

- Pass 1 Results for 68 Labs - - Pass 2 Results for 68 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	8	4.82	0.14	0.09	8	4.82	0.14	0.09
Ammoniacal Nitrogen, Other		001.99	9	4.92	0.20	0.03	9	4.92	0.20	0.03
Method Group 001.XX PCT			17	4.88	0.18	0.06	15	4.90	0.17	0.04
Nitrate Nitrogen, Other		002.99	1	0.01	0.00	0.00	1	0.01	0.00	0.00
Ammon & Nitrate N, Devarda	892.01	009.10	1	4.98	0.11	0.15	1	4.98	0.11	0.15
Total Nitrogen, Modified Comprehensive	978.02	010.11	8	4.98	0.15	0.05	8	4.98	0.15	0.05
Total Nitrogen, Salicylic	955.04D	010.12	2	5.08	0.03	0.02	2	5.08	0.03	0.02
Total Nitrogen, Combustion		010.60	46	5.04	0.13	0.07	44	5.04	0.12	0.05
Total Nitrogen, Other		010.99	4	5.04	0.12	0.08	4	5.04	0.12	0.08
Method Group 010.XX PCT			60	5.04	0.13	0.07	58	5.04	0.12	0.05
Total Phosphate, Grav Quimociac	962.02	020.10	4	5.51	0.10	0.05	4	5.51	0.10	0.05
Total Phosphate, Spectrometric	958.01	020.20	14	5.49	0.08	0.04	14	5.49	0.08	0.04
Total Phosphate, Automated	978.01	020.40	7	5.50	0.16	0.08	7	5.50	0.16	0.08
Total Phosphate, ICP		020.50	10	5.46	0.18	0.12	9	5.46	0.18	0.09
Total Phosphate, Other		020.99	1	5.65	0.07	0.10	1	5.65	0.07	0.10
Method Group 020.XX PCT			37	5.50	0.14	0.07	36	5.50	0.14	0.06
Insoluble Phosphate, Grav Quimociac	963.03C	030.10	1	0.03	0.00	0.00	1	0.03	0.00	0.00
Insoluble Phosphate, Spectrometric	963.03C	030.20	2	0.06	0.05	0.01	2	0.06	0.05	0.01
Insoluble Phosphate, Automated	978.01	030.40	1	0.04	0.00	0.00	1	0.04	0.00	0.00
Insoluble Phosphate, ICP		030.50	1	0.04	0.00	0.00	1	0.04	0.00	0.00
Method Group 030.XX PCT			5	0.05	0.03	0.00	4	0.05	0.03	0.00
InDir Available Phosphate, Grav Quim	960.02	040.10	1	5.46	0.04	0.06	1	5.46	0.04	0.06
InDir Available Phosphate, Spectrometri	960.02	040.20	1	5.43	0.04	0.05	1	5.43	0.04	0.05
InDir Available Phosphate, Automated	960.02	040.40	1	5.18	0.06	0.08	1	5.18	0.06	0.08
InDir Available Phosphate, ICP		040.50	1	5.27	0.00	0.00	1	5.27	0.00	0.00
InDir Available Phosphate, Other		040.99	1	5.49	0.00	0.00	1	5.49	0.00	0.00
Method Group 040.XX PCT			5	5.36	0.13	0.04	5	5.36	0.13	0.04
Dir Available Phosphate, Grav Quimociac	960.03E	041.10	13	5.32	0.18	0.05	12	5.34	0.18	0.04
Dir Available Phosphate, Spectrometric	960.03D	041.20	4	5.30	0.16	0.04	4	5.30	0.16	0.04
Dir Available Phosphate, Automated	978.01	041.40	3	5.43	0.05	0.08	3	5.43	0.05	0.08
Dir Available Phosphate, ICP		041.50	10	5.50	0.18	0.10	9	5.54	0.15	0.06
Dir Available Phosphate, EDTA Extract	993.01	041.60	7	5.39	0.09	0.07	7	5.39	0.09	0.07
Dir Available Phosphate, Other		041.99	2	5.35	0.08	0.03	2	5.35	0.08	0.03
Method Group 041.XX PCT			39	5.39	0.17	0.06	38	5.39	0.17	0.05
Water Soluble Phosphate, Spectrometric	970.01	048.20	3	2.20	1.75	0.06	3	2.20	1.75	0.06
Soluble Potash, STPB Oxalate	958.02	050.00	13	5.53	0.14	0.06	12	5.53	0.14	0.05
Soluble Potash, AA (Oxalate)		050.30	7	5.41	0.19	0.12	6	5.44	0.16	0.06
Soluble Potash, AA (Citrate)		050.31	1	5.25	0.03	0.04	1	5.25	0.03	0.04
Soluble Potash, ICP (Oxalate)		050.50	6	5.69	0.23	0.07	6	5.69	0.23	0.07

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Method	AOAC Ref.	Method Code	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups
Soluble Potash, ICP (Citrate)		050.51	7	5.67	0.16	0.08	7	5.67	0.16	0.08
Soluble Potash, Flame (Oxalate)	983.02(a)	050.60	5	5.67	0.17	0.04	5	5.67	0.17	0.04
Soluble Potash, Flame (Citrate)	983.02(b)	050.61	10	5.64	0.15	0.05	10	5.64	0.15	0.05
Soluble Potash, Other		050.99	14	5.65	0.21	0.08	14	5.65	0.21	0.08
Method Group 050.XX PCT			63	5.60	0.20	0.07	61	5.60	0.19	0.06
Free Water, Vacuum Oven	965.08B	060.00	6	1.49	0.26	0.08	6	1.49	0.26	0.08
Acid Soluble Calcium, AA	945.04	101.00	1	8.00	0.13	0.18	1	8.00	0.13	0.18
Acid Soluble Calcium, ICP		101.30	15	7.91	0.46	0.22	14	7.87	0.42	0.16
Acid Soluble Calcium, Titrimetric	945.03	101.70	1	8.13	0.08	0.11	1	8.13	0.08	0.11
Method Group 101.XX PCT			17	7.93	0.44	0.21	16	7.89	0.40	0.16
Acid Soluble Magnesium, AA	984.01	121.00	9	3.01	0.14	0.07	9	3.01	0.14	0.07
Acid Soluble Magnesium, ICP		121.30	31	3.08	0.14	0.07	29	3.08	0.13	0.05
Acid Soluble Magnesium, Other		121.99	1	3.26	0.06	0.08	1	3.26	0.06	0.08
Method Group 121.XX PCT			41	3.07	0.14	0.07	39	3.07	0.14	0.06
Water Soluble Magnesium, AA		131.00	1	2.44	0.10	0.14	1	2.44	0.10	0.14
Water Soluble Magnesium, ICP		131.30	4	2.61	0.26	0.03	4	2.61	0.26	0.03
Method Group 131.XX PCT			5	2.57	0.24	0.05	5	2.57	0.24	0.05
Sulfur, Gravimetric	980.02a	144.01	2	14.55	0.11	0.03	2	14.55	0.11	0.03
Sulfur, Other		144.99	8	12.73	3.88	0.14	7	12.57	4.14	0.09
Method Group 144.XX PCT			10	13.10	3.53	0.12	9	13.01	3.72	0.07
Arsenic, ICP		151.30	8	6.13	2.52	0.34	8	6.13	2.52	0.34
Arsenic, Other		151.99	1	6.33	0.03	0.04	1	6.33	0.03	0.04
Method Group 151.XX PPM			9	6.16	2.37	0.31	9	6.16	2.37	0.31
Acid Soluble Boron, Spectrometric	982.01	165.00	4	1.466	0.069	0.067	4	1.466	0.069	0.067
Acid Soluble Boron, Other		165.99	23	1.451	0.105	0.049	21	1.439	0.093	0.034
Method Group 165.XX PCT			28	1.452	0.108	0.066	26	1.445	0.090	0.045
Water Soluble Boron, Other		171.99	1	1.480	0.000	0.000	1	1.480	0.000	0.000
Cadmium, Atomic Absorption		181.00	1	4.20	0.14	0.20	1	4.20	0.14	0.20
Cadmium, ICP		181.30	10	2.93	0.58	0.14	8	2.87	0.59	0.05
Cadmium, Other		181.99	1	3.28	0.10	0.14	1	3.28	0.10	0.14
Method Group 181.XX PPM			12	3.06	0.64	0.15	10	3.04	0.67	0.08
Water Soluble Chlorine, Other		190.99	1	0.52	0.00	0.00	1	0.52	0.00	0.00
