



2016 North American Proficiency Testing Program  
3rd Quarter Report - October 11, 2016

Laboratory ID  
general

Plant Analysis	Units	n	Plant 2016-207			Plant 2016-208			Plant 2016-209		
			Median	MAD	Lab <sup>1,2</sup>	Median	MAD	Lab <sup>1,2</sup>	Median	MAD	Lab <sup>1,2</sup>
Dry Matter (%)	%	24	94.0	0.540		92.0	0.586		94.0	0.495	
NO3 - N Cd Rd.	mg/kg	22	15800	1800		1740	139		26.6	4.30	
NO3 - N ISE	mg/kg	4	13900	2800		1860	185		100	51.8	
NO3 - N Other	mg/kg	3	19300	2220		1750	110		530	480	
NH4-N	mg/kg	2	68.5	41.5		182	129		38.5	18.5	
PO4 - P	mg/kg	9	2650	123		1320	52.3		1320	102	
SO4 - S	mg/kg	6	1290	255		5640	760		535	120	
Cl	%	19	3.09	0.134		1.76	0.105		0.100	0.009	
TKN	%	13	2.93	0.240		3.43	0.140		1.76	0.060	
N- Dry Comb.	%	61	3.92	0.060		3.49	0.050		1.76	0.040	
S- Dry Comb.	%	10	0.256	0.020		0.675	0.048		0.170	0.005	
<b>Nitric / Perchloric</b>											
P	%	30	0.420	0.020		0.260	0.015		0.200	0.010	
K	%	33	9.63	0.350		2.00	0.070		1.03	0.030	
Ca	%	32	1.26	0.030		2.76	0.100		1.45	0.065	
Mg	%	32	0.650	0.030		1.65	0.072		0.250	0.020	
S	%	29	0.250	0.010		0.692	0.028		0.165	0.015	
Na	%	28	0.090	0.006		0.300	0.010		0.011	0.002	
Al	mg/kg	18	95.2	10.7		159	9.53		64.1	7.29	
B	mg/kg	27	31.2	1.65		109	5.37		33.9	2.20	
Zn	mg/kg	32	42.0	1.39		36.0	2.00		40.6	1.60	
Mn	mg/kg	32	69.1	2.63		88.6	2.61		38.0	1.95	
Fe	mg/kg	32	198	18.9		272	16.8		133	13.0	
Cu	mg/kg	32	9.51	0.590		15.0	0.830		47.1	2.20	
Mo	mg/kg	8	0.380	0.030		0.595	0.098		0.103	0.038	

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	%	30	0.410	0.017		0.253	0.012		0.201	0.009	
K	%	31	9.47	0.681		1.94	0.088		1.02	0.041	
Ca	%	31	1.25	0.055		2.77	0.090		1.40	0.068	
Mg	%	31	0.630	0.030		1.64	0.080		0.239	0.018	
S	%	28	0.240	0.014		0.646	0.035		0.150	0.010	
Na	%	22	0.091	0.007		0.289	0.011		0.011	0.000	
Al	mg/kg	18	98.0	15.3		154	22.0		72.0	15.3	
B	mg/kg	29	29.9	1.53		106	6.73		32.8	2.29	
Zn	mg/kg	31	41.9	2.38		35.4	2.50		38.8	2.79	
Mn	mg/kg	31	66.2	3.68		84.0	4.34		37.2	2.00	
Fe	mg/kg	30	187	21.7		246	19.1		125	13.5	
Cu	mg/kg	31	9.50	1.05		14.9	0.772		45.0	1.30	
Mo	mg/kg	14	0.401	0.049		0.617	0.058		0.105	0.007	
<b>Dry Ash</b>											
P	%	14	0.430	0.030		0.265	0.025		0.200	0.014	
K	%	15	9.27	0.699		1.93	0.188		1.01	0.090	
Ca	%	15	1.23	0.070		2.75	0.250		1.36	0.075	
Mg	%	15	0.631	0.039		1.61	0.185		0.250	0.015	
Na	%	13	0.115	0.015		0.300	0.030		0.017	0.002	
Al	mg/kg	5	141	9.44		219	9.50		85.3	7.43	
B	mg/kg	16	31.0	3.80		106	5.70		34.5	2.20	
Zn	mg/kg	15	40.0	4.00		33.4	4.59		39.5	3.50	
Mn	mg/kg	15	66.3	3.33		84.0	6.00		36.6	2.59	
Fe	mg/kg	15	182	29.4		244	33.2		126	8.37	
Cu	mg/kg	14	9.61	1.26		15.0	1.09		45.3	2.98	
Mo	mg/kg	5	0.200	0.130		0.600	0.310		0.040	0.030	

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