

- Pass 1 Results for 78 Labs - - Pass 2 Results for 78 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, Other		001.99	1	0.02	0.02	0.03	1	0.02	0.02	0.03
Total Nitrogen, Modified Comprehensive	978.02	010.11	1	0.07	0.00	0.01	1	0.07	0.00	0.01
Total Nitrogen, Salicylic	955.04D	010.12	1	0.08	0.01	0.01	1	0.08	0.01	0.01
Total Nitrogen, Combustion		010.60	13	0.10	0.10	0.04	12	0.09	0.10	0.02
Total Nitrogen, Other		010.99	3	0.15	0.22	0.01	3	0.15	0.22	0.01
Method Group 010.XX PCT			18	0.11	0.12	0.03	17	0.10	0.12	0.02
Total Phosphate, Grav Quimociac	962.02	020.10	7	11.78	0.61	0.22	8	11.56	0.83	0.19
Total Phosphate, Spectrometric	958.01	020.20	14	12.25	0.37	0.11	13	12.30	0.33	0.07
Total Phosphate, Automated	978.01	020.40	7	12.38	0.47	0.12	6	12.40	0.49	0.05
Total Phosphate, ICP		020.50	14	12.19	0.71	0.28	13	12.27	0.64	0.21
Total Phosphate, Other		020.99	2	11.82	0.29	0.02	2	11.82	0.29	0.02
Method Group 020.XX PCT			44	12.15	0.57	0.18	39	12.25	0.47	0.12
Insoluble Phosphate, Grav Quimociac	963.03C	030.10	1	5.21	0.02	0.03	1	5.21	0.02	0.03
Insoluble Phosphate, ICP		030.50	2	3.92	2.40	0.09	2	3.92	2.40	0.09
Insoluble Phosphate, Other		030.99	1	5.09	0.01	0.02	1	5.09	0.01	0.02
Method Group 030.XX PCT			4	4.53	1.70	0.06	4	4.53	1.70	0.06
InDir Available Phosphate, Grav Quim	960.02	040.10	1	6.88	0.01	0.02	1	6.88	0.01	0.02
InDir Available Phosphate, ICP		040.50	1	3.17	0.01	0.01	1	3.17	0.01	0.01
InDir Available Phosphate, Other		040.99	2	6.64	0.51	0.08	2	6.64	0.51	0.08
Method Group 040.XX PCT			4	5.83	1.68	0.05	4	5.83	1.68	0.05
Dir Available Phosphate, Grav Quimociac	960.03E	041.10	12	8.10	1.85	0.23	11	7.81	1.63	0.13
Dir Available Phosphate, Spectrometric	960.03D	041.20	2	6.85	0.10	0.13	2	6.85	0.10	0.13
Dir Available Phosphate, Automated	978.01	041.40	3	7.68	2.31	0.11	3	7.68	2.31	0.11
Dir Available Phosphate, ICP		041.50	13	7.99	1.43	0.21	12	8.04	1.47	0.13
Dir Available Phosphate, EDTA Extract	993.01	041.60	13	10.01	1.38	0.16	13	10.01	1.38	0.16
Dir Available Phosphate, Other		041.99	2	10.48	0.34	0.42	2	10.48	0.34	0.42
Method Group 041.XX PCT			45	8.64	1.85	0.20	43	8.61	1.83	0.15
Water Soluble Phosphate, Spectrometric	970.01	048.20	1	0.33	0.00	0.00	1	0.33	0.00	0.00
Water Soluble Phosphate, ICP		048.50	1	9.39	0.15	0.21	1	9.39	0.15	0.21
Method Group 048.XX PCT			2	4.86	5.23	0.10	2	4.86	5.23	0.10
Soluble Potash, STPB Oxalate	958.02	050.00	13	6.19	0.49	0.13	13	6.19	0.49	0.13
Soluble Potash, STPB Citrate	969.04	050.10	1	7.11	0.02	0.03	1	7.11	0.02	0.03
Soluble Potash, AA (Oxalate)		050.30	11	6.00	0.64	0.14	11	6.00	0.64	0.14
Soluble Potash, AA (Citrate)		050.31	2	5.22	0.20	0.15	2	5.22	0.20	0.15
Soluble Potash, ICP (Oxalate)		050.50	9	6.57	0.88	0.14	8	6.64	0.91	0.10
Soluble Potash, ICP (Citrate)		050.51	11	6.84	0.62	0.07	11	6.84	0.62	0.07
Soluble Potash, Flame (Oxalate)	983.02(a)	050.60	4	6.14	0.73	0.05	4	6.14	0.73	0.05
Soluble Potash, Flame (Citrate)	983.02(b)	050.61	8	6.55	0.17	0.07	8	6.55	0.17	0.07
Soluble Potash, Other		050.99	21	6.77	1.06	0.08	19	6.75	1.10	0.06

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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 050.XX PCT			81	6.48	0.82	0.10	78	6.48	0.84	0.09
Free Water, Vacuum Oven	965.08B	060.00	3	1.34	0.13	0.06	3	1.34	0.13	0.06
Acid Soluble Calcium, AA	945.04	101.00	8	14.80	0.71	0.29	8	14.80	0.71	0.29
Acid Soluble Calcium, ICP		101.30	32	15.21	0.68	0.28	29	15.26	0.67	0.18
Acid Soluble Calcium, Other		101.99	5	15.07	0.69	0.21	5	15.07	0.69	0.21
Method Group 101.XX PCT			46	15.06	0.80	0.27	42	15.15	0.70	0.21
Acid Soluble Magnesium, AA	984.01	121.00	9	2.32	0.09	0.04	9	2.32	0.09	0.04
Acid Soluble Magnesium, ICP		121.30	33	2.36	0.11	0.04	32	2.36	0.11	0.04
Acid Soluble Magnesium, Other		121.99	3	2.30	0.34	0.07	3	2.30	0.34	0.07
Method Group 121.XX PCT			45	2.35	0.13	0.04	42	2.35	0.11	0.04
Water Soluble Magnesium, ICP		131.30	4	0.91	1.01	0.06	4	0.91	1.01	0.06
Sulfur, Gravimetric	980.02a	144.01	11	1.56	0.08	0.03	11	1.56	0.08	0.03
Sulfur, Gravimetric	980.02b	144.02	1	1.88	0.01	0.01	1	1.88	0.01	0.01
Sulfur, Other		144.99	27	1.54	0.12	0.03	26	1.55	0.12	0.02
Method Group 144.XX PCT			39	1.55	0.12	0.03	38	1.56	0.12	0.03
Arsenic, Atomic Absorption		151.00	1	16.40	0.14	0.20	1	16.40	0.14	0.20
Arsenic, ICP		151.30	11	17.27	1.77	0.91	11	17.27	1.77	0.91
Arsenic, Other		151.99	1	16.95	0.52	0.73	1	16.95	0.52	0.73
Method Group 151.XX PPM			13	17.18	1.64	0.84	12	17.38	1.48	0.67
Acid Soluble Boron, Spectrometric	982.01	165.00	4	0.010	0.005	0.001	4	0.010	0.005	0.001
Acid Soluble Boron, Other		165.99	20	0.011	0.002	0.001	19	0.011	0.002	0.001
Method Group 165.XX PCT			24	0.011	0.003	0.001	23	0.010	0.003	0.001
Water Soluble Boron, Other		171.99	2	0.007	0.005	0.000	2	0.007	0.005	0.000
Cadmium, Atomic Absorption		181.00	1	0.50	0.14	0.20	1	0.50	0.14	0.20
Cadmium, ICP		181.30	8	0.52	0.37	0.10	8	0.52	0.37	0.10
Cadmium, Other		181.99	1	0.46	0.00	0.01	1	0.46	0.00	0.01
Method Group 181.XX PPM			10	0.52	0.33	0.10	10	0.52	0.33	0.10
Water Soluble Chlorine, Titrimetric	928.02	190.00	2	1.22	1.39	0.01	2	1.22	1.39	0.01
Chromium, ICP		191.30	11	318.65	98.80	14.46	11	318.65	98.80	14.46
Chromium, Other		191.99	1	67.65	3.67	5.20	1	67.65	3.67	5.20
Method Group 191.XX PPM			12	297.73	118.05	13.69	12	297.73	118.05	13.69
Acid Soluble Cobalt, AA		202.00	1	270.50	0.71	1.00	1	270.50	0.71	1.00
Acid Soluble Cobalt, ICP	965.11	202.30	13	173.46	87.00	10.84	13	173.46	87.00	10.84
Acid Soluble Cobalt, Other		202.99	1	19.63	0.30	0.43	1	19.63	0.30	0.43
Method Group 202.XX PPM			15	169.67	93.76	9.49	14	157.79	85.02	7.88
Acid Soluble Copper, Atomic Absorption	975.01	221.00	7	0.1160	0.0034	0.0024	7	0.1160	0.0034	0.0024
Acid Soluble Copper, ICP		221.30	31	0.1147	0.0072	0.0026	27	0.1158	0.0067	0.0016
Acid Soluble Copper, Other		221.99	5	0.1100	0.0147	0.0024	4	0.1138	0.0138	0.0005
Method Group 221.XX PCT			44	0.1149	0.0088	0.0025	39	0.1162	0.0080	0.0016

