

- 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	17.12	0.27	0.05	7	17.12	0.27	0.05
Ammoniacal Nitrogen, Other		001.99	11	17.26	0.30	0.10	10	17.24	0.30	0.06
Method Group 001.XX PCT			18	17.21	0.30	0.08	16	17.16	0.26	0.04
Nitrate Nitrogen, Other		002.99	2	0.45	0.02	0.01	2	0.45	0.02	0.01
Ammon & Nitrate N, Devarda	892.01	009.10	2	16.99	0.65	0.14	2	16.99	0.65	0.14
Ammon & Nitrate N, Other		009.99	1	17.98	0.11	0.15	1	17.98	0.11	0.15
Method Group 009.XX PCT			3	17.32	0.71	0.14	3	17.32	0.71	0.14
Total Nitrogen, Modified Comprehensive	978.02	010.11	8	17.83	0.19	0.05	8	17.83	0.19	0.05
Total Nitrogen, Salicylic	955.04D	010.12	3	17.63	0.12	0.13	3	17.63	0.12	0.13
Total Nitrogen, Raney	970.03	010.16	1	18.25	0.07	0.10	1	18.25	0.07	0.10
Total Nitrogen, Combustion		010.60	46	17.83	0.21	0.09	44	17.84	0.21	0.08
Total Nitrogen, Other		010.99	5	17.96	0.40	0.11	5	17.96	0.40	0.11
Method Group 010.XX PCT			66	17.81	0.28	0.09	63	17.81	0.28	0.08
Total Phosphate, Grav Quimociac	962.02	020.10	7	46.33	0.15	0.10	7	46.33	0.15	0.10
Total Phosphate, Spectrometric	958.01	020.20	13	46.09	0.61	0.21	13	46.09	0.61	0.21
Total Phosphate, Automated	978.01	020.40	7	46.10	0.44	0.15	7	46.10	0.44	0.15
Total Phosphate, ICP		020.50	9	45.08	1.05	0.42	9	45.08	1.05	0.42
Total Phosphate, Other		020.99	2	45.73	1.11	0.04	2	45.73	1.11	0.04
Method Group 020.XX PCT			39	45.91	0.83	0.22	37	45.91	0.83	0.17
Insoluble Phosphate, Grav Quimociac	963.03C	030.10	1	0.29	0.01	0.02	1	0.29	0.01	0.02
Insoluble Phosphate, Spectrometric	963.03C	030.20	1	0.27	0.00	0.00	1	0.27	0.00	0.00
Insoluble Phosphate, Automated	978.01	030.40	2	0.21	0.10	0.01	2	0.21	0.10	0.01
Insoluble Phosphate, ICP		030.50	1	0.14	0.00	0.00	1	0.14	0.00	0.00
Method Group 030.XX PCT			5	0.22	0.08	0.01	4	0.21	0.08	0.00
InDir Available Phosphate, Grav Quim	960.02	040.10	1	46.24	0.09	0.13	1	46.24	0.09	0.13
InDir Available Phosphate, Automated	960.02	040.40	2	46.17	0.21	0.10	2	46.17	0.21	0.10
InDir Available Phosphate, ICP		040.50	1	45.80	0.19	0.27	1	45.80	0.19	0.27
InDir Available Phosphate, Other		040.99	1	46.05	0.02	0.03	1	46.05	0.02	0.03
Method Group 040.XX PCT			5	46.08	0.22	0.13	5	46.08	0.22	0.13
Dir Available Phosphate, Grav Quimociac	960.03E	041.10	14	46.09	0.39	0.10	13	46.11	0.39	0.08
Dir Available Phosphate, Spectrometric	960.03D	041.20	1	44.70	0.71	1.00	1	44.70	0.71	1.00
Dir Available Phosphate, Automated	978.01	041.40	4	46.45	0.39	0.40	4	46.45	0.39	0.40
Dir Available Phosphate, ICP		041.50	8	46.19	0.63	0.21	8	46.19	0.63	0.21
Dir Available Phosphate, EDTA Extract	993.01	041.60	7	45.99	0.26	0.14	6	46.05	0.21	0.08
Dir Available Phosphate, Other		041.99	1	46.20	0.21	0.29	1	46.20	0.21	0.29
Method Group 041.XX PCT			35	46.10	0.51	0.20	33	46.13	0.44	0.16
Water Soluble Phosphate, Spectrometric	970.01	048.20	3	42.73	1.33	0.18	3	42.73	1.33	0.18
Water Soluble Phosphate, ICP		048.50	1	38.60	0.14	0.20	1	38.60	0.14	0.20
Method Group 048.XX PCT			4	41.69	2.22	0.18	4	41.69	2.22	0.18

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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	9	59.64	1.10	0.10	9	59.64	1.10	0.10
Soluble Potash, STPB Citrate	969.04	050.10	2	60.01	0.33	0.13	2	60.01	0.33	0.13
Soluble Potash, AA (Oxalate)		050.30	8	60.77	1.93	0.45	7	60.64	2.01	0.28
Soluble Potash, AA (Citrate)		050.31	1	59.93	0.00	0.00	1	59.93	0.00	0.00
Soluble Potash, ICP (Oxalate)		050.50	8	59.69	1.40	0.54	8	59.69	1.40	0.54
Soluble Potash, ICP (Citrate)		050.51	8	59.82	1.32	0.24	7	59.86	1.40	0.15
Soluble Potash, Flame (Oxalate)	983.02(a)	050.60	4	61.09	1.49	0.28	3	61.66	1.20	0.05
Soluble Potash, Flame (Citrate)	983.02(b)	050.61	6	60.38	0.56	0.49	6	60.38	0.56	0.49
Soluble Potash, Other		050.99	18	60.13	1.34	0.57	16	60.23	1.29	0.39
