

- Pass 1 Results for 80 Labs - - Pass 2 Results for 79 Labs -

Method	AOAC Ref.	Method Code	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups
Ammoniacal Nitrogen, MgO Distillation	920.03	001.10	6	1.44	0.19	0.04	6	1.44	0.19	0.04
Ammoniacal Nitrogen, Other		001.99	5	1.16	0.13	0.05	5	1.16	0.13	0.05
Method Group 001.XX PCT			11	1.31	0.22	0.04	11	1.31	0.22	0.04
Nitrate Nitrogen, Other		002.99	3	10.17	14.22	0.05	3	10.17	14.22	0.05
Water Insoluble Nitrogen, Other		003.99	1	0.15	0.01	0.02	1	0.15	0.01	0.02
Nitrogen From Urea, Urease (as N)	959.03	005.00	2	28.65	0.73	0.12	2	28.65	0.73	0.12
Nitrogen From Urea, Other		005.99	4	27.02	4.35	0.42	4	27.02	4.35	0.42
Method Group 005.XX PCT			6	27.56	3.58	0.32	6	27.56	3.58	0.32
Ammon & Nitrate N, Devarda	892.01	009.10	1	2.05	0.07	0.10	1	2.05	0.07	0.10
Total Nitrogen, Reduced Iron		010.10	1	29.91	0.02	0.03	1	29.91	0.02	0.03
Total Nitrogen, Modified Comprehensive	978.02	010.11	6	29.74	0.12	0.08	6	29.74	0.12	0.08
Total Nitrogen, Salicylic		010.12	3	29.93	0.26	0.07	3	29.93	0.26	0.07
Total Nitrogen, Combustion		010.60	49	29.88	0.39	0.19	48	29.89	0.38	0.17
Total Nitrogen, Other		010.99	6	29.50	0.60	0.11	6	29.50	0.60	0.11
Method Group 010.XX PCT			65	29.83	0.40	0.16	61	29.87	0.36	0.13
Total Phosphate, Grav Quimociac	962.02	020.10	2	0.43	0.04	0.04	2	0.43	0.04	0.04
Total Phosphate, Spectrometric	958.01	020.20	7	0.40	0.05	0.03	7	0.40	0.05	0.03
Total Phosphate, Automated	978.01	020.40	6	0.42	0.05	0.03	6	0.42	0.05	0.03
Total Phosphate, ICP		020.50	6	0.41	0.03	0.01	5	0.41	0.03	0.00
Method Group 020.XX PCT			21	0.41	0.04	0.03	19	0.41	0.04	0.02
Insoluble Phosphate, Automated	978.01	030.40	1	0.14	0.00	0.00	1	0.14	0.00	0.00
InDir Available Phosphate, Automated	960.02	040.40	1	0.34	0.01	0.01	1	0.34	0.01	0.01
InDir Available Phosphate, Other		040.99	1	1.04	0.06	0.08	1	1.04	0.06	0.08
Method Group 040.XX PCT			2	0.69	0.41	0.05	2	0.69	0.41	0.05
Dir Available Phosphate, Grav Quimociac	960.03E	041.10	4	0.19	0.21	0.00	3	0.13	0.21	0.00
Dir Available Phosphate, Spectrometric	960.03D	041.20	1	0.00	0.00	0.00	1	0.00	0.00	0.00
Dir Available Phosphate, Automated	978.01	041.40	3	0.22	0.17	0.02	3	0.22	0.17	0.02
Dir Available Phosphate, ICP		041.50	7	0.32	0.14	0.04	7	0.32	0.14	0.04
Dir Available Phosphate, EDTA Extract	993.01	041.60	1	0.37	0.01	0.01	1	0.37	0.01	0.01
Dir Available Phosphate, Other		041.99	2	0.40	0.01	0.01	2	0.40	0.01	0.01
Method Group 041.XX PCT			18	0.27	0.17	0.02	16	0.26	0.18	0.01
Water Soluble Phosphate, Spectrometric	970.01	048.20	1	0.23	0.00	0.00	1	0.23	0.00	0.00
Soluble Potash, STPB Oxalate	958.02	050.00	12	5.35	0.17	0.10	11	5.36	0.16	0.06
Soluble Potash, STPB Citrate	969.04	050.10	1	4.70	0.02	0.03	1	4.70	0.02	0.03
Soluble Potash, AA (Oxalate)		050.30	7	5.27	0.19	0.08	7	5.27	0.19	0.08
Soluble Potash, AA (Citrate)		050.31	3	5.14	0.31	0.06	3	5.14	0.31	0.06
Soluble Potash, ICP (Oxalate)		050.50	7	5.37	0.21	0.17	7	5.37	0.21	0.17
Soluble Potash, ICP (Citrate)		050.51	9	5.35	0.17	0.06	8	5.38	0.15	0.04
Soluble Potash, Flame (Oxalate)	983.02(a)	050.60	3	5.32	0.18	0.07	3	5.32	0.18	0.07