Chromium, ICP		191.30	12	142.29	22.14	11.58	11	142.31	21.10	7.00
Chromium, Other		191.99	1	42.13	0.42	0.59	1	42.13	0.42	0.59
Method Group 191.XX PPM			13	134.58	34.52	10.73	12	133.96	34.74	6.46
Acid Soluble Cobalt, ICP	965.11	202.30	8	50.86	19.08	2.72	8	50.86	19.08	2.72
Acid Soluble Cobalt, Other		202.99	1	21.16	0.34	0.48	1	21.16	0.34	0.48
Method Group 202.XX PPM			9	47.56	20.34	2.47	9	47.56	20.34	2.47
Acid Soluble Copper, Atomic Absorption	975.01	221.00	9	0.9950	0.1853	0.0406	9	0.9950	0.1853	0.0406

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Acid Soluble Copper, ICP		221.30	33	1.0206	0.2126	0.0537	32	1.0150	0.2127	0.0491
Acid Soluble Copper, Other		221.99	1	1.0350	0.0636	0.0900	1	1.0350	0.0636	0.0900
Method Group 221.XX PCT			43	1.0156	0.2040	0.0518	42	1.0112	0.2038	0.0483
Acid Soluble Iron, Atomic Absorption	980.01	241.00	1	0.27	0.00	0.00	1	0.27	0.00	0.00
Acid Soluble Iron, ICP		241.30	12	0.29	0.03	0.01	12	0.29	0.03	0.01
Method Group 241.XX PCT			14	0.28	0.04	0.01	14	0.28	0.04	0.01
Lead, ICP		251.30	8	8.99	4.30	0.78	7	8.90	4.57	0.48
Lead, Other		251.99	1	4.09	0.20	0.28	1	4.09	0.20	0.28
Method Group 251.XX PPM			9	8.45	4.34	0.73	8	8.30	4.56	0.46
Acid Soluble Manganese, AA	972.02a	261.00	6	2.105	0.123	0.067	6	2.105	0.123	0.067
Acid Soluble Manganese, AA	972.02b	261.11	1	1.969	0.028	0.040	1	1.969	0.028	0.040
Acid Soluble Manganese, ICP		261.30	29	2.075	0.187	0.042	28	2.078	0.190	0.038
Acid Soluble Manganese, Other		261.99	3	1.836	0.247	0.063	3	1.836	0.247	0.063
Method Group 261.XX PCT			39	2.058	0.192	0.047	38	2.058	0.194	0.044
Mercury, Atomic Absorption		281.00	1	0.03	0.00	0.00	1	0.03	0.00	0.00
Mercury, Other		281.99	1	0.04	0.00	0.00	1	0.04	0.00	0.00
Method Group 281.XX PPM			2	0.03	0.00	0.00	2	0.03	0.00	0.00
Molybdenum, Atomic Absorption		289.00	1	8.85	0.49	0.70	1	8.85	0.49	0.70
Molybdenum, ICP		289.30	10	10.34	1.67	0.91	8	9.97	1.39	0.36
Method Group 289.XX PPM			11	10.21	1.65	0.89	9	9.85	1.36	0.40
Nickel, Atomic Absorption		291.00	1	175.00	1.41	2.00	1	175.00	1.41	2.00
Nickel, ICP		291.30	11	205.68	23.14	10.53	11	205.68	23.14	10.53
Nickel, Other		291.99	1	154.69	3.34	4.72	1	154.69	3.34	4.72
Method Group 291.XX PPM			13	199.40	26.32	9.43	13	199.40	26.32	9.43
Selenium, ICP		301.30	4	8.38	5.45	0.36	4	8.38	5.45	0.36
Selenium, Other		301.99	3	2.77	0.95	0.23	3	2.77	0.95	0.23
Method Group 301.XX PPM			7	5.97	4.96	0.30	7	5.97	4.96	0.30
Sodium, Other		311.99	5	0.74	0.03	0.01	5	0.74	0.03	0.01
Acid Soluble Zinc, Atomic Absorption	975.02	321.00	9	1.659	0.093	0.059	9	1.659	0.093	0.059
Acid Soluble Zinc, ICP		321.30	33	1.764	0.182	0.058	31	1.748	0.168	0.038
Method Group 321.XX PCT			43	1.743	0.173	0.065	40	1.728	0.159	0.043

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														
415	5.03	1.55												
416	4.97	1.05												
Avg	4.82													
230	4.81	-1.10												
456	4.82	-0.26												
029	4.80	-0.26												
232	4.80	-0.46												
330	4.70	-1.14												
405	4.64	-1.53												
Meth: 001.99 PCT														
Ammoniacal Nitrogen														
Other														
409	5.13	1.05												
105	5.04	.59												
096	5.03	.51												
371	4.99	.35												
419	4.97	.23												
034	4.95	.18												
234	4.93	.16												
Avg	4.92													
420	4.86	-.36												
027	4.43	-2.53												
368	4.21	-3.65												
Meth: 001.99 PCT														
Ammoniacal Nitrogen														
409	5.13	1.05												
105	5.04	.59												
096	5.03	.51												
371	4.99	.35												
419	4.97	.23												
034	4.95	.18												
234	4.93	.16												
Avg	4.92													
420	4.86	-.36												
027	4.43	-2.53												
368	4.21	-3.65												
Meth: 001.11 PCT														
Total Nitrogen														
456	5.23	1.63												
460	5.15	1.14												
114	5.02	.28												
105	5.01	.19												
Avg	4.98													
419	4.96	-0.16												
029	4.90	-0.54												
260	4.84	-0.99												
211	4.76	-1.46												
Meth: 010.12 PCT														
Total Nitrogen														
034	5.55	4.21												
043	5.35	2.58												
102	5.18	2.43												
255	5.22	1.54												
230	5.22	1.46												
402	5.20	1.27												
117	5.19	1.18												
247	5.18	1.15												
073	5.17	1.02												
426	5.07	.86												
406	5.13	.72												
428	5.11	.54												
354	5.11	.52												
041	5.10	.51												
041	5.10	.51												
042	4.90	R												
368	4.77	-2.24												
023	4.71	-2.81												
Meth: 010.12 PCT														
Total Nitrogen														
Salicylic														
415	5.05	-1.00												
254	4.53	S -16.42												
Meth: 010.60 PCT														
Total Nitrogen														
Combustion														
034	5.55	s												
043	5.35	2.58												
102	5.18	R												
255	5.22	1.54												
230	5.22	1.46												
402	5.20	1.27												
117	5.19	1.18												
247	5.18	1.15												
073	5.17	1.02												
426	5.07	.86												
406	5.13	.72												
428	5.11	.54												
354	5.11	.52												
041	5.10	.51												
042	4.90	R												
368	4.77	-2.24												
023	4.71	-2.81												
Meth: 010.99 PCT														
Total Nitrogen														
Other														
409	5.22	1.51												
Avg	5.04													
371	4.98	-.54												