Method Group 050.XX PCT			64	60.12	1.37	0.39	57	60.04	1.18	0.26
Free Water, Vacuum Oven	965.08B	060.00	4	2.25	0.23	0.07	4	2.25	0.23	0.07
Free Water, Other		060.99	1	0.05	0.06	0.08	1	0.05	0.06	0.08
Method Group 060.XX PCT			5	1.81	0.95	0.08	5	1.81	0.95	0.08
Acid Soluble Calcium, AA	945.04	101.00	1	0.14	0.00	0.00	1	0.14	0.00	0.00
Acid Soluble Calcium, ICP		101.30	9	0.18	0.04	0.01	9	0.18	0.04	0.01
Method Group 101.XX PCT			10	0.18	0.04	0.01	9	0.19	0.03	0.01
Acid Soluble Magnesium, AA	984.01	121.00	1	0.80	0.00	0.00	1	0.80	0.00	0.00
Acid Soluble Magnesium, ICP		121.30	11	0.61	0.50	0.01	10	0.59	0.52	0.01
Acid Soluble Magnesium, Other		121.99	1	1.00	0.01	0.01	1	1.00	0.01	0.01
Method Group 121.XX PCT			13	0.65	0.47	0.01	12	0.64	0.49	0.01
Sulfur, Gravimetric	980.02a	144.01	7	1.00	0.05	0.02	7	1.00	0.05	0.02
Sulfur, Other		144.99	14	0.93	0.06	0.01	13	0.93	0.06	0.01
Method Group 144.XX PCT			23	0.95	0.11	0.02	21	0.96	0.07	0.01
Arsenic, Atomic Absorption		151.00	1	0.08	0.00	0.00	1	0.08	0.00	0.00
Arsenic, ICP		151.30	7	6.49	7.79	0.47	6	4.91	7.23	0.18
Arsenic, Other		151.99	1	0.52	0.02	0.03	1	0.52	0.02	0.03
Method Group 151.XX PPM			9	5.12	7.31	0.37	8	3.76	6.53	0.14
Acid Soluble Boron, Other		165.99	4	0.027	0.018	0.000	3	0.020	0.015	0.000
Cadmium, Atomic Absorption		181.00	1	0.10	0.00	0.00	1	0.10	0.00	0.00
Cadmium, ICP		181.30	9	2.20	1.96	0.08	8	1.91	1.90	0.04
Method Group 181.XX PPM			10	1.99	1.97	0.07	9	1.71	1.87	0.04
Water Soluble Chlorine, Titrimetric	928.02	190.00	8	47.18	0.99	0.29	7	47.31	0.96	0.17
Water Soluble Chlorine, Other		190.99	6	47.21	1.55	0.22	6	47.21	1.55	0.22
Method Group 190.XX PCT			14	47.19	1.23	0.26	13	47.27	1.24	0.19
Chromium, ICP		191.30	9	28.47	43.46	1.00	8	26.82	45.98	0.55
Chromium, Other		191.99	1	2.00	0.06	0.08	1	2.00	0.06	0.08
Method Group 191.XX PPM			10	25.82	41.91	0.90	8	13.38	33.04	0.18
Acid Soluble Cobalt, ICP	965.11	202.30	8	2.98	2.25	0.20	8	2.98	2.25	0.20
Acid Soluble Cobalt, Other		202.99	3	2.75	3.99	0.01	3	2.75	3.99	0.01

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Method	AOAC Ref.	Method Code	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups
Method Group 202.XX PPM			11	2.92	2.73	0.15	9	2.47	2.83	0.06
Acid Soluble Copper, ICP		221.30	10	0.0007	0.0008	0.0002	8	0.0007	0.0008	0.0000
Acid Soluble Copper, Other		221.99	1	0.0001	0.0000	0.0000	1	0.0001	0.0000	0.0000
Method Group 221.XX PCT			11	0.0006	0.0007	0.0002	9	0.0006	0.0008	0.0000
Acid Soluble Iron, Atomic Absorption	980.01	241.00	1	1.46	0.04	0.06	1	1.46	0.04	0.06
Acid Soluble Iron, ICP		241.30	8	0.72	0.71	0.02	8	0.72	0.71	0.02
Acid Soluble Iron, Other		241.99	1	1.36	0.01	0.01	1	1.36	0.01	0.01
Method Group 241.XX PCT			10	0.86	0.69	0.03	10	0.86	0.69	0.03
Lead, ICP		251.30	10	2.25	2.62	0.24	9	1.88	2.49	0.14
Method Group 251.XX PPM			10	2.25	2.62	0.24	9	1.88	2.49	0.14
Acid Soluble Manganese, AA	972.02a	261.00	1	0.015	0.001	0.001	1	0.015	0.001	0.001
Acid Soluble Manganese, ICP		261.30	10	0.014	0.013	0.001	9	0.015	0.013	0.000
Acid Soluble Manganese, Other		261.99	1	0.026	0.001	0.001	1	0.026	0.001	0.001
Method Group 261.XX PCT			12	0.015	0.012	0.001	11	0.016	0.012	0.000
Mercury, ICP		281.30	1	2.89	0.02	0.03	1	2.89	0.02	0.03
Molybdenum, ICP		289.30	10	5.77	4.99	1.24	9	5.07	4.50	0.35
Molybdenum, Other		289.99	1	0.03	0.00	0.00	1	0.03	0.00	0.00
Method Group 289.XX PPM			11	5.25	5.04	1.13	10	4.57	4.53	0.31
Nickel, ICP		291.30	9	6.69	7.60	0.18	8	5.50	7.21	0.11
Nickel, Other		291.99	1	0.60	0.03	0.04	1	0.60	0.03	0.04
Method Group 291.XX PPM			10	6.08	7.43	0.17	8	4.78	7.38	0.04
Selenium, ICP		301.30	3	0.35	0.35	0.21	3	0.35	0.35	0.21
Selenium, Other		301.99	1	1.82	0.09	0.13	1	1.82	0.09	0.13
Method Group 301.XX PPM			4	0.72	0.74	0.19	4	0.72	0.74	0.19
Sodium, Other		311.99	6	0.85	0.50	0.02	5	0.78	0.53	0.01
