



2009 North American Proficiency Testing Program
4th Quarter Report - November 22, 2009

Laboratory ID

Plant Analysis	Units	n	Plant 2009-210			Plant 2009-211			Plant 2009-212		
			Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}
Dry Matter (%)	%	27	95.6	0.5		94.9	0.60		93.8	0.55	
NO3 - N Cd Rd.	mg/kg	23	3757	198		405	38.3		27.0	16.4	
NO3 - N ISE	mg/kg	5	5055	1315		481	52.0		185	109	
NO3 - N Other	mg/kg	3	4304	304		1224	874		1064	296	
NH4-N	mg/kg	3	256	60.0		37.2	11.2		52.5	12.5	
PO4 - P	mg/kg	10	1396	70.0		1582	95.8		485	26.3	
SO4 - S	mg/kg	3	2086	794		480	58.4		2811	1049	
Cl	%	17	3.05	0.122		0.654	0.026		0.170	0.066	
TKN	%	20	3.24	0.130		1.38	0.080		1.96	0.078	
N- Dry Comb.	%	45	3.59	0.143		1.42	0.083		1.98	0.056	
S- Dry Comb.	%	12	0.300	0.047		0.135	0.025		0.330	0.056	
Nitric / Perchloric											
P	%	27	0.260	0.011		0.253	0.010		0.159	0.011	
K	%	28	4.02	0.227		1.90	0.097		1.55	0.084	
Ca	%	28	1.30	0.070		0.354	0.024		3.52	0.199	
Mg	%	28	1.11	0.058		0.155	0.030		0.805	0.035	
S	%	28	0.320	0.020		0.136	0.006		0.348	0.022	
Na	%	25	4.32	0.304		0.097	0.017		0.019	0.006	
Al	mg/kg	14	470	210		103	11.9		41.3	11.0	
B	mg/kg	22	51.1	6.46		4.67	1.15		75.6	6.76	
Zn	mg/kg	27	30.9	2.00		15.0	1.44		74.2	5.17	
Mn	mg/kg	27	129	9.89		54.6	2.18		106	6.6	
Fe	mg/kg	27	537	170		103	12.6		49.2	5.35	
Cu	mg/kg	27	8.00	1.26		6.00	0.750		6.23	1.09	
Mo	mg/kg	6	0.484	0.030		0.852	0.213		0.239	0.239	

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 2009-210			Plant 2009-211			Plant 2009-212		
			Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}
Nitric / Perchloric- MICROWAVE											
P	%	19	0.260	0.010		0.260	0.010		0.160	0.006	
K	%	19	4.01	0.180		1.88	0.075		1.50	0.060	
Ca	%	19	1.30	0.050		0.360	0.020		3.56	0.230	
Mg	%	19	1.09	0.076		0.150	0.007		0.787	0.037	
S	%	19	0.320	0.016		0.137	0.006		0.345	0.014	
Na	%	16	4.25	0.330		0.099	0.009		0.017	0.004	
Al	mg/kg	13	721	152		108	10.5		41.7	11.7	
B	mg/kg	18	53.0	2.12		5.00	0.770		79.0	3.23	
Zn	mg/kg	19	31.0	1.24		14.5	0.77		75.0	2.90	
Mn	mg/kg	19	128	5.12		54.6	2.27		106	4.20	
Fe	mg/kg	19	673	67.0		103	6.6		50.0	4.00	
Cu	mg/kg	19	9.00	1.00		6.20	0.595		6.21	0.789	
Mo	mg/kg	6	0.460	0.165		0.980	0.086		0.196	0.191	
Dry Ash											
P	%	23	0.260	0.010		0.260	0.010		0.155	0.005	
K	%	24	3.98	0.216		1.88	0.096		1.50	0.060	
Ca	%	24	1.30	0.065		0.341	0.024		3.60	0.225	
Mg	%	24	1.09	0.043		0.140	0.010		0.805	0.035	
Na	%	17	4.26	0.380		0.100	0.020		0.030	0.016	
Al	mg/kg	10	1001	116		73.9	16.3		32.8	4.53	
B	mg/kg	25	55.0	3.10		4.29	0.666		76.7	5.65	
Zn	mg/kg	23	31.0	2.00		13.6	1.60		70.0	4.00	
Mn	mg/kg	24	128	5.40		49.3	1.98		98.9	5.39	
Fe	mg/kg	21	628	100		83.7	20.2		45.0	7.00	
Cu	mg/kg	22	8.50	1.49		4.99	1.04		6.06	1.17	
Mo	mg/kg	2	2.33	0.680		0.970	0.630		1.40	0.125	

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