



2013 North American Proficiency Testing Program
3rd Quarter Report - October 9, 2013

Laboratory ID
general

Plant Analysis	Units	n	Plant 2013-207			Plant 2013-208			Plant 2013-209		
			Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}
Dry Matter (%)	%	26	93.7	0.915		93.6	1.07		92.2	0.965	
NO3 - N Cd Rd.	mg/kg	21	22.0	4.14		61.6	9.15		574	53.0	
NO3 - N ISE	mg/kg	5	60.0	14.0		305	103		828	48.0	
NO3 - N Other	mg/kg	2	605	535		71.0	15.0		703	115	
NH4-N	mg/kg	1	40.0	0.000		140	0.000		520	0.000	
PO4 - P	mg/kg	10	611	38.0		1300	125		2920	76.5	
SO4 - S	mg/kg	4	153	65.1		1970	248		1110	131	
Cl	%	22	0.115	0.008		0.755	0.043		0.295	0.030	
TKN	%	12	2.60	0.035		3.58	0.035		0.909	0.064	
N- Dry Comb.	%	59	2.67	0.064		3.70	0.090		0.920	0.030	
S- Dry Comb.	%	12	0.154	0.013		0.299	0.041		0.150	0.020	
Nitric / Perchloric											
P	%	32	0.166	0.009		0.260	0.010		0.359	0.017	
K	%	33	0.732	0.048		2.59	0.110		2.71	0.096	
Ca	%	32	0.516	0.036		1.96	0.090		1.73	0.115	
Mg	%	32	0.182	0.012		0.257	0.017		0.669	0.042	
S	%	30	0.154	0.011		0.330	0.014		0.150	0.010	
Na	%	25	0.024	0.005		0.029	0.006		0.070	0.008	
Al	mg/kg	16	38.7	4.90		56.9	12.4		68.5	14.6	
B	mg/kg	27	20.6	1.99		45.1	4.40		41.3	3.63	
Zn	mg/kg	32	28.8	2.55		32.4	2.10		68.4	4.85	
Mn	mg/kg	32	331	17.7		30.0	1.75		142	5.25	
Fe	mg/kg	32	65.2	7.41		96.2	9.88		81.4	13.0	
Cu	mg/kg	32	8.45	0.550		6.05	0.455		15.3	0.663	
Mo	mg/kg	10	0.287	0.026		3.24	0.160		0.230	0.037	

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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Nitric / Perchloric- MICROWAVE											
P	%	24	0.167	0.007		0.259	0.009		0.359	0.014	
K	%	24	0.708	0.041		2.53	0.103		2.70	0.110	
Ca	%	24	0.500	0.028		1.92	0.095		1.71	0.095	
Mg	%	24	0.180	0.010		0.250	0.010		0.652	0.029	
S	%	22	0.154	0.007		0.331	0.018		0.149	0.011	
Na	%	16	0.027	0.004		0.030	0.003		0.073	0.005	
Al	mg/kg	13	43.0	8.28		74.3	17.0		82.0	16.0	
B	mg/kg	24	22.2	2.60		47.4	4.25		42.0	3.70	
Zn	mg/kg	24	29.7	2.05		33.8	2.28		68.5	6.11	
Mn	mg/kg	24	321	18.3		28.9	2.41		137	6.50	
Fe	mg/kg	24	72.5	6.53		104	8.40		91.0	8.24	
Cu	mg/kg	24	9.05	0.613		6.90	0.643		15.2	0.590	
Mo	mg/kg	9	0.353	0.028		2.80	0.383		0.295	0.048	
Dry Ash											
P	%	16	0.170	0.010		0.265	0.015		0.360	0.020	
K	%	18	0.715	0.032		2.57	0.108		2.68	0.091	
Ca	%	18	0.490	0.010		1.89	0.085		1.70	0.082	
Mg	%	18	0.180	0.010		0.250	0.011		0.640	0.030	
Na	%	16	0.030	0.005		0.036	0.006		0.080	0.010	
Al	mg/kg	5	41.5	4.59		77.3	9.16		99.6	9.28	
B	mg/kg	19	22.0	1.30		47.4	2.65		45.5	2.86	
Zn	mg/kg	16	29.4	1.59		33.1	2.90		71.7	5.00	
Mn	mg/kg	17	328	14.7		30.9	2.95		142	8.50	
Fe	mg/kg	16	66.7	6.18		95.9	9.55		93.3	9.70	
Cu	mg/kg	18	8.46	0.545		6.71	0.650		15.4	1.51	
Mo	mg/kg	3	0.980	0.522		3.08	0.050		0.333	0.063	

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