



NAFT Program
North American Proficiency Testing

2005 North American Proficiency Testing Program 3rd Quarter Report October 28, 2005



Laboratory ID

Plant	Plant 2005-207				Plant 2005-208				Plant 2005-209			
Analysis	Units	n	Median	MAD	Lab	Median	MAD	Lab	Median	MAD	Lab	
Dry Matter	%	36	91.7	0.52		93.6	0.37		93.3	0.71		
NO ₃ - N Cd Rd.	mg/kg	31	92	22		3200	261		260	60		
NO ₃ - N ISE	mg/kg	10	189	65		3680	295		390	59		
NO ₃ - N Other	mg/kg	3	894	6		3300	60		421	180		
NH ₄ -N	mg/kg	2	402	341		691	598		414	318		
PO ₄ - P	mg/kg	19	800	80		1370	65		846	83		
SO ₄ - S	mg/kg	6	697	407		1345	266		453	99		
Cl	%	22	0.14	0.06		1.17	0.13		0.23	0.11		
TKN	%	29	2.45	0.100		2.50	0.09		2.93	0.11		
N-Dry Comb.	%	61	2.53	0.070		2.79	0.080		3.09	0.080		
S-Dry Comb.	%	16	0.260	0.021		0.307	0.040		0.223	0.023		
Nitric / Perchloric / H ₂ O ₂ Digest												
P	%	39	0.130	0.010		0.230	0.010		0.182	0.008		
K	%	37	0.99	0.05		3.57	0.16		1.72	0.09		
Ca	%	38	4.53	0.17		1.35	0.04		2.96	0.11		
Mg	%	38	0.35	0.016		0.42	0.019		0.67	0.03		
S	%	37	0.260	0.017		0.300	0.012		0.200	0.011		
Na	%	29	0.020	0.002		0.020	0.004		0.024	0.004		
Al	mg/kg	15	155	23		267	40		47.0	5.0		
B	mg/kg	28	98.4	4.3		22.7	2.9		43.3	2.9		
Zn	mg/kg	38	68.8	2.8		45.0	2.9		53.0	2.2		
Mn	mg/kg	38	47.6	2.1		173	9.6		112	4.8		
Fe	mg/kg	38	194	15.2		344	43		100	9.5		
Cu	mg/kg	38	25.5	1.5		33.8	1.7		7.6	0.73		
Mo	mg/kg	4	0.918	0.07		0.880	0.33		0.348	0.092		

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



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Analysis	Units	Median	MAD	Lab	Median	MAD	Lab	
Dry Ash								
P	%	31	0.130	0.008	0.228	0.012	0.180	0.010
K	%	33	0.96	0.04	3.59	0.14	1.66	0.06
Ca	%	33	4.40	0.16	1.31	0.04	2.86	0.09
Mg	%	33	0.35	0.016	0.42	0.020	0.66	0.02
Na	%	28	0.021	0.003	0.022	0.003	0.030	0.006
Al	mg/kg	16	148	21	281	40	49.2	15.6
B	mg/kg	33	97.2	3.9	21.3	1.5	41.6	2.1
Zn	mg/kg	35	63.2	2.6	44.0	3.0	50.0	2.6
Mn	mg/kg	35	42.6	2.2	163	7.7	104	6.0
Fe	mg/kg	32	158	33	265	51	85.8	9.3
Cu	mg/kg	34	24.2	1.72	31.9	2.25	7.6	0.76
Mo	mg/kg	5	0.392	0.162	0.605	0.090	0.360	0.220
Microwave Digestion								
P	%	17	0.136	0.006	0.230	0.013	0.190	0.013
K	%	17	1.00	0.06	3.58	0.22	1.70	0.10
Ca	%	17	4.56	0.15	1.35	0.04	2.95	0.11
Mg	%	17	0.35	0.01	0.43	0.017	0.66	0.03
S	%	15	0.270	0.013	0.300	0.015	0.210	0.013
Na	%	15	0.020	0.006	0.020	0.003	0.023	0.003
Al	mg/kg	13	171	10	304	51	57.3	7.1
B	mg/kg	15	100	6.0	20.9	1.6	43.4	3.4
Zn	mg/kg	16	67.7	2.7	45.5	3.4	53.3	3.0
Mn	mg/kg	16	46.8	1.7	174	6.3	110	3.8
Fe	mg/kg	16	201	7.3	343	21	102	5.0
Cu	mg/kg	16	25.6	1.2	34.3	1.5	7.6	1.2
Mo	mg/kg	4	0.762	0.238	1.055	0.194	0.856	0.171

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