

- Pass 1 Results for 76 Labs - - Pass 2 Results for 76 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	7	13.48	0.24	0.11	7	13.48	0.24	0.11
Ammoniacal Nitrogen, Other		001.99	13	13.54	0.26	0.16	12	13.54	0.24	0.11
Method Group 001.XX PCT			20	13.52	0.25	0.14	18	13.51	0.23	0.08
Nitrate Nitrogen, Jones Modified	930.02	002.20	1	1.04	0.02	0.03	1	1.04	0.02	0.03
Nitrate Nitrogen, Other		002.99	7	0.59	0.14	0.04	7	0.59	0.14	0.04
Method Group 002.XX PCT			8	0.65	0.20	0.04	8	0.65	0.20	0.04
Ammon & Nitrate N, Devarda	892.01	009.10	4	14.11	0.09	0.04	4	14.11	0.09	0.04
Ammon & Nitrate N, Other		009.99	1	14.18	0.23	0.33	1	14.18	0.23	0.33
Method Group 009.XX PCT			5	14.12	0.11	0.10	4	14.11	0.09	0.04
Total Nitrogen, Modified Comprehensive	978.02	010.11	6	14.00	0.18	0.09	6	14.00	0.18	0.09
Total Nitrogen, Salicylic	955.04D	010.12	5	14.09	0.10	0.04	5	14.09	0.10	0.04
Total Nitrogen, Combustion		010.60	53	14.18	0.19	0.09	49	14.19	0.18	0.07
Total Nitrogen, Other		010.99	3	14.11	0.14	0.04	3	14.11	0.14	0.04
Method Group 010.XX PCT			67	14.15	0.19	0.09	63	14.16	0.18	0.07
Total Phosphate, Grav Quimociac	962.02	020.10	5	4.16	0.11	0.05	5	4.16	0.11	0.05
Total Phosphate, Spectrometric	958.01	020.20	17	4.17	0.12	0.08	16	4.18	0.11	0.06
Total Phosphate, Automated	978.01	020.40	7	4.19	0.10	0.06	6	4.19	0.10	0.03
Total Phosphate, ICP		020.50	11	4.21	0.13	0.07	11	4.21	0.13	0.07
Total Phosphate, Other		020.99	1	3.99	0.02	0.03	1	3.99	0.02	0.03
Method Group 020.XX PCT			41	4.18	0.12	0.07	37	4.19	0.12	0.05
Insoluble Phosphate, Grav Quimociac	963.03C	030.10	1	0.00	0.00	0.00	1	0.00	0.00	0.00
Insoluble Phosphate, Spectrometric	963.03C	030.20	2	0.08	0.06	0.01	2	0.08	0.06	0.01
Insoluble Phosphate, Automated	978.01	030.40	2	0.06	0.03	0.01	2	0.06	0.03	0.01
Method Group 030.XX PCT			5	0.06	0.05	0.01	4	0.04	0.03	0.00
InDir Available Phosphate, Grav Quim	960.02	040.10	2	4.04	0.10	0.00	2	4.04	0.10	0.00
InDir Available Phosphate, Spectrometri	960.02	040.20	2	3.71	0.24	0.18	2	3.71	0.24	0.18
InDir Available Phosphate, Automated	960.02	040.40	2	4.05	0.13	0.01	2	4.05	0.13	0.01
InDir Available Phosphate, ICP		040.50	1	4.20	0.01	0.02	1	4.20	0.01	0.02
Method Group 040.XX PCT			7	3.97	0.23	0.06	6	3.98	0.24	0.01
Dir Available Phosphate, Grav Quimociac	960.03E	041.10	9	4.17	0.10	0.04	9	4.17	0.10	0.04
Dir Available Phosphate, Spectrometric	960.03D	041.20	2	4.09	0.18	0.07	2	4.09	0.18	0.07
Dir Available Phosphate, Automated	978.01	041.40	3	4.08	0.12	0.01	3	4.08	0.12	0.01
Dir Available Phosphate, ICP		041.50	10	4.13	0.07	0.03	10	4.13	0.07	0.03
Dir Available Phosphate, EDTA Extract	993.01	041.60	9	4.17	0.10	0.05	9	4.17	0.10	0.05
Dir Available Phosphate, Other		041.99	2	4.19	0.07	0.09	2	4.19	0.07	0.09
Method Group 041.XX PCT			35	4.15	0.10	0.04	34	4.15	0.10	0.04
Water Soluble Phosphate, Spectrometric	970.01	048.20	2	3.53	0.15	0.01	2	3.53	0.15	0.01
Water Soluble Phosphate, ICP		048.50	1	3.49	0.02	0.02	1	3.49	0.02	0.02
Method Group 048.XX PCT			3	3.52	0.12	0.02	3	3.52	0.12	0.02

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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, STPB Oxalate	958.02	050.00	15	14.39	0.30	0.11	14	14.35	0.28	0.10
Soluble Potash, STPB Citrate	969.04	050.10	1	13.90	0.02	0.03	1	13.90	0.02	0.03
Soluble Potash, AA (Oxalate)		050.30	7	14.51	0.27	0.11	7	14.51	0.27	0.11
Soluble Potash, AA (Citrate)		050.31	1	13.35	0.12	0.17	1	13.35	0.12	0.17
Soluble Potash, ICP (Oxalate)		050.50	4	13.92	0.43	0.22	4	13.92	0.43	0.22
Soluble Potash, ICP (Citrate)		050.51	10	14.55	0.47	0.14	9	14.50	0.46	0.10
Soluble Potash, Flame (Oxalate)	983.02(a)	050.60	5	14.36	0.51	0.21	5	14.36	0.51	0.21
Soluble Potash, Flame (Citrate)	983.02(b)	050.61	8	14.69	0.41	0.06	8	14.69	0.41	0.06
Soluble Potash, Other		050.99	15	14.39	0.40	0.19	14	14.41	0.39	0.15
Method Group 050.XX PCT			67	14.42	0.44	0.16	64	14.41	0.43	0.12
Free Water, Vacuum Oven	965.08B	060.00	6	0.26	0.09	0.04	6	0.26	0.09	0.04
Method Group 060.XX PCT			6	0.26	0.09	0.04	6	0.26	0.09	0.04
Acid Soluble Calcium, AA	945.04	101.00	1	0.42	0.01	0.01	1	0.42	0.01	0.01
Acid Soluble Calcium, ICP		101.30	14	0.40	0.03	0.01	14	0.40	0.03	0.01
Acid Soluble Calcium, Titrimetric	945.03	101.70	1	0.43	0.00	0.00	1	0.43	0.00	0.00
Method Group 101.XX PCT			16	0.41	0.02	0.01	16	0.41	0.02	0.01
Acid Soluble Magnesium, AA	984.01	121.00	13	1.02	0.07	0.03	13	1.02	0.07	0.03
Acid Soluble Magnesium, ICP		121.30	32	1.04	0.06	0.02	30	1.04	0.04	0.02
Acid Soluble Magnesium, Titrimetric	964.01	121.70	1	1.22	0.03	0.05	1	1.22	0.03	0.05
Acid Soluble Magnesium, Other		121.99	1	0.90	0.02	0.03	1	0.90	0.02	0.03
Method Group 121.XX PCT			47	1.03	0.07	0.02	45	1.03	0.06	0.02
Water Soluble Magnesium, AA		131.00	2	0.86	0.03	0.04	2	0.86	0.03	0.04
Water Soluble Magnesium, ICP		131.30	2	0.94	0.03	0.01	2	0.94	0.03	0.01
Water Soluble Magnesium, Other		131.99	1	0.93	0.00	0.00	1	0.93	0.00	0.00
Method Group 131.XX PCT			5	0.90	0.05	0.02	4	0.91	0.04	0.01
Sulfur, Gravimetric	980.02a	144.01	17	15.56	0.25	0.13	16	15.55	0.23	0.09
Sulfur, Spectrometric		144.70	1	15.05	0.05	0.07	1	15.05	0.05	0.07
Sulfur, Other		144.99	23	15.27	0.50	0.15	22	15.26	0.51	0.13
Method Group 144.XX PCT			42	15.41	0.47	0.14	40	15.40	0.47	0.11
Arsenic, Atomic Absorption		151.00	1	17.90	0.71	1.00	1	17.90	0.71	1.00
Arsenic, ICP		151.30	8	16.43	2.15	0.56	8	16.43	2.15	0.56
Arsenic, Other		151.99	3	18.54	1.33	1.62	3	18.54	1.33	1.62
Method Group 151.XX PPM			12	17.08	2.08	0.86	11	17.04	2.12	0.66
Acid Soluble Boron, Spectrometric	982.01	165.00	9	0.113	0.010	0.005	8	0.114	0.009	0.003
Acid Soluble Boron, Other		165.99	18	0.114	0.009	0.004	17	0.113	0.008	0.004
Method Group 165.XX PCT			27	0.114	0.009	0.004	25	0.114	0.008	0.003
Water Soluble Boron, Titrimetric	949.03	171.70	1	0.130	0.000	0.000	1	0.130	0.000	0.000
Water Soluble Boron, Other		171.99	2	0.144	0.034	0.021	2	0.144	0.034	0.021
Method Group 171.XX PCT			3	0.139	0.028	0.014	3	0.139	0.028	0.014

