



2017 North American Proficiency Testing Program  
1st Quarter Report - April 14, 2017

Laboratory ID  
general

Plant Analysis	Units	n	Plant 2017-201			Plant 2017-202			Plant 2017-203		
			Median	MAD	Lab <sup>1,2</sup>	Median	MAD	Lab <sup>1,2</sup>	Median	MAD	Lab <sup>1,2</sup>
Dry Matter (%)	%	24	92.7	0.654		93.6	0.450		95.4	0.410	
NO3 - N Cd Rd.	mg/kg	25	359	47.0		2150	170		19.3	4.83	
NO3 - N ISE	mg/kg	4	400	103		2810	533		71.5	28.0	
NO3 - N Other	mg/kg	1	393	33.0		2060	111		49.0	0.000	
NH4-N	mg/kg	2	136	26.0		280	40.0		27.5	7.50	
PO4 - P	mg/kg	12	663	74.0		4730	280		1232	102	
SO4 - S	mg/kg	6	618	134		1910	157		206	61.0	
Cl	%	22	0.228	0.043		0.310	0.035		0.108	0.027	
TKN	%	15	2.63	0.095		3.22	0.090		1.50	0.095	
N- Dry Comb.	%	60	2.69	0.050		3.40	0.060		1.59	0.040	
S- Dry Comb.	%	12	0.204	0.019		0.333	0.023		0.120	0.016	
<b>Nitric / Perchloric</b>											
P	%	33	0.150	0.010		0.615	0.018		0.220	0.010	
K	%	35	1.92	0.092		5.19	0.260		0.900	0.048	
Ca	%	34	3.34	0.170		1.72	0.105		0.445	0.020	
Mg	%	34	0.805	0.039		0.362	0.016		0.146	0.007	
S	%	33	0.220	0.020		0.330	0.017		0.110	0.010	
Na	%	23	0.044	0.004		0.030	0.001		0.005	0.001	
Al	mg/kg	19	209	21.5		476	23.3		341	13.8	
B	mg/kg	30	43.1	2.55		41.1	2.09		19.8	1.40	
Zn	mg/kg	34	79.3	3.36		75.2	3.49		20.5	1.30	
Mn	mg/kg	34	110	4.21		92.0	4.90		466	22.3	
Fe	mg/kg	34	277	27.8		885	100		76.2	7.60	
Cu	mg/kg	35	8.30	0.580		9.83	0.470		4.00	0.500	
Mo	mg/kg	12	0.198	0.045		3.06	0.400		0.100	0.018	

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	0.148	0.008		0.639	0.028		0.220	0.010	
K	%	27	1.87	0.085		5.22	0.383		0.860	0.060	
Ca	%	27	3.32	0.220		1.73	0.075		0.445	0.032	
Mg	%	27	0.808	0.040		0.370	0.012		0.143	0.008	
S	%	25	0.200	0.017		0.330	0.020		0.110	0.010	
Na	%	21	0.041	0.003		0.031	0.002		0.004	0.001	
Al	mg/kg	17	235	58.5		540	67.9		337	20.1	
B	mg/kg	27	43.0	2.33		41.0	2.03		19.0	1.73	
Zn	mg/kg	27	79.4	4.28		76.2	3.10		20.5	1.85	
Mn	mg/kg	27	113	7.17		95.6	4.50		469	26.0	
Fe	mg/kg	27	280	16.9		933	101		76.2	6.45	
Cu	mg/kg	27	8.36	0.687		10.0	0.720		4.03	0.650	
Mo	mg/kg	12	0.153	0.011		3.06	0.097		0.092	0.023	
<b>Dry Ash</b>											
P	%	16	0.140	0.010		0.620	0.030		0.220	0.010	
K	%	17	1.84	0.110		5.20	0.280		0.860	0.040	
Ca	%	17	3.26	0.150		1.68	0.120		0.420	0.030	
Mg	%	17	0.800	0.040		0.350	0.020		0.140	0.010	
Na	%	13	0.053	0.007		0.066	0.008		0.010	0.003	
Al	mg/kg	6	261	18.5		681	69.6		338	5.67	
B	mg/kg	18	42.9	2.00		40.8	2.55		19.8	0.910	
Zn	mg/kg	17	75.1	5.09		70.7	7.30		19.0	1.40	
Mn	mg/kg	17	101	8.70		84.0	6.30		409	102	
Fe	mg/kg	17	247	47.5		625	77.5		63.2	10.5	
Cu	mg/kg	17	8.00	1.00		9.46	1.56		3.39	0.560	
Mo	mg/kg	5	0.335	0.035		2.97	0.240		0.180	0.060	

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