



2016 North American Proficiency Testing Program
1st Quarter Report - April 11, 2016

Laboratory ID
general

Plant Analysis	Units	n	Plant 2016-201			Plant 2016-202			Plant 2016-203		
			Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}
Dry Matter (%)	%	24	95.2	0.425		94.9	0.580		91.6	0.610	
NO3 - N Cd Rd.	mg/kg	25	28.0	5.18		30.0	3.63		1680	131	
NO3 - N ISE	mg/kg	4	67.0	23.5		118	36.8		1960	272	
NO3 - N Other	mg/kg	1	1070	0.000		473	453		1570	77.5	
NH4-N	mg/kg	2	31.5	21.5		37.0	13.0		248	103	
PO4 - P	mg/kg	12	1070	122		520	113		1320	179	
SO4 - S	mg/kg	6	553	103		1350	246		4730	823	
Cl	%	22	0.250	0.030		0.240	0.057		1.73	0.130	
TKN	%	15	0.570	0.090		2.47	0.076		3.34	0.158	
N- Dry Comb.	%	60	0.630	0.046		2.57	0.050		3.52	0.075	
S- Dry Comb.	%	12	0.113	0.007		0.260	0.018		0.665	0.035	
Nitric / Perchloric											
P	%	33	0.155	0.005		0.130	0.010		0.267	0.017	
K	%	35	0.580	0.030		0.970	0.038		1.94	0.079	
Ca	%	34	0.310	0.020		4.45	0.160		2.77	0.145	
Mg	%	34	0.153	0.007		0.370	0.016		1.70	0.100	
S	%	33	0.100	0.008		0.277	0.027		0.676	0.046	
Na	%	23	0.007	0.001		0.019	0.003		0.291	0.021	
Al	mg/kg	19	28.5	4.70		88.1	16.9		156	19.4	
B	mg/kg	30	14.6	1.42		62.0	3.10		107	7.00	
Zn	mg/kg	34	13.6	1.04		103	4.30		36.8	2.49	
Mn	mg/kg	34	48.0	2.92		21.0	1.00		86.9	4.76	
Fe	mg/kg	34	45.2	5.90		130	10.6		265	21.5	
Cu	mg/kg	35	5.25	0.450		65.0	4.00		15.1	0.940	
Mo	mg/kg	12	0.869	0.095		0.120	0.030		0.631	0.090	

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 ^{1,2}	Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}
Nitric / Peroxide- MICROWAVE											
P	%	27	0.156	0.006		0.126	0.006		0.260	0.010	
K	%	27	0.580	0.022		0.950	0.037		1.93	0.064	
Ca	%	27	0.310	0.030		4.29	0.150		2.74	0.090	
Mg	%	27	0.147	0.007		0.366	0.017		1.62	0.055	
S	%	25	0.100	0.010		0.250	0.020		0.655	0.055	
Na	%	21	0.004	0.001		0.020	0.004		0.286	0.014	
Al	mg/kg	17	31.6	7.40		99.3	14.8		171	24.8	
B	mg/kg	27	14.6	1.40		60.7	3.27		107	4.00	
Zn	mg/kg	27	14.0	1.00		97.5	7.46		36.0	2.13	
Mn	mg/kg	27	47.1	2.67		20.0	1.00		87.9	2.94	
Fe	mg/kg	27	43.9	8.01		124	16.0		255	32.0	
Cu	mg/kg	27	5.76	0.750		63.0	3.00		15.0	1.07	
Mo	mg/kg	12	0.805	0.103		0.125	0.025		0.617	0.063	
Dry Ash											
P	%	16	0.163	0.010		0.130	0.010		0.276	0.024	
K	%	17	0.555	0.045		0.940	0.040		2.03	0.160	
Ca	%	17	0.290	0.040		4.45	0.340		2.88	0.290	
Mg	%	17	0.150	0.020		0.360	0.030		1.62	0.110	
Na	%	13	0.010	0.001		0.021	0.002		0.295	0.035	
Al	mg/kg	6	22.2	6.98		106	8.59		212	26.2	
B	mg/kg	18	12.4	1.81		63.0	5.41		104	10.3	
Zn	mg/kg	17	12.0	1.12		99.7	9.70		34.3	4.68	
Mn	mg/kg	17	39.9	5.00		19.8	2.20		91.2	6.60	
Fe	mg/kg	17	41.7	6.30		118	10.9		246	24.2	
Cu	mg/kg	17	3.19	0.315		62.2	4.80		14.9	1.70	
Mo	mg/kg	5	0.930	0.130		0.280	0.090		0.600	0.220	

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