Acid Soluble Zinc, Atomic Absorption	975.02	321.00	2	0.004	0.001	0.000	2	0.004	0.001	0.000
Acid Soluble Zinc, ICP		321.30	11	0.003	0.003	0.000	9	0.003	0.003	0.000
Acid Soluble Zinc, Other		321.99	2	0.006	0.005	0.000	2	0.006	0.005	0.000
Method Group 321.XX PCT			15	0.003	0.003	0.000	13	0.003	0.003	0.000
Water Soluble Zinc, ICP		325.30	1	0.000	0.000	0.000	1	0.000	0.000	0.000
Water Soluble Zinc, Other		325.99	1	0.000	0.000	0.000	1	0.000	0.000	0.000
Method Group 325.XX PCT			2	0.000	0.000	0.000	2	0.000	0.000	0.000

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	300	17.26	.40	Meth: 009.XX PCT													
456	17.53	1.50	.21	Ammon & Nitrate N													
444	17.48	1.30		117	16.44	-1.24	Meth: 010.60 PCT										
291	17.14	.07		Total Nitrogen													
Avg	17.12			102	17.85	1.10	Combustion										
232	16.99	-.47		377	18.05	1.01	Meth: 010.60 PCT										
309	17.00	-.47		390	18.02	.87	Total Nitrogen										
090	16.93	-.72		354	18.02	.86	Combustion										
351	16.78	-1.26		291	18.01	.82	Meth: 010.60 PCT										
230	12.00	s -18.70		275	17.96	.63	Total Nitrogen										
Meth: 002.99 PCT																	
Nitrate Nitrogen																	
Other	260	16.75	s -5.85	049	17.90	.56	Meth: 010.60 PCT										
420	17.78	1.81		007	17.90	.56	Total Nitrogen										
234	17.43	R 1.09		405	17.95	.54	Combustion										
096	17.53	.95		131	17.94	.49	Meth: 010.99 PCT										
105	17.44	.65		232	17.91	.42	Total Nitrogen										
419	17.30	.18		035	17.86	.32	Other										
397	17.25	.17		041	17.86	.30	Total Nitrogen										
300	17.26	.06		177	17.89	.26	Other										
Avg	17.24			136	17.87	.25	Total Nitrogen										
371	17.21	-.12		043	17.88	.25	Meth: 010.12 PCT										
409	17.04	-.68		096	17.87	.18	Total Nitrogen										
027	16.95	-.98		086	17.86	.18	Salicylic										
275	16.69	X -1.84		360	17.85	.16	Meth: 010.16 PCT										
368	15.91	s -4.46		292	17.86	.09	Total Nitrogen										
Meth: 009.10 PCT																	
Ammon & Nitrate N																	
Devarda	254	17.54	-.79	185	17.70	1.33	Meth: 010.60 PCT										
090	17.55	.85		351	17.65	.35	Total Nitrogen										
Avg	16.99			Avg	17.63		Raney										
117	16.44	-.88		254	17.54	-.79	419 18.25 .71										
Meth: 009.99 PCT																	
Ammon & Nitrate N																	
Other	105	17.98	-.71	Meth: 010.16 PCT													
420	17.78	R 2.45		Total Nitrogen													
234	17.43	R 1.48		095	17.80	-.22	Meth: 010.60 PCT										
096	17.53	1.44		231	17.81	-.26	Total Nitrogen										
456	17.53	1.44		029	17.82	-.28	Combustion										
444	17.48	1.23		037	17.74	-.46	230 19.20 s 6.39										
105	17.44	1.10		073	17.72	-.57	262 19.15 s 6.16										
419	17.30	.55		234	17.71	-.67	393 18.32 2.25										
397	17.25	.41		450	17.70	-.79	296 18.25 1.94										
Meth: 009.XX PCT																	
Ammoniacal Nitrogen																	
090	17.55	.31		024	17.67	-.86	Meth: 010.60 PCT										
Avg	17.32			042	17.74	R -.87	Total Nitrogen										
Meth: 009.99 PCT																	
Ammon & Nitrate N																	
Other	255	18.18	1.67	361	17.63	-.99	Meth: 010.60 PCT										
420	17.78	R 2.45		Total Nitrogen													
234	17.43	R 1.48		230	19.20	s 4.90	262 19.15 s 4.73										
096	17.53	1.44		422	18.44	2.23	422 18.44 2.23										
456	17.53	1.44		393	18.32	1.79	393 18.32 1.79										
444	17.48	1.23		419	18.25	1.56	419 18.25 1.56										
105	17.44	1.10		296	18.25	1.56	296 18.25 1.56										
419	17.30	.55		055	18.23	1.47	055 18.23 1.47										
397	17.25	.41		255	18.18	1.35	255 18.18 1.35										
Meth: 010.60 PCT																	
Total Nitrogen																	
230	19.20	s 4.90		117	18.13	1.16	117 18.13 1.16										
262	19.15	s 4.73		377	18.05	.85	377 18.05 .85										