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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
Cadmium, Atomic Absorption		181.00	3	5.59	0.29	0.14	3	5.59	0.29	0.14
Cadmium, ICP		181.30	10	5.72	0.34	0.18	10	5.72	0.34	0.18
Cadmium, Other		181.99	2	6.56	0.16	0.19	2	6.56	0.16	0.19
Method Group 181.XX PPM			16	5.88	0.52	0.17	16	5.88	0.52	0.17
Water Soluble Chlorine, Titrimetric	928.02	190.00	7	9.63	0.41	0.07	6	9.61	0.44	0.04
Water Soluble Chlorine, Other		190.99	4	9.86	0.51	0.15	4	9.86	0.51	0.15
Method Group 190.XX PCT			12	9.82	0.56	0.10	11	9.76	0.55	0.07
Chromium, Atomic Absorption		191.00	1	78.50	3.54	5.00	1	78.50	3.54	5.00
Chromium, ICP		191.30	13	62.16	20.04	7.44	12	64.17	17.27	2.90
Chromium, Other		191.99	1	42.86	2.28	3.23	1	42.86	2.28	3.23
Method Group 191.XX PPM			15	61.96	19.77	7.00	14	63.67	17.42	3.08
Acid Soluble Cobalt, AA		202.00	1	21.50	0.71	1.00	1	21.50	0.71	1.00
Acid Soluble Cobalt, ICP	965.11	202.30	10	10.76	4.51	0.40	10	10.76	4.51	0.40
Acid Soluble Cobalt, Other		202.99	1	6.68	0.30	0.42	1	6.68	0.30	0.42
Method Group 202.XX PPM			12	11.32	5.29	0.45	12	11.32	5.29	0.45
Acid Soluble Copper, Atomic Absorption	975.01	221.00	3	0.0014	0.0003	0.0001	3	0.0014	0.0003	0.0001
Acid Soluble Copper, ICP		221.30	16	0.0017	0.0006	0.0003	15	0.0017	0.0006	0.0002
Acid Soluble Copper, Other		221.99	2	0.0015	0.0002	0.0000	2	0.0015	0.0002	0.0000
Method Group 221.XX PCT			21	0.0016	0.0005	0.0003	18	0.0015	0.0003	0.0001
Acid Soluble Iron, Atomic Absorption	980.01	241.00	13	1.07	0.12	0.10	13	1.07	0.12	0.10
Acid Soluble Iron, ICP		241.30	31	1.04	0.08	0.05	30	1.04	0.08	0.05
Acid Soluble Iron, Other		241.99	1	1.23	0.02	0.03	1	1.23	0.02	0.03
Method Group 241.XX PCT			47	1.07	0.12	0.06	43	1.06	0.10	0.05
Lead, Atomic Absorption		251.00	3	20.61	6.00	1.70	3	20.61	6.00	1.70
Lead, ICP		251.30	10	14.35	2.24	0.93	9	14.30	2.29	0.67
Lead, Other		251.99	2	15.99	1.77	1.06	2	15.99	1.77	1.06
Method Group 251.XX PPM			16	16.15	4.09	1.16	16	16.15	4.09	1.16
Acid Soluble Manganese, AA	972.02a	261.00	11	0.303	0.015	0.015	11	0.303	0.015	0.015
Acid Soluble Manganese, ICP	972.02a	261.30	27	0.294	0.023	0.007	25	0.292	0.021	0.006
Acid Soluble Manganese, Other	972.02b	261.31	1	0.293	0.001	0.002	1	0.293	0.001	0.002
Acid Soluble Manganese, Other		261.99	3	0.302	0.012	0.009	3	0.302	0.012	0.009
Method Group 261.XX PCT			42	0.297	0.020	0.009	41	0.297	0.020	0.009
Water Soluble Manganese, ICP	972.03	271.30	1	0.070	0.014	0.020	1	0.070	0.014	0.020
Mercury, ICP		281.30	2	1.45	1.67	0.04	2	1.45	1.67	0.04
Mercury, Other		281.99	1	0.02	0.00	0.00	1	0.02	0.00	0.00
Method Group 281.XX PPM			3	0.97	1.49	0.03	3	0.97	1.49	0.03
Molybdenum, ICP		289.30	12	8.70	1.09	0.69	12	8.70	1.09	0.69
Molybdenum, Other		289.99	1	6.73	0.88	1.24	1	6.73	0.88	1.24
Method Group 289.XX PPM			13	8.54	1.19	0.73	13	8.54	1.19	0.73

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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
Nickel, Atomic Absorption		291.00	3	35.20	2.96	1.17	3	35.20	2.96	1.17
Nickel, ICP		291.30	10	32.87	3.02	1.95	10	32.87	3.02	1.95
Method Group 291.XX PPM			13	33.41	3.11	1.77	13	33.41	3.11	1.77
Selenium, ICP		301.30	3	2.68	2.48	0.30	3	2.68	2.48	0.30
Selenium, Other		301.99	1	1.92	0.77	1.09	1	1.92	0.77	1.09
Method Group 301.XX PPM			4	2.49	2.14	0.50	4	2.49	2.14	0.50
Sodium, Flame Photometric	974.01	311.30	1	0.28	0.01	0.01	1	0.28	0.01	0.01
Sodium, Other		311.99	6	0.35	0.02	0.02	6	0.35	0.02	0.02
Method Group 311.XX PCT			7	0.34	0.03	0.02	7	0.34	0.03	0.02
Acid Soluble Zinc, Atomic Absorption	975.02	321.00	12	0.232	0.009	0.007	12	0.232	0.009	0.007
Acid Soluble Zinc, ICP		321.30	31	0.237	0.018	0.007	30	0.236	0.017	0.007
Acid Soluble Zinc, Other		321.99	2	0.231	0.014	0.015	2	0.231	0.014	0.015
Method Group 321.XX PCT			46	0.236	0.017	0.008	45	0.235	0.015	0.007
Water Soluble Zinc, ICP		325.30	1	0.310	0.014	0.020	1	0.310	0.014	0.020