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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
Acid Soluble Iron, Atomic Absorption ..	980.01	241.00	7	0.81	0.09	0.02	6	0.82	0.09	0.01
Acid Soluble Iron, ICP		241.30	37	0.77	0.09	0.02	36	0.76	0.08	0.01
Acid Soluble Iron, Other		241.99	4	0.63	0.12	0.02	4	0.63	0.12	0.02
Method Group 241.XX PCT			48	0.76	0.10	0.02	45	0.76	0.08	0.01
Lead, ICP		251.30	13	48.78	4.90	2.50	13	48.78	4.90	2.50
Lead, Other		251.99	1	49.13	1.18	1.67	1	49.13	1.18	1.67
Method Group 251.XX PPM			14	48.81	4.72	2.44	14	48.81	4.72	2.44
Acid Soluble Manganese, AA	972.02a	261.00	7	0.147	0.005	0.002	6	0.147	0.005	0.001
Acid Soluble Manganese, ICP	972.02a	261.30	35	0.141	0.009	0.003	32	0.141	0.009	0.002
Acid Soluble Manganese, ICP	972.02b	261.31	1	0.150	0.005	0.007	1	0.150	0.005	0.007
Acid Soluble Manganese, Other		261.99	3	0.146	0.008	0.007	3	0.146	0.008	0.007
Method Group 261.XX PCT			47	0.142	0.009	0.003	44	0.142	0.009	0.002
Water Soluble Manganese, ICP	972.03	271.30	1	0.109	0.002	0.002	1	0.109	0.002	0.002
Mercury, Atomic Absorption		281.00	1	0.03	0.00	0.00	1	0.03	0.00	0.00
Mercury, ICP		281.30	1	0.45	0.01	0.02	1	0.45	0.01	0.02
Mercury, Other		281.99	1	0.02	0.00	0.00	1	0.02	0.00	0.00
Method Group 281.XX PPM			3	0.17	0.22	0.01	3	0.17	0.22	0.01
Molybdenum, ICP		289.30	18	28.12	11.06	1.21	17	28.30	11.30	0.70
Molybdenum, Other		289.99	1	15.26	0.56	0.79	1	15.26	0.56	0.79
Method Group 289.XX PPM			19	27.44	11.14	1.19	18	27.58	11.38	0.70
Nickel, Atomic Absorption		291.00	1	189.50	0.71	1.00	1	189.50	0.71	1.00
Nickel, ICP		291.30	12	161.77	18.13	5.98	11	162.94	18.22	4.54
Method Group 291.XX PPM			13	163.90	18.96	5.59	12	165.15	18.95	4.25
Selenium, ICP		301.30	3	3.07	1.37	0.06	3	3.07	1.37	0.06
Selenium, Other		301.99	2	4.12	0.55	0.27	2	4.12	0.55	0.27
Method Group 301.XX PPM			5	3.49	1.20	0.14	5	3.49	1.20	0.14
Sodium, Other		311.99	8	1.49	0.06	0.03	8	1.49	0.06	0.03
Method Group 311.XX PCT			8	1.49	0.06	0.03	8	1.49	0.06	0.03
Acid Soluble Zinc, Atomic Absorption ..	975.02	321.00	9	0.102	0.007	0.003	9	0.102	0.007	0.003
Acid Soluble Zinc, ICP		321.30	37	0.102	0.008	0.004	34	0.102	0.008	0.003
Acid Soluble Zinc, Other		321.99	2	0.100	0.012	0.000	2	0.100	0.012	0.000
Method Group 321.XX PCT			48	0.102	0.008	0.003	45	0.102	0.008	0.003
Water Soluble Zinc, ICP		325.30	2	0.094	0.010	0.003	2	0.094	0.010	0.003
Water Soluble Zinc, Other		325.99	2	0.094	0.017	0.004	2	0.094	0.017	0.004
Method Group 325.XX PCT			4	0.094	0.013	0.003	4	0.094	0.013	0.003

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 001.99 PCT														
Ammoniacal Nitrogen														
Other														
420	0.02	.71												
Meth: 010.11 PCT														
Total Nitrogen														
Modified Comprehensive														
260	0.07	.71												
Meth: 010.12 PCT														
Total Nitrogen														
Salicylic														
185	0.08	.71												
Meth: 010.60 PCT														
Total Nitrogen														
Combustion														
043	0.85 s	7.63												
247	0.26	1.68												
022	0.15 R	1.62												
354	0.25	1.56												
262	0.24	1.48												
422	0.11	.19												
Avg	0.09													
292	0.08	-.11												
007	0.07	-.31												
325	0.06	-.43												
042	0.05	-.68												
255	0.01	-.84												
009	0.01	-.84												
018	0.00	-.96												
420	0.00	-.96												
Meth: 010.99 PCT														
Total Nitrogen														
Other														
460	0.44	1.29												
Avg	0.15													
030	0.02	-.61												
Meth: 010.99 PCT														
Total Phosphate														
ICP														
390	13.25	1.54												
368	12.50	.36												
389	12.30	.16												
Avg	12.27													
422	12.25	-.05												
300	12.25	-.24												
247	12.02	-.39												
423	12.03	-.43												
444	12.01	-.43												
157	12.05	-.65												
451	11.74	-.84												
307	11.71	-.99												
402	11.58	-1.10												
432	11.08 R	-2.12												
291	6.51 s	-9.04												
255	5.01 s	-11.38												
Meth: 020.50 PCT														
Total Phosphate														
Other														
137	12.07	.86												
Avg	11.82													
460	11.58	-.87												
455	9.75 S	-7.24												
322	6.91 S	-17.15												
Meth: 020.99 PCT														
Total Phosphate														
Other														
137	12.07	.86												
Avg	11.82													
460	11.58	-.87												
455	9.75 S	-7.24												
322	6.91 S	-17.15												
Meth: 020.99 PCT														
Total Phosphate														
ICP														
114	20.12 s	16.63												
393	13.85 X	3.37												
390	13.25	2.11												
456	13.18	1.95												
309	12.97	1.51												
027	12.78	1.11												
234	12.60	.74												
406	12.58	.69												
324	12.55	.64												