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Method	AOAC Ref.	Method Code	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups
Soluble Potash, Flame (Citrate)	983.02(b)	050.61	8	5.32	0.17	0.08	8	5.32	0.17	0.08
Soluble Potash, Other		050.99	19	5.25	0.26	0.13	16	5.21	0.22	0.05
Method Group 050.XX PCT			69	5.29	0.23	0.10	64	5.28	0.22	0.07
Free Water, Vacuum Oven	965.08B	060.00	4	1.53	0.07	0.04	4	1.53	0.07	0.04
Acid Soluble Calcium, AA	945.04	101.00	10	6.87	0.37	0.12	9	6.86	0.39	0.09
Acid Soluble Calcium, ICP		101.30	33	7.05	0.27	0.11	32	7.05	0.27	0.10
Acid Soluble Calcium, Other		101.99	4	6.95	0.42	0.13	3	7.15	0.18	0.01
Method Group 101.XX PCT			47	7.01	0.31	0.12	43	7.03	0.29	0.09
Acid Soluble Magnesium, AA	984.01	121.00	8	0.20	0.01	0.01	8	0.20	0.01	0.01
Acid Soluble Magnesium, ICP		121.30	34	0.20	0.02	0.01	30	0.20	0.01	0.01
Acid Soluble Magnesium, Other		121.99	2	0.22	0.01	0.00	2	0.22	0.01	0.00
Method Group 121.XX PCT			44	0.20	0.02	0.01	40	0.20	0.01	0.01
Water Soluble Magnesium, AA		131.00	1	1.14	0.01	0.01	1	1.14	0.01	0.01
Sulfur, Gravimetric	980.02a	144.01	1	1.43	0.03	0.04	1	1.43	0.03	0.04
Sulfur, Gravimetric	980.02b	144.02	1	1.50	0.01	0.01	1	1.50	0.01	0.01
Sulfur, Other		144.99	9	1.47	0.06	0.05	9	1.47	0.06	0.05
Method Group 144.XX PCT			11	1.47	0.06	0.04	11	1.47	0.06	0.04
Arsenic, Atomic Absorption		151.00	2	1.61	0.79	0.02	2	1.61	0.79	0.02
Arsenic, ICP		151.30	6	2.30	1.03	0.31	6	2.30	1.03	0.31
Arsenic, Other		151.99	1	1.97	0.06	0.08	1	1.97	0.06	0.08
Method Group 151.XX PPM			9	2.11	0.94	0.22	8	2.06	0.97	0.13
Acid Soluble Boron, Spectrometric	982.01	165.00	1	0.005	0.001	0.002	1	0.005	0.001	0.002
Acid Soluble Boron, Other		165.99	4	0.004	0.000	0.000	4	0.004	0.000	0.000
Method Group 165.XX PCT			6	0.007	0.006	0.001	5	0.007	0.007	0.000
Cadmium, Atomic Absorption		181.00	2	0.82	0.05	0.06	2	0.82	0.05	0.06
Cadmium, ICP		181.30	11	1.15	0.40	0.08	11	1.15	0.40	0.08
Cadmium, Other		181.99	1	0.90	0.05	0.07	1	0.90	0.05	0.07
Method Group 181.XX PPM			14	1.09	0.37	0.08	13	1.00	0.19	0.08
Water Soluble Chlorine, Titrimetric	928.02	190.00	3	4.30	0.24	0.09	3	4.30	0.24	0.09
Chromium, Atomic Absorption		191.00	1	30.00	0.00	0.00	1	30.00	0.00	0.00
Chromium, ICP		191.30	11	26.06	2.74	1.70	10	25.67	2.19	1.07
Method Group 191.XX PPM			12	26.39	2.84	1.56	10	26.29	2.29	0.53
Acid Soluble Cobalt, AA		202.00	1	26.50	0.71	1.00	1	26.50	0.71	1.00
Acid Soluble Cobalt, ICP	965.11	202.30	13	15.34	3.91	0.43	13	15.34	3.91	0.43
Acid Soluble Cobalt, Other		202.99	1	4.96	0.03	0.04	1	4.96	0.03	0.04
Method Group 202.XX PPM			15	15.39	5.41	0.44	15	15.39	5.41	0.44
Acid Soluble Copper, Atomic Absorption	975.01	221.00	3	0.0201	0.0005	0.0005	3	0.0201	0.0005	0.0005
Acid Soluble Copper, ICP		221.30	20	0.0201	0.0018	0.0013	19	0.0201	0.0016	0.0009
Acid Soluble Copper, Other		221.99	1	0.0200	0.0000	0.0000	1	0.0200	0.0000	0.0000

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Method	AOAC Ref.	Method Code	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups
Method Group 221.XX PCT			24	0.0201	0.0017	0.0011	22	0.0201	0.0014	0.0006
Acid Soluble Iron, Atomic Absorption ..	980.01	241.00	9	1.56	0.32	0.07	9	1.56	0.32	0.07
Acid Soluble Iron, ICP .....		241.30	37	1.53	0.31	0.06	36	1.53	0.32	0.05
Acid Soluble Iron, Other .....		241.99	3	1.64	0.60	0.03	3	1.64	0.60	0.03
Method Group 241.XX PCT			50	1.52	0.37	0.06	47	1.54	0.34	0.05
Lead, Atomic Absorption .....		251.00	1	5.34	0.13	0.19	1	5.34	0.13	0.19
Lead, ICP .....		251.30	10	5.19	1.12	0.33	9	5.35	1.05	0.24
Lead, Other .....		251.99	2	4.81	0.50	0.49	2	4.81	0.50	0.49
Method Group 251.XX PPM			13	5.14	1.01	0.34	12	5.26	0.95	0.28
Acid Soluble Manganese, AA .....	972.02a	261.00	1	0.028	0.002	0.002	1	0.028	0.002	0.002
Acid Soluble Manganese, ICP .....	972.02a	261.30	13	0.028	0.003	0.002	12	0.027	0.002	0.002
Acid Soluble Manganese, Other .....		261.99	2	0.024	0.004	0.001	2	0.024	0.004	0.001
Method Group 261.XX PCT			16	0.027	0.003	0.002	15	0.027	0.003	0.002
Mercury, ICP .....		281.30	2	0.41	0.36	0.02	2	0.41	0.36	0.02
Molybdenum, ICP .....		289.30	14	5.60	1.00	0.77	13	5.61	0.76	0.45
Molybdenum, Other .....		289.99	1	4.48	0.11	0.16	1	4.48	0.11	0.16
Method Group 289.XX PPM			16	5.62	1.12	0.88	14	5.53	0.79	0.43
Nickel, ICP .....		291.30	11	11.88	2.64	0.64	11	11.88	2.64	0.64
Nickel, Other .....		291.99	1	6.26	0.04	0.06	1	6.26	0.04	0.06
Method Group 291.XX PPM			14	11.41	4.09	1.60	12	11.41	2.98	0.59
Selenium, ICP .....		301.30	1	0.83	0.13	0.19	1	0.83	0.13	0.19
Sodium, Other .....		311.99	4	0.06	0.00	0.00	4	0.06	0.00	0.00
Acid Soluble Zinc, Atomic Absorption ..	975.02	321.00	3	0.083	0.002	0.001	3	0.083	0.002	0.001
Acid Soluble Zinc, ICP .....		321.30	24	0.083	0.007	0.004	22	0.083	0.006	0.003
Acid Soluble Zinc, Other .....		321.99	1	0.085	0.001	0.002	1	0.085	0.001	0.002
Method Group 321.XX PCT			28	0.083	0.007	0.003	25	0.082	0.005	0.002
Water Soluble Zinc, Other .....		325.99	1	0.088	0.002	0.003	1	0.088	0.002	0.003

