



2013 North American Proficiency Testing Program
2nd Quarter Report - July 9, 2013

Laboratory ID
general

Plant Analysis	Units	n	Plant 2013-204			Plant 2013-205			Plant 2013-206		
			Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}
Dry Matter (%)	%	25	94.2	0.420		93.5	0.440		94.0	0.445	
NO3 - N Cd Rd.	mg/kg	21	1320	72.0		302	23.5		18.6	4.41	
NO3 - N ISE	mg/kg	4	1430	47.9		583	155		43.5	3.00	
NO3 - N Other	mg/kg	3	2210	924		828	372		800	80.0	
NH4-N	mg/kg										
PO4 - P	mg/kg	7	1780	141		1310	81.0		608	53.6	
SO4 - S	mg/kg	5	5340	339		1500	197		186	45.2	
Cl	%	17	1.15	0.070		0.715	0.045		0.134	0.011	
TKN	%	10	4.95	0.190		2.97	0.067		2.62	0.061	
N- Dry Comb.	%	55	5.23	0.080		3.15	0.064		2.67	0.045	
S- Dry Comb.	%	11	0.810	0.093		0.290	0.020		0.166	0.016	
Nitric / Perchloric											
P	%	28	0.430	0.020		0.270	0.010		0.170	0.009	
K	%	29	2.80	0.120		2.17	0.110		0.720	0.031	
Ca	%	29	3.59	0.140		1.51	0.060		0.530	0.040	
Mg	%	29	0.690	0.032		0.390	0.020		0.192	0.014	
S	%	26	0.808	0.063		0.270	0.015		0.158	0.008	
Na	%	23	0.171	0.009		0.126	0.009		0.020	0.001	
Al	mg/kg	13	240	50.5		145	31.2		39.0	7.00	
B	mg/kg	25	53.0	3.30		39.8	3.51		21.7	1.86	
Zn	mg/kg	28	30.2	1.40		22.6	1.40		29.8	1.60	
Mn	mg/kg	28	86.7	4.62		43.9	3.18		345	15.2	
Fe	mg/kg	28	309	62.7		193	26.6		68.8	7.25	
Cu	mg/kg	28	10.6	0.600		11.0	0.395		8.47	0.670	
Mo	mg/kg	8	1.11	0.170		2.14	0.305		0.313	0.060	

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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Plant Analysis	Units	n	Plant 2013-204			Plant 2013-205			Plant 2013-206		
			Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}
Nitric / Perchloric- MICROWAVE											
P	%	23	0.410	0.037		0.253	0.017		0.160	0.010	
K	%	23	2.73	0.140		2.14	0.110		0.700	0.040	
Ca	%	23	3.50	0.180		1.48	0.071		0.510	0.030	
Mg	%	23	0.670	0.030		0.380	0.020		0.180	0.004	
S	%	22	0.791	0.040		0.270	0.013		0.150	0.010	
Na	%	14	0.175	0.021		0.125	0.009		0.028	0.006	
Al	mg/kg	13	261	47.4		188	41.0		38.0	3.80	
B	mg/kg	23	54.0	4.20		42.7	3.71		21.0	1.95	
Zn	mg/kg	23	31.0	2.60		24.0	1.00		30.0	1.99	
Mn	mg/kg	23	84.0	5.40		43.3	2.41		324	20.0	
Fe	mg/kg	22	314	41.0		187	13.0		67.2	5.12	
Cu	mg/kg	23	11.5	1.18		12.0	0.850		9.00	1.00	
Mo	mg/kg	10	1.02	0.160		1.87	0.230		0.300	0.022	
Dry Ash											
P	%	14	0.401	0.020		0.251	0.017		0.160	0.010	
K	%	15	2.79	0.092		2.15	0.060		0.703	0.024	
Ca	%	15	3.47	0.185		1.45	0.060		0.490	0.020	
Mg	%	15	0.670	0.040		0.382	0.018		0.180	0.010	
Na	%	13	0.180	0.020		0.146	0.016		0.030	0.005	
Al	mg/kg	5	302	26.9		224	19.5		39.0	6.87	
B	mg/kg	17	52.5	2.30		41.0	1.10		21.7	1.14	
Zn	mg/kg	14	29.6	1.56		21.0	1.04		28.5	1.00	
Mn	mg/kg	14	81.7	6.27		42.4	4.15		327	27.7	
Fe	mg/kg	14	295	52.7		197	23.4		65.4	6.00	
Cu	mg/kg	15	10.3	1.05		10.6	0.600		8.58	0.880	
Mo	mg/kg	4	1.24	0.020		1.93	0.165		0.329	0.114	

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