



2011 North American Proficiency Testing Program  
1st Quarter Report - May 9, 2011

Laboratory ID  
**general**

Plant Analysis	Units	n	Plant 2011-201			Plant 2011-202			Plant 2011-203		
			Median	MAD	Lab <sup>1,2</sup>	Median	MAD	Lab <sup>1,2</sup>	Median	MAD	Lab <sup>1,2</sup>
Dry Matter (%)	%	27	91.2	6.68		90.2	6.87		90.0	6.85	
NO3 - N Cd Rd.	mg/kg	25	50.0	24.6		618	141.6		216.9	73.1	
NO3 - N ISE	mg/kg	3	116.6	27.7		944	181.5		278.7	42.8	
NO3 - N Other	mg/kg	3	131	148		585	75		221	9.500	
NH4-N	mg/kg	2	182.3	82.3		113	3		92.6	61.591	
PO4 - P	mg/kg	11	1382	169		652	234		406	117	
SO4 - S	mg/kg	4	497	115		369	97		340	113	
Cl	%	23	0.250	0.048		0.259	0.035		0.310	0.069	
TKN	%	13	1.81	0.146		1.56	0.245		2.47	0.364	
N- Dry Comb.	%	51	1.79	0.059		1.50	0.085		2.78	0.121	
S- Dry Comb.	%	10	0.157	0.036		0.134	0.035		0.178	0.041	
<b>Nitric / Perchloric</b>											
P	%	27	0.302	0.135		0.280	0.129		0.156	0.057	
K	%	27	1.36	0.620		1.46	0.664		2.216	0.888	
Ca	%	27	0.72	0.309		0.34	0.165		4.297	1.926	
Mg	%	26	0.236	0.101		0.367	0.159		0.939	0.397	
S	%	26	0.200	0.082		0.166	0.069		0.235	0.094	
Na	%	19	16.424	29.363		12.339	23.367		25.387	48.320	
Al	mg/kg	13	389.2	101.3		31	8		59	18.5	
B	mg/kg	22	18.3	1.93		6.4	1.26		37.5	3.20	
Zn	mg/kg	26	34.6	1.97		23.2	3.28		28.1	2.36	
Mn	mg/kg	26	122.1	6.05		44.6	16.17		59	3.9	
Fe	mg/kg	26	549.9	67.0		220	238.4		93.4	10.8	
Cu	mg/kg	27	35.22	25.688		8.4	6.51		5.01	0.761	
Mo	mg/kg	6	2.203	0.158		0.72	0.745		0.253	0.327	
<b>Nitric / Perchloric- MICROWAVE</b>											
P	%	20	0.235	0.021		0.226	0.016		0.135	0.016	
K	%	20	1.10	0.140		1.15	0.098		1.699	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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Ca	%	20	0.71	0.243		0.28	0.042		3.037	0.596	
Mg	%	20	0.198	0.051		0.277	0.025		0.695	0.071	
S	%	20	0.155	0.013		0.132	0.010		0.171	0.017	
Na	%	16	0.019	0.014		0.013	0.010		0.045	0.013	
Al	mg/kg	13	501.9	124.9		38	12.4		82	25.4	
B	mg/kg	19	21.0	2.89		7.8	2.17		38.9	3.35	
Zn	mg/kg	20	36.2	4.54		23.7	2.49		29.8	4.83	
Mn	mg/kg	20	116.0	17.11		41.2	8.71		58	5.7	
Fe	mg/kg	20	546.4	116.83		111	49.2		94.6	11.1	
Cu	mg/kg	20	22.33	3.816		6.4	1.77		5.53	0.746	
Mo	mg/kg	9	1.831	0.425		0.44	0.257		0.157	0.182	
<b>Dry Ash</b>											
P	%	20	0.245	0.027		0.233	0.031		0.144	0.022	
K	%	21	0.90	0.114		1.25	0.203		1.847	0.195	
Ca	%	21	0.58	0.069		0.33	0.133		3.515	0.477	
Mg	%	21	0.177	0.030		0.302	0.045		0.786	0.112	
Na	%	16	0.015	0.008		0.024	0.024		0.051	0.015	
Al	mg/kg	6	419.7	81.80		57	30.1		107	28.2	
B	mg/kg	21	19.0	3.37		8.8	2.84		41.9	4.80	
Zn	mg/kg	20	29.1	7.52		25.1	4.31		33.1	6.86	
Mn	mg/kg	20	110.9	12.77		38.3	6.68		62	7.7	
Fe	mg/kg	20	433.0	151.02		132	71.1		90.7	16.1	
Cu	mg/kg	20	10.54	4.664		8.3	5.00		6.60	2.41	
Mo	mg/kg	6	2.01	0.482		0.46	0.227		1.73	2.228	

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