422	18.44	2.23		102	17.85	R .84	102 17.85 R .84										
393	18.32	1.79		090	18.03	.77	090 18.03 .77										
419	18.25	1.56		390	18.02	.75	390 18.02 .75										
296	18.25	1.56		460	18.02	.75	460 18.02 .75										
055	18.23	1.47		354	18.02	.74	354 18.02 .74										
255	18.18	1.35		Meth: 010.60 PCT													
117	18.13	1.16		Total Nitrogen													
377	18.05	.85		230	19.20	s 4.90	230 19.20 s 4.90										
102	17.85	R .84		262	19.15	s 4.73	262 19.15 s 4.73										
090	18.03	.77		422	18.44	2.23	422 18.44 2.23										
390	18.02	.75		393	18.32	1.79	393 18.32 1.79										
460	18.02	.75		419	18.25	1.56	419 18.25 1.56										
390	18.02	.75		296	18.25	1.56	296 18.25 1.56										
460	18.02	.75		055	18.23	1.47	055 18.23 1.47										
460	18.02	.75		255	18.18	1.35	255 18.18 1.35										
354	18.02	.74		117	18.13	1.16	117 18.13 1.16										
354	18.02	.74		377	18.05	.85	377 18.05 .85										
354	18.02	.74		102	17.85	R .84	102 17.85 R .84										
354	18.02	.74		090	18.03	.77	090 18.03 .77										
354	18.02	.74		390	18.02	.75	390 18.02 .75										
354	18.02	.74		460	18.02	.75	460 18.02 .75										
354	18.02	.74		460	18.02	.75	460 18.02 .75										
354	18.02	.74		354	18.02	.74	354 18.02 .74										

\* 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.XX PCT														
Total Nitrogen														
420	18.00	.73	042	17.74 R	-.61	450	46.36	.54	432	43.03 S	-2.49	361	45.90	-.02
291	18.01	.71	185	17.70	-.62	292	46.35	.42	Meth: 020.50 PCT			035	45.89	-.08
455	17.98	.59	361	17.63	-.65	405	46.32	.36	Total Phosphate			456	45.83	-.13
275	17.96	.56	027	17.62	-.66	231	46.30	.34	ICP			309	45.73	-.22
105	17.95	.55	456	17.60	-.77	Avg	46.09		Meth: 020.99 PCT			296	45.69	-.47
405	17.95	.50	330	17.65 R	-.77	460	46.06	-.08	Total Phosphate			042	45.30	-.77
049	17.90	.48	402	17.55	-.93	309	45.73	-.60	Other			390	45.35 R	-.86
007	17.90	.48	114	17.55	-.93	296	45.69	-.84	Avg	45.73		232	44.97	-1.16
309	17.94	.46	254	17.54	-.95	232	44.97	-1.86	455	44.78	-.87	230	44.90	-1.22
131	17.94	.46	426	17.49	-1.23	230	44.90	-1.95	Meth: 020.XX PCT			455	44.78	-1.36
232	17.91	.40	444	17.34	-1.65	234	43.16 s	-4.90	Total Phosphate			368	44.54	-1.65
177	17.89	.29	371	17.31	-1.78	Meth: 020.40 PCT			ICP			330	44.10	-2.20
035	17.86	.28	389	17.28	-1.88	Total Phosphate			422	46.69	.87	389	43.80	-2.54
041	17.86	.28	325	17.10	-2.52	Automated			Avg	45.73		393	43.78	-2.56
043	17.88	.26	406	17.06	-2.64	095	46.52	.93	455	44.78	-.87	234	43.16 s	-3.40
136	17.87	.25	324	17.05	-2.68	096	46.46	.83	Meth: 030.10 PCT			432	43.03 s	-3.97
096	17.87	.22	260	16.75 s	-3.75	105	46.45	.80	Insoluble Phosphate					
086	17.86	.21	Meth: 020.10 PCT			042	45.30	-1.86	Gray Quinociac					
029	17.82	.20	Total Phosphate			042	45.30	-1.86	090	0.29	-.71			
360	17.85	.18	Gray Quinociac			035	45.89	-.50	Meth: 030.20 PCT					
292	17.86	.16	114	46.93 s	3.92	456	45.83	-.65	Insoluble Phosphate					
409	17.85	.14	090	46.53	1.38	042	45.30	-1.86	Spectrometric					
040	17.84	.12	043	46.46	.85	Meth: 020.50 PCT			405	0.27	.00			
009	17.81	.04	105	46.35	.61	Total Phosphate			Meth: 030.40 PCT					
Avg	17.81		041	46.38	.33	ICP			Insoluble Phosphate					
157	17.80	-.03	Avg	46.33		426	46.44	1.45	Automated					
233	17.80	-.05	300	46.27	-.42	255	45.93	.82	409	0.29	.87			
368	17.81	-.08	444	46.23	-.71	402	45.92	.79	Avg	0.21				
095	17.80	-.11	262	46.10	-1.65	361	45.90	.77	096	0.13	-.87			
231	17.81	-.16	Meth: 020.20 PCT			390	45.35	.50	Meth: 030.50 PCT					
211	17.76	-.17	Total Phosphate			Avg	45.08		Insoluble Phosphate					
105	17.78	-.20	Spectrometric			368	44.54	-.52	ICP					
037	17.74	-.25	324	46.70	1.04	330	44.10	-.98	Avg	45.91				
073	17.72	-.33	419	46.70	1.04	389	43.80	-1.22	Meth: 030.50 PCT					
