



2016 North American Proficiency Testing Program
2nd Quarter Report - July 11, 2016

Laboratory ID
general

Plant Analysis	Units	n	Plant 2016-204			Plant 2016-205			Plant 2016-206		
			Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}
Dry Matter (%)	%	24	94.3	0.635		91.6	0.760		94.7	0.600	
NO3 - N Cd Rd.	mg/kg	22	393	24.3		1720	84.0		2670	94.0	
NO3 - N ISE	mg/kg	4	552	47.0		2040	66.0		3220	129	
NO3 - N Other	mg/kg	3	382	25.0		1780	43.0		2990	320	
NH4-N	mg/kg	2	57.8	22.2		159	74.0		50.3	10.7	
PO4 - P	mg/kg	9	1560	85.0		1300	160		1220	53.3	
SO4 - S	mg/kg	6	639	42.5		4660	1230		1240	188	
Cl	%	19	0.660	0.040		1.76	0.057		0.430	0.030	
TKN	%	13	1.35	0.063		3.34	0.106		2.11	0.100	
N- Dry Comb.	%	61	1.40	0.030		3.49	0.050		2.30	0.050	
S- Dry Comb.	%	10	0.140	0.020		0.640	0.024		0.204	0.017	
Nitric / Perchloric											
P	%	30	0.260	0.010		0.260	0.010		0.212	0.009	
K	%	33	1.90	0.090		1.96	0.070		2.83	0.130	
Ca	%	32	0.350	0.020		2.73	0.076		0.650	0.030	
Mg	%	32	0.150	0.010		1.65	0.050		0.300	0.010	
S	%	29	0.130	0.010		0.665	0.032		0.195	0.010	
Na	%	28	0.090	0.004		0.291	0.014		0.040	0.003	
Al	mg/kg	18	95.6	11.1		144	27.2		105	14.8	
B	mg/kg	27	4.33	0.950		106	8.38		17.0	1.90	
Zn	mg/kg	32	14.0	1.00		35.2	1.95		27.0	1.00	
Mn	mg/kg	32	53.0	2.64		87.9	2.79		36.3	1.90	
Fe	mg/kg	32	96.2	7.94		253	25.5		240	28.0	
Cu	mg/kg	32	5.95	0.605		15.2	0.815		6.53	0.470	
Mo	mg/kg	8	0.910	0.110		0.605	0.098		0.605	0.062	

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 2016-204			Plant 2016-205			Plant 2016-206		
			Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}
Nitric / Peroxide- MICROWAVE											
P	%	30	0.263	0.010		0.259	0.010		0.217	0.010	
K	%	31	1.90	0.100		1.910	0.070		2.85	0.130	
Ca	%	31	0.351	0.030		2.73	0.081		0.660	0.040	
Mg	%	31	0.149	0.009		1.65	0.070		0.290	0.021	
S	%	28	0.134	0.007		0.650	0.040		0.200	0.010	
Na	%	22	0.091	0.010		0.292	0.010		0.040	0.007	
Al	mg/kg	18	106	10.8		189	25.6		141	19.1	
B	mg/kg	29	4.90	1.00		109	4.36		17.5	1.05	
Zn	mg/kg	31	14.2	1.50		35.6	1.59		27.1	1.90	
Mn	mg/kg	31	53.5	2.50		87.0	2.68		36.8	1.90	
Fe	mg/kg	30	98.1	8.49		260	17.4		256	33.4	
Cu	mg/kg	31	6.00	0.450		14.9	0.900		6.80	0.800	
Mo	mg/kg	14	0.929	0.069		0.617	0.107		0.661	0.061	
Dry Ash											
P	%	14	0.260	0.010		0.270	0.010		0.220	0.010	
K	%	15	1.86	0.040		1.99	0.131		2.93	0.100	
Ca	%	15	0.340	0.010		2.80	0.110		0.650	0.031	
Mg	%	15	0.140	0.005		1.59	0.100		0.300	0.010	
Na	%	13	0.100	0.003		0.294	0.014		0.050	0.008	
Al	mg/kg	5	93.8	5.80		222	15.5		151	17.7	
B	mg/kg	16	4.00	0.575		101	4.73		16.4	1.72	
Zn	mg/kg	15	13.4	2.30		35.1	2.70		27.5	1.89	
Mn	mg/kg	15	48.5	2.97		86.1	6.90		36.0	5.00	
Fe	mg/kg	15	79.7	8.90		241	32.8		235	27.1	
Cu	mg/kg	14	4.92	1.07		14.0	2.00		6.20	0.668	
Mo	mg/kg	5	1.00	0.252		0.700	0.106		0.700	0.200	

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