



2020 North American Proficiency Testing Program  
Quarter 2 Plant Report - Friday, July 3, 2020

Laboratory ID  
General

Plant Analysis	Units	n	Plant 2020-204			Plant 2020-205			Plant 2020-206		
			Median	MAD	Lab <sup>1,2</sup>	Median	MAD	Lab <sup>1,2</sup>	Median	MAD	Lab <sup>1,2</sup>
<b>Nutrient Ions</b>											
Dry Matter (%)	%	22	95.0	0.570		94.0	0.500		94.6	0.810	
NO3 - N Cd Rd.	mg/kg	24	84.2	15.6		383	24.0		629	61.0	
NO3 - N ISE	mg/kg	3	144	6.00		621	136		794	72.5	
NO3 - N Other	mg/kg	3	76.0	6.00		380	87.0		679	153	
NH4-N	mg/kg	1	55.0			124	16.8		80.6	24.4	
PO4 - P	mg/kg	8	312	20.9		1,240	19.1		1,690	60.8	
SO4 - S	mg/kg	3	248	32.3		1,410	141		859	31.5	
Cl	%	19	0.970	0.043		0.610	0.040		0.400	0.024	
TKN	%	8	0.828	0.025		2.88	0.070		3.66	0.065	
N- Dry Comb.	%	64	0.898	0.040		2.98	0.050		3.76	0.073	
S- Dry Comb.	%	11	0.086	0.009		0.280	0.030		0.292	0.022	
<b>Nitric / Perchloric</b>											
P	%	30	0.075	0.005		0.240	0.010		0.348	0.012	
K	%	31	1.25	0.055		2.35	0.120		2.67	0.088	
Ca	%	30	0.300	0.020		1.49	0.068		0.430	0.020	
Mg	%	30	0.194	0.013		0.345	0.015		0.236	0.014	
S	%	29	0.070	0.003		0.260	0.010		0.270	0.012	
Na	%	25	0.007	0.001		0.089	0.005		0.007	0.001	
Al	mg/kg	19	34.7	2.68		265	45.0		182	17.0	
B	mg/kg	26	17.4	0.995		38.6	2.50		9.41	0.935	
Zn	mg/kg	30	11.1	1.11		22.0	1.57		26.8	2.09	
Mn	mg/kg	30	52.0	2.01		43.6	1.44		64.2	2.52	
Fe	mg/kg	30	60.2	6.50		320	27.6		279	31.5	
Cu	mg/kg	30	4.00	0.330		12.2	0.665		11.0	0.808	
Mo	mg/kg	11	0.460	0.100		1.80	0.200		0.900	0.080	
<b>Nitric / Peroxide- MICROWAVE</b>											
P	%	32	0.074	0.004		0.240	0.008		0.355	0.009	
K	%	32	1.26	0.070		2.35	0.095		2.68	0.105	
Ca	%	32	0.290	0.013		1.48	0.051		0.410	0.020	
Mg	%	32	0.190	0.009		0.341	0.014		0.230	0.007	
S	%	30	0.070	0.002		0.260	0.016		0.280	0.020	
Na	%	23	0.005	0.001		0.086	0.004		0.004	0.000	
Al	mg/kg	19	41.7	5.37		324	39.7		213	31.5	
B	mg/kg	31	17.5	0.760		40.5	1.44		9.86	0.575	
Zn	mg/kg	31	11.7	0.970		22.0	1.01		27.2	1.70	
Mn	mg/kg	32	51.8	2.24		43.6	1.71		64.8	1.89	
Fe	mg/kg	30	64.0	6.09		347	34.9		303	42.0	
Cu	mg/kg	31	4.00	0.440		12.2	0.715		11.0	0.405	
Mo	mg/kg	10	0.395	0.068		1.66	0.178		0.900	0.099	

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**

<b>P</b>	%	12	<b>0.070</b>		<b>0.230</b>	<i>0.010</i>	<b>0.340</b>	<i>0.010</i>
<b>K</b>	%	12	<b>1.18</b>	<i>0.090</i>	<b>2.28</b>	<i>0.085</i>	<b>2.67</b>	<i>0.125</i>
<b>Ca</b>	%	12	<b>0.265</b>	<i>0.015</i>	<b>1.48</b>	<i>0.065</i>	<b>0.395</b>	<i>0.015</i>
<b>Mg</b>	%	12	<b>0.180</b>	<i>0.010</i>	<b>0.340</b>	<i>0.010</i>	<b>0.230</b>	<i>0.010</i>
<b>Na</b>	%	9	<b>0.010</b>	<i>0.001</i>	<b>0.091</b>	<i>0.001</i>	<b>0.015</b>	<i>0.001</i>
<b>Al</b>	mg/kg	4	<b>33.3</b>	<i>8.14</i>	<b>458</b>	<i>12.0</i>	<b>228</b>	<i>6.50</i>
<b>B</b>	mg/kg	11	<b>15.5</b>	<i>0.630</i>	<b>40.0</b>	<i>3.29</i>	<b>10.7</b>	<i>1.21</i>
<b>Zn</b>	mg/kg	12	<b>8.83</b>	<i>1.05</i>	<b>22.2</b>	<i>1.46</i>	<b>26.9</b>	<i>1.70</i>
<b>Mn</b>	mg/kg	11	<b>45.0</b>	<i>2.61</i>	<b>41.4</b>	<i>3.30</i>	<b>64.9</b>	<i>1.75</i>
<b>Fe</b>	mg/kg	12	<b>52.6</b>	<i>6.25</i>	<b>337</b>	<i>17.2</i>	<b>314</b>	<i>19.6</i>
<b>Cu</b>	mg/kg	11	<b>1.96</b>	<i>0.320</i>	<b>12.1</b>	<i>1.22</i>	<b>11.2</b>	<i>1.39</i>
<b>Mo</b>	mg/kg	4	<b>0.580</b>	<i>0.075</i>	<b>2.02</b>	<i>0.245</i>	<b>0.915</b>	<i>0.135</i>

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2 - Limits not compared to lab data for methods with less than 7 labs reporting.