



2017 North American Proficiency Testing Program  
4th Quarter Report - January 8, 2018

Laboratory ID

general

Plant	Plant 2017-210					Plant 2017-211			Plant 2017-212		
Analysis	Units	n	Median	MAD	Lab <sup>1,2</sup>	Median	MAD	Lab <sup>1,2</sup>	Median	MAD	Lab <sup>1,2</sup>
Dry Matter (%)	%	21	95.0	0.400		93.5	0.510		93.2	0.350	
NO3 - N Cd Rd.	mg/kg	23	35.0	5.16		16.0	2.37		341	22.5	
NO3 - N ISE	mg/kg	5	191	34.5		132	16.5		408	98.0	
NO3 - N Other	mg/kg	2	337	213		387	293		410	90.4	
NH4-N	mg/kg	2	38.3	34.3		115	11.5		99	10.000	
PO4 - P	mg/kg	7	553	85.9		1150	91.0		548	110	
SO4 - S	mg/kg	5	1410	159		472	71.0		560	134.8	
Cl	%	22	0.235	0.058		0.832	0.038		0.239	0.058	
TKN	%	11	2.56	0.030		1.20	0.020		2.67	0.030	
N- Dry Comb.	%	57	2.57	0.050		1.23	0.030		2.69	0.050	
S- Dry Comb.	%	7	0.262	0.022		0.130	0.003		0.210	0.012	
<b>Nitric / Perchloric</b>											
P	%	25	0.121	0.006		0.300	0.010		0.150	0.009	
K	%	25	0.918	0.038		1.38	0.040		1.95	0.075	
Ca	%	25	4.30	0.200		0.222	0.022		3.30	0.140	
Mg	%	25	0.361	0.011		0.150	0.005		0.824	0.026	
S	%	24	0.265	0.024		0.111	0.006		0.201	0.017	
Na	%	21	0.020	0.003		0.180	0.010		0.042	0.002	
Al	mg/kg	13	85.0	6.54		72.7	4.34		207	18.7	
B	mg/kg	21	60.7	3.11		10.0	0.700		42.8	1.76	
Zn	mg/kg	25	101	4.90		19.0	1.00		81.0	3.00	
Mn	mg/kg	25	20.0	1.00		14.0	0.960		107	4.92	
Fe	mg/kg	25	119	8.40		67.5	5.52		265	18.2	
Cu	mg/kg	25	65.0	2.32		7.07	0.713		8.00	0.770	
Mo	mg/kg	7	0.140	0.030		1.60	0.120		0.164	0.046	
<b>Nitric / Peroxide- MICROWAVE</b>											
P	%	34	0.129	0.006		0.301	0.011		0.149	0.009	
K	%	34	0.946	0.049		1.39	0.034		1.90	0.061	
Ca	%	34	4.44	0.175		0.222	0.019		3.36	0.144	
Mg	%	34	0.358	0.017		0.150	0.010		0.799	0.036	
S	%	31	0.254	0.016		0.119	0.009		0.200	0.011	
Na	%	27	0.020	0.002		0.178	0.012		0.047	0.003	
Al	mg/kg	24	97.8	16.9		80.3	11.0		247	58.0	
B	mg/kg	33	62.2	3.31		9.75	0.955		43.5	2.28	
Zn	mg/kg	34	101	4.11		19.3	1.09		78.5	4.02	
Mn	mg/kg	34	20.0	1.36		14.0	1.00		109	7.25	
Fe	mg/kg	34	130	7.84		71.6	4.89		280	18.0	
Cu	mg/kg	33	64.0	3.40		7.97	0.720		8.69	0.690	
Mo	mg/kg	12	0.119	0.022		1.63	0.050		0.144	0.034	
<b>Dry Ash</b>											
P	%	12	0.123	0.007		0.305	0.015		0.141	0.010	
K	%	13	0.926	0.054		1.30	0.061		1.87	0.070	
Ca	%	13	4.46	0.270		0.202	0.022		3.28	0.160	

<b>Mg</b>	%	13	<b>0.350</b>	<i>0.020</i>	<b>0.140</b>	<i>0.010</i>	<b>0.780</b>	<i>0.040</i>
<b>Na</b>	%	11	<b>0.023</b>	<i>0.003</i>	<b>0.160</b>	<i>0.010</i>	<b>0.050</b>	<i>0.004</i>
<b>Al</b>	mg/kg	3	<b>102</b>	<i>17.0</i>	<b>66.1</b>	<i>9.90</i>	<b>266</b>	<i>1.00</i>
<b>B</b>	mg/kg	15	<b>59.5</b>	<i>4.48</i>	<b>7.42</b>	<i>1.78</i>	<b>40.9</b>	<i>2.00</i>
<b>Zn</b>	mg/kg	13	<b>97.4</b>	<i>4.10</i>	<b>17.0</b>	<i>1.73</i>	<b>75.5</b>	<i>3.40</i>
<b>Mn</b>	mg/kg	13	<b>19.7</b>	<i>1.47</i>	<b>12.0</b>	<i>1.11</i>	<b>104</b>	<i>4.68</i>
<b>Fe</b>	mg/kg	13	<b>115</b>	<i>13.0</i>	<b>59.7</b>	<i>13.0</i>	<b>250</b>	<i>38.0</i>
<b>Cu</b>	mg/kg	13	<b>62.0</b>	<i>2.14</i>	<b>4.85</b>	<i>0.776</i>	<b>7.98</b>	<i>0.530</i>
<b>Mo</b>	mg/kg	2	<b>0.570</b>	<i>0.330</i>	<b>1.32</b>	<i>0.020</i>	<b>0.440</b>	<i>0.140</i>