420	5.01	-.63												
105	4.96	-.72												
Meth: 010.60 PCT														
Total Nitrogen														
034	5.55	s												
043	5.35	2.56												
102	5.18	R												
456	5.23	1.59												
255	5.22	1.55												
409	5.22	1.54												
230	5.22	1.47												
405	5.02	1.29												
Meth: 010.99 PCT														
Total Nitrogen														
Other														
409	5.22	1.51												
Avg	5.04													
371	4.98	-.54												
420	5.01	-.63												
105	4.96	-.72												
Meth: 010.12 PCT														
Total Nitrogen														
Salicylic														
415	5.05	-1.00												
254	4.53	S -16.42												
Meth: 010.60 PCT														
Total Nitrogen														
Combustion														
034	5.55	s												
043	5.35	2.58												
102	5.18	R												
255	5.22	1.54												
230	5.22	1.46												
402	5.20	1.27												
117	5.19	1.18												
247	5.18	1.15												
073	5.17	1.02												
426	5.07	.86												
406	5.13	.72												
428	5.11	.54												
354	5.11	.52												
041	5.10	.51												
042	4.90	R												
368	4.77	-2.24												
023	4.71	-2.81												
Meth: 010.99 PCT														

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 010.XX PCT											
<u>Total Nitrogen</u>											
420	5.01	-.60									
419	4.96	-.61									
009	4.96	-.62									
105	4.96	-.65									
330	4.95	-.79									
131	4.94	-.83									
234	4.93	-.86									
390	4.91	-1.05									
029	4.90	-1.09									
233	4.89	-1.16									
232	4.84	-1.61									
260	4.84	-1.63									
042	4.90 R	-1.94									
368	4.77	-2.12									
211	4.76	-2.21									
023	4.71	-2.67									
254	4.53 s	-4.05									
Meth: 020.20 PCT											
<u>Total Phosphate</u>											
416	5.50	.21									
Avg	5.49										
371	5.46	-.38									
409	5.44	-.64									
234	5.44	-.72									
415	5.42	-.75									
177	5.40	-.99									
420	5.29	-2.40									
428	5.01 s	-5.61									
Meth: 020.40 PCT											
<u>Total Phosphate</u>											
456	5.69	1.30									
035	5.62	.93									
105	5.53	.45									
095	5.55	.35									
Avg	5.50										
247	5.48	-.21									
042	5.40	-.62									
096	5.22	-1.79									
Meth: 020.50 PCT											
<u>Total Phosphate</u>											
330	5.95 S	2.78									
426	5.69	1.43									
231	5.70	1.34									
432	5.58	.84									
368	5.49	.33									
Avg	5.46										
402	5.46	-.15									
389	5.45	-.29									
255	5.31	-.84									
247	5.45 R	-1.13									
451	5.25	-1.23									
390	5.24	-1.24									
Meth: 020.99 PCT											
<u>Total Phosphate</u>											
Other	455	5.65	-.71								
Meth: 020.XX PCT											
<u>Total Phosphate</u>											
255	5.31	-1.30									
247	5.45 R	-1.44									
420	5.29	-1.52									
451	5.25	-1.78									
390	5.24	-1.79									
096	5.22	-1.97									
428	5.01 s	-3.43									
Meth: 030.10 PCT											
<u>Insoluble Phosphate</u>											
090	0.03	.00									
Meth: 030.20 PCT											
<u>Insoluble Phosphate</u>											
405	0.10	.86									
Avg	0.06										
409	0.02	-.87									
Meth: 030.40 PCT											
<u>Insoluble Phosphate</u>											
096	0.04	.00									
Meth: 040.10 PCT											
<u>Automated</u>											
255	5.27	.71									
Meth: 040.50 PCT											
<u>ICP</u>											
255	5.27	.71									
Meth: 040.99 PCT											
<u>Other</u>											
405	5.49	.00									
Meth: 040.XX PCT											
<u>InDir Available Phos</u>											
405	5.49	.97									
090	5.46	.77									
409	5.43	.51									
Avg	5.36										
255	5.27	-.75									
096	5.18	-1.46									
Meth: 041.10 PCT											
<u>Dir Available Phosph</u>											
<u>Grav Quimociac</u>											
211	5.53	1.05									
105	5.47	.84									
029	5.43	.51									

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

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 041.10 PCT											
Dir Available Phosph			Meth: 041.50 PCT								
Grav Quimociac	296	5.43	ICP	231	5.53	Dir Available Phosph	043	5.53	Meth: 041.60 PCT		
	040	5.42		043	5.53	Dir Available Phosph	211	5.53	Meth: 041.99 PCT		
	131	5.42		325	5.43	ICP	363	5.51	Meth: 041.00 PCT		
	009	5.40		291	5.40	Dir Available Phosph	105	5.47	Meth: 048.20 PCT		
	049	5.36		377	5.29	EDTA Extract	043	5.48	Water Soluble Phosph		
	102	5.35		354	5.23	028	095	5.45	Spectrometric		
	Avg	5.34		Avg	5.23	043	057	5.42	Meth: 050.00 PCT		
	055	5.34		Avg	5.23	043	029	5.45	Soluble Potash		
	185	5.10		Avg	5.23	043	029	5.45	STPB Oxalate		
	254	5.02		Avg	5.23	043	029	5.45	114 6.34 s 5.62		
	260	4.95		Avg	5.23	043	029	5.45	009 5.78 1.71		
Meth: 041.20 PCT											
Dir Available Phosph			Meth: 050.51 PCT								
Spectrometric	363	5.51	073	5.42	032	131	5.42	014	Soluble Potash		
	055	5.33	106	5.41	021	073	5.42	014	ICP (Citrate)		
	Avg	5.30	Avg	5.39		131	5.42	014	432 6.36 S 4.34		
	419	5.27	117	5.31	-0.93	106	5.41	008	023 6.35 S 4.26		
	262	5.10	231	5.24	-1.75	009	5.40	003	007 5.87 1.27		
Meth: 041.40 PCT											
Dir Available Phosph			Meth: 050.60 PCT								
Automated	095	5.45	105	5.09	-4.01	Avg	5.39	026	Soluble Potash		
	029	5.45	Meth: 041.99 PCT			102	5.35	026	ICP (Citrate)		
	Avg	5.43	Dir Available Phosph			102	5.35	026	432 6.36 S 4.34		
	027	5.40	Other			117	5.31	026	023 6.35 S 4.26		
Meth: 041.50 PCT											