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 001.10 PCT														
Ammoniacal Nitrogen														
MgO Distillation	371	13.60	371	13.60	.39									
415	13.89	1.73	232	13.56	.23									
456	13.65	.77	397	13.54	.20									
232	13.56	.32	Avg	13.51										
Avg	13.48		090	13.45	-.27									
090	13.45	-.15	372	13.42	-.38									
457	13.39	-.41	220	13.43	-.49									
309	13.24	-1.04	457	13.39	-.54									
230	13.20	-1.23	255	13.36	-.67									
Meth: 001.99 PCT														
Ammoniacal Nitrogen														
Other	027	13.24	-1.17	200	14.24	1.47								
393	14.07	2.20	309	13.24	-1.21	.10								
105	13.79	X 1.50	Avg	14.11										
096	13.64	.38	420	13.49	R -1.75	-.76								
234	13.58	.33	368	12.45	S -4.68	-.87								
300	13.60	.23	Meth: 009.10 PCT											
371	13.60	.22	Ammon & Nitrate N											
Avg	13.54		Devarda											
397	13.54	-.13	200 14.24 1.47											
372	13.42	-.52	258 14.12 .10											
220	13.43	-.59	Avg 14.11											
255	13.36	-.80	457 14.05 -.76											
409	13.29	-1.09	090 14.04 -.87											
027	13.24	-1.28	Meth: 009.99 PCT											
420	13.49	R -1.69	Ammon & Nitrate N											
368	12.45	S -4.63	Other											
Meth: 001.11 PCT														
Ammoniacal Nitrogen														
393	14.07	2.46	Meth: 010.11 PCT											
415	13.89	1.73	Total Nitrogen											
105	13.79	R 1.69	Modified Comprehensi											
456	13.65	.72	073 13.80 -1.21											
096	13.64	.56	309 13.76 -1.49											
234	13.58	.44	114 13.37 S -3.45											
300	13.60	.41	Meth: 010.12 PCT											
Total Nitrogen														
Meth: 010.60 PCT														
Total Nitrogen														
Combustion														
247	14.21	.20	Total Nitrogen											
233	14.20	.18	Salicylic											
009	14.21	.13	415 14.23 1.35											
450	14.20	.07	397 14.12 .54											
041	14.20	.05	254 14.14 .46											
Avg	14.19		Avg 14.09											
291	14.18	-.07	416 14.02 -.73											
361	14.19	-.14	185 13.97 -1.28											
034	14.18	-.15	Meth: 010.60 PCT											
409	14.18	-.26	Total Nitrogen											
354	14.14	-.30	Combustion											
428	14.15	-.34	296 14.63 2.42											
040	14.15	-.38	177 14.56 2.03											
360	14.13	-.39	043 14.48 1.57											
390	14.16	-.40	419 14.47 1.52											
423	14.12	-.44	457 14.42 1.31											
443	14.10	-.48	377 14.40 1.18											
096	14.11	-.51	095 14.39 1.11											
402	14.08	-.60	042 14.20 R 1.09											
405	14.08	-.60	393 14.37 .97											
102	14.09	-.76	131 14.35 .87											
325	14.06	-.77	292 14.33 .75											
426	14.05	-.78	232 14.32 .72											
007	14.05	-.80	231 14.32 .69											
027	14.00	-1.02	035 14.27 .59											
368	14.10	R -1.07	055 14.29 .56											
234	13.98	-1.20	028 14.20 .52											
057	13.97	-1.23	372 14.27 .45											
406	13.95	-1.34	073 14.27 .44											
330	14.15	R -1.38	136 14.24 .43											
351	13.91	-1.54	037 14.20 .33											
324	13.90	R -1.91												
024	13.81	-2.09												
023	13.70	-2.70												
230	13.40	S -4.43												

* 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: 010.99 PCT														
Total Nitrogen														
Other	361	14.19	.20											
105	14.21	.68												
300	14.20	.60												
Avg	14.11													
255	13.93	-1.29												
420	13.40	S -5.35												
Meth: 010.10 PCT														
Total Nitrogen														
361	14.19	.20												
034	14.18	.16												
220	14.19	.14												
291	14.18	.13												
Avg	14.16													
354	14.14	-.15												
254	14.14	-.19												
360	14.13	-.26												
428	14.15	-.27												
322	14.10	-.30												
423	14.12	-.30												
040	14.15	-.31												
419	14.47	1.67												
457	14.42	1.45												
377	14.40	1.32												
095	14.39	1.25												
393	14.37	1.12												
042	14.20	R 1.10												
131	14.35	1.02												
292	14.33	.90												
232	14.32	.87												
231	14.32	.84												
055	14.29	.71												
035	14.27	.71												
372	14.27	.60												
073	14.27	.59												
028	14.20	.55												
136	14.24	.55												
415	14.23	.40												
037	14.20	.39												
247	14.21	.32												
105	14.21	.30												
009	14.21	.28												
233	14.20	.28												
409	14.18	.26												
450	14.20	.22												
300	14.20	.22												
041	14.20	.20												
Meth: 010.10 PCT														
Total Phosphate														
023	13.70	-2.53												
230	13.40	s -4.24												
114	13.37	s -4.29												
420	13.40	s -4.39												
Meth: 020.10 PCT														
Total Phosphate														
041	4.27	1.14												
114	4.28	1.02												
Avg	4.16													
090	4.13	-.26												
105	4.12	-.38												
405	4.01	-1.39												
Meth: 020.20 PCT														
Total Phosphate														
457	4.69	s 4.71												
428	4.39	1.94												
406	4.32	1.27												
324	4.23	1.17												
292	4.27	.76												
309	4.26	.67												
232	4.25	.65												
258	4.20	.14												
Avg	4.18													
371	4.17	-.14												
200	4.17	-.44												
234	4.17	-.49												
416	4.13	-.51												
231	4.15	-.57												
415	4.10	-.75												
330	4.15	R -1.35												
351	13.91	-1.37												
324	13.90	R -1.77												
024	13.81	-1.92												
073	13.80	-2.01												
309	13.76	-2.29												
Meth: 020.40 PCT														
Total Phosphate														
035	4.31	1.10												
042	4.20	R .98												
456	4.29	.96												
409	4.20	.05												
Avg	4.19													
105	4.19	-.21												
247	4.18	-.30												
096	4.01	-1.79												
Meth: 020.50 PCT														
Total Phosphate														
330	4.40	1.42												
423	4.39	1.32												
361	4.29	.59												
393	4.24	.39												
393	4.24	.39												
105	4.19	.18												
258	4.20	.12												
409	4.20	.09												
Avg	4.19													
402	4.17	-.37												
247	4.13	-.62												
426	4.20	-.68												
368	4.18	-.88												
432	4.14	-1.05												
255	3.97	-1.85												
Meth: 020.99 PCT														
Total Phosphate														
443	5.13	S 50.60												
Avg	3.99													
322	3.99	-.71												
Meth: 020.10 PCT														
Total Phosphate														
443	5.13	s 8.11												
457	4.69	s 4.34												
330	4.40	1.84												

* 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												
322	3.99	-1.73										Meth: 041.10 PCT
255	3.97	-1.88										Dir Available Phosph
220	4.02 R	-2.10										Grav Quimociac
372	3.57 s	-5.33										296 4.21 .32
Meth: 040.20 PCT												
InDir Available Phos												
Spectrometri												
220	3.89 X	.99										211 4.20 .27
Avg	3.71											Avg 4.17
372	3.54	-.72										102 4.14 -.39
Meth: 030.10 PCT												
Insoluble Phosphate												
Grav Quimociac												
090	0.00	.00										009 4.11 -.65
Meth: 041.60 PCT												
Dir Available Phosph												
EDTA Extract												
073	4.16	.12										028 4.49 S 3.43
325	4.16	.08										105 4.36 1.92
360	4.15	.02										034 4.26 .92
Avg	4.15											296 4.21 .36
027	4.13	-.21										Avg 4.17
102	4.14	-.22										073 4.16 -.11
009	4.14	-.29										351 4.16 -.13
009	4.11	-.40										397 4.16 -.63
043	4.11	-.46										043 4.11 -.75
105	4.11	-.50										024 4.08 -.99
007	4.10	-.53										231 4.05 -1.36
043	4.11	-.56										Meth: 041.99 PCT
040	4.12	-.58										Dir Available Phosph
024	4.08	-.74										Other
354	4.08	-.75										105 4.21 .32
131	4.06	-.90										Avg 4.19
231	4.05	-1.11										230 4.18 -1.18
377	4.02	-1.35										Meth: 041.XX PCT
419	3.93	-2.21										Dir Available Phosph
131	3.93	-2.26										ICP
255	3.78 s	-3.68										291 4.26 1.88
023	3.76 s	-3.97										361 4.18 .78
Meth: 048.20 PCT												
Water Soluble Phosph												
Spectrometric												
420	3.66	.87										393 4.16 .43
Avg	3.53											105 4.36 2.09
096	3.40	-.87										034 4.26 1.11
Meth: 041.50 PCT												
Dir Available Phosph												
ICP												
296	4.02	-1.84										055 4.23 1.09
296	3.78 S	-5.37										291 4.26 1.09
211	4.20	.52										055 4.24 1.05
361	4.18	.38										230 4.18 R .80
095	4.18	.27										397 4.16 .62
351	4.16	.20										
393	4.16	.16										

