



2021 North American Proficiency Testing Program
 Quarter 3 Plant Report - Monday, October 18, 2021

Laboratory ID
 General

Plant Analysis	Units	n	Plant 2021-207			Plant 2021-208			Plant 2021-209		
			Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}
Nutrient Ions											
Dry Matter (%)	%	25	90.9	1.20		94.9	0.730		95.1	0.690	
NO3 - N Cd Rd.	mg/kg	29	1,960	289		35.1	6.03		570	40.0	
NO3 - N ISE	mg/kg	5	2,490	1,080		100	39.0		935	54.0	
NO3 - N Other	mg/kg	6	2,120	415		443	413		667	135	
NH4-N	mg/kg	7	304	264		070	008		060	006	
PO4 - P	mg/kg	12	3,260	203		546	41.5		1,720	80.0	
SO4 - S	mg/kg	5	978	104		1,450	46.4		787	127	
Cl	%	26	2.02	0.160		0.222	0.049		0.502	0.032	
TKN	%	14	2.69	0.085		2.58	0.110		3.21	0.085	
N- Dry Comb.	%	69	2.70	0.100		2.57	0.040		3.25	0.050	
S- Dry Comb.	%	13	0.239	0.019		0.250	0.014		0.250	0.010	
Nitric / Perchloric											
P	%	32	0.510	0.020		0.126	0.004		0.320	0.010	
K	%	32	4.70	0.182		0.965	0.036		2.38	0.085	
Ca	%	32	0.678	0.032		4.38	0.164		0.562	0.026	
Mg	%	32	0.354	0.010		0.370	0.018		0.250	0.008	
S	%	31	0.200	0.008		0.260	0.020		0.232	0.008	
Na	%	26	0.658	0.030		0.020	0.002		0.034	0.004	
Al	mg/kg	17	233	12.3		76.2	10.6		88.1	9.83	
B	mg/kg	28	20.6	1.25		62.0	2.81		21.5	1.16	
Zn	mg/kg	31	21.0	1.07		102	6.03		43.1	1.90	
Mn	mg/kg	31	87.8	5.06		20.9	1.09		86.0	3.99	
Fe	mg/kg	31	399	27.9		122	9.35		166	10.5	
Cu	mg/kg	32	3.00	0.410		64.5	3.80		9.98	0.800	
Mo	mg/kg	8	0.516	0.098		0.290	0.186		1.10	0.200	
Nitric / Peroxide- MICROWAVE											
P	%	35	0.484	0.032		0.127	0.005		0.320	0.010	
K	%	36	5.08	0.605		0.950	0.030		2.42	0.070	
Ca	%	36	0.691	0.076		4.28	0.190		0.550	0.030	
Mg	%	36	0.350	0.010		0.360	0.018		0.250	0.010	
S	%	34	0.210	0.019		0.260	0.017		0.240	0.010	
Na	%	27	0.620	0.069		0.020	0.003		0.035	0.005	
Al	mg/kg	22	298	42.0		97.8	14.9		128	20.6	
B	mg/kg	35	22.8	1.82		61.0	4.00		22.2	1.20	
Zn	mg/kg	35	21.4	1.89		99.0	5.89		43.0	2.30	
Mn	mg/kg	35	85.0	6.70		20.2	0.800		84.0	2.80	
Fe	mg/kg	35	419	30.5		125	7.90		188	16.5	
Cu	mg/kg	33	3.20	0.690		63.7	3.30		9.72	0.370	
Mo	mg/kg	11	0.600	0.109		0.200	0.019		1.20	0.150	

1 - Values flagged exceed Warning Limits * * * 2.5 x MAD (Median Absolute Deviation) and Control Limits * * * 4 x MAD.
 2 - Limits not compared to lab data for methods with less than 7 labs reporting.

Dry Ash

P	%	13	0.487	<i>0.017</i>	0.120	<i>0.000</i>	0.310	<i>0.010</i>
K	%	13	5.00	<i>0.500</i>	0.900	<i>0.040</i>	2.35	<i>0.130</i>
Ca	%	13	0.685	<i>0.035</i>	4.24	<i>0.130</i>	0.510	<i>0.030</i>
Mg	%	13	0.340	<i>0.020</i>	0.350	<i>0.010</i>	0.240	<i>0.010</i>
Na	%	11	0.590	<i>0.105</i>	0.025	<i>0.005</i>	0.040	<i>0.006</i>
Al	mg/kg	3	367	<i>17.0</i>	90.3	<i>6.29</i>	120	<i>11.0</i>
B	mg/kg	13	22.6	<i>2.28</i>	60.2	<i>1.45</i>	20.3	<i>0.800</i>
Zn	mg/kg	13	20.6	<i>2.21</i>	97.1	<i>7.60</i>	39.6	<i>2.69</i>
Mn	mg/kg	13	76.9	<i>6.18</i>	18.0	<i>0.970</i>	78.2	<i>2.70</i>
Fe	mg/kg	13	412	<i>37.0</i>	119	<i>13.0</i>	172	<i>17.3</i>
Cu	mg/kg	13	3.40	<i>0.800</i>	62.8	<i>3.53</i>	8.61	<i>1.39</i>
Mo	mg/kg	4	0.630	<i>0.420</i>	0.235	<i>0.180</i>	1.12	<i>0.341</i>