



2011 North American Proficiency Testing Program  
4th Quarter Report - January 25, 2012

Laboratory ID  
general

Plant Analysis	Units	n	Plant 2011-210			Plant 2011-211			Plant 2011-212		
			Median	MAD	Lab <sup>1,2</sup>	Median	MAD	Lab <sup>1,2</sup>	Median	MAD	Lab <sup>1,2</sup>
Dry Matter (%)	%	24	95.1	0.645		94.8	0.450		94.1	0.400	
NO3 - N Cd Rd.	mg/kg	20	1300	61.5		31.2	3.12		24.8	2.48	
NO3 - N ISE	mg/kg	2	1440	214		125	6.17		104	1.42	
NO3 - N Other	mg/kg	4	1160	45.0		15	1.50		130	13.0	
NH4-N	mg/kg	2	177	17.7		131	13.1		101	20.8	
PO4 - P	mg/kg	10	3340	155		1620	104		1170	74.0	
SO4 - S	mg/kg	3	870	84.9		481	82.0		405	56.9	
Cl	%	20	0.295	0.050		0.249	0.019		0.840	0.030	
TKN	%	14	3.99	0.167		1.71	0.067		1.17	0.035	
N- Dry Comb.	%	53	4.17	0.070		1.78	0.040		1.25	0.043	
S- Dry Comb.	%	13	0.230	0.030		0.153	0.018		0.122	0.019	
<b>Nitric / Perchloric</b>											
P	%	27	0.590	0.034		0.237	0.007		0.310	0.019	
K	%	26	4.48	0.145		1.04	0.040		1.39	0.054	
Ca	%	26	0.960	0.042		0.570	0.030		0.204	0.015	
Mg	%	26	0.420	0.020		0.177	0.010		0.150	0.010	
S	%	25	0.230	0.013		0.150	0.009		0.110	0.010	
Na	%	22	0.019	0.002		0.005	0.001		0.173	0.013	
Al	mg/kg	15	116	21.9		452	41.1		76.2	5.76	
B	mg/kg	24	21.5	1.41		18.1	1.80		9.25	1.05	
Zn	mg/kg	26	27.7	1.25		33.1	1.68		18.3	1.00	
Mn	mg/kg	26	38.5	3.46		121	5.30		13.9	1.57	
Fe	mg/kg	26	155	16.0		571	55.5		70.5	8.78	
Cu	mg/kg	26	10.0	1.19		23.2	1.48		7.22	0.765	
Mo	mg/kg	9	12.2	1.09		1.98	0.300		1.48	0.190	
<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	%	19	0.585	0.027		0.240	0.010		0.301	0.013	
K	%	19	4.55	0.157		1.04	0.065		1.37	0.064	
Ca	%	19	0.960	0.048		0.585	0.040		0.213	0.020	
Mg	%	19	0.401	0.019		0.170	0.010		0.150	0.010	
S	%	19	0.230	0.006		0.159	0.009		0.115	0.005	
Na	%	16	0.020	0.002		0.010	0.001		0.170	0.018	
Al	mg/kg	12	153	18.7		506	87.0		85.6	8.40	
B	mg/kg	18	22.8	1.49		19.4	1.59		9.55	0.740	
Zn	mg/kg	19	30.0	2.23		34.8	1.57		20.0	1.42	
Mn	mg/kg	19	40.1	1.17		124	4.87		14.7	0.850	
Fe	mg/kg	19	167	11.5		606	50.5		73.5	10.0	
Cu	mg/kg	19	11.0	0.600		23.6	1.00		7.76	0.735	
Mo	mg/kg	8	10.9	0.720		2.06	0.250		1.64	0.168	
<b>Dry Ash</b>											
P	%	22	0.605	0.035		0.240	0.010		0.300	0.018	
K	%	23	4.54	0.160		0.890	0.090		1.32	0.050	
Ca	%	23	0.970	0.060		0.549	0.039		0.195	0.015	
Mg	%	23	0.410	0.020		0.160	0.010		0.140	0.010	
Na	%	17	0.030	0.003		0.010	0.003		0.172	0.019	
Al	mg/kg	7	148	7.91		418	55.2		68.0	12.3	
B	mg/kg	23	23.3	1.85		17.3	0.735		7.34	1.53	
Zn	mg/kg	22	29.8	4.05		28.2	5.15		18.0	2.03	
Mn	mg/kg	22	39.3	3.73		109	6.41		12.9	1.17	
Fe	mg/kg	22	187	33.2		458	45.8		62.9	13.4	
Cu	mg/kg	22	11.3	2.23		9.02	1.89		4.75	0.475	
Mo	mg/kg	6	10.2	1.02		1.66	0.295		1.51	0.151	

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