* 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: 020.XX PCT														
Total Phosphate														
455	9.75 s	-5.29										Meth: 041.60 PCT		
322	6.91 s	-11.29										Dir Available Phosph		
291	6.51 s	-12.14										EDTA Extract		
255	5.01 s	-15.29										296	10.89	.64
Meth: 030.10 PCT														
Insoluble Phosphate														
090	5.21	.71										105	10.69	.49
Meth: 040.99 PCT														
InDir Available Phos														
247	7.08	.86										136	10.58	.41
Avg	6.64											351	10.37	.26
479	6.20	-.87										117	10.06	.18
Meth: 041.40 PCT														
Dir Available Phosph														
090	5.99	.87										Avg	10.01	
Avg	3.92											231	9.55	-.38
255	1.85	-.87										233	9.08	-.69
Meth: 041.50 PCT														
Dir Available Phosph														
090	6.88	.62										177	7.35	-1.94
Avg	6.20	.22										043	7.09	-2.12
255	5.83											Meth: 041.99 PCT		
Meth: 041.10 PCT														
Dir Available Phosph														
022	11.25 R	2.14										296	10.66	1.07
072	11.07	2.00										Avg	10.48	
105	10.60	1.71										230	10.30	-.60
055	8.78	.59										Meth: 041.XX PCT		
049	8.04	.16										Dir Available Phosph		
Avg	7.81											Other		
131	7.39	-.26										034	11.39	1.52
086	7.36	-.30										022	11.25 R	1.48
102	6.70	-.69										018	11.25	1.44
009	6.61	-.74										072	11.07	1.34
177	6.61	-.74										037	10.94	1.27
254	6.50	-.81										029	10.93	1.27
185	6.30	-.93										296	10.89	1.24
Meth: 041.60 PCT														
Dir Available Phosph														
090	6.88	.71										105	10.69	1.14
Meth: 048.20 PCT														
Water Soluble Phosph														
090	6.88	.71										296	10.66	1.13
Spectrometric														
420	0.33	.00										072	10.62	1.09
Meth: 041.20 PCT														
Dir Available Phosph														
262	6.90	1.09										105	10.60	1.09
Avg	6.85											136	10.58	1.08
030	6.80	-.57										351	10.37	.96
Meth: 041.50 PCT														
Dir Available Phosph														
072	10.62	1.27										230	10.30	.92
Avg	7.68											023	10.29	.92
027	6.62	-.46										117	10.06	.80
131	5.80	-.81										029	10.93	.67
Meth: 041.20 PCT														
Dir Available Phosph														
023	10.29	1.52										055	9.86	.68
055	9.86	1.23										Meth: 041.60 PCT		
040	9.80	1.19										Dir Available Phosph		
423	9.14	.74										EDTA Extract		
377	8.77	.49										034	11.39	1.00
393	8.45	.28										018	11.25	.90
Avg	8.04											037	10.94	.90
360	7.36 R	-.59										029	10.93	.92
325	7.16	-.80										007	6.62	-.97
354	7.16	-.80										009	6.26	-1.21
043	7.09	-.83										368	6.21	-1.24
262	6.90	-.94										Meth: 041.60 PCT		
043	6.83	-.97										Dir Available Phosph		
030	6.80	-.99										EDTA Extract		
102	6.70	-1.05										034	11.39	1.00
007	6.62	-1.09										018	11.25	.90
027	6.62	-1.09										037	10.94	.90
009	6.61	-1.09										029	10.93	.92
177	6.61	-1.10										117	10.06	.80
254	6.50	-1.16										029	10.93	.67
185	6.30	-1.26										Meth: 041.60 PCT		
009	6.26	-1.29										Dir Available Phosph		
368	6.21	-1.31										EDTA Extract		
131	5.80	-1.54										034	11.39	1.00
Meth: 048.20 PCT														
Water Soluble Phosph														
420	0.33	.00										018	11.25	.90
Spectrometric														
420	0.33	.00										037	10.94	.67
Meth: 041.60 PCT														
Dir Available Phosph														
034	11.39	1.00										029	10.93	.67
018	11.25	.90										Meth: 041.50 PCT		
037	10.94	.90										Dir Available Phosph		
029	10.93	.92										EDTA Extract		
007	6.62	-.97										034	11.39	1.00
009	6.26	-1.21										018	11.25	.90
368	6.21	-1.24										037	10.94	.67
Meth: 041.60 PCT														
Dir Available Phosph														
034	11.39	1.00										029	10.93	.67
018	11.25	.90										Meth: 041.20 PCT		
037	10.94	.90										Dir Available Phosph		
029	10.93	.92										EDTA Extract		
007	6.62	-.97										034	11.39	1.00
009	6.26	-1.21										018	11.25	.90
368	6.21	-1.24										037	10.94	.67
Meth: 041.60 PCT														
Dir Available Phosph														
034	11.39	1.00										029	10.93	.67
018	11.25	.90										Meth: 041.50 PCT		
037	10.94	.90										Dir Available Phosph		
029	10.93	.92										EDTA Extract		
007	6.62	-.97										034	11.39	1.00
009	6.26	-1.21										018	11.25	.90
368	6.21	-1.24										037	10.94	.67
Meth: 041.60 PCT														
Dir Available Phosph														
034	11.39	1.00										029	10.93	.67
018	11.25	.90										Meth: 041.20 PCT		
037	10.94	.90										Dir Available Phosph		
029	10.93	.92										EDTA Extract		
007	6.62	-.97										034	11.39	1.00
009	6.26	-1.21										018	11.25	.90
368	6.21	-1.24										037	10.94	.67

* 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: 048.50 PCT											
Water Soluble Phosph											
ICP											
426	9.39	.71									
Meth: 048.XX PCT											
Water Soluble Phosph											
426	9.39	.87									
Avg	4.86										
420	0.33	-.87									
Meth: 050.00 PCT											
Soluble Potash											
STPB Oxalate											
470	7.25	2.17									
230	6.78	1.27									
049	6.34	.38									
055	6.28	.36									
233	6.21	.26									
114	6.31	.24									
Avg	6.19										
090	6.16	-.06									
009	6.10	-.20									
072	6.09	-.21									
231	6.07	-.26									
022	6.10	-.28									
211	5.58	-1.25									
102	5.22	-1.99									
Meth: 050.10 PCT											
Soluble Potash											
117	7.11	-.71									
Meth: 050.30 PCT											
Soluble Potash											
AA (Oxalate)											
023	6.87	1.36									
262	6.74	1.16									
157	6.70	1.12									
Meth: 050.31 PCT											
Soluble Potash											
AA (Citrate)											
030	5.38	.97									
Avg	5.22										
254	5.07	-.75									
Meth: 050.50 PCT											
Soluble Potash											
ICP (Oxalate)											
420	7.49	.93									
422	7.48	.93									
157	7.34	.77									
292	7.07	.47									
324	6.96	.35									
Avg	6.64										
390	6.20	-.50									
354	6.01	-.74									
426	5.54	-1.22									
055	5.05	-1.76									
Meth: 050.51 PCT											
Soluble Potash											
ICP (Citrate)											
389	7.77	1.50									
432	7.68	1.35									
423	7.65	1.30									
Meth: 050.51 PCT											
Soluble Potash											
ICP (Citrate)											
131	6.19	-2.16									
018	6.68	.77									
041	6.63	.44									
Avg	6.55										
456	6.52	-.20									
034	6.54	-.35									
095	6.49	-.37									
131	6.19	-2.16									
Meth: 050.60 PCT											
Soluble Potash											
Flame (Oxalate)											
309	6.91	1.06									
105	6.57	.59									
Avg	6.14										
406	5.96	-.25									
169	5.12	-1.40									
Meth: 050.61 PCT											
Soluble Potash											
Flame (Citrate)											
035	7.36	4.84									
029	6.70	.94									
037	6.66	.93									
018	6.68	.77									
041	6.63	.44									
Avg	6.55										
456	6.52	-.20									
034	6.54	-.35									
095	6.49	-.37									
131	6.19	-2.16									
Meth: 050.99 PCT											
Soluble Potash											
ICP (Citrate)											
393	7.28	.70									
Avg	6.84										
043	6.63	-.35									
007	6.59	-.41									
291	6.58	-.42									
377	6.46	-.61									
296	6.46	-.63									
009	6.09	-1.22									
368	6.07	-1.24									
Meth: 050.51 PCT											
Soluble Potash											
ICP (Citrate)											
177	7.75	.91									
131	7.64	.81									
260	7.54	.72									
232	7.51	.69									
451	7.49	.67									
042	7.45	.63									
368	7.42	.61									
450	7.40	.60									
402	7.39	.58									
307	7.20	.42									
137	7.06	.28									
Avg	6.75										
360	6.64	-.11									
460	6.60	-.13									
325	6.62	-.18									
072	6.36	-.35									
230	5.40	-1.22									
455	5.40	-1.23									
322	5.18	-1.43									
027	5.07	-1.53									
444	4.56	-1.99									
255	2.95	-3.45									
Meth: 050.99 PCT											
Soluble Potash											
Other											
247	8.56	2.49									
389	7.77	1.54									
177	7.75	1.52									
432	7.68	1.43									
423	7.65	1.39									
131	7.64	1.39									
260	7.54	1.27									
232	7.51	1.23									
420	7.49	1.20									
451	7.49	1.20									
422	7.48	1.20									
042	7.45	1.15									
Meth: 050.10 PCT											
Soluble Potash											
ICP (Citrate)											
247	8.56	1.65									

