



2009 North American Proficiency Testing Program
2nd Quarter Report - August 20, 2009

Laboratory ID

Plant Analysis	Units	n	Plant 2009-204			Plant 2009-205			Plant 2009-206		
			Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}
Dry Matter (%)	%	26	94.2	0.84		94.5	0.72		92.2	0.80	
NO3 - N Cd Rd.	mg/kg	21	20.0	12.6		414	36.3		296	21.0	
NO3 - N ISE	mg/kg	5	110	89.3		447	29.0		347	54.0	
NO3 - N Other	mg/kg	2	180	180		733	315		590	271	
NH4-N	mg/kg	5	318	198		67.1	37.1		333	131	
PO4 - P	mg/kg	10	1117	72.5		1620	88.5		1930	70.0	
SO4 - S	mg/kg	5	900	130		405	24.5		535	154	
Cl	%	18	0.940	0.037		0.665	0.032		0.601	0.041	
TKN	%	15	2.69	0.130		1.35	0.040		1.82	0.061	
N- Dry Comb.	%	50	2.78	0.111		1.43	0.057		1.89	0.050	
S- Dry Comb.	%	11	0.221	0.019		0.150	0.032		0.160	0.013	
Nitric / Perchloric											
P	%	25	0.224	0.014		0.260	0.010		0.282	0.018	
K	%	25	2.84	0.239		1.85	0.100		2.00	0.120	
Ca	%	25	1.10	0.080		0.340	0.020		6.24	0.310	
Mg	%	25	0.340	0.020		0.150	0.010		1.41	0.073	
S	%	26	0.230	0.019		0.132	0.008		0.158	0.018	
Na	%	20	0.020	0.003		0.087	0.007		0.010	0.006	
Al	mg/kg	13	46.0	9.03		105	6.2		574	107	
B	mg/kg	22	30.0	1.82		4.46	1.08		95.0	5.17	
Zn	mg/kg	24	27.0	2.17		14.9	1.08		25.8	2.25	
Mn	mg/kg	24	73.8	4.25		54.8	2.58		78.0	4.00	
Fe	mg/kg	24	89.6	8.30		95.3	8.66		668	67.3	
Cu	mg/kg	23	10.4	0.66		6.00	0.550		12.5	1.54	
Mo	mg/kg	6	3.48	0.100		0.892	0.042		1.43	0.280	

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 2009-204			Plant 2009-205			Plant 2009-206		
			Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}
Nitric / Perchloric- MICROWAVE											
P	%	21	0.230	0.010		0.260	0.010		0.290	0.020	
K	%	21	2.93	0.170		1.93	0.085		1.89	0.131	
Ca	%	21	1.11	0.060		0.360	0.020		6.37	0.330	
Mg	%	21	0.330	0.012		0.150	0.010		1.39	0.103	
S	%	21	0.230	0.013		0.137	0.007		0.150	0.010	
Na	%	19	0.024	0.006		0.090	0.005		0.010	0.005	
Al	mg/kg	14	56.6	17.9		109	17.3		690	203	
B	mg/kg	18	33.0	2.00		5.00	1.00		99.5	5.25	
Zn	mg/kg	21	27.2	1.37		15.0	1.43		26.6	1.70	
Mn	mg/kg	21	72.4	3.42		54.1	2.16		78.0	4.00	
Fe	mg/kg	21	97.4	8.32		100	9.2		755	91.2	
Cu	mg/kg	21	10.8	0.99		5.90	0.900		13.0	1.07	
Mo	mg/kg	8	3.44	0.23		0.950	0.085		1.24	0.235	
Dry Ash											
P	%	24	0.220	0.010		0.260	0.012		0.280	0.017	
K	%	25	2.86	0.145		1.84	0.090		1.89	0.100	
Ca	%	26	1.09	0.043		0.331	0.019		6.03	0.425	
Mg	%	26	0.324	0.014		0.140	0.010		1.35	0.075	
Na	%	18	0.029	0.010		0.090	0.011		0.020	0.010	
Al	mg/kg	11	53.8	10.5		79.5	12.2		637	117	
B	mg/kg	26	32.4	2.01		4.10	0.90		92.2	6.73	
Zn	mg/kg	25	25.8	1.15		13.0	1.37		23.7	1.34	
Mn	mg/kg	25	70.6	2.86		50.1	3.10		74.0	4.11	
Fe	mg/kg	23	94.0	15.0		79.3	17.9		635	159	
Cu	mg/kg	25	10.1	1.06		4.86	1.65		12.2	2.06	
Mo	mg/kg	6	3.23	0.567		1.02	0.325		1.37	0.612	

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2 - Limits not compared to lab data for methods with < 7 labs reporting.