



2013 North American Proficiency Testing Program
1st Quarter Report -April 17, 2013

Laboratory ID
general

Plant Analysis	Units	n	Plant 2013-201			Plant 2013-202			Plant 2013-203		
			Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}
Dry Matter (%)	%	26	93.9	0.425		93.7	0.615		94.2	0.505	
NO3 - N Cd Rd.	mg/kg	26	201	28.6		19.3	4.14		7790	514	
NO3 - N ISE	mg/kg	5	295	65.7		43.0	19.0		11400	2640	
NO3 - N Other	mg/kg	4	300	84.5		140	70.0		8810	394	
NH4-N	mg/kg	2	138	98.0		68.0	48.0		1060	740	
PO4 - P	mg/kg	9	550	41.0		568	88.0		2080	84.0	
SO4 - S	mg/kg	4	272	4.95		168	27.1		1240	82.2	
Cl	%	23	0.270	0.056		0.130	0.011		1.83	0.114	
TKN	%	13	2.67	0.090		2.61	0.110		3.92	0.230	
N- Dry Comb.	%	56	2.79	0.075		2.68	0.070		4.64	0.075	
S- Dry Comb.	%	9	0.180	0.023		0.188	0.038		0.300	0.020	
Nitric / Perchloric											
P	%	30	0.130	0.009		0.161	0.009		0.359	0.019	
K	%	30	1.77	0.097		0.720	0.046		6.44	0.430	
Ca	%	30	3.29	0.211		0.520	0.036		1.92	0.120	
Mg	%	30	0.750	0.051		0.187	0.013		0.617	0.041	
S	%	29	0.190	0.027		0.150	0.010		0.290	0.020	
Na	%	25	0.034	0.005		0.020	0.002		0.023	0.003	
Al	mg/kg	16	55.1	7.58		39.5	5.44		188	29.9	
B	mg/kg	25	38.0	2.10		21.0	1.70		43.0	3.33	
Zn	mg/kg	30	28.0	2.54		28.7	2.50		14.1	1.20	
Mn	mg/kg	30	61.3	3.75		339	17.7		152	7.19	
Fe	mg/kg	30	95.4	14.7		68.1	7.63		261	25.4	
Cu	mg/kg	31	5.03	0.720		8.40	0.600		7.67	0.760	
Mo	mg/kg	7	0.083	0.055		0.311	0.070		0.307	0.187	

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 / Perchloric- MICROWAVE											
P	%	25	0.130	0.009		0.170	0.010		0.353	0.013	
K	%	25	1.77	0.080		0.720	0.060		6.35	0.360	
Ca	%	25	3.40	0.148		0.520	0.030		1.93	0.072	
Mg	%	25	0.720	0.020		0.180	0.010		0.580	0.010	
S	%	24	0.189	0.011		0.160	0.010		0.295	0.015	
Na	%	17	0.040	0.005		0.030	0.003		0.026	0.004	
Al	mg/kg	12	70.0	13.5		40.5	6.08		213	48.5	
B	mg/kg	23	40.0	3.00		22.6	1.40		46.0	2.50	
Zn	mg/kg	24	29.8	2.83		30.4	2.60		15.1	1.85	
Mn	mg/kg	25	61.3	3.93		343	15.8		148	8.50	
Fe	mg/kg	24	105	11.1		70.3	5.45		286	40.5	
Cu	mg/kg	24	5.05	1.17		8.70	0.750		7.94	0.860	
Mo	mg/kg	6	0.155	0.059		0.300	0.050		0.300	0.090	
Dry Ash											
P	%	18	0.130	0.003		0.170	0.009		0.350	0.015	
K	%	19	1.73	0.080		0.700	0.030		6.45	0.210	
Ca	%	19	3.35	0.150		0.500	0.010		1.93	0.110	
Mg	%	19	0.726	0.034		0.180	0.010		0.600	0.030	
Na	%	17	0.043	0.007		0.030	0.003		0.040	0.003	
Al	mg/kg	7	85.2	10.2		42.5	4.04		307	24.4	
B	mg/kg	21	40.0	1.20		22.0	1.00		45.5	3.13	
Zn	mg/kg	18	29.3	3.09		29.5	2.25		14.8	2.50	
Mn	mg/kg	18	59.4	4.00		321	31.0		152	7.50	
Fe	mg/kg	18	96.7	11.8		69.0	8.87		291	32.3	
Cu	mg/kg	19	5.73	0.730		9.00	0.860		8.00	1.00	
Mo	mg/kg	6	0.455	0.450		0.195	0.195		1.01	0.915	

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