



2011 North American Proficiency Testing Program  
2nd Quarter Report - October 11, 2011

Laboratory ID  
general

Plant Analysis	Units	n	Plant 2011-204			Plant 2011-205			Plant 2011-206		
			Median	MAD	Lab <sup>1,2</sup>	Median	MAD	Lab <sup>1,2</sup>	Median	MAD	Lab <sup>1,2</sup>
Dry Matter (%)	%	28	95.5	0.645		92.4	0.795		94.4	0.750	
NO3 - N Cd Rd.	mg/kg	20	29.7	2.97		289	17.3		44.0	4.40	
NO3 - N ISE	mg/kg	2	106	10.6		391	39.1		120	8.50	
NO3 - N Other	mg/kg	5	78.0	7.80		368	36.8		81.0	8.10	
NH4-N	mg/kg	2	54.4	5.44		301	30.1		186	18.6	
PO4 - P	mg/kg	12	956	55.6		1970	84.5		1520	109	
SO4 - S	mg/kg	5	377	46.8		688	147		519	114	
Cl	%	22	0.150	0.015		0.610	0.062		0.242	0.025	
TKN	%	16	1.07	0.076		1.82	0.080		1.72	0.062	
N- Dry Comb.	%	55	1.11	0.038		1.90	0.048		1.78	0.047	
S- Dry Comb.	%	12	0.113	0.020		0.150	0.023		0.150	0.030	
<b>Nitric / Perchloric</b>											
P	%	30	0.170	0.010		0.290	0.012		0.231	0.012	
K	%	30	0.650	0.045		1.94	0.075		1.01	0.040	
Ca	%	30	1.05	0.050		6.37	0.321		0.590	0.038	
Mg	%	30	0.226	0.010		1.41	0.050		0.180	0.010	
S	%	30	0.110	0.010		0.170	0.027		0.155	0.010	
Na	%	24	0.010	0.001		0.010	0.003		0.010	0.001	
Al	mg/kg	16	80.3	8.49		619	64.0		450	51.7	
B	mg/kg	26	44.0	2.45		95.0	5.17		19.2	1.90	
Zn	mg/kg	30	33.5	1.55		25.8	1.81		34.1	1.89	
Mn	mg/kg	30	229	10.2		76.4	4.27		122	6.19	
Fe	mg/kg	30	292	20.8		711	67.9		591	40.4	
Cu	mg/kg	30	4.43	0.445		12.7	0.835		23.1	1.24	
Mo	mg/kg	6	0.062	0.062		1.56	0.170		2.10	0.145	
<b>Nitric / Perchloric- MICROWAVE</b>											

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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P	%	21	0.170	0.010		0.284	0.016		0.238	0.011	
K	%	21	0.642	0.019		1.95	0.096		1.02	0.040	
Ca	%	21	1.01	0.048		6.08	0.450		0.580	0.030	
Mg	%	21	0.220	0.010		1.37	0.095		0.170	0.010	
S	%	21	0.100	0.009		0.140	0.010		0.153	0.007	
Na	%	14	0.010	0.004		0.010	0.001		0.010	0.001	
Al	mg/kg	14	95.0	16.3		773	167		518	94.0	
B	mg/kg	21	45.2	3.15		99.3	8.49		19.5	1.50	
Zn	mg/kg	21	33.2	3.10		26.7	2.70		34.2	2.25	
Mn	mg/kg	21	226	8.20		76.1	3.70		122	3.03	
Fe	mg/kg	21	287	21.0		728	89.6		633	53.0	
Cu	mg/kg	21	4.81	0.810		13.3	1.29		23.5	1.50	
Mo	mg/kg	6	0.380	0.145		1.77	0.420		2.20	0.303	
<b>Dry Ash</b>											
P	%	23	0.160	0.010		0.285	0.025		0.230	0.020	
K	%	24	0.646	0.044		1.92	0.115		0.855	0.118	
Ca	%	24	1.04	0.083		6.16	0.474		0.550	0.030	
Mg	%	24	0.220	0.015		1.39	0.110		0.169	0.009	
Na	%	19	0.020	0.002		0.024	0.008		0.011	0.001	
Al	mg/kg	8	100	9.74		707	81.4		382	88.3	
B	mg/kg	24	43.0	2.81		92.6	6.30		17.1	1.96	
Zn	mg/kg	23	33.3	2.54		26.1	2.62		26.4	3.97	
Mn	mg/kg	23	215	15.0		73.0	7.00		103	9.00	
Fe	mg/kg	23	270	21.7		630	104		356	35.6	
Cu	mg/kg	23	5.00	1.00		12.0	2.00		9.10	2.70	
Mo	mg/kg	4	0.180	0.018		1.10	0.270		1.83	0.385	

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