* 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: 050.XX PCT												
<u>Soluble Potash</u>												
055	6.28	-.31										Meth: 101.XX PCT
131	6.19	-.35										<u>Acid Soluble Calcium</u>
233	6.21	-.35										043 14.20 -1.37
390	6.20	-.36										042 14.00 -1.65
090	6.16	-.38										351 14.00 -1.65
009	6.10	-.46										029 13.87 -1.86
072	6.09	-.47										090 13.60 -2.23
040	6.10	-.47										426 12.40 A -3.96
022	6.10	-.47										247 12.19 s -4.26
009	6.09	-.48										255 5.84 s -13.37
231	6.07	-.49										Meth: 121.00 PCT
368	6.07	-.49										<u>Acid Soluble Magnesi</u>
406	5.96	-.62										AA
354	6.01 R	-.63										177 2.49 2.02
043	5.96	-.63										309 2.40 .86
351	5.81	-.80										296 2.33 .35
073	5.79	-.83										040 2.35 .29
234	5.70	-.93										169 2.32 .22
211	5.58	-1.08										Avg 2.32
426	5.54	-1.14										262 2.31 -.23
230	5.40	-1.29										043 2.26 -.76
455	5.40	-1.30										029 2.22 -1.17
030	5.38	-1.33										351 2.21 -1.20
102	5.22	-1.51										Meth: 121.30 PCT
322	5.18	-1.56										<u>Acid Soluble Magnesi</u>
169	5.12	-1.63										ICP
185	5.10	-1.65										114 3.14 s 6.84
254	5.07	-1.69										479 3.02 s 5.83
027	5.07	-1.69										041 2.88 s 4.59
055	5.05	-1.71										432 2.74 s 3.46
254	4.85	-1.95										422 2.64 2.49
444	4.56	-2.30										049 2.63 2.40
255	2.95 s	-4.22										390 2.49 1.13
Meth: 060.00 PCT												
<u>Free Water</u>												
<u>Vacuum Oven</u>												
479	1.43	.72										Meth: 101.XX PCT
Avg	1.34	-.30										<u>Acid Soluble Calcium</u>
456	1.18	-1.21										390 16.10 1.37
Meth: 101.00 PCT												
<u>Acid Soluble Calcium</u>												
040	15.63	1.20										420 16.00 1.22
055	15.49	.98										232 15.81 .95
177	15.40	.93										040 15.63 .77
296	15.22	.63										030 15.57 .75
Avg	14.80	-.91										037 15.64 .74
262	14.61	-.28										023 15.61 .69
043	14.20	-.85										423 15.60 .66
351	14.00	-1.12										137 15.60 .64
029	13.87	-1.33										231 15.59 .63
Meth: 101.30 PCT												
<u>Acid Soluble Calcium</u>												
479	19.95 s	7.00										460 15.50 .58
035	16.60	2.00										177 15.40 .55
422	16.42	1.73										444 15.53 .54
041	16.12	1.28										450 15.50 .53
390	16.10	1.26										055 15.49 .53
420	16.00	1.11										389 15.50 .52
232	15.81	.83										307 15.32 .50
037	15.64	.62										Avg 2.32
023	15.61	.56										262 2.31 -.23
423	15.60	.53										043 2.26 -.76
231	15.59	.49										029 2.22 -1.17
307	15.32	.46										351 2.21 -1.20
450	15.50	.40										Meth: 101.99 PCT
444	15.53	.40										<u>Acid Soluble Calcium</u>
389	15.50	.38										030 15.57 .85
027	15.38	.18										137 15.60 .77
Avg	15.26	.72										460 15.50 .69
Meth: 101.30 PCT												
<u>Acid Soluble Calcium</u>												
041	16.12	1.39										393 14.75 -.60
041	16.12	1.39										102 14.73 -.65
042	14.00	-1.54										422 2.64 2.49
030	15.57	.85										049 2.63 2.40
137	15.60	.77										390 2.49 1.13
460	15.50	.69										131 2.47 .96
Avg	15.07	-.58										027 2.46 .94
291	14.67	-.58										231 2.45 .76
042	14.00	-1.54										232 2.44 .73
Meth: 101.XX PCT												
<u>Acid Soluble Calcium</u>												
479	19.95 s	6.89										300 2.44 .71
035	16.60	2.08										
422	16.42	1.82										
041	16.12	1.39										
041	16.12	1.39										

