

2004 North American Proficiency Testing Program 4th Quarter Report January 14, 2005

Laboratory ID

Plant	Plant 2004-210				Plant 2004-211				Plant 2004-212			
Analysis	Units	n	Median	MAD	Lab	Median	MAD	Lab	Median	MAD	Lab	
Dry Matter	%	36	92.5	0.48		94.1	0.58		92.8	0.50		
NO ₃ - N Cd Rd.	mg/kg	35	882	82		186	36		9830	648		
NO ₃ - N ISE	mg/kg	14	1105	54		433	47		10050	903		
NO ₃ - N Other	mg/kg	2	985	5		590	0		6625	1625		
PO ₄ - P	mg/kg	19	2680	120		2835	180		2650	108		
SO ₄ - S	mg/kg	6	1080	26		392	87		1293	159		
Cl	%	25	0.41	0.05		0.46	0.07		1.89	0.20		
TKN	%	26	0.91	0.034		2.91	0.12		2.10	0.11		
N-Dry Comb.	%	63	0.980	0.030		3.10	0.06		2.73	0.060		
S-Dry Comb.	%	18	0.138	0.018		0.220	0.029		0.180	0.020		
Nitric / Perchloric Digest												
P	%	46	0.330	0.010		0.378	0.012		0.350	0.011		
K	%	43	2.38	0.09		2.28	0.08		6.40	0.27		
Ca	%	43	1.66	0.05		0.69	0.04		1.51	0.06		
Mg	%	43	0.69	0.030		0.23	0.01		0.57	0.02		
S	%	40	0.15	0.007		0.22	0.010		0.21	0.010		
Na	%	35	0.114	0.006		0.010	0.008		0.020	0.004		
Al	mg/kg	19	62	13		35.6	8.6		17.7	12		
B	mg/kg	32	43.0	3.0		10.0	2.3		27.3	2.7		
Zn	mg/kg	42	76.1	3.4		23.0	1.4		24.4	1.5		
Mn	mg/kg	41	103	5.0		91.0	3.0		22.0	1.2		
Fe	mg/kg	42	70.0	7.0		109	7.6		25.2	5.3		
Cu	mg/kg	42	19.1	1.1		12.2	0.9		4.0	0.88		
Mo	mg/kg	7	0.34	0.19		0.63	0.31		0.26	0.26		

1 - Values flagged 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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Laboratory ID

Plant	Plant 2004-210				Plant 2004-211				Plant 2004-212			
Analysis	Units	Median	MAD	Lab	Median	MAD	Lab	Median	MAD	Lab		
Dry Ash												
P	%	30	0.323	0.007	0.375	0.015		0.342	0.008			
K	%	31	2.37	0.08	2.24	0.07		6.35	0.26			
Ca	%	33	1.65	0.07	0.67	0.05		1.50	0.06			
Mg	%	33	0.69	0.029	0.22	0.01		0.57	0.02			
Na	%	31	0.120	0.010	0.010	0.007		0.029	0.010			
Al	mg/kg	17	68	8.8	36.0	5.8		14.0	4.7			
B	mg/kg	36	42.1	2.3	9.7	1.3		27.9	1.9			
Zn	mg/kg	34	75.0	3.0	22.9	1.9		24.3	2.1			
Mn	mg/kg	34	102	3.8	90.7	4.2		22	2.1			
Fe	mg/kg	33	58	7.3	103	11.0		23.0	5.6			
Cu	mg/kg	33	19.0	1.50	11.8	0.91		4.5	0.93			
Mo	mg/kg	10	0.61	0.12	0.59	0.27		0.60	0.53			
Microwave Digestion												
P	%	16	0.335	0.016	0.380	0.018		0.360	0.011			
K	%	16	2.44	0.09	2.29	0.09		6.57	0.21			
Ca	%	16	1.70	0.04	0.68	0.03		1.54	0.05			
Mg	%	16	0.69	0.03	0.22	0.01		0.57	0.02			
S	%	17	0.16	0.007	0.23	0.009		0.21	0.008			
Na	%	15	0.120	0.008	0.004	0.004		0.027	0.007			
Al	mg/kg	12	64	29	36.9	16.6		14.3	10.8			
B	mg/kg	16	44.1	2.3	9.9	1.6		28.3	2.0			
Zn	mg/kg	16	75.9	2.8	22.3	0.9		24.8	1.2			
Mn	mg/kg	16	106	4.8	90.1	5.0		23	1.0			
Fe	mg/kg	16	69	7	108	9.6		26.7	3.5			
Cu	mg/kg	16	20.0	1.1	13.0	1.55		5.0	1.1			
Mo	mg/kg	5	0.55	0.55	0.39	0.39		0.33	0.33			

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