



2016 North American Proficiency Testing Program
4th Quarter Report - January 13, 2017

Laboratory ID
general

Plant Analysis	Units	n	Plant 2016-210			Plant 2016-211			Plant 2016-212		
			Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}
Dry Matter (%)	%	24	91.6	0.540		92.0	0.550		93.5	0.490	
NO3 - N Cd Rd.	mg/kg	20	1720	130		494	46.5		14.9	1.69	
NO3 - N ISE	mg/kg	4	1857	194		739	37.0		155	7.50	
NO3 - N Other	mg/kg	4	1810	134		615	70.7		234	166	
NH4-N	mg/kg	1	308	0.000		777	0.000		341	0.000	
PO4 - P	mg/kg	8	1310	116		3050	310		1180	101	
SO4 - S	mg/kg	6	4660	60.4		1200	101		487	166	
Cl	%	18	1.74	0.118		0.210	0.050		0.816	0.025	
TKN	%	11	3.42	0.140		0.880	0.040		1.19	0.090	
N- Dry Comb.	%	59	3.53	0.058		0.908	0.028		1.23	0.040	
S- Dry Comb.	%	9	0.660	0.016		0.160	0.025		0.123	0.009	
Nitric / Perchloric											
P	%	29	0.259	0.011		0.386	0.016		0.310	0.010	
K	%	31	1.94	0.110		2.97	0.170		1.40	0.080	
Ca	%	31	2.79	0.130		1.81	0.097		0.226	0.024	
Mg	%	31	1.71	0.086		0.660	0.033		0.156	0.016	
S	%	27	0.660	0.042		0.155	0.005		0.110	0.010	
Na	%	26	0.288	0.025		0.034	0.004		0.180	0.010	
Al	mg/kg	16	156	15.6		83.2	15.0		75.1	8.42	
B	mg/kg	26	109	8.74		40.9	3.02		9.81	0.960	
Zn	mg/kg	31	36.0	2.00		64.1	4.90		19.1	1.10	
Mn	mg/kg	30	88.3	5.20		156	9.00		14.7	1.28	
Fe	mg/kg	30	267	20.3		105	13.6		70.0	7.22	
Cu	mg/kg	31	15.0	1.00		13.0	1.00		7.16	0.560	
Mo	mg/kg	10	0.615	0.150		0.180	0.021		1.60	0.150	

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	%	28	0.260	0.010		0.383	0.017		0.301	0.015	
K	%	29	1.93	0.052		2.96	0.075		1.39	0.039	
Ca	%	28	2.76	0.075		1.76	0.060		0.211	0.020	
Mg	%	29	1.65	0.047		0.640	0.020		0.150	0.010	
S	%	26	0.662	0.020		0.150	0.010		0.111	0.010	
Na	%	24	0.299	0.017		0.037	0.006		0.189	0.010	
Al	mg/kg	20	182	23.3		87.2	15.4		74.1	13.6	
B	mg/kg	28	108	7.80		43.9	3.33		9.74	1.26	
Zn	mg/kg	29	35.9	2.31		65.0	2.91		19.9	2.06	
Mn	mg/kg	29	87.0	4.22		157	7.27		14.5	1.00	
Fe	mg/kg	29	259	20.9		106	9.07		66.8	8.98	
Cu	mg/kg	29	14.1	1.28		12.9	0.900		7.00	0.700	
Mo	mg/kg	14	0.610	0.046		0.166	0.018		1.60	0.100	
Dry Ash											
P	%	15	0.260	0.010		0.380	0.018		0.300	0.017	
K	%	16	1.90	0.115		2.84	0.095		1.28	0.085	
Ca	%	16	2.69	0.160		1.75	0.080		0.200	0.025	
Mg	%	16	1.56	0.097		0.638	0.033		0.141	0.010	
Na	%	14	0.296	0.011		0.049	0.013		0.169	0.010	
Al	mg/kg	6	214	6.36		112	4.50		68.5	5.00	
B	mg/kg	16	102	3.48		43.0	2.93		6.91	1.09	
Zn	mg/kg	15	37.0	3.00		64.3	4.80		17.7	3.27	
Mn	mg/kg	15	83.2	7.40		147	8.68		12.9	0.920	
Fe	mg/kg	15	233	33.1		103	14.1		65.0	11.2	
Cu	mg/kg	15	14.7	2.53		14.0	1.00		3.32	0.523	
Mo	mg/kg	4	1.12	0.390		0.370	0.155		1.50	0.200	

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