16	0.020	0.005		0.134	0.008		0.010	0.001	
Al	mg/kg	7	108	8.03		450	59.1		307	41.0	
B	mg/kg	20	10.0	0.915		92.0	6.00		64.0	3.28	
Zn	mg/kg	18	15.3	2.06		18.0	2.63		15.7	2.30	
Mn	mg/kg	18	53.6	4.35		159	11.4		215	25.2	
Fe	mg/kg	18	134	29.7		397	54.2		296	50.5	
Cu	mg/kg	18	4.25	0.581		8.71	0.955		7.00	0.345	
Mo	mg/kg	6	4.96	0.440		1.20	0.470		2.16	0.280	

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