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index			
Meth: 001.10 PCT														
Ammoniacal Nitrogen														
MgO Distillation														
230	1.69	1.30										Meth: 010.60 PCT		
090	1.58	.75										Total Nitrogen		
481	1.51	.37										Combustion		
Avg	1.44											360	29.57	- .84
300	1.42	- .15										095	29.55	- .89
456	1.31	- .72										027	29.55	- .92
232	1.14	- 1.60										393	29.53	- .93
Meth: 003.99 PCT														
Water Insoluble Nitri														
Other														
027	0.15	.71										291	29.50	- 1.01
Meth: 010.11 PCT														
Total Nitrogen														
Modified Comprehensive														
114	29.91	1.49										451	29.50	- 1.03
105	29.75	.39										035	29.37	- 1.36
456	29.78	.37										041	29.59	- 1.60
211	29.75	.09										351	29.05	- 2.30
Avg	29.74											022	28.85	- 2.70
368	28.02	- .87										042	28.63	- 3.38
Meth: 005.99 PCT														
Nitrogen From Urea														
Other														
029	29.73	.63										472	23.72	- 21.13
309	29.20	.50										Meth: 010.99 PCT		
027	29.13	.49										Total Nitrogen		
Avg	27.02											Other		
230	20.00	- 1.61										479	31.38	3.15
Meth: 010.12 PCT														
Total Nitrogen														
Salicylic														
481	31.39	5.61										300	30.29	1.32
254	30.22	1.11										371	29.93	.72
Avg	29.93											460	29.85	.60
185	29.93	- .19										Avg	29.50	
455	29.65	- 1.11										255	29.25	- .48
484	28.15	- 7.02										030	28.99	- .86
Meth: 010.60 PCT														
Total Nitrogen														
Combustion														
102	31.27	3.94										420	28.68	- 1.38
029	30.37	2.57										Meth: 010. XX PCT		
422	30.79	2.36										Total Nitrogen		
072	30.70	2.12										102	31.27	4.23
230	30.65	1.99										481	31.39	4.20
Meth: 010.60 PCT														
Total Nitrogen														
Combustion														
102	31.27	3.94										479	31.38	4.17
029	30.37	2.57										029	30.37	2.76
422	30.79	2.36										422	30.79	2.56
072	30.70	2.12										072	30.70	2.30
230	30.65	1.99										230	30.65	2.17
Meth: 002.99 PCT														
Nitrate Nitrogen														
Other														
137	28.49	1.29										420	30.63	2.09
Meth: 005.00 PCT														
Nitrogen From Urea														
Urease (as N)														
481	29.28	.86										330	30.35	- .66
Avg	28.65											007	29.85	- .79
368	28.02	- .87										043	29.61	- .79
Meth: 005.99 PCT														
Nitrogen From Urea														
Other														
029	29.73	.63										Meth: 010.60 PCT		
309	29.20	.50										Total Nitrogen		
027	29.13	.49										Combustion		
Avg	27.02											420	30.63	2.09
230	20.00	- 1.61										330	30.35	1.34
Meth: 005. XX PCT														
Nitrogen From Urea														
Other														
029	29.73	.62										300	30.29	1.15
481	29.28	.48										Meth: 010.60 PCT		
309	29.20	.46										Total Nitrogen		
027	29.13	.44										Combustion		
368	28.02	.13										102	31.27	4.23
Avg	27.56											481	31.39	4.20
230	20.00	- 2.11										479	31.38	4.17
Meth: 002.99 PCT														
Nitrate Nitrogen														
Other														
137	28.49	1.29										029	30.37	2.76
Meth: 005.99 PCT														
Nitrogen From Urea														
Urease (as N)														
481	29.28	.86										422	30.79	2.56
Avg	28.65											072	30.70	2.30
368	28.02	- .87										230	30.65	2.17
Meth: 005. XX PCT														
Nitrogen From Urea														
Other														
029	29.73	.63										420	30.63	2.09
309	29.20	.50										330	30.35	1.34
027	29.13	.49										300	30.29	1.15
Avg	27.02											Meth: 010.60 PCT		
230	20.00	- 1.61										Total Nitrogen		
Meth: 005.99 PCT														
Nitrogen From Urea														
Other														
029	29.73	.63										Combustion		
309	29.20	.50										360	29.57	- .84
027	29.13	.49										095	29.55	- .89
Avg	27.02											027	29.55	- .92
230	20.00	- 1.61										393	29.53	- .93
Meth: 010.11 PCT														
Total Nitrogen														
Modified Comprehensive														
114	29.91	1.49										291	29.50	- 1.01
105	29.75	.39										451	29.50	- 1.03
456	29.78	.37										035	29.37	- 1.36
211	29.75	.09										041	29.59	- 1.60
Avg	29.74											351	29.05	- 2.30
090	29.68	- .85										022	28.85	- 2.70
260	29.58	- 1.51										042	28.63	- 3.38
309	8.30	- 183.67										472	23.72	- 21.13
Meth: 010.12 PCT														
Total Nitrogen														
Salicylic														
481	31.39	5.61										Meth: 010.60 PCT		
254	30.22	1.11										Total Nitrogen		
Avg	29.93											Combustion		
185	29.93	- .19										102	31.27	4.23
455	29.65	- 1.11										481	31.39	4.20
484	28.15	- 7.02										479	31.38	4.17
Meth: 010.60 PCT														
Total Nitrogen														
Combustion														
102	31.27	3.94										029	30.37	2.76
029	30.37	2.57										422	30.79	2.56
422	30.79	2.36										072	30.70	2.30
072	30.70	2.12										230	30.65	2.17
230	30.65	1.99										420	30.63	2.09
Meth: 010.60 PCT														
Total Nitrogen														
Combustion														
102	31.27	3.94										330	30.35	1.34
029	30.37	2.57										300	30.29	1.15
422	30.79	2.36										Meth: 010.60 PCT		
072	30.70	2.12										Total Nitrogen		
230	30.65	1.99										Combustion		
Meth: 010.11 PCT														
Total Nitrogen														
Modified Comprehensive														
114	29.91	1.49										102	31.27	4.23
105	29.75	.39										481	31.39	4.20
456	29.78	.37										479	31.38	4.17
211	29.75	.09										029	30.37	2.76
Avg	29.74											422	30.79	2.56
090	29.68	- .85										072	30.70	2.30
260	29.58	- 1.51										230	30.65	2.17
309	8.30	- 183.67										420	30.63	2.09
Meth: 010.12 PCT														
Total Nitrogen														
Salicylic														
481	31.39	5.61										330	30.35	1.34
254	30.22	1.11										300	30.29	1.15
Avg	29.93											Meth: 010.60 PCT		
185	29.93	- .19										Total Nitrogen		
455	29.65	- 1.11										Combustion		
484	28.15	- 7.02										102	31.27	4.23
Meth: 010.60 PCT														
Total Nitrogen														
Combustion														
102	31.27	3.94										481	31.39	4.20
029	30.37	2.57										479	31.38	4.17
422	30.79	2.36										029	30.37	2.76
072	30.70	2.12										422	30.79	2.56
230	30.65	1.99										072	30.70	2.30
Meth: 010.60 PCT														
Total Nitrogen														
Combustion														
102	31.27	3.94										230	30.65	2.17
029	30.37	2.57										420	30.63	2.09
422	30.79	2.36										330	30.35	1.34
072	30.70	2.12										300	30.29	1.15
230	30.65	1.99										Meth: 010.60 PCT		
Meth: 010.11 PCT														
Total Nitrogen														
Modified Comprehensive														
114	29.91	1.49										Total Nitrogen		
105	29.75	.39										Combustion		
456	29.78	.37										360	29.57	- .84
211	29.75	.09										095	29.55	- .89
Avg	29.74											027	29.55	- .92
090	29.68	- .85										393	29.53	- .93
260	29.58	- 1.51										291	29.50	- 1.01
309	8.30	- 183.67										451	29.50	- 1.03
Meth: 010.12 PCT														
Total Nitrogen														
Salicylic														
481	31.39	5.61										035	29.37	- 1.36
254	30.22	1.11										041	29.59	- 1.60
Avg	29.93											351	29.05	- 2.30
185	29.93	- .19										022	28.85	- 2.70
455	29.65	- 1.11										042	28.63	- 3.38
484	28.15	- 7.02										472	23.72	- 21.13
Meth: 010.60 PCT														
Total Nitrogen														
Combustion														
102	31.27	3.94										Meth: 010.99 PCT		
029	30.37	2.57										Total Nitrogen		
422	30.79	2.36										Other		
072	30.70	2.12										479	31.38	4.17
230	30.65	1.99										029	30.37	2.76
Meth: 010.60 PCT														
Total Nitrogen														
Combustion														
102	31.27	3.94										422	30.79	2.56
029	30.37	2.57										072	30.70	2.30
422	30.79	2.36										230	30.65	2.17
072	30.70	2.12										420	30.63	2.09
230	30.65	1.99										330	30.35	1.34
Meth: 010.11 PCT														
Total Nitrogen														
Modified Comprehensive														
114	29.91	1.49										300	30.29	1.15
105	29.75	.39										Meth: 010.60 PCT		
456	29.78	.37										Total Nitrogen		
211	29.75	.09										Combustion		
Avg	29.74											360	29.57	- .84
090	29.68	- .85										095	29.55	- .89
260	29.58	- 1.51										027	29.55	- .92
309	8.30	- 183.67										393	29.53	- .93
Meth: 010.12 PCT														
Total Nitrogen														
Salicylic														
481	31.39	5.61										291	29.50	

