



2017 North American Proficiency Testing Program  
3rd Quarter Report - October 11, 2017

Laboratory ID

general

Plant	Plant 2017-207					Plant 2017-208			Plant 2017-209		
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	93.6	0.890		93.4	0.790		94.6	0.760	
NO3 - N Cd Rd.	mg/kg	24	314	31.1		331	47.4		20.0	3.31	
NO3 - N ISE	mg/kg	4	260	259		182	181		87.9	86.5	
NO3 - N Other	mg/kg	4	339	50.0		418	53.3		56.0	36.0	
NH4-N	mg/kg	2	72.0	2.00		94.5	15.5		35.5	14.5	
PO4 - P	mg/kg	10	1300	137		685	126		1440	98.0	
SO4 - S	mg/kg	4	1320	52.5		580	269		438	248.0	
Cl	%	24	0.605	0.023		0.204	0.045		0.075	0.013	
TKN	%	15	2.71	0.180		2.65	0.120		2.70	0.180	
N- Dry Comb.	%	59	2.82	0.050		2.69	0.050		2.75	0.050	
S- Dry Comb.	%	7	0.260	0.020		0.210	0.015		0.149	0.008	
<b>Nitric / Perchloric</b>											
P	%	31	0.230	0.010		0.147	0.007		0.260	0.010	
K	%	33	2.33	0.120		1.93	0.090		2.38	0.140	
Ca	%	33	1.42	0.050		3.30	0.100		2.25	0.080	
Mg	%	33	0.310	0.010		0.800	0.020		0.556	0.026	
S	%	31	0.250	0.012		0.210	0.010		0.140	0.012	
Na	%	27	0.083	0.007		0.045	0.005		0.005	0.001	
Al	mg/kg	15	315	28.4		202	7.59		52.4	7.93	
B	mg/kg	28	37.7	1.74		41.8	3.07		37.8	1.84	
Zn	mg/kg	33	22.0	2.00		78.0	5.30		31.0	2.00	
Mn	mg/kg	33	45.9	2.34		107	6.04		48.6	3.40	
Fe	mg/kg	33	370	49.0		273	22.9		89.0	7.64	
Cu	mg/kg	34	12.0	0.950		8.00	0.980		7.55	0.930	
Mo	mg/kg	9	1.63	0.070		0.270	0.140		0.318	0.075	
<b>Nitric / Peroxide- MICROWAVE</b>											
P	%	31	0.234	0.010		0.147	0.007		0.265	0.011	
K	%	32	2.34	0.090		1.91	0.060		2.43	0.071	
Ca	%	32	1.44	0.070		3.33	0.145		2.27	0.096	
Mg	%	32	0.310	0.016		0.821	0.029		0.562	0.028	
S	%	27	0.245	0.010		0.206	0.012		0.140	0.010	
Na	%	27	0.084	0.006		0.044	0.004		0.008	0.001	
Al	mg/kg	23	466	84.5		248	40.0		59.5	14.4	
B	mg/kg	32	37.6	3.11		42.5	2.34		36.7	1.99	
Zn	mg/kg	32	21.9	0.99		77.4	3.83		30.0	1.11	
Mn	mg/kg	32	46.9	3.29		109	5.28		51.0	2.60	
Fe	mg/kg	32	401	31.2		281	18.3		87.9	6.90	
Cu	mg/kg	31	12.9	0.880		8.23	0.676		7.90	0.400	
Mo	mg/kg	13	1.70	0.200		0.142	0.015		0.260	0.032	
<b>Dry Ash</b>											
P	%	16	0.230	0.005		0.140	0.010		0.260	0.010	
K	%	17	2.30	0.170		1.88	0.118		2.36	0.170	
Ca	%	17	1.40	0.040		3.32	0.130		2.22	0.100	

<b>Mg</b>	%	17	<b>0.300</b>	<i>0.010</i>	<b>0.800</b>	<i>0.060</i>	<b>0.548</b>	<i>0.038</i>
<b>Na</b>	%	15	<b>0.090</b>	<i>0.010</i>	<b>0.050</b>	<i>0.008</i>	<b>0.016</b>	<i>0.002</i>
<b>Al</b>	mg/kg	6	<b>542</b>	<i>59.5</i>	<b>260</b>	<i>28.7</i>	<b>67.9</b>	<i>7.09</i>
<b>B</b>	mg/kg	18	<b>37.8</b>	<i>2.16</i>	<b>42.1</b>	<i>2.40</i>	<b>37.1</b>	<i>3.39</i>
<b>Zn</b>	mg/kg	17	<b>22.0</b>	<i>2.89</i>	<b>73.3</b>	<i>4.70</i>	<b>32.5</b>	<i>4.45</i>
<b>Mn</b>	mg/kg	17	<b>45.0</b>	<i>3.40</i>	<b>103</b>	<i>8.88</i>	<b>48.6</b>	<i>5.25</i>
<b>Fe</b>	mg/kg	17	<b>365</b>	<i>38.4</i>	<b>253</b>	<i>31.0</i>	<b>92.9</b>	<i>9.91</i>
<b>Cu</b>	mg/kg	17	<b>11.0</b>	<i>1.76</i>	<b>8.00</b>	<i>1.00</i>	<b>8.00</b>	<i>0.800</i>
<b>Mo</b>	mg/kg	7	<b>2.00</b>	<i>0.870</i>	<b>3.07</b>	<i>1.61</i>	<b>2.36</b>	<i>1.02</i>