* 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: 121.30 PCT															
Acid Soluble Magnesi															
ICP			114	3.14 s	7.24	Meth: 121.22 PCT									
291	2.44	.66	479	3.02 s	6.18	Acid Soluble Magnesi									
022	2.43	.65	041	2.88 s	4.89	420	2.27	-0.79	Meth: 144.01 PCT						
354	2.40	.34	432	2.74 s	3.71	043	2.26	-0.90	Sulfur						
450	2.39	.31	460	2.68 R	3.12	157	2.26	-0.90	Gravimetric						
360	2.38	.26	422	2.64	2.69	233	2.29 R	-0.91	Meth: 144.02 PCT						
037	2.38	.18	049	2.63	2.60	389	2.24	-1.06	Sulfur						
Avg	2.36		177	2.49	1.41	029	2.22	-1.24	Gravimetric						
009	2.35	-0.11	390	2.49	1.27	351	2.21	-1.28	Meth: 144.99 PCT						
393	2.35	-0.20	131	2.47	1.10	444	2.21	-1.29	Sulfur						
433	2.34	-0.20	027	2.46	1.08	102	2.20	-1.42	Other						
095	2.33	-0.30	231	2.45	.89	307	2.18	-1.56	Meth: 144.99 PCT						
423	2.33	-0.34	232	2.44	.85	292	2.17	-1.65	Sulfur						
023	2.36	-0.35	300	2.44	.84	042	1.94 A	-3.79	Other						
368	2.32	-0.35	291	2.44	.79	247	1.65 s	-6.45	377 2.99 s 12.47						
324	2.32	-0.36	022	2.43	.77	255	1.01 s	-12.35	360 1.79 2.04						
377	2.30	-0.58	354	2.40	.45	Meth: 131.30 PCT									
035	2.30	-0.58	309	2.40	.44	Water Soluble Magnes									
055	2.30	-0.59	450	2.39	.40	ICP									
420	2.27	-0.85	023	2.36	.37	090	2.21	1.29	023 1.63 .73						
233	2.29 R	-0.93	360	2.38	.33	426	1.40	.50	102 1.61 .60						
157	2.26	-0.95	037	2.38	.28	Avg	0.91		393 1.59 .38						
389	2.24	-1.10	393	2.38	.28	027	0.02	-0.88	037 1.58 .31						
444	2.21	-1.32	009	2.35	.18	230	0.00	-0.90	137 1.58 .28						
102	2.20	-1.44	Avg	2.35	.07	Meth: 144.01 PCT									
307	2.18	-1.58	040	2.35	-0.06	Sulfur									
292	2.17	-1.68	433	2.34	-0.13	Gravimetric									
247	1.65 s	-6.27	095	2.33	-0.22	114	1.70	1.81	247 1.52 -0.23						
255	1.01 s	-11.93	423	2.33	-0.27	095	1.64	1.11	291 1.52 -0.25						
Meth: 121.99 PCT															
Acid Soluble Magnesi															
Other			368	2.32	-0.29	230	1.59	.67	368 1.51 -0.29						
460	2.68	1.14	324	2.32	-0.29	296	1.60	.61	232 1.51 -0.37						
Avg	2.30		169	2.32	-0.33	029	1.58	.32	426 1.50 -0.38						
137	2.29	-0.04	296	2.33	-0.33	Avg	1.56		423 1.50 -0.45						
042	1.94	-1.09	262	2.31	-0.43	043	1.56	-0.07	479 1.49 -0.55						
Meth: 144.99 PCT															
Sulfur															
042	1.94	-1.09	035	2.30	-0.50	262	1.54	-0.26	389 1.48 -0.62						
Other															
460	2.68	1.14	377	2.30	-0.50	324	1.53	-0.47	049 1.44 -0.93						
Avg	2.30		055	2.30	-0.53	233	1.51	-0.61	307 1.42 -1.10						
137	2.29	-0.04	137	2.29	-0.55	105	1.47	-1.14	027 1.41 -1.18						
042	1.94	-1.09							444 1.41 -1.18						

* 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: 144.XX PCT											
<u>Sulfur</u>											
479	1.49	-.64									
389	1.48	-.72									
105	1.47	-.76									
049	1.44	-1.03									
055	1.43	-1.16									
307	1.42	-1.20									
027	1.41	-1.27									
444	1.41	-1.27									
450	1.41 R	-1.37									
022	1.26	-2.60									
255	0.73 s	-7.05									
Meth: 151.00 PPM											
<u>Arsenic</u>											
136	16.40	.71									
Meth: 151.30 PPM											
<u>Arsenic</u>											
<u>ICP</u>											
233	19.32	1.31									
368	18.89	.92									
049	18.81	.91									
300	18.60	.75									
037	17.92	.41									
450	17.50	.31									
009	17.40	.08									
Meth: 165.00 PCT											
<u>Acid Soluble Boron</u>											
055	0.225 s	45.08									
029	0.016	1.12									
023	0.012	.30									
037	0.011	.12									
Avg	0.010										
393	0.003	-1.46									
Meth: 165.99 PCT											
<u>Acid Soluble Boron</u>											
009	17.27	.08									
230	16.25	-.57									
247	16.00	-.91									
102	14.51	-1.56									
232	14.75	-1.64									
393	4.41 s	-7.26									
Meth: 151.99 PPM											
<u>Arsenic</u>											
<u>Other</u>											
231	16.95	.71									
Meth: 151.XX PCT											
<u>Acid Soluble Boron</u>											
114	0.010	-.16									
423	0.010	-.20									
232	0.009	-.43									
230	0.009	-.48									
296	0.008	-1.00									
255	0.007	-1.20									
422	0.006	-1.69									
393	0.003	-2.68									
Meth: 171.99 PCT											
<u>Water Soluble Boron</u>											
<u>Other</u>											
426	0.011	.87									
Avg	0.007										
027	0.002	-.87									
Meth: 181.00 PPM											
<u>Cadmium</u>											
136	0.50	.71									
Meth: 181.30 PPM											
<u>Atomic Absorption</u>											
136	0.50	.71									
Meth: 181.30 PPM											
<u>Cadmium</u>											
009	1.16	1.75									
232	0.87	.92									
300	0.65	.33									
102	0.54	.05									
Avg	0.52										
230	0.51	-.06									
368	0.30	-.65									
450	0.15	-1.09									
393	0.02	-1.36									
Meth: 181.99 PPM											
<u>Cadmium</u>											
<u>Other</u>											
231	0.46	.71									
Meth: 181.XX PPM											
<u>Cadmium</u>											
009	1.16	1.99									
232	0.87	1.06									
300	0.65	.39									
102	0.54	.08									
Avg	0.52										
230	0.51	-.05									
231	0.46	-.18									
136	0.50	-.31									
368	0.30	-.71									
450	0.15	-1.19									
393	0.02	-1.49									
Meth: 190.00 PCT											
<u>Water Soluble Chlori</u>											
<u>Titrimetric</u>											
105	2.42	.87									
Avg	1.22										
422	0.01	-.87									
Meth: 191.30 PPM											
<u>Chromium</u>											
<u>ICP</u>											
450	459.50	1.43									
035	423.50	1.06									
009	407.60	.90									
368	386.50	.69									
300	344.50	.26									
037	329.27	.14									
Avg	318.65										
102	272.66	-.51									
232	263.55	-.56									
027	255.03	-.64									
230	254.50	-.66									
393	108.55	-2.13									

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 191.99 PPM														
Chromium														
Other														
231	67.65	.71												
Meth: 191.XX PPM														
Chromium														
450	459.50	1.37												
035	423.50	1.07												
009	407.60	.93												
368	386.50	.75												
300	344.50	.40												
037	329.27	.28												
Meth: 202.99 PPM														
Acid Soluble Cobalt														
Other														
231	19.63	-.71												
Meth: 202.XX PPM														
Acid Soluble Cobalt														
450	336.00 R	2.10												
009	272.85	1.36												
136	270.50	1.33												
035	266.50	1.28												
233	240.70	.98												
368	222.00	.77												
422	200.00	.50												
037	167.86	.13												
Meth: 202.00 PPM														
Acid Soluble Cobalt														
AA														
136	270.50	.71												
Meth: 202.30 PPM														
Acid Soluble Cobalt														
ICP														
450	336.00	1.88												
009	272.85	1.15												
035	266.50	1.07												
233	240.70	.77												
368	222.00	.58												
422	200.00	.31												
Meth: 202.30 PPM														
Acid Soluble Cobalt														
ICP														
450	336.00	1.88												
009	272.85	1.15												
035	266.50	1.07												
233	240.70	.77												
368	222.00	.58												
422	200.00	.31												
Meth: 202.00 PPM														
Acid Soluble Iron														
Atomic Absorption														
177	0.1390 s	6.81												
055	0.1200	1.19												
043	0.1180	.84												
351	0.1185	.75												
040	0.1164	.40												
Meth: 202.30 PPM														
Acid Soluble Cobalt														
ICP														
232	94.80	-.90												
102	87.02	-.99												
393	65.80	-1.24												
Meth: 221.00 PPM														
Acid Soluble Copper														
Atomic Absorption														
460	0.1135	-.86												
296	0.1130	-.88												
029	0.1125	-1.46												
Meth: 221.30 PPM														
Acid Soluble Copper														
ICP														
433	0.1065	-1.39												
422	0.1050 R	-1.78												
041	0.1020 R	-2.19												
426	0.0760 s	-5.97												
255	0.0427 s	-10.92												
393	0.0336 s	-12.29												
Meth: 221.99 PPM														
Acid Soluble Copper														
Other														
114	0.1300	1.17												
231	0.1200	.45												
Meth: 221.XX PPM														
Acid Soluble Copper														
ICP														
432	0.1850 s	9.12												
177	0.1390	2.84												
300	0.1300	1.72												
114	0.1300	1.72												
423	0.1280	1.47												
247	0.1257	1.18												
390	0.1255	1.17												
450	0.1240	1.09												
037	0.1235	.93												
049	0.1200	.47												
055	0.1200	.47												
231	0.1200	.47												
368	0.1197	.44												
043	0.1180	.33												
351	0.1185	.29												
230	0.1180	.22												
040	0.1164	.16												
360	0.1170	.16												
Meth: 221.00 PPM														
Acid Soluble Iron														
Atomic Absorption														
351	0.99	1.90												
040	0.84	.25												
460	0.83	.08												

