



2017 North American Proficiency Testing Program
2nd Quarter Report - July 11, 2017

Laboratory ID
general

Plant Analysis	Units	n	Plant 2017-204			Plant 2017-205			Plant 2017-206		
			Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}
Dry Matter (%)	%	22	93.9	0.570		94.6	0.750		93.1	0.580	
NO3 - N Cd Rd.	mg/kg	23	20.2	4.64		1250	113		326	49.5	
NO3 - N ISE	mg/kg	5	66.5	34.2		1390.0	162		462	26.8	
NO3 - N Other	mg/kg	4	484	396		1130.0	53.0		435	34.0	
NH4-N	mg/kg	2	55.0	0.000		232	0.000		143	0.000	
PO4 - P	mg/kg	10	553	120		1310	135		571	134	
SO4 - S	mg/kg	6	184	49.0		1180.0	66.0		570	57.5	
Cl	%	21	0.239	0.053		0.603	0.035		0.230	0.044	
TKN	%	12	2.66	0.060		3.47	0.080		2.67	0.060	
N- Dry Comb.	%	60	2.68	0.057		3.63	0.060		2.68	0.040	
S- Dry Comb.	%	9	0.143	0.013		0.330	0.022		0.203	0.017	
Nitric / Perchloric											
P	%	29	0.191	0.010		0.274	0.014		0.148	0.008	
K	%	32	1.28	0.060		2.09	0.097		1.90	0.090	
Ca	%	31	2.18	0.088		0.494	0.026		3.33	0.120	
Mg	%	31	0.672	0.031		0.340	0.018		0.809	0.044	
S	%	29	0.153	0.013		0.318	0.018		0.220	0.020	
Na	%	26	0.005	0.001		0.161	0.009		0.043	0.003	
Al	mg/kg	17	43.7	3.39		13.9	3.45		207	22.0	
B	mg/kg	26	35.9	1.90		4.99	1.01		42.6	1.60	
Zn	mg/kg	31	39.5	2.00		26.8	1.25		77.1	3.93	
Mn	mg/kg	31	26.8	1.84		236	9.00		109	4.80	
Fe	mg/kg	31	71.1	10.5		75.7	5.26		272	21.0	
Cu	mg/kg	31	7.82	0.840		8.56	0.555		8.26	0.995	
Mo	mg/kg	6	0.220	0.070		0.370	0.050		0.210	0.030	

1 - Values flagged exceed Warning Limits " * " 2.5 x MAD (Median Absolute Deviation) and Control Limits " * * " 4 x MAD. "<" and "ND" values not recorded.

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



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Plant Analysis	Units	n	Plant 2017-204			Plant 2017-205			Plant 2017-206		
			Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}
Nitric / Peroxide- MICROWAVE											
P	%	30	0.190	0.010		0.279	0.010		0.145	0.007	
K	%	31	1.28	0.065		2.04	0.110		1.86	0.077	
Ca	%	31	2.19	0.102		0.497	0.034		3.35	0.149	
Mg	%	31	0.657	0.025		0.335	0.015		0.801	0.034	
S	%	28	0.140	0.014		0.318	0.022		0.200	0.017	
Na	%	25	0.009	0.001		0.157	0.013		0.043	0.004	
Al	mg/kg	23	51.2	11.6		17.4	3.72		232	37.8	
B	mg/kg	30	35.3	2.85		4.17	0.690		42.0	2.66	
Zn	mg/kg	31	38.6	2.63		25.9	1.61		76.7	4.70	
Mn	mg/kg	31	26.1	2.08		241	15.5		111	7.08	
Fe	mg/kg	31	70.3	5.85		75.6	6.10		273	15.9	
Cu	mg/kg	31	7.58	0.423		8.57	0.425		8.17	0.547	
Mo	mg/kg	12	0.220	0.023		0.300	0.035		0.140	0.015	
Dry Ash											
P	%	15	0.192	0.009		0.276	0.014		0.143	0.005	
K	%	16	1.28	0.090		2.04	0.110		1.86	0.060	
Ca	%	16	2.06	0.037		0.482	0.022		3.19	0.090	
Mg	%	16	0.656	0.042		0.340	0.020		0.790	0.020	
Na	%	14	0.011	0.001		0.160	0.020		0.054	0.006	
Al	mg/kg	6	60.8	7.70		20.5	3.74		276	2.00	
B	mg/kg	17	35.6	1.36		5.07	0.770		42.5	1.77	
Zn	mg/kg	16	39.0	2.84		26.7	1.70		77.9	5.54	
Mn	mg/kg	16	26.1	2.10		226	11.8		103	5.18	
Fe	mg/kg	16	72.6	7.29		81.5	7.95		250	36.3	
Cu	mg/kg	16	7.63	0.815		8.73	0.670		8.04	0.530	
Mo	mg/kg	3	0.345	0.135		0.445	0.135		0.470	0.000	

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