



2015 North American Proficiency Testing Program
2nd Quarter Report - July 13, 2015

Laboratory ID
general

Plant Analysis	Units	n	Plant 2015-204			Plant 2015-205			Plant 2015-206		
			Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}
Dry Matter (%)	%	26	92.7	0.510		94.9	0.560		93.8	0.650	
NO3 - N Cd Rd.	mg/kg	23	253	57.0		11.8	2.46		302	27.0	
NO3 - N ISE	mg/kg	4	384	12.0		103	29.8		313	75.0	
NO3 - N Other	mg/kg	6	371	90.6		480	160		541	303	
NH4-N	mg/kg	4	449	6.50		67.0	33.0		618	274	
PO4 - P	mg/kg	10	471	46.0		464	89.1		1350	80.0	
SO4 - S	mg/kg	5	414	87.0		368	117		1350	56.0	
Cl	%	25	0.294	0.060		0.270	0.060		0.747	0.047	
TKN	%	13	2.64	0.110		0.679	0.059		2.79	0.120	
N- Dry Comb.	%	64	2.75	0.060		0.786	0.055		2.99	0.045	
S- Dry Comb.	%	11	0.200	0.020		0.090	0.009		0.270	0.020	
Nitric / Perchloric											
P	%	34	0.130	0.009		0.100	0.006		0.256	0.014	
K	%	36	2.16	0.122		0.666	0.030		2.29	0.113	
Ca	%	35	3.15	0.164		0.730	0.040		1.44	0.084	
Mg	%	35	0.690	0.046		0.260	0.010		0.380	0.020	
S	%	30	0.208	0.012		0.090	0.005		0.275	0.015	
Na	%	28	0.029	0.004		0.004	0.001		0.110	0.006	
Al	mg/kg	17	153	18.5		91.1	14.3		203	38.6	
B	mg/kg	30	43.3	2.68		33.0	2.95		40.4	2.35	
Zn	mg/kg	35	24.1	1.60		19.4	1.36		22.0	1.57	
Mn	mg/kg	35	69.8	3.34		113	7.10		47.6	2.60	
Fe	mg/kg	35	187	16.9		118	11.1		221	22.0	
Cu	mg/kg	35	6.49	0.790		6.00	0.805		11.4	0.600	
Mo	mg/kg	8	0.143	0.071		2.16	0.116		1.85	0.048	

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 2015-204			Plant 2015-205			Plant 2015-206		
			Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}
Nitric / Peroxide- MICROWAVE											
P	%	26	0.131	0.010		0.100	0.008		0.253	0.010	
K	%	26	2.10	0.073		0.660	0.030		2.21	0.062	
Ca	%	26	3.22	0.105		0.725	0.030		1.42	0.050	
Mg	%	26	0.675	0.035		0.250	0.010		0.380	0.014	
S	%	24	0.196	0.014		0.085	0.005		0.274	0.014	
Na	%	17	0.030	0.004		0.005	0.001		0.111	0.009	
Al	mg/kg	15	190	29.3		107	23.4		238	48.7	
B	mg/kg	25	43.4	3.60		34.0	2.00		39.5	3.00	
Zn	mg/kg	26	24.5	2.15		19.0	1.95		22.7	2.45	
Mn	mg/kg	26	69.0	3.19		111	5.72		47.2	2.53	
Fe	mg/kg	26	188	12.0		114	6.56		228	23.6	
Cu	mg/kg	26	6.38	0.600		5.55	0.550		11.5	0.604	
Mo	mg/kg	10	0.066	0.035		2.10	0.190		1.91	0.192	
Dry Ash											
P	%	18	0.130	0.010		0.100	0.010		0.260	0.010	
K	%	18	2.14	0.200		0.590	0.070		2.30	0.135	
Ca	%	19	3.30	0.180		0.680	0.040		1.45	0.050	
Mg	%	19	0.720	0.040		0.240	0.020		0.384	0.026	
Na	%	14	0.040	0.007		0.007	0.001		0.120	0.010	
Al	mg/kg	5	182	26.0		106	9.67		298	14.6	
B	mg/kg	20	44.4	4.11		31.0	2.08		42.3	2.10	
Zn	mg/kg	19	24.5	2.50		16.1	2.80		21.0	1.60	
Mn	mg/kg	19	65.5	3.50		90.5	5.00		46.0	1.66	
Fe	mg/kg	19	189	17.3		99.0	23.0		230	18.0	
Cu	mg/kg	19	7.19	1.31		3.90	0.850		11.7	0.760	
Mo	mg/kg	2	0.515	0.035		1.98	0.200		1.56	0.290	

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