* 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: 241.00 PCT											
Acid Soluble Iron											
Atomic Absorption											
Avg	0.82		402	0.71	-0.64	157	0.83	.75	426	0.21 s	-6.61
296	0.79	-0.36	114	0.70	-0.72	460	0.83	.74	393	0.20 s	-6.66
043	0.75	-0.80	423	0.69	-0.84	324	0.82	.69	Meth: 251.00 PPM		
262	0.73	-1.02	230	0.67	-1.11	233	0.81	.64	Lead		
029	0.73 R	-1.07	023	0.65	-1.28	131	0.80	.50	Atomic Absorption		
Meth: 241.30 PCT											
Acid Soluble Iron											
ICP			292	0.65	-1.39	389	0.80	.46	136	69.50 S	.00
090	0.63	-1.54	090	0.63	-1.54	095	0.80	.41	Meth: 251.30 PPM		
232	0.63	-1.57	232	0.63	-1.57	296	0.79	.31	Lead		
420	0.61	-1.87	420	0.61	-1.87	368	0.78	.22	ICP		
247	0.60	-1.95	247	0.60	-1.95	300	0.78	.21	247	58.00	1.98
055	0.93	2.05	255	0.29 s	-5.80	041	0.77	.16	009	52.97	.86
037	0.87	1.32	426	0.21 s	-6.75	Avg	0.76		037	51.91	.79
035	0.86	1.23	393	0.20 s	-6.80	444	0.76	-0.03	450	52.00	.69
049	0.86	1.21	Meth: 241.99 PCT								
422	0.84	1.03	Acid Soluble Iron								
354	0.84	.99	Other								
450	0.84	.98	137	0.72	.71	262	0.73	-0.39	233	48.78	-0.06
360	0.83	.86	291	0.71	.60	377	0.73	-0.41	035	47.55	-0.29
027	0.83	.83	042	0.67	.30	433	0.73	-0.43	368	47.25	-0.36
157	0.83	.82	Avg	0.63		009	0.73	-0.44	300	46.55	-0.47
324	0.82	.76	030	0.44	-1.60	307	0.72	-0.50	230	46.55	-0.52
233	0.81	.71	Meth: 241.00 PCT								
131	0.80	.57	Acid Soluble Manganese								
389	0.80	.52	AA								
095	0.80	.47	460	0.156	1.66	262	0.73	-0.39	460	0.150	.55
368	0.78	.28	137	0.72	.71	377	0.73	-0.41	177	0.147	
300	0.78	.26	291	0.71	.60	433	0.73	-0.43	Avg	0.147	
041	0.77	.21	042	0.67	.30	009	0.73	-0.44	040	0.147	-0.05
102	0.76	.12	Avg	0.63		307	0.72	-0.50	351	0.146	-0.28
444	0.76	.02	030	0.44	-1.60	137	0.72	-0.51	029	0.145	-0.49
Avg	0.76		Meth: 241.00 PCT								
231	0.81	.71	Acid Soluble Iron								
131	0.80	.57	Other								
389	0.80	.52	479	1.06 R	3.56	029	0.73 R	-0.52	043	0.145 R	-1.10
095	0.80	.47	Meth: 241.00 PCT								
368	0.78	.28	Acid Soluble Iron								
300	0.78	.26	351	0.99	2.69	402	0.71	-0.68	296	0.140	-1.46
041	0.77	.21	055	0.93	1.94	291	0.71	-0.71	262	0.120 s	-5.45
102	0.76	.12	037	0.87	1.23	114	0.70	-0.75	Meth: 261.30 PCT		
444	0.76	.02	035	0.86	1.14	423	0.69	-0.86	Acid Soluble Manganese		
Avg	0.76		049	0.86	1.13	042	0.67	-1.10	ICP		
231	0.75	-0.10	422	0.84	.95	230	0.67	-1.13	432	0.145 R	1.80
022	0.73	-0.34	040	0.84	.93	023	0.65	-1.30	390	0.156	1.75
377	0.73	-0.37	354	0.84	.91	292	0.65	-1.40	423	0.155	1.59
433	0.73	-0.39	450	0.84	.90	090	0.63	-1.55	041	0.153	1.46
009	0.73	-0.40	360	0.83	.79	232	0.63	-1.57	055	0.150	1.07
307	0.72	-0.47	027	0.83	.75	420	0.61	-1.87	422	0.150	1.07
						247	0.60	-1.94	247	58.00	2.05
						030	0.44 A	-3.85	009	52.97	.89
						255	0.29 s	-5.69	037	51.91	.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	Lab	Average*	Index
Meth: 261.30 PCT														
Acid Soluble Manganese														
ICP														
450	0.148	.79												
389	0.145	.76												
023	0.144 R	.71												
102	0.146	.56												
009	0.145	.53												
377	0.145	.48												
049	0.144	.37												
022	0.143	.27												
420	0.143	.22												
Avg	0.141													
292	0.140	-.08												
300	0.140	-.08												
231	0.140	-.08												
095	0.140	-.08												
233	0.139	-.21												
131	0.139	-.26												
360	0.141	-.29												
402	0.137	-.42												
035	0.135	-.71												
027	0.134	-.80												
090	0.137 R	-.81												
114	0.130	-1.23												
444	0.129	-1.35												
433	0.129	-1.40												
307	0.128	-1.46												
230	0.127	-1.58												
232	0.119	-2.45												
Meth: 261.31 PCT														
Acid Soluble Manganese														
ICP														
324	0.150	.71												
Meth: 261.99 PCT														
Acid Soluble Manganese														
Other														
137	0.150	.46												
037	0.149	.35												
Avg	0.146													
291	0.140	-1.47												
255	0.059 S	-10.92												
Meth: 261.99 PCT														
Acid Soluble Manganese														
432	0.145 R	1.72												
390	0.156	1.58												
460	0.156	1.53												
423	0.155	1.41												
041	0.153	1.29												
324	0.150	.94												
422	0.150	.91												
177	0.150	.91												
055	0.150	.91												
137	0.150	.91												
037	0.149	.81												
354	0.149	.74												
247	0.149	.74												
389	0.145	.66												
043	0.145	.66												
023	0.144	.64												
450	0.148	.63												
040	0.147	.57												
351	0.146	.45												
102	0.146	.41												
009	0.145	.38												
029	0.145	.37												
377	0.145	.33												
049	0.144	.25												
022	0.143	.18												
420	0.143	.09												
Avg	0.142													
095	0.140	-.21												
292	0.140	-.21												
Meth: 261.99 PCT														
Molybdenum														
Other														
231	15.26	-.71												
Meth: 281.99 PCT														
Molybdenum														
Other														
231	15.26	-.71												
Meth: 261.99 PCT														
Acid Soluble Manganese														
ICP														
324	0.150	.71												
Meth: 261.99 PCT														
Acid Soluble Manganese														
ICP														
324	0.150	.71												
Meth: 261.99 PCT														
Molybdenum														
Other														
231	15.26	-.71												
Meth: 281.99 PCT														
Molybdenum														
Other														
231	15.26	-.71												
Meth: 281.99 PCT														
Molybdenum														
Other														
231	15.26	-.71												
Meth: 281.99 PCT														
Molybdenum														
Other														
231	15.26	-.71												
Meth: 281.99 PCT														
Molybdenum														
Other														
231	15.26	-.71												
Meth: 281.99 PCT														
Molybdenum														
Other														
231	15.26	-.71												
Meth: 281.99 PCT														
Molybdenum														
Other														
231	15.26	-.71												
Meth: 281.99 PCT														
Molybdenum														
Other														
231	15.26	-.71												
Meth: 281.99 PCT														
Molybdenum														
Other														
231	15.26	-.71												
Meth: 281.99 PCT														
Molybdenum														
Other														
231	15.26	-.71												
Meth: 281.99 PCT														
Molybdenum														
Other														
231	15.26	-.71												
Meth: 281.99 PCT														
Molybdenum														
Other														
231	15.26	-.71												
Meth: 281.99 PCT														
Molybdenum														
Other														
231	15.26	-.71												
Meth: 281.99 PCT														
Molybdenum														
Other														
231	15.26	-.71												
Meth: 281.99 PCT														
Molybdenum														
Other														
231	15.26	-.71												
Meth: 281.99 PCT														
Molybdenum														
Other														
231	15.26	-.71												
Meth: 281.99 PCT														
Molybdenum														
Other														
231	15.26	-.71												
Meth: 281.99 PCT														
Molybdenum														
Other														
231	15.26	-.71												
Meth: 281.99 PCT														
Molybdenum														
Other														
231	15.26	-.71												
Meth: 281.99 PCT														
Molybdenum														
Other														
231	15.26	-.71												
Meth: 281.99 PCT														
Molybdenum														
Other														
231	15.26	-.71					</							