* 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: 048.50 PCT														
Water Soluble Phosph														
ICP	393	3.49	.71											
Meth: 048.XX PCT														
Water Soluble Phosph														
420	3.66	1.20												
Avg	3.52													
393	3.49	-.21												
096	3.40	-1.01												
Meth: 050.00 PCT														
Soluble Potash														
STPB Oxalate	397	14.88 R	2.03											
090	14.81	1.65												
055	14.62	.95												
114	14.53	.65												
416	14.53	.64												
057	14.46	.58												
220	14.42	.53												
231	14.47	.42												
211	14.47	.40												
009	14.36	.09												
Avg	14.35													
296	14.22	-.49												
043	14.23	-.65												
405	14.17	-.69												
102	13.89	-1.74												
258	13.81	-1.98												
Meth: 050.10 PCT														
Soluble Potash														
STPB Citrate	372	13.90	.71											
Avg	13.90													
300	12.09 S	-85.32												
Meth: 050.30 PCT														
Soluble Potash														
AA (Oxalate)	040	14.94	1.58											
450	14.71	.92												
043	14.69	.67												
Avg	14.51													
136	14.45	-.26												
073	14.29	-.86												
351	14.28	-.88												
234	14.24	-1.06												
Meth: 050.51 PCT														
Soluble Potash														
ICP (Citrate)	393	13.82	-1.49											
Meth: 050.60 PCT														
Soluble Potash														
Flame (Oxalate)	443	16.62 S	4.46											
406	14.87	1.00												
415	14.80	.88												
055	14.50	.31												
Avg	14.36													
309	13.93	-.90												
200	13.71	-1.36												
Meth: 050.61 PCT														
Soluble Potash														
Flame (Citrate)	028	15.53	2.05											
095	14.97	.70												
041	14.72	.07												
456	14.71	.07												
Avg	14.69													
024	14.68	-.04												
035	14.42	-.70												
131	14.30	-.96												
034	14.21	-1.17												
Meth: 050.99 PCT														
Soluble Potash														
ICP (Citrate)	432	15.14	1.42											
009	15.14	1.40												
007	15.03 R	1.29												
291	14.77	.59												
023	14.60	.35												
Avg	14.50													
043	14.41	-.26												
377	14.35	-.34												
361	14.34	-.36												
423	13.94	-1.24												
Meth: 050.99 PCT														
Soluble Potash														
Other	177	14.45	.15											
Avg	14.41													
360	14.35	-.28												
390	14.10	-.80												
255	14.05	-.94												
322	14.04	-.95												
368	14.11 R	-1.23												
457	13.50	-2.33												
Meth: 050.99 PCT														
Soluble Potash														
Other	177	14.45	.15											
Avg	14.41													
360	14.35	-.28												
390	14.10	-.80												
255	14.05	-.94												
322	14.04	-.95												
368	14.11 R	-1.23												
457	13.50	-2.33												
Meth: 050.XX PCT														
Soluble Potash														
AA (Citrate)	254	13.35	.71											
324	14.90 S	2.64												
292	14.30	.88												
354	14.27	.82												
Avg	13.92													
426	13.74	-.46												
420	13.38	-1.36												
Meth: 050.51 PCT														
Soluble Potash														
ICP (Citrate)	432	15.14	1.42											
009	15.14	1.40												
007	15.03 R	1.29												
291	14.77	.59												
023	14.60	.35												
Avg	14.50													
043	14.41	-.26												
377	14.35	-.34												
361	14.34	-.36												
423	13.94	-1.24												
Meth: 050.XX PCT														
Soluble Potash														
Other	177	14.45	.15											
Avg	14.41													
360	14.35	-.28												
390	14.10	-.80												
255	14.05	-.94												
322	14.04	-.95												
368	14.11 R	-1.23												
457	13.50	-2.33												
Meth: 050.XX PCT														
Soluble Potash														
AA (Citrate)	254	13.35	.71											
324	14.90 R	1.80												
432	15.14	1.71												
009	15.14	1.69												
007	15.03 R	1.56												
095	14.97	1.32												
040	14.94	1.24												
397	14.88	1.18												
402	14.82	1.11												
419	14.87	1.08												
406	14.87	1.07												
232	14.85	1.02												
090	14.81	.93												
415	14.80	.93												
325	14.73	.90												
291	14.77	.83												
450	14.71	.79												
041	14.72	.73												
456	14.71	.71												
043	14.69	.66												
024	14.68	.62												
042	14.65	.58												
023	14.60	.53												
055	14.62	.49												
057	14.46	.31												
Meth: 050.51 PCT														
Soluble Potash														
ICP (Citrate)	432	15.14	1.42											
009	15.14	1.40												
007	15.03 R	1.29												
291	14.77	.59												
023	14.60	.35												
Avg	14.50													
043	14.41	-.26												
377	14.35	-.34												
361	14.34	-.36												
423	13.94	-1.24												

* 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>												
426	13.74	-1.55										
200	13.71	-1.69										
457	13.50	-2.10										
420	13.38	-2.44										
254	13.35	-2.46										
300	12.09 s	-5.37										
Meth: 060.00 PCT												
Free Water												
<u>Vacuum Oven</u>												
096	0.43	1.81										
105	0.31	.80										
Avg	0.26											
456	0.22	-.48										
416	0.22	-.48										
247	0.23	-.50										
007	0.18	-.93										
Meth: 060.99 PCT												
Free Water												
<u>Other</u>												
443	1.74 S	.00										
Meth: 060.XX PCT												
<u>Free Water</u>												
443	1.74 s	16.41										
096	0.43	1.81										
105	0.31	.80										
Avg	0.26											
456	0.22	-.48										
416	0.22	-.48										
247	0.23	-.50										
007	0.18	-.93										
Meth: 101.30 PCT												
<u>Acid Soluble Calcium</u>												
ICP												
041	0.59 s	7.82										
096	0.58 s	6.83										
393	0.45	1.90										
390	0.43	1.15										
450	0.43	1.05										
095	0.43	.99										
035	0.42	.75										
232	0.40	.04										
Avg	0.40											
027	0.40	-.16										
057	0.40	-.21										
009	0.40	-.40										
247	0.39	-.52										
131	0.38	-.80										
102	0.38	-1.04										
420	0.37	-1.17										
423	0.37	-1.52										
Meth: 101.70 PCT												
<u>Acid Soluble Calcium</u>												
<u>Titrimetric</u>												
415	0.43	.71										
Meth: 101.XX PCT												
<u>Acid Soluble Calcium</u>												
041	0.59 s	7.81										
096	0.58 s	6.80										
393	0.45	1.82										
415	0.43	1.15										
390	0.43	1.07										
450	0.43	.98										
095	0.43	.89										
035	0.42	.67										
105	0.42	.42										
Avg	0.41											
232	0.40	-.09										
057	0.40	-.25										
Meth: 101.00 PCT												
<u>Acid Soluble Calcium</u>												
AA												
105	0.42	.71										
Meth: 101.XX PCT												
<u>Acid Soluble Calcium</u>												
027	0.40	-.28										
009	0.40	-.49										
247	0.39	-.64										
131	0.38	-.92										
102	0.38	-1.15										
420	0.37	-1.29										
423	0.37	-1.65										
Meth: 121.00 PCT												
<u>Acid Soluble Magnesi</u>												
AA												
200	1.15	1.85										
034	1.12	1.38										
028	1.07	.67										
177	1.06	.50										
397	1.03	.36										
043	1.03	.20										
296	1.03	.14										
Avg	1.02											
351	1.00	-.24										
105	0.99	-.45										
309	1.00	-.51										
258	0.97	-.81										
055	0.95	-1.12										
220	0.89	-1.95										
457	0.76 s	-3.82										
Meth: 121.30 PCT												
<u>Acid Soluble Magnesi</u>												
041	0.59 s	7.81										
096	0.58 s	6.80										
393	0.45	1.82										
415	0.43	1.15										
390	0.43	1.07										
450	0.43	.98										
095	0.43	.89										
035	0.42	.67										
105	0.42	.42										
Avg	0.41											
232	0.40	-.09										
057	0.40	-.25										
Meth: 121.70 PCT												
<u>Acid Soluble Magnesi</u>												
<u>Titrimetric</u>												
415	1.22	-.71										
Meth: 121.99 PCT												
<u>Acid Soluble Magnesi</u>												
<u>Other</u>												
234	0.90	.71										
Meth: 121.XX PCT												
<u>Acid Soluble Magnesi</u>												
405	1.82 s	12.78										
330	1.80 s	12.54										
041	1.28 s	4.12										
415	1.22 A	3.15										
090	1.15 R	2.05										
200	1.15	2.01										
114	1.14	1.76										
432	1.13	1.74										
034	1.12	1.47										
423	1.09	.95										
231	1.09	.95										
354	1.08	.93										
433	1.08	.88										
426	1.08	.83										
368	1.07	.70										
028	1.07	.67										
057	1.06	.59										
419	1.06	.54										
177	1.06	.47										
255	1.05	.41										
390	1.04	.39										
035	0.97	.38										
023	0.97	-.167										
117	0.96	-1.88										
393	0.87 A	-3.87										
247	0.60 s	-9.84										
Meth: 121.30 PCT												
<u>Acid Soluble Magnesi</u>												
<u>ICP</u>												
354	1.08	1.02										
433	1.08	.94										
426	1.08	.89										
368	1.07	.70										
057	1.06	.55										
419	1.06	.46										
390	1.04	.45										
255	1.05	.38										
035	1.05	.24										
232	1.04	.24										
037	1.05	.17										
409	1.05	.17										
360	1.05	.17										
027	1.05	.16										
Avg	1.04											
300	1.03	-.23										
009	1.02	-.49										
102	1.01	-.74										
420	1.01	-.76										
291	1.01	-.78										
096	1.01	-.78										
450	1.00	-.88										
131	0.99	-1.04										
095	0.99	-1.09										
324	0.98	-1.39										
023	0.97	-1.67										
117	0.96	-1.88										
393	0.87 A	-3.87										
247	0.60 s	-9.84										
Meth: 121.70 PCT												
<u>Acid Soluble Magnesi</u>												
<u>Titrimetric</u>												
415	1.22	-.71										
Meth: 121.99 PCT												
<u>Acid Soluble Magnesi</u>												
232	1.04	.28										
043	1.03	.17										
296	1.03	.05										
300	1.03	.04										
Avg	1.03											
009	1.02	-.20										
420	1.01	-.34										

