



2003 North American Proficiency Testing Program

3rd Quarter Report November 14, 2003

Laboratory ID

Plant 2003-207 Plant 2003-208 Plant 2003-209

Analysis Units n Median MAD Lab Median MAD Lab Median MAD Lab

Dry Matter % 27 92.6 0.89 92.7 0.80 93.5 0.83

NO₃ - N Cd Rd. mg/kg 25 431 39 250 34 21 7

NO₃ - N ISE mg/kg 16 618 109 352 40 130 62

NO₃ - N Other mg/kg 4 462 74 460 267 116 86

PO₄ - P mg/kg 17 2685 115 967 63 769 49

SO₄ - S mg/kg 6 953 242 508 162 1634 126

Cl % 26 0.18 0.09 0.30 0.08 0.27 0.06

TKN % 27 2.99 0.09 2.71 0.09 2.29 0.07

N-Dry Comb. % 58 3.01 0.063 2.77 0.06 2.33 0.05

S-Dry Comb. % 16 0.465 0.045 0.209 0.021 0.340 0.022

Nitric / Perchloric Digest

P % 44 0.450 0.020 0.167 0.007 0.160 0.010

K % 44 1.75 0.10 1.96 0.10 1.14 0.06

Ca % 42 1.40 0.05 3.28 0.11 1.47 0.07

Mg % 42 0.31 0.010 0.62 0.03 0.47 0.02

S % 40 0.42 0.041 0.20 0.010 0.32 0.013

Na % 36 0.030 0.003 0.030 0.004 0.010 0.007

Al mg/kg 22 199 22 166 23.9 53 15

B mg/kg 32 36.0 3.2 37.6 3.2 33.0 3.1

Zn mg/kg 43 65.3 3.3 35.4 1.4 32.0 2.0

Mn mg/kg 42 114 6.0 102 4.0 90 6.5

Fe mg/kg 40 222 16.0 213 13.1 120 10.0

Cu mg/kg 42 11.7 0.9 13.0 1.0 8.2 0.8

Mo mg/kg 9 1.10 0.33 0.80 0.42 1.00 0.48

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

Plant Analysis	Units	Plant 2003-207		Plant 2003-208		Plant 2003-209		
		Median	MAD	Lab	Median	MAD	Lab	
Dry Ash								
P	%	35	0.460	0.020	0.160	0.010	0.160	0.008
K	%	34	1.73	0.06	1.90	0.10	1.11	0.05
Ca	%	36	1.43	0.05	3.29	0.13	1.50	0.05
Mg	%	36	0.32	0.020	0.62	0.04	0.47	0.02
Na	%	27	0.033	0.007	0.03	0.004	0.010	0.007
Al	mg/kg	13	208	24.0	176	27	46	4.4
B	mg/kg	38	38.3	2.4	39.0	2.0	34.0	2.3
Zn	mg/kg	36	66.1	3.9	33.9	1.7	32.0	2.0
Mn	mg/kg	36	115	8.2	102	4.8	89	4.5
Fe	mg/kg	35	185	23.6	191	25.3	112	5.0
Cu	mg/kg	35	11.3	0.80	12.8	0.86	8.0	0.64
Mo	mg/kg	6	1.13	0.32	0.66	0.16	0.95	0.33
Microwave Digestion								
P	%	19	0.450	0.095	0.160	0.010	0.160	0.010
K	%	19	1.72	0.11	1.92	0.10	1.11	0.05
Ca	%	18	1.40	0.17	3.21	0.12	1.47	0.05
Mg	%	19	0.31	0.01	0.61	0.01	0.46	0.02
S	%	17	0.41	0.030	0.19	0.010	0.30	0.020
Na	%	15	0.030	0.004	0.027	0.004	0.003	0.001
Al	mg/kg	11	200	19.7	178	22.4	46.9	7.9
B	mg/kg	16	39.0	2.7	38.5	3.9	34.5	2.4
Zn	mg/kg	18	65.4	1.4	34.7	1.9	31.9	2.0
Mn	mg/kg	18	116	4.5	104	3.8	90	3.3
Fe	mg/kg	18	227	13.6	210	6.1	124	4.5
Cu	mg/kg	18	11.4	1.04	13.0	0.30	8.0	0.4
Mo	mg/kg	4	1.68	0.22	1.23	0.97	0.87	0.47

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