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index				
Meth: 010.XX PCT																		
Total Nitrogen																		
450	30.25	1.13	037	29.71	-0.50	Meth: 020.20 PCT									Meth: 030.40 PCT			
009	30.25	1.12	090	29.68	-0.57	Total Phosphate									Insoluble Phosphate			
254	30.22	.97	040	29.80	-0.59	324	0.97 s	10.85	137	0.00 S	.00	Automated		096	0.14	.00		
105	30.15	.88	455	29.65	-0.62	292	0.48	1.52	397	5.20 S	.00	Meth: 040.40 PCT						
325	29.90 R	.83	390	29.76	-0.63	428	0.43	.50	Avg	0.00		InDir Available Phos						
177	30.14	.76	106	29.65	-0.64	481	0.42	.40				Automated						
368	30.00	.64	007	29.85	-0.69	Avg	0.40		Meth: 020.XX PCT			096				0.34	.71	
131	30.08	.60	043	29.61	-0.80	169	0.40	-0.14	Total Phosphate									
324	30.05	.52	260	29.58	-0.83	232	0.40	-0.19	397	5.20 s	125.41	Meth: 040.99 PCT						
232	30.05	.50	360	29.57	-0.85	420	0.37	-0.82	324	0.97 s	14.55	InDir Available Phos						
389	30.00	.46	095	29.55	-0.90	450	0.32	-1.74	041	0.61 s	6.15	Other						
233	30.00	.41	027	29.55	-0.93	230	0.18 S	-4.25	292	0.48	1.71	460				1.04 X	.71	
377	29.96	.30	393	29.53	-0.94	Meth: 020.40 PCT												
443	29.88	.29	291	29.50	-1.03	Total Phosphate									Meth: 040.XX PCT			
034	29.96	.29	451	29.50	-1.06	Automated									InDir Available Phos			
057	29.92	.27	035	29.37	-1.41	484	0.45	1.15	095	0.45	.93	460				1.04 X	.87	
426	29.88	.26	041	29.59 R	-1.68	096	0.48	1.10	291	0.45	.82	Avg				0.69		
402	29.95	.23	255	29.25	-1.75	095	0.45	.61	481	0.42	.39	096				0.34	-.86	
136	29.94	.23	351	29.05 R	-2.41	Avg	0.42		428	0.43	.35							
185	29.93	.22	030	28.99	-2.44	027	0.40	-0.40	Avg	0.41		Meth: 041.10 PCT						
096	29.87	.17	022	28.85	-2.82	105	0.38	-0.79	105	0.41	-0.09	Dir Available Phosph						
371	29.93	.16	420	28.68 A	-3.31	247	0.35	-1.35	389	0.40	-0.38	Grav Quimociac						
231	29.93	.16	042	28.63 s	-3.55	042	0.27 s	-3.84	402	0.40	-0.45	022				0.40	1.29	
114	29.91	.14	484	28.15 s	-4.85	Meth: 020.50 PCT									105		0.38 R	1.17
397	29.91	.11	472	23.72 s	-22.45	Total Phosphate									Avg		0.13	
Avg	29.87		309	8.30 s	-59.69	ICP									254		0.00	-.65
292	29.86	-.04													072		0.00	-.65
406	29.86	-.09																
460	29.85	-.15	Meth: 020.10 PCT												Meth: 041.20 PCT			
354	29.85	-.15	Total Phosphate												Dir Available Phosph			
405	29.81	-.25	Grav Quimociac												Spectrometric			
456	29.78	-.27	041	0.61 S	5.76	389	0.40	-.44	247	0.35	-1.71	030				0.00	.00	
234	29.76	-.31	114	0.46	1.08	402	0.40	-.52	450	0.32 R	-2.73							
211	29.75	-.33	Avg	0.43		368	0.40 R	-.55	042	0.27 s	-5.10	Meth: 041.40 PCT						
157	29.80	-.34	105	0.41	-.57	231	0.38	-1.26	230	0.18 s	-6.23	Dir Available Phosph						
247	29.79	-.35													Automated			
105	29.75	-.36													027		0.40	1.06
055	29.70	-.47													472		0.24	.18

\* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 041.40 PCT											
Dir Available Phosph											
Automated											
Avg	0.22										
095	0.03	-1.16									
Meth: 041.50 PCT											
Dir Available Phosph											
ICP											
009	0.41	.63									
368	0.39	.54									
325	0.35	.42									
377	0.35	.42									
354	0.37	.37									
007	0.37	.35									
Avg	0.32										
393	0.00 X	-2.28									
Meth: 041.60 PCT											
Dir Available Phosph											
EDTA Extract											
105	0.37	.71									
Meth: 041.99 PCT											
Dir Available Phosph											
Other											
105	0.41	.59									
Avg	0.40										
230	0.40	-1.07									
Meth: 041.99 PCT											
Dir Available Phosph											
009	0.41	.82									
105	0.41	.82									
230	0.40	.79									
022	0.40	.79									
027	0.40	.76									
368	0.39	.75									
105	0.38	.65									
105	0.37	.65									
Meth: 041.99 PCT											
Soluble Potash											
Other											
177	5.56	1.55									
450	5.48 R	1.54									
072	5.23 R	1.27									
455	5.39	.76									
131	5.38	.74									
460	5.38	.74									
042	5.35	.68									
360	5.36	.66									
451	5.32	.48									
325	5.30	.39									
247	5.24	.15									
137	5.23	.07									
Avg	5.21										
300	5.20	-.18									
255	5.09	-.54									
402	5.04	-.80									
368	5.02	-.96									
484	4.94	-1.25									
232	4.64	-2.58									
481	4.58 S	-2.89									
Meth: 050.51 PCT											
Soluble Potash											
ICP (Citrate)											
291	5.65	1.83									
007	5.49	.73									
096	5.47	.59									
043	5.40	.25									
Avg	5.38										
009	5.29	-.62									
393	5.29	-.65									
432	5.24	-1.02									
389	5.20	-1.17									
377	5.10 R	-1.96									
Meth: 050.60 PCT											
Soluble Potash											
Flame (Oxalate)											
406	5.53	1.15									
Avg	5.32										
443	5.30	-.34									
169	5.13	-1.03									
Meth: 050.61 PCT											
Soluble Potash											
Flame (Citrate)											
029	5.53	1.24									
456	5.44	.72									
034	5.42	.65									
095	5.42	.61									
131	5.34	.18									
Avg	5.32										
041	5.21	-.64									
035	5.13	-1.18									
037	5.05	-1.68									
Meth: 050.99 PCT											
Soluble Potash											
Other											
322	6.33 s	4.97									
027	5.65 R	2.39									