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 121.XX PCT											
<u>Acid Soluble Magnesi</u>											
291	1.01	-.36									
096	1.01	-.36									
351	1.00	-.37									
102	1.01	-.38									
397	1.03	-.41									
450	1.00	-.43									
131	0.99	-.55									
095	0.99	-.58									
105	0.99	-.63									
309	1.00	-.65									
324	0.98	-.81									
023	0.97	-1.01									
258	0.97	-1.03									
117	0.96	-1.16									
055	0.95	-1.39									
234	0.90	-2.15									
220	0.89	-2.33									
393	0.87	-2.60									
457	0.76 s	-4.47									
247	0.60 s	-6.92									
Meth: 131.00 PCT											
<u>Water Soluble Magnes</u>											
AA	220	0.87	1.19								
Avg	0.86										
309	0.85	-.29									
Meth: 131.30 PCT											
<u>Water Soluble Magnes</u>											
ICP	255	0.96	.84								
Avg	0.94										
300	0.91	-.90									
Meth: 131.99 PCT											
<u>Water Soluble Magnes</u>											
Other	027	0.93	.00								
Meth: 131.XX PCT											
<u>Water Soluble Magnes</u>											
255	0.96	1.11									
027	0.93	.39									
Avg	0.91										
300	0.91	-.24									
220	0.87 R	-1.34									
309	0.85	-1.43									
Meth: 144.01 PCT											
<u>Gravimetric</u>											
055	16.58 s	4.41									
095	16.03	2.04									
230	15.70 R	1.82									
324	15.95	1.72									
057	15.85	1.27									
296	15.70	.65									
200	15.55	.34									
102	15.57	.14									
Avg	15.55										
114	15.55	-.03									
043	15.50	-.23									
405	15.53	-.26									
028	15.49	-.36									
117	15.45	-.47									
105	15.50	-.63									
372	15.34	-.90									
073	15.34	-.92									
457	15.31	-1.04									
371	15.18	-1.60									
Meth: 144.02 PCT											
<u>Sulfur</u>											
Gravimetric	292	13.93 S	.00								
Meth: 144.70 PCT											
<u>Sulfur</u>											
Spectrometric	393	15.05	.71								
Meth: 144.99 PCT											
<u>Sulfur</u>											
Other	232	16.44	2.36								
360	15.84	1.15									
177	15.71	.89									
354	15.57 R	.83									
361	15.62	.70									
009	15.46	.59									
136	15.53	.53									
291	15.51	.50									
419	15.47	.42									
037	15.45	.38									
457	15.43	.34									
368	15.40	.33									
351	15.35	.29									
027	15.32	.12									
Avg	15.26										
390	15.25	-.10									
330	15.25	-.10									
423	15.15	-.24									
040	14.92	-.76									
023	14.71	-1.08									
096	14.59	-1.33									
450	14.57	-1.37									
255	14.44	-1.63									
090	14.29	-1.91									
035	12.95 s	-4.58									
Meth: 144.XX PCT											
<u>Sulfur</u>											
055	16.58	2.51									
232	16.44	2.24									
095	16.03	1.33									
324	15.95	1.17									
230	15.70 R	1.06									
057	15.85	.95									
360	15.84	.93									
354	15.57 R	.69									
177	15.71	.65									
296	15.70	.64									
009	15.46	.48									
361	15.62	.45									
105	15.50	.36									
102	15.57	.36									
200	15.55	.36									
114	15.55	.30									
405	15.53	.29									
136	15.53	.26									
291	15.51	.24									
028	15.49	.21									
043	15.50	.20									
419	15.47	.15									
037	15.45	.13									
117	15.45	.12									
457	15.43	.09									
Avg	15.40										
372	15.34	-.14									
073	15.34	-.15									
027	15.32	-.18									
368	15.40	-.19									
457	15.31	-.22									
351	15.35	-.27									
390	15.25	-.34									
330	15.25	-.34									
371	15.18	-.49									
423	15.15	-.56									
393	15.05	-.76									
040	14.92	-1.10									
Meth: 151.00 PPM											
<u>Arsenic</u>											
<u>Atomic Absorption</u>											
136	17.90	.71									
Meth: 151.30 PPM											
<u>Arsenic</u>											
<u>ICP</u>											
368	26.65 s	5.60									
037	19.59	1.50									
102	18.07	.83									
450	18.00	.73									
247	17.50	.55									
Avg	16.43										
009	15.65	-.38									
027	15.27	-.54									
393	13.71 X	-1.26									
255	13.63	-1.30									
Meth: 151.99 PPM											
<u>Arsenic</u>											
<u>Other</u>											
231	19.06	.65									
409	19.05	.43									
Avg	18.54										
220	17.50	-1.37									

* 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: 151.XX PPM											
<u>Arsenic</u>											
368	26.65 s	5.43									
037	19.59	1.23									
231	19.06	1.01									
409	19.05	.95									
220	17.50 R	.74									
102	18.07	.59									
136	17.90	.47									
450	18.00	.45									
247	17.50	.32									
Avg	17.04										
009	15.65	-.66									
027	15.27	-.84									
393	13.71 X	-1.57									
255	13.63	-1.61									
Meth: 165.00 PCT											
<u>Acid Soluble Boron</u>											
258	0.127	1.31									
105	0.123	.89									
397	0.122	.79									
393	0.118	.38									
Avg	0.114										
023	0.113	-.18									
057	0.109	-.62									
428	0.104	-1.15									
055	0.106 R	-1.40									
220	0.101	-1.58									
Meth: 165.99 PCT											
<u>Acid Soluble Boron</u>											
432	0.122	.97									
090	0.115	.63									
324	0.119	.61									
393	0.118	.52									
009	0.117	.42									
433	0.117	.39									
043	0.116	.38									
423	0.115	.19									
Avg	0.114										
368	0.130 R	2.40									
360	0.131	2.26									
354	0.125	1.61									
324	0.119	.69									
090	0.115	.67									
Meth: 165.XX PCT											
<u>Acid Soluble Boron</u>											
232	0.110	-.47									
291	0.110	-.50									
057	0.109	-.60									
428	0.104	-1.20									
200	0.105	-1.21									
042	0.103	-1.41									
055	0.106 R	-1.52									
114	0.100	-1.65									
220	0.101	-1.69									
Avg	0.110	-.42									
232	0.110	-.45									
291	0.110	-.49									
200	0.105	-1.23									
042	0.103	-1.44									
114	0.100	-1.68									
Meth: 171.70 PCT											
<u>Water Soluble Boron</u>											
432	0.170	.96									
Avg	0.144										
027	0.118	-.76									
Meth: 171.XX PCT											
<u>Water Soluble Boron</u>											
432	0.170	1.33									
Avg	0.139										
416	0.130	-.33									
027	0.118	-.79									
Meth: 181.00 PPM											
<u>Cadmium</u>											
136	5.95	.16									
368	5.90	.04									
Avg	5.88										
255	5.75	-.25									
037	5.83	-.34									
232	5.75	-.38									
247	5.75	-.55									
393	5.45	-.83									
220	5.45	-.84									
457	5.38	-.99									
Meth: 181.99 PPM											
<u>Cadmium</u>											
409	6.65	1.05									
Avg	6.56										
231	6.47	-.63									
Meth: 181.XX PPM											
<u>Cadmium</u>											
419	7.05	2.26									
409	6.65	1.50									
231	6.47	1.14									
009	6.25	.72									
102	6.00	.24									
136	5.95	.16									
368	5.90	.04									
Avg	5.88										
255	5.75	-.25									
037	5.83	-.34									
232	5.75	-.38									
247	5.75	-.55									
393	5.45	-.83									
220	5.45	-.84									
457	5.38	-.99									
Meth: 181.30 PPM											
<u>Cadmium</u>											
ICP	7.05 s	3.93									
419	6.25	1.58									
009	6.00	.85									
102	5.75	.74									
247	5.83	.60									
037	5.90	.54									
368	5.75	.45									
232	5.75	.12									
255	5.75	.12									
Avg	5.72										
393	5.45	-.78									
035	5.24	-1.42									
450	5.23	-1.49									
Meth: 190.99 PCT											
<u>Water Soluble Chlori</u>											
409	6.65	1.05									
Avg	6.56										
231	6.47	-.63									
Meth: 190.XX PCT											
<u>Water Soluble Chlori</u>											
419	7.05	2.26									
409	6.65	1.50									
231	6.47	1.14									
009	6.25	.72									
102	6.00	.24									
136	5.95	.16									
368	5.90	.04									
Avg	5.88										
255	5.75	-.25									
037	5.83	-.34									
232	5.75	-.38									
247	5.75	-.55									
393	5.45	-.83									
220	5.45	-.84									
457	5.38	-.99									