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 291.30 PPM											
Nickel											
ICP	147.16	-0.88									
037	147.16	-0.88									
102	148.96 R	-0.97									
230	140.00	-1.29									
232	138.15	-1.37									
393	41.56 s	-6.66									
Meth: 291.99 PPM											
Nickel											
Other	46.46 S	.00									
231	46.46 S	.00									
Meth: 291.99 PPM											
Nickel											
009	190.85	1.37									
136	189.50	1.28									
450	189.00	1.27									
368	177.95	.68									
233	174.85	.52									
Avg	165.15	-0.08									
049	163.84	-0.12									
247	164.00	-1.12									
300	155.00	-0.55									
035	151.50	-0.72									
037	147.16	-0.96									
102	148.96 R	-1.03									
230	140.00	-1.35									
232	138.15	-1.43									
231	46.46 s	-6.26									
393	41.56 s	-6.52									
Meth: 301.30 PPM											
Selenium											
ICP	4.00	.68									
450	4.00	.68									
230	3.92	.62									
Avg	3.07	.62									
393	1.31	-1.29									
Meth: 301.99 PPM											
Selenium											
Other	4.57	.91									
231	4.57	.91									
450	4.00	.43									
230	3.92	.36									
296	3.66	.19									
Avg	3.49										
393	1.31	-1.82									
Meth: 311.30 PPM											
Sodium											
Flame Photometric	1.13 S	.00									
105	1.13 S	.00									
Meth: 311.99 PPM											
Sodium											
Other	1.59	1.71									
422	1.59	1.71									
009	1.55	1.09									
300	1.50	.27									
Avg	1.49										
423	1.49	-0.18									
035	1.49	-0.18									
232	1.47	-0.37									
102	1.44	-0.99									
307	1.41	-1.46									
Meth: 311.99 PPM											
Selenium											
ICP	4.57	.91									
450	4.00	.43									
230	3.92	.36									
296	3.66	.19									
Avg	3.49										
393	1.31	-1.82									
Meth: 311.30 PPM											
Sodium											
Other	1.49	.27									
422	1.59	1.71									
009	1.55	1.09									
300	1.50	.27									
Avg	1.49										
423	1.49	-0.18									
035	1.49	-0.18									
232	1.47	-0.37									
102	1.44	-0.99									
307	1.41	-1.46									
Meth: 301.99 PPM											
Selenium											
ICP	4.57	.91									
450	4.00	.43									
230	3.92	.36									
296	3.66	.19									
Avg	3.49										
393	1.31	-1.82									
Meth: 311.30 PPM											
Sodium											
Other	1.49	.27									
422	1.59	1.71									
009	1.55	1.09									
300	1.50	.27									
Avg	1.49										
423	1.49	-0.18									
035	1.49	-0.18									
232	1.47	-0.37									
102	1.44	-0.99									
307	1.41	-1.46									
Meth: 311.99 PPM											
Selenium											
ICP	4.57	.91									
450	4.00	.43									
230	3.92	.36									
296	3.66	.19									
Avg	3.49										
393	1.31	-1.82									
Meth: 311.30 PPM											
Sodium											
Other	1.49	.27									
422	1.59	1.71									
009	1.55	1.09									
300	1.50	.27									
Avg	1.49										
423	1.49	-0.18									
035	1.49	-0.18									
232	1.47	-0.37									
102	1.44	-0.99									
307	1.41	-1.46									
Meth: 301.99 PPM											
Selenium											
ICP	4.57	.91									
450	4.00	.43									
230	3.92	.36									
296	3.66	.19									
Avg	3.49										
393	1.31	-1.82									
Meth: 311.30 PPM											
Sodium											
Other	1.49	.27									
422	1.59	1.71									
009	1.55	1.09									
300	1.50	.27									
Avg	1.49										
423	1.49	-0.18									
035	1.49	-0.18									
232	1.47	-0.37									
102	1.44	-0.99									
307	1.41	-1.46									
Meth: 311.99 PPM											
Selenium											
ICP	4.57	.91									
450	4.00	.43									
230	3.92	.36									
296	3.66	.19									
Avg	3.49										
393	1.31	-1.82									
Meth: 311.30 PPM											
Sodium											
Other	1.49	.27									
422	1.59	1.71									
009	1.55	1.09									
300	1.50	.27									
Avg	1.49										
423	1.49	-0.18									
035	1.49	-0.18									
232	1.47	-0.37									
102	1.44	-0.99									
307	1.41	-1.46									
Meth: 311.99 PPM											
Selenium											
ICP	4.57	.91									
450	4.00	.43									
230	3.92	.36									
296	3.66	.19									
Avg	3.49										
393	1.31	-1.82									
Meth: 311.30 PPM											
Sodium											
Other	1.49	.27									
422	1.59	1.71									
009	1.55	1.09									
300	1.50	.27									
Avg	1.49										
423	1.49	-0.18									
035	1.49	-0.18									
232	1.47	-0.37									
102	1.44	-0.99									
307	1.41	-1.46									
Meth: 311.99 PPM											
Selenium											
ICP	4.57	.91									
450	4.00	.43									
230	3.92	.36									
296	3.66	.19									
Avg	3.49										
393	1.31	-1.82									
Meth: 311.30 PPM											
Sodium											
Other	1.49	.27									
422	1.59	1.71									
009	1.55	1.09									
300	1.50	.27									
Avg	1.49										
423	1.49	-0.18									
035	1.49	-0.18									
232	1.47	-0.37									
102	1.44	-0.99									
307	1.41	-1.46									
Meth: 311.99 PPM											
Selenium											
ICP	4.57	.91									
450	4.00	.43									
230	3.92	.36									
296	3.66	.19									
Avg	3.49										
393	1.31	-1.82									
Meth: 311.30 PPM											
Sodium											
Other	1.49	.27									
422	1.59	1.71									
009	1.55	1.09									
300	1.50	.27									
Avg	1.49										
423	1.49	-0.18									
035	1.49	-0.18									
232	1.47	-0.37									
102	1.44	-0.99									
307	1.41	-1.46									
Meth: 311.99 PPM											
Selenium											
ICP	4.57	.91									
450	4.00	.43									
230	3.92	.36									
296	3.66	.19									
Avg	3.49										
393	1.31	-1.82									
Meth: 311.30 PPM											
Sodium											
Other	1.49	.27									
422	1.59	1.71									
009	1.55	1.09									
300	1.50	.27									
Avg	1.49										
423	1.49	-0.18									
035	1.49	-0.18									
232	1.47	-0.37									
102	1.44	-0.99									
307	1.41	-1.46									
Meth: 311.99 PPM											
Selenium											
ICP	4.57	.91									
450	4.00	.43									
230	3.92	.36									
296	3.66	.19									
Avg	3.49										
393	1.31	-1.82									
Meth: 311.30 PPM											
Sodium											
Other	1.49	.27									
422	1.59	1.71									
009	1.55	1.09									
300	1.50	.27									
Avg	1.49										
423	1.49	-0.18									
035	1.49	-0.18									
232	1.47	-0.37									
102	1.44	-0.99									
307	1.41	-1.46									
Meth: 311.99 PPM											
Selenium											
ICP	4.57	.91									
450	4.00	.43									
230	3.92	.36									
296	3.66	.19									
Avg	3.49										
393	1.31	-1.82									
Meth: 311.30 PPM											
Sodium											
Other	1.49	.27									
422	1.59	1.71									
009	1.55	1.09									
300	1.50	.27									
Avg	1.49										
423	1.49	-0.18									
035	1.49	-0.18									
232	1.47	-0.37									
102	1.44	-0.99									
307	1.41	-1.46									
Meth: 311.99 PPM											
Selenium											
ICP	4.57	.91									
450	4.00	.43									
230	3.92	.36									
296	3.66	.19									
Avg	3.49										
393	1.31	-1.82									
Meth: 311.30 PPM											
Sodium											
Other	1.49	.27									
422	1.59	1.71									
009	1.55	1.09									
300	1.50	.27									
Avg	1.49										
423	1.49	-0.18									
035	1.49	-0.18									
232	1.47	-0.37									
102	1.44	-0.99									
307	1.41	-1.46									
Meth: 311.99 PPM											
Selenium											
ICP	4.57	.91									
450	4.00	.43									
230	3.92	.36									
296	3.66	.19									
Avg	3.49										
393	1.31	-1.82									
Meth: 311.30 PPM											
Sodium											
Other	1.49	.27									
422	1.59	1.71									
009											