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 050.XX PCT														
<u>Soluble Potash</u>														
057	5.47	.86												
096	5.47	.84												
040	5.45	.80												
022	5.45	.80												
354	5.43	.79												
456	5.44	.72												
234	5.42	.71												
233	5.42	.70												
034	5.42	.65												
324	5.42	.64												
095	5.42	.63												
043	5.41	.58												
106	5.40	.56												
043	5.40	.55												
231	5.40	.54												
211	5.40	.54												
136	5.40	.51												
455	5.39	.47												
460	5.38	.45												
131	5.38	.45												
042	5.35	.44												
185	5.35	.38												
360	5.36	.36												
443	5.30	.29												
131	5.34	.27												
451	5.32	.19												
393	5.29	.16												
325	5.30	.07												
009	5.29	.07												
Avg	5.28													
247	5.24	-.22												
137	5.23	-.25												
041	5.21	-.37												
432	5.24	-.38												
389	5.20	-.39												
397	5.20	-.43												
300	5.20	-.44												
055	5.23	-.48												
Meth: 050.XX PCT														
<u>Soluble Potash</u>														
009	5.15	-.61												
169	5.13	-.71												
351	5.13	-.72												
157	5.15	-.75												
035	5.13	-.81												
255	5.09	-.88												
377	5.10	-.97												
055	5.05	-1.09												
102	5.23 R	-1.12												
402	5.04	-1.15												
426	5.07	-1.15												
037	5.05	-1.22												
368	5.02	-1.30												
072	5.23 R	-1.35												
030	4.98	-1.39												
309	4.96	-1.52												
484	4.94	-1.62												
254	4.90	-1.81												
117	4.70	-2.73												
232	4.64	-3.00												
481	4.58 s	-3.32												
230	4.47 s	-3.80												
292	4.33 s	-4.44												
Meth: 060.00 PCT														
Free Water														
<u>Vacuum Oven</u>														
096	1.64	1.54												
Avg	1.53													
105	1.52	-.28												
007	1.51	-.52												
456	1.47	-.89												
Meth: 101.00 PCT														
<u>Acid Soluble Calcium</u>														
AA														
481	6.98 R	.59												
105	6.99	.34												
028	6.87	.08												
Avg	6.86													
055	6.84	-.10												
043	6.66	-.55												
397	6.53	-.85												
157	6.57	-.90												
029	6.45	-1.07												
169	4.03 s	-7.34												
Meth: 101.30 PCT														
<u>Acid Soluble Calcium</u>														
ICP														
422	8.72 s	6.25												
117	7.63	2.20												
479	7.45	1.51												
390	7.40	1.41												
041	7.31 R	1.21												
095	7.33	1.06												
450	7.31	1.00												
037	7.31	.97												
231	7.27	.86												
131	7.27	.82												
009	7.25	.76												
230	7.20	.62												
354	7.18	.48												
389	7.15	.43												
472	7.12	.35												
433	7.12	.29												
057	7.05	.27												
106	7.12	.26												
351	7.10	.21												
300	7.06	.13												
Avg	7.05													
292	6.95	-.38												
360	6.90	-.58												
Meth: 101.30 PCT														
<u>Acid Soluble Calcium</u>														
ICP														
233	6.89	-.59												
420	6.88	-.67												
035	6.87	-.67												
022	6.92	-.76												
102	6.84	-.83												
247	6.81	-.88												
324	6.80	-.99												
432	6.78	-1.05												
368	6.76	-1.07												
027	6.73	-1.20												
232	6.69	-1.36												
255	6.41	-2.42												
426	5.86 s	-5.45												
Meth: 101.99 PCT														
<u>Acid Soluble Calcium</u>														
Other														
137	7.34	1.06												
460	7.17 X	.12												
Avg	7.15													
291	6.95	-1.17												
042	6.35 R	-4.73												
484	4.02 S	-17.67												
Meth: 101.XX PCT														
<u>Acid Soluble Calcium</u>														
481	6.98 R	-.69												
102	6.84	-.69												
247	6.81	-.74												
324	6.80	-.84												
432	6.78	-.89												
368	6.76	-.90												
027	6.73	-1.02												
232	6.69	-1.18												
043	6.66	-1.27												
157	6.57 R	-1.68												
397	6.53	-1.68												
029	6.45	-1.96												
255	6.41	-2.14												
042	6.35 R	-2.46												

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	
Meth: 101.XX PCT												
<u>Acid Soluble Calcium</u>												
426	5.86 s	-4.92										
169	4.03 s	-10.21										
484	4.02 s	-10.25										
Meth: 121.00 PCT												
<u>Acid Soluble Magnesi</u>												
AA	0.58 s	33.01										
169	0.37 S	15.10										
177	0.22	1.72										
028	0.21	.78										
397	0.20	.32										
Avg	0.20											
105	0.19	-.27										
029	0.20	-.32										
481	0.19	-1.08										
043	0.19	-1.08										
040	0.19	-1.16										
309	0.09 S	-9.43										
Meth: 121.30 PCT												
<u>Acid Soluble Magnesi</u>												
ICP	2.33 s	164.42										
432	0.30 s	7.53										
422	0.27 s	5.25										
231	0.24 A	3.29										
351	0.23 R	2.37										
041	0.23 R	2.34										
426	0.22	2.05										
479	0.22	1.82										
354	0.22	1.65										
450	0.22	1.32										
472	0.21 R	1.24										
390	0.21	.88										
106	0.21	.88										
027	0.20	.73										
055	0.21	.63										
Meth: 121.30 PCT												
<u>Acid Soluble Magnesi</u>												
ICP	0.32 s	9.38										
460	0.30 s	7.53										
422	0.27 s	5.24										
231	0.24 A	3.26										
351	0.23 R	2.35										
041	0.23 R	2.32										
426	0.22	2.01										
479	0.22	1.79										
354	0.22	1.62										
042	0.22	1.62										
177	0.22	1.42										
450	0.22	1.29										
472	0.21 R	1.22										
390	0.21	.84										
137	0.21	.84										
106	0.21	.84										
027	0.20	.73										
096	0.21	.59										
028	0.21	.59										
055	0.21	.59										
397	0.20	.16										
433	0.18	-1.55										
230	0.18	-1.67										
420	0.17	-2.40										
Meth: 121.99 PCT												
<u>Acid Soluble Magnesi</u>												
Other	0.32 S	18.19										
460	0.22	.87										
Avg	0.22											
137	0.21	-.87										
Meth: 121.XX PCT												
<u>Acid Soluble Magnesi</u>												
460	0.32 s	9.38										
432	0.30 s	7.53										
422	0.27 s	5.24										
231	0.24 A	3.26										
351	0.23 R	2.35										
041	0.23 R	2.32										
426	0.22	2.01										
479	0.22	1.79										
354	0.22	1.62										
042	0.22	1.62										
177	0.22	1.42										
450	0.22	1.29										
472	0.21 R	1.22										
390	0.21	.84										
137	0.21	.84										
106	0.21	.84										
027	0.20	.73										
096	0.21	.59										
028	0.21	.59										
055	0.21	.59										
397	0.20	.16										
433	0.18	-1.55										
230	0.18	-1.67										
420	0.17	-2.40										
Meth: 121.XX PCT												
<u>Acid Soluble Magnesi</u>												
ICP	0.20	1.76 s										
136	2.30	.87										
Avg	1.61											
481	0.93	-.87										
Meth: 151.00 PPM												
<u>Arsenic</u>												
Atomic Absorption	136	2.30										
Avg	1.61											
481	0.93	-.87										
Meth: 144.02 PCT												
<u>Sulfur</u>												
Gravimetric	292	1.50										
292	1.50	-.71										
Meth: 144.99 PCT												
<u>Sulfur</u>												
Other	1.76 s	4.39										
009	1.76 s	4.39										
102	1.56	1.34										
390	1.55	1.13										
354	1.51	.62										
422	1.48	.39										
472	1.49	.29										
Avg	1.47											
389	1.46	-.31										
Meth: 144.XX PCT												
<u>Sulfur</u>												
009	1.76 s	4.74										
102	1.56	1.47										
390	1.55	1.24										
354	1.51	.69										
422	1.48	.42										
292	1.50	.39										
472	1.49	.34										
Avg	1.47											
389	1.46	-.29										
232	1.46	-.55										
105	1.43	-.77										
096	1.39	-1.45										
393	1.40	-1.67										
Meth: 151.30 PPM												
<u>Arsenic</u>												
ICP	368	4.15										
450	2.50	.52										
Avg	2.30											
096	2.10	-.19										
393	2.16	-.23										
230	1.96	-.35										
102	0.94	-1.32										