Dir Available Phosph			Meth: 050.30 PCT								
ICP	360	5.75	131	5.42	0.83	377	5.29	063	Soluble Potash		
	007	5.68	Avg	5.35		105	5.28	070	AA (Oxalate)		
	023	5.63	105	5.28	-0.90	419	5.27	074	460 5.85 1.15		
	009	5.60	230	4.87	-6.08	231	5.24	097	415 5.83 1.00		
	Avg	5.54	Meth: 041.00 PCT			354	5.23	097	Avg 5.67		
Meth: 041.50 PCT											
Dir Available Phosph			Meth: 050.60 PCT								
ICP	360	5.75	Dir Available Phosph			262	5.10	076	Flame (Oxalate)		
	007	5.68	028	6.14	4.46	185	5.10	076	460 5.85 1.15		
	023	5.63	360	5.75	2.19	105	5.09	076	415 5.83 1.00		
	009	5.60	007	5.68	1.70	254	5.02	076	Avg 5.67		
	Avg	5.54	023	5.63	1.43	260	4.95	076	105 5.67 -0.03		
Meth: 050.60 PCT											
Dir Available Phosph			Meth: 050.60 PCT								
ICP	360	5.75	009	5.60	1.22	230	4.87	076	406 5.52 -0.92		
	007	5.68	231	5.53	0.84	230	4.87	076	055 5.48 -1.16		
	023	5.63	R=Duplicate Range too large A=Analysis beyond 3-s limits								
	009	5.60	S/s=Screened Outlier								
	Avg	5.54	X=Excluded from lab performance								

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index		
Meth: 050.61 PCT																
Soluble Potash																
Flame (Citrate)	114	6.34 s	3.86	Meth: 050.99 PCT												
456	5.95	2.11	114	6.34 s	3.86	Soluble Potash										
095	5.83	1.37	451	6.05	2.36	114	6.34 s	3.86	131	5.74 R	1.00	009	5.78	.93		
057	5.65	.17	360	5.99	2.03	451	6.05	2.36	402	5.74	.89	291	5.80	1.03		
131	5.65	.04	456	5.95	1.84	360	5.99	2.03	325	5.67	.38	106	5.80	1.06		
Avg	5.64		007	5.87	1.41	456	5.95	1.84	426	5.61	.37	131	5.74 R	1.00		
105	5.63	-.11	330	5.85	1.34	007	5.87	1.41	105	5.67	.34	009	5.78	.93		
028	5.60	-.40	460	5.85	1.34	330	5.85	1.34	377	5.62	.30	291	5.80	1.03		
029	5.61	-.40	095	5.83	1.26	460	5.85	1.34	057	5.65	.27	106	5.80	1.06		
035	5.55	-.70	415	5.83	1.22	095	5.83	1.26	029	5.61	.24	131	5.74 R	1.00		
041	5.50	-.97	419	5.82	1.18	415	5.83	1.22	105	5.60	.20	009	5.78	.93		
034	5.47	-1.18	009	5.81	1.08	419	5.82	1.18	368	5.54	-.51	291	5.80	1.06		
Meth: 050.99 PCT																
Soluble Potash																
Other	360	5.99	1.64	Meth: 050.99 PCT												
330	5.85	1.01	360	5.99	2.03	Soluble Potash										
419	5.82	.87	419	5.82	1.18	Other										
131	5.74	.77	177	5.69	.22	Meth: 050.61 PCT										
260	5.75	.51	402	5.68	.42	Soluble Potash										
177	5.69	.22	325	5.67	.38	Flame (Citrate)										
402	5.68	.17	426	5.61	.37	456										
325	5.67	.15	105	5.67	.34	007										
Avg	5.65		377	5.62	.30	330										
232	5.59	-.30	057	5.65	.27	460										
105	5.57	-.39	029	5.61	.24	095										
368	5.54	-.51	131	5.65	.24	415										
042	5.60	-.52	043	5.62	.20	419										
027	5.42	-1.08	105	5.63	.17	009										
255	5.13	-2.48	Avg	5.60		291										
455	4.85 S	-3.81	040	5.59	-.11	131										
405	4.80 S	-4.04	232	5.59	-.17	402										
Meth: 050.61 PCT																
Soluble Potash																
432	6.36 s	3.98	Meth: 050.61 PCT												1.64	
023	6.35 s	3.91	Soluble Potash												1.01	
Meth: 050.99 PCT																
Soluble Potash																
Flame (Citrate)																
456	5.95	2.11	Meth: 050.99 PCT												.87	
095	5.83	1.37	Soluble Potash												.77	
057	5.65	.17	Flame (Citrate)												.51	
131	5.65	.04	456												.22	
Avg	5.64		007												.17	
105	5.63	-.11	330												.15	
028	5.60	-.40	460												.15	
029	5.61	-.40	095												.15	
035	5.55	-.70	415												.15	
041	5.50	-.97	419												.15	
034	5.47	-1.18	009												.15	
Meth: 050.99 PCT																
Soluble Potash																
Other																
360	5.99	1.64	Meth: 050.99 PCT												1.64	
330	5.85	1.01	Soluble Potash												1.01	
419	5.82	.87	Flame (Citrate)												.87	
131	5.74	.77	456												.77	
260	5.75	.51	007												.51	
177	5.69	.22	330												.22	
402	5.68	.17	460												.17	
325	5.67	.15	095												.15	
Avg	5.65		415												.15	
232	5.59	-.30	419												.15	
105	5.57	-.39	009												.15	
368	5.54	-.51	291												.15	
042	5.60	-.52	131												.15	
027	5.42	-1.08	402												.15	
255	5.13	-2.48	325												.15	
455	4.85 S	-3.81	426												.15	
405	4.80 S	-4.04	105												.15	
Meth: 050.61 PCT																
Soluble Potash																
Flame (Citrate)																
456	5.95	2.11	Meth: 050.61 PCT												2.11	
095	5.83	1.37	Soluble Potash												1.37	
057	5.65	.17	Flame (Citrate)												.17	
131	5.65	.04	456												.04	
Avg	5.64		007												.04	
105	5.63	-.11	330												.04	
028	5.60	-.40	460												.04	
029	5.61	-.40	095												.04	
035	5.55	-.70	415												.04	
041	5.50	-.97	419												.04	
034	5.47	-1.18	009												.04	
Meth: 050.99 PCT																
Soluble Potash																
Other																
360	5.99	1.64	Meth: 050.99 PCT												1.64	
330	5.85	1.01	Soluble Potash												1.01	
419	5.82	.87	Flame (Citrate)												.87	
131	5.74	.77	456												.77	
260	5.75	.51	007												.51	
177	5.69	.22	330												.22	
402	5.68	.17	460												.17	
325	5.67	.15	095												.15	
Avg	5.65		415												.15	
232	5.59	-.30	419												.15	
105	5.57	-.39	009												.15	
368	5.54	-.51	291												.15	
042	5.60	-.52	131												.15	
027	5.42	-1.08	402												.15	
255	5.13	-2.48	325												.15	
455	4.85 S	-3.81	426												.15	
