



2013 North American Proficiency Testing Program
4th Quarter Report - January 14, 2014

Laboratory ID
general

Plant Analysis	Units	n	Plant 2013-210			Plant 2013-211			Plant 2013-212		
			Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}
Dry Matter (%)	%	25	95.2	0.490		94.0	0.320		94.5	0.230	
NO3 - N Cd Rd.	mg/kg	24	21.4	4.10		20.5	4.11		18800	2300	
NO3 - N ISE	mg/kg	4	151	28.0		74.5	30.8		20400	1250	
NO3 - N Other	mg/kg	3	713	247		1030	126		15800	5470	
NH4-N	mg/kg	1	5.00	0.000		31.0	0.000		210	0.000	
PO4 - P	mg/kg	9	2100	353		596	50.0		1530	173	
SO4 - S	mg/kg	6	1080	179		198	80.0		1276	127	
Cl	%	19	0.860	0.040		0.133	0.011		2.36	0.100	
TKN	%	11	1.31	0.022		2.62	0.080		2.66	0.180	
N- Dry Comb.	%	56	1.35	0.033		2.67	0.070		4.08	0.078	
S- Dry Comb.	%	11	0.190	0.027		0.170	0.020		0.210	0.030	
Nitric / Perchloric											
P	%	30	0.290	0.017		0.168	0.008		0.254	0.012	
K	%	32	0.759	0.040		0.707	0.023		9.94	0.560	
Ca	%	31	1.22	0.050		0.510	0.030		1.15	0.050	
Mg	%	31	0.430	0.025		0.189	0.013		0.554	0.034	
S	%	31	0.190	0.010		0.154	0.013		0.230	0.016	
Na	%	26	0.040	0.005		0.023	0.004		0.019	0.004	
Al	mg/kg	15	136	29.1		41.0	7.20		70.8	12.6	
B	mg/kg	28	67.2	5.40		21.8	1.78		27.5	2.03	
Zn	mg/kg	31	21.3	1.00		29.3	1.90		79.1	4.61	
Mn	mg/kg	30	38.9	1.69		340	10.2		240	9.50	
Fe	mg/kg	31	200	26.8		67.3	6.40		151	22.0	
Cu	mg/kg	31	5.99	0.840		8.48	0.550		7.00	0.710	
Mo	mg/kg	10	1.66	0.240		0.300	0.040		0.263	0.036	

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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			Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}
Nitric / Peroxide- MICROWAVE											
P	%	26	0.295	0.015		0.170	0.010		0.250	0.016	
K	%	26	0.770	0.060		0.710	0.046		9.55	0.780	
Ca	%	26	1.26	0.080		0.520	0.038		1.16	0.075	
Mg	%	26	0.430	0.030		0.180	0.010		0.530	0.020	
S	%	24	0.190	0.010		0.160	0.010		0.226	0.014	
Na	%	18	0.042	0.008		0.024	0.004		0.020	0.004	
Al	mg/kg	16	136	14.0		44.5	5.29		98.8	17.5	
B	mg/kg	25	68.5	4.54		21.6	2.40		28.0	2.39	
Zn	mg/kg	26	21.9	1.11		30.3	1.85		78.4	4.75	
Mn	mg/kg	26	39.0	1.39		335	14.5		231	9.95	
Fe	mg/kg	26	202	19.4		69.1	4.36		184	23.0	
Cu	mg/kg	26	5.97	0.970		8.51	0.615		7.15	0.912	
Mo	mg/kg	11	1.60	0.100		0.337	0.063		0.240	0.039	
Dry Ash											
P	%	18	0.290	0.015		0.170	0.010		0.252	0.012	
K	%	19	0.773	0.033		0.710	0.030		9.76	0.720	
Ca	%	19	1.22	0.050		0.490	0.010		1.15	0.070	
Mg	%	19	0.422	0.018		0.180	0.009		0.524	0.026	
Na	%	15	0.044	0.004		0.030	0.002		0.060	0.013	
Al	mg/kg	6	188	11.5		43.5	8.00		140	16.4	
B	mg/kg	20	68.6	2.85		22.0	1.00		27.6	1.54	
Zn	mg/kg	18	21.9	1.30		30.2	1.80		79.7	7.75	
Mn	mg/kg	18	37.5	2.60		320	28.7		233	15.4	
Fe	mg/kg	18	176	24.0		68.0	5.35		175	23.9	
Cu	mg/kg	18	6.00	0.450		9.00	0.475		7.75	1.30	
Mo	mg/kg	5	1.60	0.240		0.250	0.100		0.250	0.100	

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