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 151.99 PPM											
<u>Arsenic</u>											
Other			389	0.004	-.48	009	2.24 A	6.69	Meth: 181.99 PPM		
231	1.97	.71	232	0.004	-.51	035	1.35	2.01	Chromium		
Meth: 151.99 PPM											
<u>Arsenic</u>											
368	4.15	2.16	232	1.30	1.61	230	24.45	-1.12	ICP		
450	2.50 R	.68	393	1.20	1.13	102	24.36	-.60	Meth: 202.30 PPM		
136	2.30	.24	096	1.00	.54	232	23.90	-.87	Acid Soluble Cobalt		
393	2.16	.21	247	1.05	.39	393	23.58	-.95	ICP		
096	2.10	.04	Avg	1.00	.02	105	23.77	-1.51	ICP		
Avg	2.06		450	0.95	-.37	Meth: 191.99 PPM			Meth: 202.30 PPM		
231	1.97	-.10	368	0.90	-.52	Chromium			Acid Soluble Cobalt		
230	1.96	-.14	231	0.90	-.52	Other			ICP		
102	0.94	-1.16	136	0.85	-.83	231 10.96 S			009 19.43 1.05		
481	0.93	-1.17	230	0.84	-.84	Meth: 191.99 PPM			233 19.35 1.03		
Meth: 165.00 PCT											
<u>Acid Soluble Boron</u>											
Spectrometric			105	22.78 s	55.13	Meth: 202.99 PPM			Acid Soluble Cobalt		
105	0.005	.71	009	2.24	2.76	Chromium			Other		
Meth: 165.99 PCT											
<u>Acid Soluble Boron</u>											
354	0.020 s	43.37	035	1.35	.59	Meth: 202.99 PPM			231 4.96 .71		
422	0.004	1.62	232	1.30	.37	Water Soluble Chlori			Meth: 202.30 PPM		
Avg	0.004		393	1.20	.20	Titrimetric			Acid Soluble Cobalt		
009	0.004	-.14	Avg	1.15		422 4.60 1.31			ICP		
389	0.004	-.56	106	1.00	-.38	Avg 4.30			009 19.43 .75		
232	0.004	-.73	096	1.00	-.46	105 4.15 -.59			233 19.35 .73		
Meth: 165.99 PCT											
<u>Acid Soluble Boron</u>											
Other			450	0.95	-.52	Meth: 191.00 PPM			Meth: 202.30 PPM		
354	0.020 s	43.37	368	0.90	-.63	Chromium			Acid Soluble Cobalt		
422	0.004	1.62	230	0.84	-.78	Atomic Absorption			ICP		
Avg	0.004		102	0.83	-.82	481 30.00 .00			009 19.43 .75		
009	0.004	-.14	Meth: 181.99 PPM			Meth: 191.30 PPM			233 19.35 .73		
389	0.004	-.56	Cadmium			Chromium			450 19.00 .67		
232	0.004	-.73	Other			Meth: 191.30 PPM			057 18.66 .60		
Meth: 165.99 PCT											
<u>Acid Soluble Boron</u>											
354	0.020 s	43.37	484	3.29 S	52.22	Meth: 202.00 PPM			096 18.50 .58		
422	0.004	1.62	Avg	0.90		ICP			037 16.77 .26		
Avg	0.004		231	0.90	-.71	035 43.85 s 9.18			368 16.70 .25		
009	0.004	-.14	106	30.00 R	2.69	106 30.00 R 2.69			035 15.80 .11		
389	0.004	-.56	037	29.12	1.59	037 29.12 1.59			Avg 15.39		
232	0.004	-.73	009	28.58	1.36	009 28.58 1.36			230 14.55 -.16		
Meth: 165.99 PCT											
<u>Acid Soluble Boron</u>											
354	0.020 s	43.37	105	22.78 s	118.18	Meth: 181.99 PPM			102 11.78 -.67		
422	0.004	1.62	484	3.29 s	12.43	Cadmium			232 11.35 -.75		
Avg	0.004		105	22.78 s	118.18	105 27.00 .61			422 10.00 -1.00		
009	0.004	-.48	484	3.29 s	12.43	096 26.40 .33			393 7.50 -1.46		

\* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 202.XX PPM														
<u>Acid Soluble Cobalt</u>														
231	4.96	-1.93												
Meth: 221.99 PCT														
<u>Acid Soluble Copper</u>														
231	0.0200	.00												
484	0.0030 S	.00												
Avg	0.0200													
Meth: 221.XX PCT														
<u>Acid Soluble Copper</u>														
393	1.7750 s	1272.90												
234	1.6050 s	1149.64												
057	0.1130 s	95.15												
422	0.0233	2.29												
255	0.0210 R	1.59												
230	0.0221	1.49												
247	0.0216	1.11												
433	0.0215	1.09												
009	0.0206	.75												
402	0.0205	.47												
102	0.0205	.47												
043	0.0205	.47												
450	0.0205	.47												
233	0.0205	.32												
Avg	0.0201													
095	0.0201	-.05												
231	0.0200	-.06												
481	0.0200	-.06												
354	0.0200	-.06												
105	0.0198	-.25												
368	0.0198	-.36												
232	0.0192	-.75												
389	0.0190	-.79												
131	0.0185	-1.20												
472	0.0185	-1.21												
022	0.0180	-1.56												
035	0.0176	-1.83												
041	0.0195 R	-3.29												
484	0.0030 s	-12.39												
Meth: 221.30 PCT														
<u>Acid Soluble Copper</u>														
393	1.7750 s	1124.06												
057	0.1130 s	84.00												
422	0.0233	1.99												
255	0.0210	1.39												
230	0.0221	1.28												
247	0.0216	.94												
433	0.0215	.93												
009	0.0206	.65												
102	0.0205	.40												
402	0.0205	.40												
450	0.0205	.40												
233	0.0205	.25												
Avg	0.0201													
095	0.0201	-.07												
354	0.0200	-.09												
368	0.0198	-.34												
232	0.0192	-.69												
389	0.0190	-.73												
131	0.0185	-1.09												
472	0.0185	-1.10												
022	0.0180	-1.41												
035	0.0176	-1.65												
041	0.0195 R	-2.91												
Meth: 241.00 PCT														
<u>Acid Soluble Iron</u>														
105	1.84	.90												
028	1.80	.76												
177	1.79	.72												
460	1.72	.49												
043	1.71	.46												
029	1.68	.46												
Avg	1.56													
169	1.45	-.34												
397	1.11 X	-1.39												
481	0.93	-1.97												
Meth: 241.30 PCT														
<u>Acid Soluble Iron</u>														
035	1.92	1.26												
117	1.90	1.17												
106	1.87	1.09												
027	1.85	1.01												
055	1.82	.96												
057	1.76	.79												
131	1.78	.79												
450	1.75	.70												
324	1.75	.69												
095	1.74	.66												
233	1.73	.64												
157	1.73	.63												
432	1.72	.63												
009	1.70	.59												
479	1.71	.58												
360	1.71	.57												
354	1.70	.56												
426	1.68	.50												
041	1.63	.39												
096	1.61	.34												
351	1.61	.28												
037	1.61	.27												
Avg	1.53													
Meth: 241.30 PCT														
<u>ICP</u>														
292	0.69	-2.67												
300	0.41 s	-3.54												
393	0.36 s	-3.70												
Meth: 241.99 PCT														
<u>Acid Soluble Iron</u>														
484	2.12	.80												
042	1.93	.48												
Avg	1.64													
137	0.88	-1.28												
Meth: 241.XX PCT														
<u>Acid Soluble Iron</u>														
484	2.12	1.74												
042	1.93	1.17												
035	1.92	1.15												
117	1.90	1.07												
106	1.87	.99												
105	1.84	.92												
027	1.85	.92												
055	1.82	.87												
028	1.80	.79												
Meth: 241.XX PCT														
<u>Acid Soluble Iron</u>														
022	1.48	-.16												
102	1.46	-.24												
255	1.44	-.29												
390	1.49 R	-.36												
422	1.39	-.43												
368	1.35	-.61												
433	1.31	-.70												
291	1.27	-.81												
232	1.20	-1.04												
247	1.18	-1.10												
230	1.16	-1.16												
402	1.11	-1.32												
231	0.94	-1.88												
472	0.78	-2.38												
029	0.69	-2.67												
426	0.41 s	-3.54												
041	0.36 s	-3.70												
Meth: 241.99 PCT														
<u>Other</u>														
351	1.61	.24												
037	1.61	.23												
Avg	1.54													
022	1.48	-.18												
102	1.46	-.24												
169	1.45	-.25												
255	1.44	-.30												
390	1.49 R	-.35												
422	1.39	-.43												
368	1.35	-.60												
433	1.31	-.68												
291	1.27	-.79												
232	1.20	-.99												
247	1.18	-1.05												
230	1.16	-1.11												
397	1.11 X	-1.26												
402	1.11	-1.26												
231	0.94	-1.78												
481	0.93	-1.81												

\* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	
Meth: 241.XX PCT												
Acid Soluble Iron												
137	0.88	-1.94										Meth: 289.XX PPM
472	0.78	-2.25										Molybdenum
292	0.69	-2.52										231 4.48 -1.33
300	0.41 A	-3.34										106 5.00 -1.44
393	0.36 s	-3.49										105 4.31 -1.56
Meth: 251.00 PPM												
Lead												
450	6.00	.79										422 5.50 R -3.17
481	5.34	.13										Meth: 291.30 PPM
230	5.28	.08										Nickel
Avg	5.26											ICP
Atomic Absorption												
136	25.00 S	146.56										035 18.25 s 2.88
481	5.34	.71										105 15.67 1.44
Avg	5.34											450 13.50 .64
Meth: 251.30 PPM												
Lead												
009	10.99 s	5.38										009 13.48 .61
232	6.90	1.55										233 12.93 .43
105	6.28	.89										368 12.40 .23
247	6.15	.76										037 12.16 .18
450	6.00	.62										Avg 11.88
Avg	5.35											102 11.45 -.16
Meth: 261.30 PCT												
Acid Soluble Manganese												
041	0.029	.98										230 11.30 -.22
009	0.030	.95										106 11.50 -.24
389	0.028	.86										232 11.45 -.33
105	0.028	.59										393 4.82 -2.67
037	0.028	.23										247 4.56 s -3.08
Avg	0.027											Meth: 291.99 PPM
Meth: 289.99 PPM												
Acid Soluble Manganese												
102	0.026	-.36										Nickel
131	0.026	-.45										Other
422	0.025	-.55										231 6.26 .71
022	0.026	-.57										Meth: 291.XX PPM
232	0.024	-1.02										Nickel
393	0.020	-2.42										035 18.25 R 2.68
484	0.010 s	-5.80										105 15.67 1.43
Avg	0.027											450 13.50 .72
Meth: 281.30 PPM												
Mercury												
232	5.61	.14										009 13.48 .69
Avg	5.53											233 12.93 .53
Meth: 289.30 PPM												
Molybdenum												
057	7.03 s	2.82										368 12.40 .35
247	6.55	1.58										037 12.16 .28
433	6.62	1.33										232 11.45 -.33
035	6.39	1.06										393 4.82 -2.67
450	6.00	.51										247 4.56 s -3.08
393	5.78	.22										Meth: 289.99 PPM
Avg	5.61											Molybdenum
232	5.61	-.11										057 7.03 R 2.78
096	5.50	-.20										247 6.55 1.60
102	5.50	-.26										433 6.62 1.38
368	5.60	-.40										035 6.39 1.12
230	5.21	-.53										450 6.00 .59
009	4.90	-.95										368 5.60 .39
106	5.00	-1.54										393 5.78 .31
105	4.31	-1.72										232 5.61 .14
422	5.50 R	-3.30										009 13.48 .69
Meth: 289.99 PPM												
Molybdenum												
231	4.48	.71										233 12.93 .53
Other												368 12.40 .35
Meth: 289.XX PPM												
Molybdenum												
057	7.03 R	2.78										037 12.16 .28
247	6.55	1.60										232 11.45 -.33
433	6.62	1.38										393 4.82 -2.67
035	6.39	1.12										247 4.56 s -3.08
450	6.00	.59										Meth: 291.99 PPM
368	5.60	.39										Nickel
393	5.78	.31										035 18.25 R 2.68
232	5.61	.14										105 15.67 1.43
Avg	5.53											450 13.50 .72
Meth: 281.30 PPM												
Mercury												
096	5.50	-.13										009 13.48 .69
102	5.50	-.21										233 12.93 .53
393	0.72	.87										368 12.40 .35
Avg	0.41											037 12.16 .28
450	0.10	-.87										232 11.45 .25

\* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits

Laboratory Averages & Accuracy Indexes

Lab Average\* Index Lab Average\* Index Lab Average\* Index Lab Average\* Index

Meth: 291.XX PPM

Nickel	Lab Average*	Index
106	11.50	.17
102	11.45	.03
Avg	11.41	
230	11.30	-.05
231	6.26	-1.73
393	4.82	-2.21
247	4.56 R	-2.59

Meth: 301.30 PPM

Selenium	Lab Average*	Index
ICP	0.83	.71

Meth: 311.99 PCT

Sodium	Lab Average*	Index
Other		
422	0.23 s	44.42
057	0.06	.79
232	0.06	.56
009	0.06	.23
Avg	0.06	
035	0.05	-1.59

Meth: 321.00 PCT

Acid Soluble Zinc	Lab Average*	Index
Atomic Absorption		
043	0.084	.86
105	0.083	.58
Avg	0.083	
481	0.080	-1.19

Meth: 321.30 PCT

Acid Soluble Zinc	Lab Average*	Index
ICP		
389	0.810 s	117.76
368	0.101 R	3.27
390	0.092	1.74
095	0.092	1.50

Meth: 321.30 PCT

Acid Soluble Zinc	Lab Average*	Index
ICP		
354	0.090	1.19
232	0.083 R	1.17
037	0.089	1.05
450	0.088	.94
292	0.085	.90
057	0.086	.54
022	0.085	.45
472	0.084	.27
131	0.084	.20
233	0.084	.20
247	0.084	.20
402	0.083	.06
Avg	0.083	
096	0.081	-.29
422	0.080	-.43
035	0.080	-.45
255	0.080	-.46
041	0.080	-.89
102	0.076	-1.09
433	0.074	-1.48
230	0.072	-1.79
105	0.071	-1.81
027	0.059 s	-4.00

Meth: 321.99 PCT

Acid Soluble Zinc	Lab Average*	Index
Other		
231	0.085	.71
Avg	0.085	
484	0.015 S	-49.62

Meth: 321.XX PCT

Acid Soluble Zinc	Lab Average*	Index
ICP		
354	0.090	1.41
232	0.083 R	1.34
037	0.089	1.25
450	0.088	1.13
292	0.085	1.04
057	0.086	.67
022	0.085	.56
231	0.085	.52
043	0.084	.36
472	0.084	.36
131	0.084	.28
233	0.084	.28
247	0.084	.27
105	0.083	.25
402	0.083	.12
Avg	0.082	
096	0.081	-.29
481	0.080	-.43
422	0.080	-.43
035	0.080	-.46
255	0.080	-.47
041	0.080	-.98
102	0.076	-1.19
433	0.074	-1.63
230	0.072	-1.99
105	0.071	-2.00
027	0.059 s	-4.50

Meth: 325.99 PCT

Water Soluble Zinc	Lab Average*	Index
Other		
450	0.088	.71

\* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits

## Method Evaluation - Z Values Based on 1 Reports

Method Code	Number Of Labs	Avg Bias of Labs	Std Dev of Biases	Method Code	Number Of Labs	Avg Bias of Labs	Std Dev of Biases	Std Dev Within Labs
001.10	6	0.00	1.04	101.XX	51	-	2.44	0.49
001.99	5	0.00	1.03	121.00	11	3.53	11.26	0.87
001.XX	11	0.00	1.02	121.30	37	5.00	26.99	0.56
002.99	3	0.00	1.12	121.99	3	6.06	10.54	0.00
002.XX	3	0.00	1.12	121.XX	51	4.51	23.53	0.61
005.00	2	0.00	1.22	144.99	10	0.44	1.62	0.47
005.99	4	0.00	1.08	144.XX	12	0.39	1.61	0.47
005.XX	6	0.00	1.05	151.00	2	0.00	1.22	0.02
010.11	7	-	26.24	151.30	6	0.00	1.02	0.22
010.12	5	-	4.50	151.XX	9	0.05	0.98	0.19
010.60	53	-	2.49	165.99	5	8.673	19.403	0.650
010.99	7	0.45	1.52	165.XX	6	-	0.956	0.068
010.XX	71	-	7.48	181.00	2	0.00	0.78	0.67
020.10	3	1.55	2.74	181.30	12	4.56	15.82	1.95
020.20	9	0.73	4.13	181.99	2	25.90	36.62	4.72
020.40	7	-	1.38	181.XX	16	8.52	29.22	3.61
020.50	6	-	0.96	190.00	3	0.00	1.08	0.24
020.99	2	0.00	0.00	190.XX	3	0.00	1.08	0.24
020.XX	26	4.73	24.96	191.30	12	0.86	2.55	1.31
040.XX	2	0.00	1.22	191.XX	14	0.11	3.00	1.17
041.10	4	0.29	1.08	202.30	13	0.00	1.02	0.07
041.40	3	0.00	1.11	202.XX	15	0.00	1.02	0.05
041.50	7	0.00	1.02	221.00	4	844.75	1689.5	16.000
041.99	2	0.00	0.41	221.30	22	53.779	239.38	12.680
041.XX	16	-	1.00	221.99	2	0.0000	0.0000	0.0000
050.00	13	-	1.79	221.XX	28	88.490	317.82	12.892
050.30	7	0.00	1.00	241.00	9	0.00	1.02	0.13
050.31	3	0.00	1.11	241.30	39	-	1.26	0.12
050.50	9	-	2.53	241.99	3	0.00	1.12	0.03
050.51	9	-	1.13	241.XX	51	-	1.17	0.11
050.60	3	0.00	1.09	251.00	2	73.19	103.50	5.29
050.61	8	0.00	0.98	251.30	11	0.35	1.94	0.29
050.99	21	0.25	1.61	251.99	2	0.00	0.90	0.59
050.XX	70	0.01	1.50	251.XX	15	1.69	5.62	0.40
060.00	4	0.00	1.01	261.30	13	0.076	0.881	0.673
060.XX	4	0.00	1.01	261.99	3	-	2.004	0.069
101.00	11	-	2.40	261.XX	17	-	1.685	0.501
101.30	35	0.08	1.62	281.30	2	0.00	1.22	0.02
101.99	5	-	7.69	281.XX	2	0.00	1.22	0.02

## Method Evaluation - Z Values Based on 1 Reports

Method Code	Number Of Labs	Avg Bias of Labs	Std Dev of Biases	Std Dev Within Labs	Method Code	Number Of Labs	Avg Bias of Labs	Std Dev of Biases	Std Dev Within Labs
289.30	15	0.11	0.95	1.11					
289.XX	16	0.12	0.97	1.03					
291.30	13	- 0.03	1.41	0.59					
291.XX	14	0.00	1.30	0.50					
311.99	5	8.88	19.87	0.69					
311.XX	5	8.88	19.87	0.69					
321.00	3	0.000	1.039	0.336					
321.30	26	4.502	23.136	0.597					
321.99	2	- 24.74	35.000	2.550					
321.XX	30	4.125	24.704	0.687					