* 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: 190.XX PCT											
<u>Water Soluble Chlori</u>											
423	9.14	-1.14									
023	8.79	-1.78									
Meth: 191.00 PPM											
<u>Chromium</u>											
102	68.50	.35									
232	69.10	.33									
Avg	63.67										
037	59.40	-.25									
231	42.86	-1.20									
255	30.66	-1.89									
027	25.21	-2.21									
035	38.04 R	-2.31									
Meth: 202.00 PPM											
<u>Acid Soluble Cobalt</u>											
AA	136	21.50	.71								
Meth: 202.30 PPM											
<u>Acid Soluble Cobalt</u>											
102	68.50	.33									
232	69.10	.31									
Avg	64.17										
037	59.40	-.28									
255	30.66	-1.94									
027	25.21	-2.26									
035	38.04 R	-2.35									
Meth: 191.99 PPM											
<u>Chromium</u>											
231	42.86	.71									
Meth: 191.XX PPM											
<u>Chromium</u>											
220	78.50	.86									
368	76.60	.75									
009	75.40	.67									
419	74.50	.65									
450	73.50	.57									
393	73.14	.52									
247	73.00	.51									
096	71.00	.43									
102	68.50	.33									
232	69.10	.31									
Avg	64.17										
037	59.40	-.28									
255	30.66	-1.94									
027	25.21	-2.26									
035	38.04 R	-2.35									
Meth: 191.99 PPM											
<u>Other</u>											
231	42.86	.71									
Meth: 191.XX PPM											
<u>Chromium</u>											
220	78.50	.86									
368	76.60	.75									
009	75.40	.67									
419	74.50	.65									
450	73.50	.57									
Meth: 202.99 PPM											
<u>Acid Soluble Cobalt</u>											
231	6.68	.71									
Meth: 202.XX PPM											
<u>Acid Soluble Cobalt</u>											
136	21.50	1.93									
232	15.50	.80									
009	14.45	.59									
057	14.18	.54									
450	13.70	.46									
037	11.64	.07									
393	11.48	.05									
Avg	11.32										
035	11.15	-.03									
102	8.65	-.51									
247	6.90	-.83									
231	6.68	-.88									
368	0.00	-2.14									
Meth: 221.00 PCT											
<u>Acid Soluble Copper</u>											
043	0.0100 S	33.04									
457	0.0016	.81									
105	0.0015	.67									
Avg	0.0014										
136	0.0011	-1.18									
Meth: 221.30 PCT											
<u>Acid Soluble Copper</u>											
043	0.0100 s	24.41									
423	0.0038 s	6.40									
433	0.0032 A	4.76									
041	0.0020 R	3.15									
095	0.0024	2.35									
402	0.0020	1.31									
035	0.0019	1.13									
324	0.0017	.59									
393	0.0017	.56									
102	0.0016	.43									
247	0.0017	.38									
220	0.0017	.34									
232	0.0016	.11									
457	0.0016	.10									
Avg	0.0015										
057	0.0015	-.03									
231	0.0014	-.41									
009	0.0014	-.47									
105	0.0015	-.51									
368	0.0013	-.85									
136	0.0011	-1.42									
Meth: 221.99 PCT											
<u>Other</u>											
220	0.0017	.90									
Avg	0.0015										
231	0.0014	-.83									
Meth: 221.XX PCT											
<u>Acid Soluble Copper</u>											
034	1.06	-.12									
028	0.99	-.71									
371	0.96	-.87									
397	0.97	-.88									
428	0.84	-2.14									
Meth: 241.30 PCT											
<u>Acid Soluble Iron</u>											
405	1.45 s	5.44									
090	1.32 s	3.84									
131	1.25 A	2.89									
433	1.25	2.75									
330	1.15	1.62									
360	1.14	1.50									
102	1.09	.99									
450	1.09	.87									
095	1.09	.72									
390	1.07	.70									
409	1.08	.62									
354	1.08	.56									
096	1.07	.43									

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 241.30 PCT														
Acid Soluble Iron														
ICP			043	1.22	1.58	043	1.22	1.58	043	1.22	1.58	043	1.22	1.58
042	1.06	.32	040	1.11 R	1.42	040	1.11 R	1.42	040	1.11 R	1.42	040	1.11 R	1.42
035	1.05	.12	105	1.15	1.15	105	1.15	1.15	105	1.15	1.15	105	1.15	1.15
432	1.05	.12	330	1.15	1.04	330	1.15	1.04	330	1.15	1.04	330	1.15	1.04
426	1.04	.11	177	1.14	.96	177	1.14	.96	177	1.14	.96	177	1.14	.96
027	1.04	.04	360	1.14	.95	360	1.14	.95	360	1.14	.95	360	1.14	.95
Avg	1.04		102	1.09	.62	102	1.09	.62	102	1.09	.62	102	1.09	.62
423	1.04	-.07	450	1.09	.50	450	1.09	.50	450	1.09	.50	450	1.09	.50
324	1.04	-.07	390	1.07	.46	390	1.07	.46	390	1.07	.46	390	1.07	.46
009	1.02	-.36	055	1.08	.45	055	1.08	.45	055	1.08	.45	055	1.08	.45
057	1.00	-.48	457	1.11	.44	457	1.11	.44	457	1.11	.44	457	1.11	.44
117	1.03	-.56	296	1.10	.39	296	1.10	.39	296	1.10	.39	296	1.10	.39
231	1.00	-.56	095	1.09	.32	095	1.09	.32	095	1.09	.32	095	1.09	.32
393	0.99	-.69	409	1.08	.27	409	1.08	.27	409	1.08	.27	409	1.08	.27
291	0.99	-.70	354	1.08	.23	354	1.08	.23	354	1.08	.23	354	1.08	.23
255	0.98	-.75	096	1.07	.08	096	1.07	.08	096	1.07	.08	096	1.07	.08
368	1.02	-.87	Avg	1.06		Avg	1.06		Avg	1.06		Avg	1.06	
041	0.98	-1.01	034	1.06	-.09	034	1.06	-.09	034	1.06	-.09	034	1.06	-.09
023	0.96	-1.27	042	1.06	-.11	042	1.06	-.11	042	1.06	-.11	042	1.06	-.11
232	0.94	-1.31	035	1.05	-.19	035	1.05	-.19	035	1.05	-.19	035	1.05	-.19
419	0.92	-1.62	432	1.05	-.19	432	1.05	-.19	432	1.05	-.19	432	1.05	-.19
114	0.92	-1.74	426	1.04	-.20	426	1.04	-.20	426	1.04	-.20	426	1.04	-.20
402	0.64 s	-5.25	027	1.04	-.25	027	1.04	-.25	027	1.04	-.25	027	1.04	-.25
247	0.55 s	-6.45	324	1.04	-.29	324	1.04	-.29	324	1.04	-.29	324	1.04	-.29
Meth: 241.99 PCT														
Acid Soluble Iron														
Other			423	1.04	-.29	423	1.04	-.29	423	1.04	-.29	423	1.04	-.29
234	1.23	-.71	009	1.02	-.51	009	1.02	-.51	009	1.02	-.51	009	1.02	-.51
Meth: 241.30 PCT														
Acid Soluble Iron														
090	1.32	2.74	117	1.03	-.55	117	1.03	-.55	117	1.03	-.55	117	1.03	-.55
131	1.25	2.00	057	1.00	-.63	057	1.00	-.63	057	1.00	-.63	057	1.00	-.63
433	1.25	1.89	231	1.00	-.67	231	1.00	-.67	231	1.00	-.67	231	1.00	-.67
220	1.18 R	1.73	393	0.99	-.80	393	0.99	-.80	393	0.99	-.80	393	0.99	-.80
234	1.23	1.68	291	0.99	-.80	291	0.99	-.80	291	0.99	-.80	291	0.99	-.80
Meth: 241.99 PCT														
Acid Soluble Iron														
405	1.45 A	3.98	368	1.02	-.80	368	1.02	-.80	368	1.02	-.80	368	1.02	-.80
090	1.32	2.74	255	0.98	-.84	255	0.98	-.84	255	0.98	-.84	255	0.98	-.84
131	1.25	2.00	028	0.99	-.85	028	0.99	-.85	028	0.99	-.85	028	0.99	-.85
433	1.25	1.89	041	0.98	-.99	041	0.98	-.99	041	0.98	-.99	041	0.98	-.99
220	1.18 R	1.73	371	0.96	-1.04	371	0.96	-1.04	371	0.96	-1.04	371	0.96	-1.04
234	1.23	1.68	397	0.97	-1.07	397	0.97	-1.07	397	0.97	-1.07	397	0.97	-1.07
Meth: 241.30 PCT														
Acid Soluble Iron														
ICP			023	0.96	-1.20	023	0.96	-1.20	023	0.96	-1.20	023	0.96	-1.20