405	4.80 S	-4.04	105												.15	
Meth: 050.61 PCT																
Soluble Potash																
Flame (Citrate)																
456	5.95	2.11	Meth: 050.61 PCT												2.11	
095	5.83	1.37	Soluble Potash												1.37	
057	5.65	.17	Flame (Citrate)												.17	
131	5.65	.04	456												.04	
Avg	5.64		007												.04	
105	5.63	-.11	330												.04	
028	5.60	-.40	460												.04	
029	5.61	-.40	095												.04	
035	5.55	-.70	415												.04	
041	5.50	-.97	419												.04	
034	5.47	-1.18	009												.04	
Meth: 050.99 PCT																
Soluble Potash																
Other																
360	5.99	1.64	Meth: 050.99 PCT												1.64	
330	5.85	1.01	Soluble Potash												1.01	
419	5.82	.87	Flame (Citrate)												.87	
131	5.74	.77	456												.77	
260	5.75	.51	007												.51	
177	5.69	.22	330												.22	
402	5.68	.17	460												.17	
325	5.67	.15	095												.15	
Avg	5.65		415												.15	
232	5.59	-.30	419												.15	
105	5.57	-.39	009												.15	
368	5.54	-.51	291												.15	
042	5.60	-.52	131												.15	
027	5.42	-1.08	402												.15	
255	5.13	-2.48	325												.15	
455	4.85 S	-3.81	426												.15	
405	4.80 S	-4.04	105												.15	
Meth: 050.61 PCT																
Soluble Potash																
Flame (Citrate)																
456	5.95	2.11	Meth: 050.61 PCT												2.11	
095	5.83	1.37	Soluble Potash												1.37	
057	5.65	.17	Flame (Citrate)												.17	
131	5.65	.04	456												.04	
Avg	5.64		007												.04	
105	5.63	-.11	330												.04	
028	5.60	-.40	460												.04	
029	5.61	-.40	095												.04	
035	5.55	-.70	415												.04	
041	5.50	-.97	419												.04	
034	5.47	-1.18	009												.04	
Meth: 050.99 PCT																
Soluble Potash																
Other																
360	5.99	1.64	Meth: 050.99 PCT												1.64	
330	5.85	1.01	Soluble Potash												1.01	
419	5.82	.87	Flame (Citrate)												.87	
131	5.74	.77	456												.77	
260	5.75	.51	007												.51	
177	5.69	.22	330												.22	
402	5.68	.17	460												.17	
325	5.67	.15	095												.15	
Avg	5.65		415												.15	
232	5.59	-.30	419												.15	
105	5.57	-.39	009												.15	
368	5.54	-.51	291												.15	
042	5.60	-.52	131												.15	
027	5.42	-1.08	402												.15	
255	5.13	-2.48	325												.15	
455	4.85 S	-3.81	426												.15	
405	4.80 S	-4.04	105												.15	
Meth: 050.61 PCT																
Soluble Potash																
Flame (Citrate)																
456	5.95	2.11	Meth: 050.61 PCT												2.11	
095	5.83	1.37	Soluble Potash												1.37	
057	5.65	.17	Flame (Citrate)												.17	
131	5.65	.04	456												.04	
Avg	5.64		007												.04	
105	5.63	-.11	330												.04	
028	5.60	-.40	460												.04	
029	5.61	-.40	095												.04	
035	5.55	-.70	415												.04	
041	5.50	-.97	419												.04	
034	5.47	-1.18	009												.04	
Meth: 050.99 PCT																
Soluble Potash																
Other																
360	5.99	1.64	Meth: 050.99 PCT												1.64	
330	5.85	1.01	Soluble Potash												1.01	
419	5.82	.87	Flame (Citrate)												.87	
131	5.74	.77	456												.77	
260	5.75	.51	007												.51	
177	5.69	.22	330												.22	
402	5.68	.17	460												.17	
325	5.67	.15	095												.15	
Avg	5.65		415												.15	
232	5.59	-.30	419												.15	
105	5.57	-.39	009												.15	
368	5.54	-.51	291												.15	
042	5.60	-.52	131												.15	
027	5.42	-1.08	402												.15	
255	5.13	-2.48	325												.15	
455	4.85 S	-3.81	426												.15	
405	4.80 S	-4.04	105												.15	
Meth: 050.61 PCT																
Soluble Potash																
Flame (Citrate)																
456	5.95	2.11	Meth: 050.61 PCT												2.11	
095	5.83	1.37	Soluble Potash												1.37	
057	5.65	.17	Flame (Citrate)												.17	
131	5.65															

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														
049	3.34 R	2.41												
300	3.32	1.91												
432	3.28	1.74												
389	3.25	1.41												
041	3.24	1.39												
090	3.25	1.32												
420	3.24	1.28												
231	3.15	.59												
255	3.14	.52												
368	3.14	.48												
291	3.11	.30												
096	3.10	.20												
419	3.10	.18												
Avg	3.08													
360	3.06	-.16												
247	3.08	-.20												
102	3.06	-.21												
027	3.06	-.22												
095	3.05	-.24												
433	3.05	-.28												
363	3.05	-.30												
354	3.04	-.37												
131	3.02	-.51												
057	3.03	-.54												
405	2.98	-.80												
409	2.95	-1.02												
426	2.98	-1.09												
009	2.94	-1.12												
023	2.93	-1.16												
230	2.86	-1.70												
114	2.99 R	-1.76												
035	2.82	-2.02												
042	2.57 s	-4.08												
Meth: 121.99 PCT														
Acid Soluble Magnesi														
Other														
460	3.26	.71												
Meth: 121.22 PCT														
Acid Soluble Magnesi														
330	4.75 s	12.48												
117	3.66 s	4.42												
049	3.34 R	2.35												
300	3.32	1.89												
432	3.28	1.72												
460	3.26	1.47												
389	3.25	1.41												
041	3.24	1.39												
090	3.25	1.33												
420	3.24	1.29												
