



2015 North American Proficiency Testing Program
4th Quarter Report - January 15, 2016

Laboratory ID
general

Plant Analysis	Units	n	Plant 2015-210			Plant 2015-211			Plant 2015-212		
			Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}
Dry Matter (%)	%	26	93.5	0.435		89.8	0.400		94.7	0.515	
NO3 - N Cd Rd.	mg/kg	22	292	25.0		6640	653		17.0	3.45	
NO3 - N ISE	mg/kg	3	414	51.0		7740	32.0		69.0	11.0	
NO3 - N Other	mg/kg	6	682	381		7165	1020		439	349	
NH4-N	mg/kg	6	932	421		1290	575		306	263	
PO4 - P	mg/kg	9	1410	115		2340	115		1020	76.0	
SO4 - S	mg/kg	5	1400	154		1860	141		292	11.0	
Cl	%	26	0.758	0.037		3.54	0.310		0.095	0.016	
TKN	%	10	2.85	0.140		2.39	0.120		1.58	0.110	
N- Dry Comb.	%	64	3.02	0.050		2.87	0.075		1.66	0.032	
S- Dry Comb.	%	9	0.300	0.016		0.304	0.016		0.130	0.010	
Nitric / Perchloric											
P	%	32	0.251	0.014		0.331	0.018		0.206	0.009	
K	%	34	2.27	0.123		5.05	0.278		0.873	0.043	
Ca	%	33	1.43	0.060		2.11	0.110		0.390	0.020	
Mg	%	33	0.390	0.017		1.12	0.070		0.152	0.010	
S	%	31	0.273	0.013		0.300	0.011		0.124	0.006	
Na	%	27	0.112	0.005		0.640	0.048		0.005	0.001	
Al	mg/kg	17	189	11.4		167	22.4		330	21.0	
B	mg/kg	30	40.8	3.36		34.8	2.56		22.3	1.45	
Zn	mg/kg	33	22.2	1.80		49.0	3.66		24.8	1.77	
Mn	mg/kg	33	48.3	2.48		57.7	2.35		435	22.8	
Fe	mg/kg	33	222	21.7		237	23.0		117	14.0	
Cu	mg/kg	33	11.4	1.14		9.00	1.14		3.83	0.420	
Mo	mg/kg	11	1.90	0.078		0.650	0.100		0.110	0.110	

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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			Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}	Median	MAD	Lab ^{1,2}
Nitric / Peroxide- MICROWAVE											
P	%	24	0.250	0.013		0.322	0.015		0.205	0.007	
K	%	24	2.25	0.055		4.96	0.215		0.870	0.043	
Ca	%	24	1.45	0.026		2.09	0.055		0.413	0.042	
Mg	%	24	0.380	0.011		1.07	0.032		0.148	0.008	
S	%	23	0.265	0.015		0.286	0.016		0.130	0.010	
Na	%	17	0.110	0.009		0.594	0.015		0.005	0.001	
Al	mg/kg	14	250	41.6		220	39.4		329	23.0	
B	mg/kg	24	41.1	2.14		33.8	1.63		23.1	1.58	
Zn	mg/kg	24	22.6	1.29		48.2	3.93		24.8	1.25	
Mn	mg/kg	24	48.1	1.78		57.0	2.30		430	19.6	
Fe	mg/kg	24	235	25.8		238	15.4		122	9.54	
Cu	mg/kg	23	11.5	0.500		9.10	0.503		4.00	0.420	
Mo	mg/kg	12	1.96	0.150		0.630	0.108		0.058	0.058	
Dry Ash											
P	%	20	0.260	0.010		0.345	0.025		0.210	0.010	
K	%	21	2.32	0.080		5.42	0.390		0.860	0.030	
Ca	%	21	1.44	0.060		2.17	0.140		0.390	0.020	
Mg	%	21	0.390	0.018		1.12	0.070		0.149	0.009	
Na	%	19	0.120	0.006		0.640	0.040		0.010	0.002	
Al	mg/kg	7	307	20.2		313	42.7		348	15.0	
B	mg/kg	22	41.0	1.35		33.8	3.01		22.1	1.35	
Zn	mg/kg	21	21.7	1.50		49.5	4.71		24.1	2.16	
Mn	mg/kg	21	46.9	3.12		57.5	5.50		383	52.9	
Fe	mg/kg	21	232	8.00		259	11.1		113	9.89	
Cu	mg/kg	21	11.5	0.700		10.2	1.48		4.33	0.565	
Mo	mg/kg	8	2.01	0.238		0.815	0.245		0.310	0.118	

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