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 251.30 PCT														
Acid Soluble Manganese														
ICP			136	24.50	2.08	136	24.50	2.08	136	24.50	2.08	136	24.50	2.08
354	0.341 R	2.34	457	24.32	2.00	457	24.32	2.00	457	24.32	2.00	457	24.32	2.00
432	0.320	1.39	419	21.00	1.21	419	21.00	1.21	419	21.00	1.21	419	21.00	1.21
057	0.318	1.19	409	17.40	.31	409	17.40	.31	409	17.40	.31	409	17.40	.31
423	0.316	1.10	368	16.70	.22	368	16.70	.22	368	16.70	.22	368	16.70	.22
114	0.315	1.09	450	16.50	.15	450	16.50	.15	450	16.50	.15	450	16.50	.15
360	0.313	.98	Avg	16.15		Avg	16.15		Avg	16.15		Avg	16.15	
027	0.313	.95	102	15.80	-.11	102	15.80	-.11	102	15.80	-.11	102	15.80	-.11
090	0.310	.84	037	14.89	-.31	037	14.89	-.31	037	14.89	-.31	037	14.89	-.31
368	0.300 R	.75	393	14.73	-.35	393	14.73	-.35	393	14.73	-.35	393	14.73	-.35
247	0.306	.63	231	14.59	-.43	231	14.59	-.43	231	14.59	-.43	231	14.59	-.43
102	0.300	.50	027	14.28	-.46	027	14.28	-.46	027	14.28	-.46	027	14.28	-.46
131	0.298	.46	009	14.85	-.51	009	14.85	-.51	009	14.85	-.51	009	14.85	-.51
450	0.300	.37	035	13.80	-.61	035	13.80	-.61	035	13.80	-.61	035	13.80	-.61
26	0.298	.26	232	12.90	-.80	232	12.90	-.80	232	12.90	-.80	232	12.90	-.80
Meth: 251.30 PCT														
Acid Soluble Manganese														
Avg	0.292		220	13.00	-.81	220	13.00	-.81	220	13.00	-.81	220	13.00	-.81
232	0.291	-.08	255	9.07	-1.73	255	9.07	-1.73	255	9.07	-1.73	255	9.07	-1.73
042	0.290	-.10	Meth: 261.00 PCT											
419	0.290	-.10	Acid Soluble Manganese											
231	0.290	-.10	AA			258	0.320	1.29	258	0.320	1.29	258	0.320	1.29
433	0.291	-.18	095	0.289	-.27	220	0.315	1.26	220	0.315	1.26	220	0.315	1.26
095	0.289	-.27	390	0.291	-.52	397	0.311	.79	397	0.311	.79	397	0.311	.79
390	0.291	-.52	035	0.281	-.56	028	0.313	.68	028	0.313	.68	028	0.313	.68
035	0.281	-.56	291	0.269	-1.08	351	0.310	.46	351	0.310	.46	351	0.310	.46
291	0.269	-1.08	096	0.260	-1.50	055	0.305	.35	055	0.305	.35	055	0.305	.35
096	0.260	-1.50	393	0.259	-1.54	Avg	0.303		Avg	0.303		Avg	0.303	
393	0.259	-1.54	426	0.260	-1.56	043	0.297	-.51	043	0.297	-.51	043	0.297	-.51
426	0.260	-1.56	402	0.239	-2.49	105	0.295	-.67	105	0.295	-.67	105	0.295	-.67
402	0.239	-2.49	023	0.234 S	-2.79	296	0.291	-.94	296	0.291	-.94	296	0.291	-.94
023	0.234 S	-2.79	300	0.145 s	-6.89	457	0.300	-1.35	457	0.300	-1.35	457	0.300	-1.35
300	0.145 s	-6.89	Meth: 261.31 PCT											
Acid Soluble Manganese														
ICP			177	0.280	-1.55	177	0.280	-1.55	177	0.280	-1.55	177	0.280	-1.55
324	0.293	.71	Meth: 261.30 PCT											
Acid Soluble Manganese														
ICP			041	0.335 S	2.59	041	0.335 S	2.59	041	0.335 S	2.59	041	0.335 S	2.59

* 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: 261.99 PCT											
Acid Soluble Manganese											
Other			419	0.290	-0.35	220	0.02	-0.64	255	7.95	-0.59
034	0.315	1.19	042	0.290	-0.35	450	0.00	-0.65	393	7.77	-0.65
Avg	0.302		231	0.290	-0.35				037	7.64	-0.77
037	0.300	-0.44	433	0.291	-0.36	Meth: 289.30 PPM					
255	0.292	-0.94	296	0.291	-0.45	Molybdenum					
			095	0.289	-0.47	ICP					
Meth: 261.99 PCT											
Acid Soluble Manganese											
041	0.335 s	2.53	390	0.291	-0.62	433	13.35 s	4.28	Meth: 291.00 PPM		
354	0.341	2.21	035	0.281	-0.82	247	10.50	1.71	Nickel		
258	0.320	1.23	177	0.280	-0.84	450	10.00	1.50	Atomic Absorption		
432	0.320	1.23	291	0.269	-1.38	419	9.65	0.87	136	37.00	0.70
220	0.315	1.15	096	0.260	-1.81	232	9.05	0.40	457	37.10	0.65
432	0.315	1.15	393	0.259	-1.86	368	9.00	0.28	Avg	35.20	
057	0.318	1.00	426	0.260	-1.86	057	8.70	0.09	220	31.50	-1.26
457	0.300 R	0.99	402	0.239	-2.85	Avg	8.70		Meth: 291.30 PPM		
114	0.315	0.91	023	0.234 s	-3.16	035	8.32	-0.44	Nickel		
034	0.315	0.91	300	0.145 s	-7.45	102	8.66	-0.67	ICP		
423	0.316	0.91				255	7.95	-0.76	Meth: 301.30 PPM		
397	0.311	0.81	Meth: 271.30 PCT								
028	0.313	0.79	Water Soluble Mangan								
360	0.313	0.79	432	0.070	-0.71	393	7.77	-0.85	Selenium		
027	0.313	0.76				037	7.64	-0.97	ICP		
368	0.300	0.70				009	7.10	-1.56	Meth: 289.99 PPM		
351	0.310	0.64	Meth: 281.30 PPM								
090	0.310	0.63	Mercury								
055	0.305	0.46	393	2.89 X	0.87	Meth: 289.99 PPM					
247	0.306	0.41	Avg	1.45		Molybdenum					
131	0.298	0.39	450	0.00	-0.87	Other					
102	0.300	0.38				231	6.73	0.71	Meth: 291.99 PPM		
037	0.300	0.25	Meth: 281.99 PPM								
450	0.300	0.14	Mercury								
009	0.298	0.08	220	0.02	0.71	Nickel					
Avg	0.297		043	0.297	-0.17	232	9.05	0.47	Meth: 301.99 PPM		
324	0.293	-0.20	324	0.293	-0.20	368	9.00	0.38	Selenium		
232	0.291	-0.31	232	0.291	-0.31	057	8.70	0.16	Other		
105	0.295	-0.32	105	0.295	-0.32	Avg	8.54		Meth: 301.99 PPM		
255	0.292	-0.32	255	0.292	-0.32	035	8.32	-0.32	Selenium		
									Meth: 291.99 PPM		
									Nickel		
									Other		
									Meth: 301.99 PPM		
									Selenium		
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									Meth: 301.99 PPM		
									Selenium		
									Meth: 291.99 PPM		