177	3.20	1.04												
231	3.15	.64												
255	3.14	.57												
368	3.14	.54												
055	3.08	.49												
028	3.12	.38												
291	3.11	.36												
096	3.10	.26												
419	3.10	.24												
247	3.08	.20												
Avg	3.07													
360	3.06	-.09												
102	3.06	-.14												
095	3.05	-.15												
027	3.06	-.17												
296	3.05	-.19												
433	3.05	-.19												
363	3.05	-.21												
354	3.04	-.28												
131	3.02	-.40												
105	3.06	-.45												
057	3.03	-.45												
262	3.01	-.46												
Meth: 121.22 PCT														
Acid Soluble Magnesi														
415	6.29 S	.00												
Meth: 131.99 PCT														
Water Soluble Magnesi														
415	6.29 s	15.22												
Meth: 131.00 PCT														
Water Soluble Magnesi														
AA														
029	2.44	-.71												
Meth: 131.30 PCT														
Water Soluble Magnesi														
ICP														
405	2.94	1.27												
432	2.63	.10												
230	2.61	.04												
Avg	2.61													
027	2.25	-1.37												
Meth: 144.99 PCT														
Sulfur														
389	15.65	.74												
291	15.01	.59												
354	14.97	.58												
009	14.84	.55												
363	14.76	.53												
390	13.85 R	.31												
Avg	12.57													
035	7.87	-1.13												
027	4.93	-1.85												
Meth: 144.22 PCT														
Sulfur														
389	15.65	.74												
291	15.01	.59												
354	14.97	.58												
009	14.84	.55												
363	14.76	.53												
390	13.85 R	.31												
Avg	12.57													
035	7.87	-1.13												
027	4.93	-1.85												
Meth: 151.99 PCT														
Arsenic														
Other														
231	6.33	.71												
Meth: 151.30 PPM														
Arsenic														
ICP														
368	9.90	1.49												
405	9.00	1.14												
247	6.50	.25												
230	6.43	.12												
102	6.25	.06												
Avg	6.13													
009	5.21	-.41												
096	4.10	-.81												
296	1.70	-1.76												
Meth: 165.00 PCT														
Acid Soluble Boron														
Spectrometric														
023	1.518	.76												
028	1.502	.56												
Avg	1.466													
055	1.419	-.77												
029	1.425	-1.42												
428	1.414 s	-3.45												

* 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: 165.99 PCT																	
Acid Soluble Boron																	
Other			360	1.502	.63										Meth: 202.30 PPM		
432	1.660 R	2.65	419	1.495	.56										Acid Soluble Cobalt		
433	1.605	1.84	231	1.475	.34										ICP		
090	1.580	1.52	255	1.470	.29										096	76.50	1.34
117	1.555	1.27	Avg	1.445											057	73.35	1.18
368	1.489 R	1.15	409	1.435	-.12										009	70.95	1.07
049	1.500	.73	009	1.430	-.20										Avg	50.86	
300	1.505	.71	389	1.425	-.35										419	44.50	-.33
363	1.498	.68	042	1.415	-.37										035	44.10	-.37
360	1.502	.67	055	1.419	-.39										247	36.00	-.79
419	1.495	.60	296	1.360	-.97										049	34.24	-.88
231	1.475	.39	426	1.380	-.98										027	27.24	-1.24
255	1.470	.34	029	1.425	-1.01										Meth: 202.99 PPM		
Avg	1.439		291	1.340	-1.17										Acid Soluble Cobalt		
409	1.435	-.07	354	1.334	-1.24										Other		
009	1.430	-.14	114	1.325	-1.33										231	21.16	.71
042	1.415	-.30	043	1.310	-1.50										Meth: 202.2X PPM		
389	1.425	-.31	230	1.280	-1.84										Acid Soluble Cobalt		
296	1.360	-.87	428	1.414 R	-2.59										096	76.50	1.42
426	1.380	-.90	Meth: 171.99 PCT												057	73.35	1.27
291	1.340	-1.07	Water Soluble Boron												009	70.95	1.16
354	1.334	-1.14	Other												Avg	47.56	
114	1.325	-1.22	027	1.480	.00										419	44.50	-.15
043	1.310	-1.39	Meth: 181.00 PPM												035	44.10	-.19
230	1.280	-1.72	Cadmium												247	36.00	-.58
Meth: 165.2X PCT																	
Acid Soluble Boron																	
432	1.660 R	2.67	363	4.20	.71										049	34.24	-.66
433	1.605	1.84	Atomic Absorption												027	27.24	-1.00
090	1.580	1.50	363												231	21.16	-1.30
117	1.555	1.25	Meth: 181.30 PPM												Meth: 221.00 PCT		
368	1.489	1.16	Cadmium												Acid Soluble Copper		
023	1.518	.81	ICP												Atomic Absorption		
049	1.500	.69	296	3.55 R	1.23										262	1.3500	1.92
300	1.505	.67	009	3.46	1.00										028	1.1250	.74
028	1.502	.65	Meth: 191.30 PPM												428	1.1213	.68
363	1.498	.64	Chromium												043	1.0450	.28
Meth: 190.99 PCT																	
Water Soluble Chlori																	
Other																	
009	0.52	.00													Avg	0.9950	
096	178.00	1.69													055	0.9650	-.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	Lab	Average*	Index
Meth: 221.00 PCT														
Acid Soluble Copper														
Atomic Absorption														
029	0.8980	-0.57	029	0.7050	-1.47	029	0.8980	-0.61	029	0.8980	-0.59	029	0.8980	-0.59
234	0.8900	-0.59	405	0.7000	-1.48	Avg	1.0112	-1.13	057	0.9970	-1.54	055	0.9650	-0.24
296	0.8555	-0.75	390	0.6875	-1.54	057	0.9970	-1.13	055	0.9650	-1.56	300	0.8950	-0.57
460	0.7050	-1.56	409	0.6850	-1.56	055	0.9650	-0.24	300	0.8950	-0.57	029	0.8980	-0.59
			402	0.6000	-1.95	300	0.8950	-0.57	029	0.8980	-0.59	234	0.8900	-0.61
Meth: 221.30 PCT														
Acid Soluble Copper														
ICP														
102	1.3750	1.71	114	1.0350	-0.71	114	1.0350	-0.25	043	1.0450	0.18	432	0.8900	-0.66