234	17.71	-.41	406	46.66	.92	393	43.78	-1.24	Insoluble Phosphate					
450	17.70	-.52	420	46.50	.66				ICP					
024	17.67	-.56							Avg	45.92	.10			
351	17.65	-.57												

\* 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: 030.XX PCT											
<u>Insoluble Phosphate</u>											
090	0.29 R	1.06									
409	0.29	1.05									
405	0.27	.81									
Avg	0.21										
255	0.14	-.86									
096	0.13	-1.00									
Meth: 040.10 PCT											
<u>InDir Available Phos</u>											
090	46.24	.71									
Meth: 040.40 PCT											
<u>InDir Available Phos</u>											
096	46.34	.92									
Avg	46.17										
409	46.00	-.81									
Meth: 040.50 PCT											
<u>InDir Available Phos</u>											
255	45.80	.71									
Meth: 040.99 PCT											
<u>InDir Available Phos</u>											
Other											
405	46.05	.71									
Meth: 040.XX PCT											
<u>InDir Available Phos</u>											
096	46.34	1.26									
090	46.24	.77									
Avg	46.08										
405	46.05	-.18									
409	46.00	-.40									
255	45.80	-1.46									
Meth: 041.10 PCT											
<u>Dir Available Phosph</u>											
<u>Grav Quimociac</u>											
009	46.54	1.09									
136	46.47	.92									
086	46.46	.89									
049	46.41	.78									
177	46.35	.61									
131	46.35	.61									
040	46.31	.53									
211	46.26	.39									
Avg	46.11										
055	45.90	-.54									
105	45.90 R	-.75									
260	45.76	-.89									
102	45.72	-1.06									
254	45.54	-1.44									
185	45.36	-1.90									
Meth: 041.20 PCT											
<u>Dir Available Phosph</u>											
<u>Spectrometric</u>											
419	44.70	.71									
Meth: 041.40 PCT											
<u>Dir Available Phosph</u>											
<u>Automated</u>											
027	46.88	1.27									
029	46.49	.85									
Avg	46.45										
131	46.36	-.24									
095	46.09	-1.05									
Meth: 041.50 PCT											
<u>Dir Available Phosph</u>											
ICP											
354	48.64 S	3.88									
009	47.00	1.28									
325	46.70	.86									
360	46.59	.69									
Meth: 041.50 PCT											
<u>Dir Available Phosph</u>											
ICP											
027	46.88	1.78									
325	46.70	1.36									
360	46.59	1.11									
029	46.49 R	1.10									
009	46.54	.92									
Meth: 041.50 PCT											
<u>Dir Available Phosph</u>											
ICP											
055	46.31	.40									
023	46.29	.17									
Avg	46.19										
377	46.15	-.13									
291	45.25	-1.49									
361	45.25	-1.49									
368	44.65 S	-2.80									
007	44.40 S	-2.96									
393	42.78 S	-5.39									
Meth: 041.60 PCT											
<u>Dir Available Phosph</u>											
<u>EDTA Extract</u>											
043	46.26	1.01									
105	46.20	.98									
177	46.21	.77									
Avg	46.13										
397	46.00	-.22									
095	46.05	-.22									
397	46.00	-.22									
351	45.85	-1.03									
024	45.76	-1.35									
073	45.65 R	-2.21									
296	41.78 s	-20.27									
Meth: 041.99 PCT											
<u>Dir Available Phosph</u>											
<u>Other</u>											
105	46.20	.71									
Meth: 041.XX PCT											
<u>Dir Available Phosph</u>											
354	48.64 s	5.68									
009	47.00	1.96									
027	46.88	1.78									
325	46.70	1.36									
360	46.59	1.11									
029	46.49 R	1.10									
009	46.54	.92									
Meth: 041.XX PCT											
<u>Dir Available Phosph</u>											
368	44.65 s	-3.87									
007	44.40 s	-4.09									
393	42.78 s	-7.55									
296	41.78 s	-9.88									
Meth: 041.XX PCT											
<u>Dir Available Phosph</u>											
136	46.47	.77									
086	46.46	.74									
049	46.41	.64									
055	46.31	.64									
131	46.36	.51									
177	46.35	.49									
131	46.35	.49									
040	46.31	.42									
023	46.29	.37									
