



2021 North American Proficiency Testing Program
Quarter 2 Plant Report - Tuesday, July 27, 2021

Laboratory ID
General

Plant	Plant 2021-204					Plant 2021-205			Plant 2021-206		
Analysis	Units	n	Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}
Nutrient Ions											
Dry Matter (%)	%	23	92.5	0.980		95.3	0.700		95.4	0.630	
NO3 - N Cd Rd.	mg/kg	27	536	53.4		597	45.0		15.8	02.6	
NO3 - N ISE	mg/kg	4	545	74.5		818	89.5		65.0	25.7	
NO3 - N Other	mg/kg	4	552	108		606	116		168	152	
NH4-N	mg/kg	5	174	26.9		53.2	14.5		42.7	6.00	
PO4 - P	mg/kg	10	1,960	108		1,650	77.7		600	40.4	
SO4 - S	mg/kg	4	2,530	134		732	49.5		934	48.0	
Cl	%	22	0.350	0.045		0.500	0.030		0.085	0.006	
TKN	%	9	2.74	0.070		3.18	0.030		1.10	0.020	
N- Dry Comb.	%	67	2.79	0.040		3.25	0.057		1.10	0.040	
S- Dry Comb.	%	9	0.368	0.038		0.230	0.020		0.170	0.020	
Nitric / Perchloric											
P	%	28	0.310	0.010		0.319	0.011		0.129	0.006	
K	%	28	2.33	0.071		2.38	0.074		0.550	0.021	
Ca	%	27	1.17	0.040		0.550	0.026		0.940	0.030	
Mg	%	27	0.250	0.010		0.253	0.010		0.266	0.014	
S	%	27	0.342	0.017		0.230	0.010		0.165	0.007	
Na	%	25	0.083	0.004		0.034	0.003		0.008	0.002	
Al	mg/kg	16	215	26.3		86.5	11.0		78.8	6.66	
B	mg/kg	25	21.0	1.00		22.0	1.51		42.5	2.85	
Zn	mg/kg	27	19.0	1.00		42.2	1.98		21.0	1.00	
Mn	mg/kg	27	30.3	1.73		84.0	6.00		327	12.0	
Fe	mg/kg	27	393	25.5		173	17.4		89.7	7.99	
Cu	mg/kg	27	6.39	0.404		9.65	0.650		5.59	0.590	
Mo	mg/kg	9	3.46	0.460		1.10	0.100		0.216	0.096	
Nitric / Peroxide- MICROWAVE											
P	%	40	0.314	0.016		0.320	0.011		0.130	0.006	
K	%	40	2.31	0.107		2.41	0.120		0.555	0.025	
Ca	%	40	1.14	0.046		0.535	0.025		0.909	0.040	
Mg	%	40	0.246	0.010		0.247	0.012		0.258	0.012	
S	%	39	0.350	0.020		0.240	0.010		0.170	0.010	
Na	%	30	0.081	0.004		0.034	0.004		0.005	0.000	
Al	mg/kg	25	265	63.0		127	23.7		88.0	6.80	
B	mg/kg	40	21.0	1.24		21.8	1.20		42.4	2.23	
Zn	mg/kg	40	18.4	1.59		41.9	2.35		21.0	1.10	
Mn	mg/kg	40	29.2	1.25		84.2	3.55		325	13.8	
Fe	mg/kg	40	419	18.3		189	10.6		100	7.05	
Cu	mg/kg	40	6.18	0.364		9.20	0.300		5.33	0.330	
Mo	mg/kg	16	3.46	0.110		1.10	0.100		0.250	0.053	
Dry Ash											
P	%	11	0.310	0.020		0.310	0.020		0.130	0.010	

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.

K	%	11	2.23	<i>0.110</i>	2.28	<i>0.120</i>	0.533	<i>0.027</i>
Ca	%	11	1.16	<i>0.064</i>	0.530	<i>0.050</i>	0.900	<i>0.030</i>
Mg	%	11	0.250	<i>0.010</i>	0.235	<i>0.025</i>	0.250	<i>0.010</i>
Na	%	9	0.091	<i>0.001</i>	0.040	<i>0.007</i>	0.010	<i>0.001</i>
Al	mg/kg	3	311	<i>5.61</i>	118	<i>1.00</i>	57.7	<i>3.56</i>
B	mg/kg	11	20.4	<i>1.70</i>	20.1	<i>3.28</i>	39.4	<i>2.33</i>
Zn	mg/kg	11	17.1	<i>3.13</i>	38.7	<i>6.83</i>	19.2	<i>2.75</i>
Mn	mg/kg	11	28.3	<i>2.46</i>	75.5	<i>7.98</i>	299	<i>14.8</i>
Fe	mg/kg	11	372	<i>20.5</i>	158	<i>19.0</i>	95.1	<i>6.52</i>
Cu	mg/kg	11	6.70	<i>0.610</i>	7.80	<i>1.08</i>	5.49	<i>0.310</i>
Mo	mg/kg	4	3.65	<i>0.320</i>	1.20	<i>0.054</i>	0.378	<i>0.008</i>

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