Laboratory Averages & Accuracy Indexes

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

Meth: 321.XX PCT

Acid Soluble Zinc		
433	0.094	-1.04
169	0.094	-1.09
102	0.097	R -1.10
422	0.095	-1.10
262	0.095	-1.10
232	0.092	-1.25
291	0.100	R -1.28
307	0.091	-1.41
042	0.090	-1.53
230	0.090	-1.54
444	0.090	-1.60
027	0.088	-1.79
255	0.034	s -8.54

Meth: 325.30 PCT

Water Soluble Zinc		
ICP		
393	0.103	.86
Avg	0.094	
426	0.086	-.88

Meth: 325.99 PCT

Water Soluble Zinc		
Other		
450	0.109	.88
Avg	0.094	
137	0.080	-.85

Meth: 325.XX PCT

Water Soluble Zinc		
450	0.109	1.14
393	0.103	.68
Avg	0.094	
426	0.086	-.68
137	0.080	-1.12

* 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	Std Dev Within Labs	Method Code	Number Of Labs	Avg Bias of Labs	Std Dev of Biases	Std Dev Within Labs
010.60	14	0.58	2.23	0.45	121.XX	51	0.04	2.77	0.28
010.99	3	0.00	1.12	0.03	131.30	4	0.00	1.08	0.04
010.XX	18	0.41	1.71	0.32	131.XX	4	0.00	1.08	0.04
020.10	9	1.14	3.55	0.17	144.01	11	0.00	0.99	0.24
020.20	14	0.15	1.12	0.28	144.99	29	0.14	2.85	0.34
020.40	7	0.05	0.96	0.22	144.XX	41	0.09	2.44	0.29
020.50	16	1.39	3.61	0.33	151.30	12	- 0.61	2.28	0.36
020.99	4	6.10	8.15	0.10	151.XX	14	- 0.75	2.51	0.40
020.XX	46	0.85	4.38	0.30	165.00	5	9.015	20.180	0.124
030.50	2	0.00	1.22	0.02	165.99	22	0.592	2.197	0.527
030.XX	4	0.00	1.08	0.02	165.XX	27	3.326	15.306	0.388
040.99	2	0.00	1.22	0.10	171.99	2	0.000	1.225	0.013
040.XX	4	0.00	1.08	0.02	171.XX	2	0.000	1.225	0.013
041.10	12	0.18	1.15	0.13	181.30	8	0.00	1.01	0.20
041.20	2	0.00	0.69	0.72	181.XX	10	0.00	1.00	0.22
041.40	3	0.00	1.12	0.03	190.00	2	0.00	1.22	0.01
041.50	13	0.04	0.99	0.12	190.XX	2	0.00	1.22	0.01
041.60	13	0.00	1.02	0.08	191.30	11	0.00	1.02	0.09
041.99	2	0.00	0.74	0.69	191.XX	12	0.00	1.02	0.07
041.XX	37	0.03	1.00	0.14	202.30	13	0.00	1.02	0.08
048.XX	2	0.00	1.22	0.01	202.XX	15	0.14	1.12	0.08
050.00	13	0.00	1.00	0.19	221.00	8	0.8518	2.5455	0.4709
050.30	11	0.00	1.02	0.13	221.30	35	- 0.679	3.5558	0.6999
050.31	2	0.00	1.06	0.44	221.99	5	- 0.271	1.1141	0.1648
050.50	9	0.08	0.99	0.11	221.XX	47	- 0.483	2.6673	0.5266
050.51	11	0.00	1.02	0.07	241.00	7	- 0.15	1.03	0.14
050.60	4	0.00	1.08	0.04	241.30	40	- 0.39	2.08	0.12
050.61	9	0.54	1.86	0.28	241.99	4	0.00	1.07	0.10
050.99	22	0.14	1.20	0.05	241.XX	51	- 0.39	1.92	0.13
050.XX	73	0.02	1.08	0.22	251.30	14	- 0.48	2.03	0.30
060.00	3	0.00	1.05	0.31	251.XX	16	- 0.16	2.31	0.31
060.XX	3	0.00	1.05	0.31	261.00	8	- 0.737	2.102	0.370
101.00	8	0.00	1.00	0.24	261.30	35	0.011	0.955	0.373
101.30	36	0.51	2.96	0.30	261.99	4	- 2.731	5.490	0.626
101.99	5	0.00	1.03	0.24	261.XX	48	- 0.203	1.646	0.365
101.XX	49	0.34	2.48	0.28	281.XX	3	0.000	1.118	0.026
121.00	9	0.00	0.98	0.30	289.30	18	- 0.02	0.99	0.11
121.30	39	0.05	2.92	0.26	289.XX	19	- 0.01	0.99	0.11
121.99	3	0.00	1.10	0.14	291.30	13	- 0.57	2.06	0.21

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
291.XX	15	- 0.91	2.41	0.19					
301.30	3	0.00	1.12	0.03					
301.99	2	0.00	1.17	0.25					
301.XX	5	0.00	1.06	0.08					
311.99	8	0.00	1.00	0.25					
311.XX	9	- 0.70	2.31	0.37					
321.00	9	0.000	0.956	0.364					
321.30	39	- 0.125	1.813	0.358					
321.99	2	0.000	1.225	0.000					
321.XX	49	- 0.105	1.681	0.364					
325.30	2	0.000	1.204	0.160					
325.99	2	0.000	1.207	0.148					
325.XX	3	- 0.370	0.936	0.103					