105	46.20	.36									
105	46.20	.35									
211	46.26	.30									
043	46.26	.30									
177	46.21	.18									
377	46.15	.16									
Avg	46.13										
397	46.00	-.29									
095	46.09	-.45									
055	45.90	-.53									
351	45.85	-.67									
105	45.90	-.70									
024	45.76	-.83									
260	45.76	-.84									
102	45.72	-.99									
073	45.65	-1.22									
254	45.54	-1.33									
185	45.36	-1.73									
291	45.25	-1.98									
361	45.25	-1.99									
419	44.70 R	-3.41									
368	44.65 s	-3.87									
007	44.40 s	-4.09									
393	42.78 s	-7.55									
296	41.78 s	-9.88									
Meth: 048.20 PCT											
<u>Water Soluble Phosph</u>											
<u>Spectrometric</u>											
420	44.41	1.27									
Avg	42.73										
096	42.17	-.42									
405	41.60	-.84									
Meth: 048.50 PCT											
<u>Water Soluble Phosph</u>											
<u>ICP</u>											
393	38.60 X	.71									
Meth: 048.XX PCT											
<u>Water Soluble Phosph</u>											
420	44.41	1.23									
096	42.17	.21									
Avg	41.69										
405	41.60	-.04									
393	38.60 X	-1.40									
Meth: 050.00 PCT											
<u>Soluble Potash</u>											
<u>STPB Oxalate</u>											
009	61.63	1.81									
211	60.27	.58									
247	60.02	.35									
231	59.85	.22									
397	59.75 X	.11									
Avg	59.64										
049	59.55	-.14									
114	59.23	-.38									
055	59.10	-.49									
102	57.35	-2.08									
230	52.50 s	-6.48									
Meth: 050.10 PCT											
<u>Soluble Potash</u>											
<u>STPB Citrate</u>											
444	60.29	.88									

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index			
Meth: 050.10 PCT														
Soluble Potash														
STPB Citrate			Meth: 050.99 PCT											
Avg	60.01		Soluble Potash											
300	59.73	-.85	Other			Meth: 050.51 PCT								
Meth: 050.30 PCT														
Soluble Potash														
AA (Oxalate)			Avg	62.45	1.85	Soluble Potash								
234	64.62	1.98	009	60.83	.68	ICP (Citrate)								
157	61.70 R	.66	420	60.46	.54	389	62.45	1.85	Meth: 050.99 PCT					
185	61.20	.28	043	60.47	.39	Avg	60.17	-.05	Soluble Potash					
136	61.05	.22	426	60.35	.34	131	60.20	-.08	Other					
Avg	60.64		444	60.29	.23	090	60.11 X	-.10	Avg					
043	60.47	-.11	211	60.27	.20	177	60.13	-.14	361					
040	60.20	-.22	131	60.27	.19	450	60.09	-.17	007					
073	58.51	-1.08	041	60.10	.18	247	60.01	-.17	393					
351	58.41	-1.11	131	60.20	.16	422	59.99	-.19	009					
262	48.24 s	-6.19	035	60.06	.16	360	59.98	-.31	420					
Meth: 050.61 PCT														
Soluble Potash														
AA (Citrate)			432	60.05	.16	255	60.01	-.40	Meth: 050.61 PCT					
254	59.93	.00	177	60.13	.15	275	59.97 X	-.49	Soluble Potash					
Meth: 050.50 PCT														
Soluble Potash														
ICP (Oxalate)			450	60.09	.15	368	59.36	-.72	Flame (Oxalate)					
157	62.00	1.72	040	60.20	.14	086	60.18 R	-.86	309					
420	60.46	.64	042	53.45 s	-6.21	455	58.48	-1.36	406					
426	60.35	.50	230	52.50 s	-6.37	325	58.35 R	-1.63	Avg					
354	59.96	.38	330	52.16 s	-6.66	390	57.95	-1.86	460					
419	59.85	.12	324	50.55 s	-8.02	232	54.71 S	-4.28	460					
Avg	59.69		262	48.24 s	-10.02	042	53.45 s	-5.83	460					
023	59.24	-.32	095	3.91 s	-47.43	330	52.16 s	-6.26	Avg					
055	58.24	-1.04	Meth: 060.00 PCT											
292	57.46	-1.59	Free Water											
324	50.55 s	-6.51	Vacuum Oven											
Meth: 050.99 PCT														
Soluble Potash														
Other			456	2.45	.95	Meth: 060.99 PCT								
027	62.81	1.99	405	2.39	.61	Free Water								
451	62.64	1.86	096	2.26	.07	Other								
402	61.86	1.26	Avg	2.25		443								
Meth: 060.61 PCT														
Soluble Potash														
Other			007	1.91	-1.49	Meth: 060.99 PCT								
027	62.81	1.99	Free Water											