090	1.3300	1.48	090	1.2000	0.96	043	1.0450	0.18	Avg	1.0112	-1.13	296	0.8555	-0.77
035	1.2350	1.04	023	1.2060	0.99	090	1.1600	0.73	057	0.9970	-1.54	354	0.8450	-0.82
433	1.2300	1.01	023	1.2060	0.96	090	1.1600	0.73	057	0.9970	-1.54	330	0.8500	-0.83
042	1.2000	0.99	023	1.2060	0.96	090	1.1600	0.73	057	0.9970	-1.54	096	0.7050	-1.51
023	1.2060	0.90	023	1.2060	0.96	090	1.1600	0.73	057	0.9970	-1.54	405	0.7000	-1.53
389	1.2000	0.87	023	1.2060	0.96	090	1.1600	0.73	057	0.9970	-1.54	390	0.6875	-1.59
049	1.1900	0.83	023	1.2060	0.96	090	1.1600	0.73	057	0.9970	-1.54	409	0.6850	-1.61
291	1.1850	0.80	023	1.2060	0.96	090	1.1600	0.73	057	0.9970	-1.54	402	0.6000	-2.02
131	1.1600	0.68	023	1.2060	0.96	090	1.1600	0.73	057	0.9970	-1.54			
041	1.1200	0.62	023	1.2060	0.96	090	1.1600	0.73	057	0.9970	-1.54			
419	1.1200	0.53	023	1.2060	0.96	090	1.1600	0.73	057	0.9970	-1.54			
247	1.1250	0.52	023	1.2060	0.96	090	1.1600	0.73	057	0.9970	-1.54			
009	1.1200	0.50	023	1.2060	0.96	090	1.1600	0.73	057	0.9970	-1.54			
231	1.1150	0.50	023	1.2060	0.96	090	1.1600	0.73	057	0.9970	-1.54			
095	1.1170	0.48	023	1.2060	0.96	090	1.1600	0.73	057	0.9970	-1.54			
230	1.1050	0.42	023	1.2060	0.96	090	1.1600	0.73	057	0.9970	-1.54			
368	1.0849	0.39	023	1.2060	0.96	090	1.1600	0.73	057	0.9970	-1.54			
360	1.0545	0.38	023	1.2060	0.96	090	1.1600	0.73	057	0.9970	-1.54			
420	1.0450	0.23	023	1.2060	0.96	090	1.1600	0.73	057	0.9970	-1.54			
255	1.0515	0.23	023	1.2060	0.96	090	1.1600	0.73	057	0.9970	-1.54			
Avg	1.0150		023	1.2060	0.96	090	1.1600	0.73	057	0.9970	-1.54			
057	0.9970	-0.14	023	1.2060	0.96	090	1.1600	0.73	057	0.9970	-1.54			
300	0.8950	-0.57	023	1.2060	0.96	090	1.1600	0.73	057	0.9970	-1.54			
432	0.8900	-0.65	023	1.2060	0.96	090	1.1600	0.73	057	0.9970	-1.54			
354	0.8450	-0.80	023	1.2060	0.96	090	1.1600	0.73	057	0.9970	-1.54			
330	0.8500	-0.81	023	1.2060	0.96	090	1.1600	0.73	057	0.9970	-1.54			
096	0.7450	-1.27	023	1.2060	0.96	090	1.1600	0.73	057	0.9970	-1.54			
027	0.7120	-1.42	023	1.2060	0.96	090	1.1600	0.73	057	0.9970	-1.54			
Meth: 221.99 PCT														
Acid Soluble Copper														
ICP														
102	1.3750	1.71	114	1.0350	-0.71	114	1.0350	-0.25	043	1.0450	0.18	432	0.8900	-0.66
090	1.3300	1.48	090	1.2000	0.96	043	1.0450	0.18	Avg	1.0112	-1.13	296	0.8555	-0.77
035	1.2350	1.04	023	1.2060	0.99	090	1.1600	0.73	057	0.9970	-1.54	354	0.8450	-0.82
433	1.2300	1.01	023	1.2060	0.99	090	1.1600	0.73	057	0.9970	-1.54	330	0.8500	-0.83
042	1.2000	0.99	023	1.2060	0.99	090	1.1600	0.73	057	0.9970	-1.54	096	0.7050	-1.50
023	1.2060	0.90	023	1.2060	0.99	090	1.1600	0.73	057	0.9970	-1.54	426	0.7050	-1.51
389	1.2000	0.87	023	1.2060	0.99	090	1.1600	0.73	057	0.9970	-1.54	405	0.7000	-1.53
049	1.1900	0.83	023	1.2060	0.99	090	1.1600	0.73	057	0.9970	-1.54	390	0.6875	-1.59
291	1.1850	0.80	023	1.2060	0.99	090	1.1600	0.73	057	0.9970	-1.54	409	0.6850	-1.61
131	1.1600	0.68	023	1.2060	0.99	090	1.1600	0.73	057	0.9970	-1.54	402	0.6000	-2.02
041	1.1200	0.62	023	1.2060	0.99	090	1.1600	0.73	057	0.9970	-1.54			
419	1.1200	0.53	023	1.2060	0.99	090	1.1600	0.73	057	0.9970	-1.54			
247	1.1250	0.52	023	1.2060	0.99	090	1.1600	0.73	057	0.9970	-1.54			
009	1.1200	0.50	023	1.2060	0.99	090	1.1600	0.73	057	0.9970	-1.54			
231	1.1150	0.50	023	1.2060	0.99	090	1.1600	0.73	057	0.9970	-1.54			
095	1.1170	0.48	023	1.2060	0.99	090	1.1600	0.73	057	0.9970	-1.54			
230	1.1050	0.42	023	1.2060	0.99	090	1.1600	0.73	057	0.9970	-1.54			
368	1.0849	0.39	023	1.2060	0.99	090	1.1600	0.73	057	0.9970	-1.54			
360	1.0545	0.38	023	1.2060	0.99	090	1.1600	0.73	057	0.9970	-1.54			
420	1.0450	0.23	023	1.2060	0.99	090	1.1600	0.73	057	0.9970	-1.54			
255	1.0515	0.23	023	1.2060	0.99	090	1.1600	0.73	057	0.9970	-1.54			
Avg	1.0150		023	1.2060	0.99	090	1.1600	0.73	057	0.9970	-1.54			
057	0.9970	-0.14	023	1.2060	0.99	090	1.1600	0.73	057	0.9970	-1.54			
300	0.8950	-0.57	023	1.2060	0.99	090	1.1600	0.73	057	0.9970	-1.54			
432	0.8900	-0.65	023	1.2060	0.99	090	1.1600	0.73	057	0.9970	-1.54			
354	0.8450	-0.80	023	1.2060	0.99	090	1.1600	0.73	057	0.9970	-1.54			
330	0.8500	-0.81	023	1.2060	0.99	090	1.1600	0.73	057	0.9970	-1.54			
096	0.7450	-1.27	023	1.2060	0.99	090	1.1600	0.73	057	0.9970	-1.54			
027	0.7120	-1.42	023	1.2060	0.99	090	1.1600	0.73	057	0.9970	-1.54			
Meth: 241.00 PCT														
Acid Soluble Iron														
Atomic Absorption														
363	0.27	.71	363	0.27	.71	363	0.27	.71	363	0.27	.71	363	0.27	.71
Avg	0.27		Avg	0.27		Avg	0.27		Avg	0.27		Avg	0.27	
105	0.11	S-109.29	105	0.11	S-109.29	105	0.11	S-109.29	105	0.11	S-109.29	105	0.11	S-109.29
Meth: 241.30 PCT														
Acid Soluble Iron														
117	1.74	s 37.01	117	1.74	s 37.01	117	1.74	s 37.01	117	1.74	s 37.01	117	1.74	s 37.01
049	0.40	s 3.53	049	0.40	s 3.53	049	0.40	s 3.53	049	0.40	s 3.53	049	0.40	s 3.53
354	0.31	.96	354	0.31	.96	354	0.31	.96	354	0.31	.96	354	0.31	.96
420	0.31	.90	420	0.31	.90	420	0.31	.90	420	0.31	.90	420	0.31	.90
389	0.31	.72	389	0.31	.72	389	0.31	.72	389	0.31	.72	389	0.31	.72
057	0.30	.65	057	0.30	.65	057	0.30	.65	057	0.30	.65	057	0.30	.65
096	0.30	.63	096	0.30	.63	096	0.30	.63	096	0.30	.63	096	0.30	.63
390	0.30	.49	390	0.30	.49	390	0.30	.49	390	0.30	.49	390	0.30	.49
102	0.29	.45	102	0.29	.45	102	0.29	.45	102	0.29	.45	102	0.29	.45
009	0.29	.31	009	0.29	.31	009	0.29	.31	009	0.29	.31	009	0.29	.31
247	0.28	.08	247	0.28	.08	247	0.28	.08	247	0.28	.08	247	0.28	.08