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	
Meth: 311.30 PCT												
Sodium												
Flame Photometric												
450	0.28	.71										Meth: 325.30 PCT
Meth: 311.99 PCT												
Sodium												
Other												
057	0.36	.98										ICP
035	0.35	.88										432
009	0.35	.74										0.310
232	0.35	.29										.71
Avg	0.35											
102	0.34	-.52										
423	0.32	-1.69										
Meth: 311.XX PCT												
Sodium												
057	0.36	.88										
035	0.35	.72										
009	0.35	.65										
232	0.35	.50										
102	0.34	.38										
Avg	0.34											
423	0.32	-.66										
450	0.28	-1.99										
Meth: 321.00 PCT												
Acid Soluble Zinc												
Atomic Absorption												
200	0.260 s	3.40										
055	0.245	1.59										
028	0.237	.90										
177	0.239	.83										
043	0.239	.83										
258	0.235	.67										
296	0.234	.33										
Avg	0.232											
371	0.232	-.11										
351	0.229	-.41										
Meth: 321.30 PCT												
Acid Soluble Zinc												
ICP												
397	0.228	-.47										
105	0.228	-.83										
220	0.225	-.99										
457	0.215	-2.03										
Meth: 321.30 PCT												
Acid Soluble Zinc												
Atomic Absorption												
432	0.560 s	19.16										
330	0.300 S	3.80										
368	0.264 S	3.32										
255	0.278 R	2.61										
057	0.265	1.76										
042	0.265	1.75										
090	0.260	1.43										
354	0.256	1.23										
292	0.250	.84										
426	0.250	.84										
360	0.250	.82										
114	0.245	.62										
027	0.246	.61										
390	0.238	.61										
102	0.245	.54										
095	0.242	.44										
324	0.242	.43										
419	0.240	.25										
423	0.236	.02										
Avg	0.236											
009	0.235	-.16										
433	0.236	-.21										
450	0.235	-.30										
402	0.230	-.37										
037	0.234	-.37										
131	0.229	-.46										
232	0.228	-.51										
041	0.230	-.68										
096	0.222	-.90										
Meth: 321.99 PCT												
Acid Soluble Zinc												
Other												
231	0.240	.97										
Avg	0.231											
220	0.221	-.75										
Meth: 321.XX PCT												
Acid Soluble Zinc												
432	0.560 s	21.13										
330	0.300 s	4.22										
368	0.264 s	3.68										
255	0.278 R	2.92										
057	0.265	1.98										
042	0.265	1.98										
200	0.260	1.75										
090	0.260	1.62										
354	0.256	1.40										
292	0.250	.97										
426	0.250	.97										
360	0.250	.95										
231	0.240	.73										
055	0.245	.73										
114	0.245	.73										
027	0.246	.71										
390	0.238	.68										
102	0.245	.64										
Meth: 321.XX PCT												
Acid Soluble Zinc												
432	0.560 s	21.13										
330	0.300 s	4.22										
368	0.264 s	3.68										
255	0.278 R	2.92										
057	0.265	1.98										
042	0.265	1.98										
200	0.260	1.75										
090	0.260	1.62										
354	0.256	1.40										
292	0.250	.97										
426	0.250	.97										
360	0.250	.95										
231	0.240	.73										
055	0.245	.73										
114	0.245	.73										
027	0.246	.71										
390	0.238	.68										
102	0.245	.64										

* 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
001.10	7	0.00	1.00	0.28	050.60	6	0.74	2.04	0.24
001.99	14	- 0.34	1.50	0.58	050.61	8	0.00	1.03	0.09
001.XX	21	- 0.16	1.40	0.52	050.99	15	- 0.05	0.97	0.35
002.99	7	0.00	1.02	0.19	050.XX	64	0.01	1.36	0.32
002.XX	8	0.00	1.03	0.13	060.00	6	0.00	1.00	0.29
009.10	4	0.00	1.04	0.25	060.XX	7	2.34	6.26	0.42
009.XX	5	0.14	0.96	0.85	101.30	16	0.88	2.57	0.79
010.11	7	- 0.49	1.57	0.35	101.XX	18	0.78	2.44	0.76
010.12	5	0.00	1.02	0.27	121.00	14	- 0.27	1.39	0.28
010.60	54	- 0.12	1.12	0.40	121.30	36	0.79	4.60	0.36
010.99	4	- 1.25	2.65	0.97	121.XX	52	0.44	2.97	0.28
010.XX	68	- 0.19	1.26	0.44	131.00	2	0.00	0.41	0.82
020.10	5	0.00	1.00	0.33	131.30	2	0.00	1.18	0.23
020.20	19	- 0.14	1.98	0.54	131.XX	5	- 0.20	1.03	0.42
020.40	7	0.01	0.94	0.41	144.01	18	0.28	1.39	0.46
020.50	11	0.00	0.92	0.43	144.99	24	- 0.16	1.34	0.23
020.99	2	25.30	35.78	0.59	144.XX	43	- 0.17	1.34	0.24
020.XX	42	0.15	1.90	0.46	151.30	9	0.53	1.85	1.00
030.20	2	0.00	1.21	0.12	151.99	3	0.00	0.68	0.73
030.40	2	0.00	1.21	0.13	151.XX	13	0.36	1.55	0.87
030.XX	5	0.61	1.65	0.16	165.00	9	- 0.100	0.984	0.426
040.10	2	0.00	1.22	0.00	165.99	19	3.490	14.735	1.506
040.20	2	0.00	1.02	0.48	165.XX	28	2.221	11.591	1.213
040.40	2	0.00	1.22	0.05	171.99	2	0.000	1.078	0.411
040.XX	7	- 0.06	0.97	0.27	171.XX	3	0.000	0.994	0.418
041.10	9	0.00	0.98	0.30	181.00	3	0.00	1.07	0.26
041.20	2	0.00	1.19	0.21	181.30	11	0.36	1.49	0.34
041.40	3	0.00	1.12	0.06	181.99	2	0.00	0.77	0.67
041.50	12	- 0.93	2.35	0.25	181.XX	16	0.00	0.99	0.21
041.60	10	0.33	1.39	0.40	190.00	8	0.44	1.43	0.13
041.99	2	0.00	0.36	0.83	190.99	4	0.00	1.05	0.21
041.XX	31	- 0.15	1.44	0.38	190.XX	12	0.10	1.04	0.14
048.20	2	0.00	1.22	0.05	191.30	13	- 0.12	1.06	0.51
048.XX	3	0.00	1.11	0.08	191.XX	15	- 0.10	1.05	0.47
050.00	15	0.13	1.07	0.31	202.30	10	0.00	1.03	0.06
050.10	2	- 42.66	60.33	0.53	202.XX	12	0.00	1.02	0.05
050.30	7	0.00	1.00	0.26	221.00	4	8.2058	16.433	1.9228
050.50	5	0.45	1.34	0.68	221.30	17	0.2528	1.2866	0.5145
050.51	10	0.12	1.03	0.23	221.99	2	0.0000	1.1785	0.2357

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
221.XX	23	1.5898	5.2695	0.9304					
241.00	13	0.00	0.84	0.55					
241.30	35	0.01	2.06	0.43					
241.XX	49	-	1.49	0.46					
251.00	3	0.00	1.10	0.17					
251.30	11	0.29	1.26	0.31					
251.99	2	0.00	1.12	0.35					
251.XX	16	0.00	1.00	0.19					
261.00	11	0.000	0.793	0.619					
261.30	30	-	1.729	0.404					
261.99	3	0.000	1.020	0.374					
261.XX	45	-	1.537	0.416					
281.30	2	0.00	1.22	0.02					
281.XX	3	0.00	1.12	0.02					
289.30	13	0.33	1.48	0.42					
289.XX	14	0.29	1.40	0.40					
291.00	3	0.00	1.08	0.22					
291.30	11	-	2.43	0.41					
291.XX	15	-	2.39	0.36					
301.30	3	0.00	1.11	0.11					
301.XX	4	0.00	1.06	0.17					
311.99	6	0.00	0.88	0.52					
311.XX	7	0.00	0.99	0.29					
321.00	13	0.247	1.240	0.544					
321.30	37	0.103	4.266	0.558					
321.99	2	0.000	0.941	0.554					
321.XX	51	0.103	4.002	0.554					