451	62.64	1.86	Other											
402	61.86	1.26	443											
Meth: 060.50 PCT														
Soluble Potash														
ICP (Oxalate)			Meth: 060.00 PCT											
157	62.00	1.72	Free Water											
420	60.46	.64	Vacuum Oven											
426	60.35	.50	456	2.45	.95	Meth: 060.99 PCT								
354	59.96	.38	405	2.39	.61	Free Water								
419	59.85	.12	096	2.26	.07	Other								
Avg	59.69		Avg	2.25		443								
023	59.24	-.32	007	1.91	-1.49	Meth: 060.99 PCT								
055	58.24	-1.04	Free Water											
292	57.46	-1.59	Other											
324	50.55 s	-6.51	443											

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	
Meth: 060.XX PCT												
<u>Free Water</u>												
096	2.26	.47										Meth: 144.XX PCT
007	1.91	.11										<u>Sulfur</u>
Avg	1.81											393 0.84 -1.80
443	0.05	-1.85										354 0.65 R -4.54
Meth: 101.00 PCT												
<u>Acid Soluble Calcium</u>												
105	0.80	-.71										232 0.13 s -12.19
Meth: 121.30 PCT												
<u>Acid Soluble Magnesi</u>												
095	1.61	1.94										Meth: 151.00 PPM
389	0.94	.65										Arsenic
354	0.86	.51										<u>Atomic Absorption</u>
009	0.82	.42										136 0.08 .00
390	0.80	.39										Meth: 151.30 PPM
131	0.23	1.08										Arsenic
009	0.22	.82										ICP
232	0.19	.17										390 19.50 2.02
086	0.19	.07										009 16.00 R 1.54
Avg	0.18	-.22										296 6.80 .26
035	0.17	-.28										Avg 4.91
102	0.17	-.28										444 2.15 -.38
393	0.15	-1.05										368 1.00 -.54
354	0.12	-1.87										450 0.00 -.68
Meth: 101.00 PCT												
<u>Acid Soluble Calcium</u>												
095	3.83 s	96.51										393 0.00 X -.68
390	0.24	1.38										Meth: 151.99 PPM
131	0.23	1.08										Arsenic
009	0.22	.82										<u>Other</u>
232	0.19	.17										231 0.52 .71
086	0.19	-.09										Meth: 151.XX PPM
035	0.18	-.33										Arsenic
102	0.17	-.39										390 19.50 2.41
393	0.15	-1.28										009 16.00 R 1.88
105	0.14	-1.48										296 6.80 .47
Meth: 121.99 PCT												
<u>Acid Soluble Magnesi</u>												
422	1.00	.71										Avg 3.76
Meth: 144.70 PCT												
<u>Sulfur</u>												
368	3.32 S	.00										444 2.15 -.25
Meth: 144.99 PCT												
<u>Sulfur</u>												
422	1.00	.71										368 1.00 -.42
Meth: 121.00 PCT												
<u>Acid Soluble Magnesi</u>												
095	1.61	1.96										231 0.52 .71
422	1.00	.71										Meth: 151.00 PPM
389	0.94	.59										Arsenic
354	0.86	.44										390 19.50 2.41
009	0.82	.35										009 16.00 R 1.88
105	0.80	.32										296 6.80 .47
390	0.80	.32										Avg 3.76
131	0.23	1.08										444 2.15 -.25
009	0.22	.82										368 1.00 -.42
232	0.19	.17										231 0.52 -.50
086	0.19	-.09										136 0.08 -.56
035	0.18	-.33										450 0.00 -.58
102	0.17	-.39										393 0.00 X -.58
393	0.15	-1.28										
105	0.14	-1.48										

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 165.99 PCT											
Acid Soluble Boron											
Other											
009	0.046 R	1.70									
354	0.030	.65									
422	0.030	.65									
Avg	0.020										
232	0.000	-1.29									
Meth: 181.00 PPM											
Cadmium											
055	47.97	.68									
291	47.50	.19									
105	47.36	.08									
Avg	47.31										
102	47.24	-0.08									
043	46.15	-1.23									
444	46.22 R	-1.27									
029	46.10	-1.28									
Meth: 190.99 PCT											
Water Soluble Chlori											
397	49.35	1.38									
419	48.85	1.06									
Avg	47.21										
300	47.09	-1.11									
460	46.95	-1.17									
275	45.66 X	-1.02									
368	45.39	-1.18									
389	33.35 S	-8.94									
422	0.60 s	-30.07									
Meth: 191.99 PPM											
Chromium											
231	2.00	.71									
Meth: 190.00 PCT											