131	0.28	.02	131	0.28	.02	131	0.28	.02	131	0.28	.02	131	0.28	.02
Avg	0.28		Avg	0.28		Avg	0.28		Avg					

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 301.30 PPM											
Selenium											
ICP											
368	12.95	.84									
009	12.15	.69									
Avg	8.38										
230	8.31	-.02									
096	0.10	-1.52									
Meth: 301.99 PPM											
Selenium											
Other											
102	3.52	.82									
231	3.21	.48									
Avg	2.77										
296	1.58	-1.26									
Meth: 301.99 PPM											
Selenium											
368	12.95	1.41									
009	12.15	1.24									
230	8.31	.47									
Avg	5.97										
102	3.52	-.50									
231	3.21	-.56									
296	1.58	-.89									
096	0.10	-1.18									
Meth: 311.99 PCT											
Sodium											
Other											
102	0.77	1.12									
009	0.77	.94									
057	0.75	.27									
Avg	0.74										
363	0.71	-1.06									
035	0.71	-1.09									
Meth: 321.00 PCT											
Acid Soluble Zinc											
Atomic Absorption											
055	1.790 s	2.48									
028	1.755	1.07									
262	1.745	1.04									
105	1.680	.79									
460	1.710	.56									
177	1.682	.25									
Avg	1.659										
043	1.640	-.29									
296	1.650	-.44									
428	1.603 X	-.60									
029	1.464	-2.15									
Meth: 321.30 PCT											
Acid Soluble Zinc											
ICP											
042	2.045 R	2.15									
432	2.095	2.07									
049	2.000 R	1.78									
102	2.022	1.65									
057	1.988	1.43									
095	1.979	1.37									
389	1.975	1.36									
117	1.935	1.12									
090	1.920	1.03									
035	1.875	.76									
426	1.840	.62									
291	1.825	.47									
131	1.750	.42									
360	1.785	.24									
Avg	1.748										
230	1.740	-.07									
433	1.730	-.12									
363	1.736	-.12									
300	1.725	-.20									
420	1.735	-.25									
009	1.710	-.25									
231	1.705	-.27									
Meth: 321.30 PCT											
Acid Soluble Zinc											
ICP											
042	2.045 R	2.38									
432	2.095	2.32									
049	2.000 R	1.99									
102	2.022	1.87									
057	1.988	1.64									
095	1.979	1.58									
389	1.975	1.57									
117	1.935	1.31									
055	1.790 R	1.26									
090	1.920	1.22									
035	1.875	.93									
426	1.840	.78									
291	1.825	.62									
131	1.750	.46									
360	1.785	.37									
Avg	1.745	.30									
230	1.740	.26									
433	1.730	.23									
363	1.736	.12									
300	1.725	.12									
420	1.735	.10									
009	1.710	.06									
231	1.705	.06									
Meth: 321.30 PCT											
Acid Soluble Zinc											
ICP											
042	2.045 R	2.38									
432	2.095	2.32									
049	2.000 R	1.99									
102	2.022	1.87									
057	1.988	1.64									
095	1.979	1.58									
389	1.975	1.57									
117	1.935	1.31									
055	1.790 R	1.26									
090	1.920	1.22									
035	1.875	.93									
426	1.840	.78									
291	1.825	.62									
131	1.750	.46									
360	1.785	.37									
Avg	1.745	.30									
230	1.740	.26									
433	1.730	.23									
363	1.736	.12									
300	1.725	.12									
420	1.735	.10									
009	1.710	.06									
231	1.705	.06									

* 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	8	0.00	0.93	0.43	121.XX	44	0.33	2.28	0.42
001.99	10	- 0.37	1.51	0.10	131.30	4	0.00	1.08	0.06
001.XX	18	- 0.39	1.40	0.25	131.XX	6	2.53	6.27	0.48
010.11	8	0.00	1.01	0.20	144.01	2	0.00	1.20	0.16
010.12	3	- 5.47	9.51	0.41	144.99	8	0.04	0.97	0.02
010.60	47	0.09	1.14	0.48	144.XX	10	0.02	0.97	0.02
010.99	4	0.00	0.99	0.38	151.30	8	0.00	1.03	0.10
010.XX	60	0.02	1.22	0.44	151.XX	9	0.00	1.03	0.10
020.10	4	0.00	1.03	0.29	165.00	5	- 0.150	0.727	1.623
020.20	16	- 0.08	2.04	0.29	165.99	23	0.126	1.063	0.395
020.40	7	0.00	0.98	0.32	165.XX	28	0.073	1.013	0.641
020.50	11	0.25	1.21	0.46	181.30	10	0.09	0.99	0.20
020.XX	36	- 0.03	1.23	0.35	181.XX	12	0.03	0.96	0.17
030.20	2	0.00	1.22	0.07	191.30	12	0.00	0.96	0.47
030.XX	5	- 0.27	1.11	0.08	191.XX	13	0.02	0.97	0.27
040.XX	5	0.00	1.04	0.19	202.30	8	0.00	1.03	0.09
041.10	13	- 0.11	1.04	0.22	202.XX	9	0.00	1.03	0.08
041.20	4	0.00	1.07	0.14	221.00	9	0.000	1.0208	0.1351
041.40	3	0.00	0.54	0.80	221.30	33	0.0263	0.9920	0.1712
041.50	10	- 0.21	1.15	0.55	221.XX	43	0.0215	0.9921	0.1697
041.60	9	0.56	3.22	0.86	241.00	2	- 54.62	77.25	2.30
041.99	3	- 1.95	3.47	1.01	241.30	15	3.52	13.85	1.56
041.XX	33	- 0.05	1.40	0.45	241.XX	17	2.10	9.08	1.01
048.20	3	0.00	1.12	0.02	251.30	9	0.76	2.40	0.13
048.XX	3	0.00	1.12	0.02	251.XX	10	0.71	2.34	0.12
050.00	15	- 0.09	2.54	0.37	261.00	6	0.000	0.997	0.297
050.30	7	- 0.17	1.03	0.65	261.30	30	- 0.146	1.207	0.761
050.50	6	0.00	1.02	0.22	261.99	3	0.000	1.094	0.188
050.51	9	0.95	2.08	0.26	261.XX	40	- 0.092	1.139	0.653
050.60	5	0.00	1.04	0.17	281.XX	2	0.000	1.148	0.301
050.61	10	0.00	1.00	0.23	289.30	10	0.27	1.10	0.53
050.99	16	- 0.49	1.62	0.25	289.XX	12	- 0.19	1.89	0.50
050.XX	59	- 0.03	1.68	0.32	291.30	11	0.00	0.97	0.30
060.00	6	0.00	1.03	0.18	291.XX	13	0.00	0.99	0.24
060.XX	6	0.00	1.03	0.18	301.30	4	0.00	1.08	0.04
101.30	15	0.10	1.03	0.39	301.99	3	0.00	1.11	0.13
101.XX	17	0.09	1.02	0.39	301.XX	7	0.00	1.04	0.04
121.00	9	0.00	0.99	0.28	311.99	5	0.00	1.01	0.29
121.30	34	0.44	2.66	0.48	311.XX	5	0.00	1.01	0.29

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
321.00	10	0.141	0.996	0.743					
321.30	33	0.099	1.044	0.304					
321.XX	42	0.101	1.047	0.356					