Water Soluble Chlori											
397	49.35	1.68									
157	48.90	1.34									
419	48.85	1.28									
055	47.97	.57									
291	47.50	.19									
105	47.36	.09									
Avg	47.27										
102	47.24	-0.03									
Meth: 181.00 PPM											
Atomic Absorption											
136	0.10	.00									
Meth: 181.30 PPM											
Cadmium											
ICP											
035	4.47 R	1.35									
419	4.05	1.13									
296	3.75	.97									
009	3.67	.93									
390	3.50	.84									
Avg	1.91										
450	0.20	-.90									
393	0.11	-.95									
102	0.02	-1.00									
368	0.01	-1.00									
Meth: 181.00 PPM											
Cadmium											
035	4.47 R	1.47									
419	4.05	1.25									
296	3.75	1.09									
009	3.67	1.04									
390	3.50	.95									
Avg	1.71										
450	0.20	-.81									
393	0.11	-.86									
136	0.10	-.86									
102	0.02	-.90									
Meth: 191.00 PPM											
Water Soluble Chlori											
300	47.09	1.80									
419	98.00	1.55									
035	41.70 R	.33									
Avg	26.82										
450	2.00	-.54									
086	1.67	-.55									
230	1.21	-.56									
368	1.10	-.56									
102	1.06	-.56									
393	0.00 X	-.58									
Meth: 191.30 PPM											
Chromium											
ICP											
009	109.50	1.80									
419	98.00	1.55									
035	41.70 R	.33									
Avg	26.82										
450	2.00	-.54									
086	1.67	-.55									
230	1.21	-.56									
368	1.10	-.56									
102	1.06	-.56									
393	0.00 X	-.58									
Meth: 191.30 PPM											
Acid Soluble Cobalt											
ICP											
296	5.15	.97									
009	5.07	.93									
035	4.66	.76									
390	4.28	.58									
419	4.05	.48									
Avg	2.98										
102	0.37	-1.16									
368	0.25	-1.21									
450	0.00	-1.32									
Meth: 202.99 PPM											
Acid Soluble Cobalt											
Other											
422	7.90	1.29									
Avg	2.75										
231	0.29	-.62									
393	0.06	-.67									
Meth: 202.00 PPM											
Acid Soluble Cobalt											
AA											
136	17.50 S	.00									
Meth: 202.00 PPM											
Chromium											
230	1.21	-.37									
368	1.10	-.37									
102	1.06	-.37									
393	0.00 X	-.40									
Meth: 202.00 PPM											
Acid Soluble Cobalt											
AA											
393	0.06	-.85									
450	0.00	-.87									
Meth: 202.00 PPM											
Chromium											
230	1.21	-.37									
368	1.10	-.37									
102	1.06	-.37									
393	0.00 X	-.40									
Meth: 202.00 PPM											
Acid Soluble Cobalt											
AA											
393	0.06	-.85									
450	0.00	-.87									
Meth: 221.30 PCT											
Acid Soluble Copper											
ICP											
450	1.0000 s	1237.02									
354	0.0020	1.62									
095	0.0020	1.62									
Avg	0.0007										
419	0.0006	-.15									
433	0.0005	-.21									
393	0.0003	-.53									
255	0.0004 R	-.59									
086	0.0002	-.66									
230	0.0006 R	-.67									
368	0.0000	-.85									
157	0.0000	-.85									
Meth: 221.99 PCT											
Acid Soluble Copper											
Other											
231	0.0001	.00									
422	0.1950 S	.00									
Avg	0.0001										
Meth: 221.00 PCT											
Acid Soluble Copper											
136	17.50 s	5.31									
422	7.90	1.92									
296	5.15 R	.95									
009	5.07	.92									
035	4.66 R	.78									

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index			
Meth: 221.XX PCT														
<u>Acid Soluble Copper</u>														
230	0.0006 R	.69										Meth: 289.XX PPM		
Avg	0.0006											<u>Molybdenum</u>		
419	0.0006	-.07										255	12.03 R	1.94
433	0.0005	-.14										035	10.90	1.40
393	0.0003	-.46										Avg	0.016	1.03
255	0.0004 R	-.56										105	0.015	1.02
086	0.0002	-.60										232	0.006 R	.96
231	0.0001	-.67										247	0.001	-.28
157	0.0000	-.80										086	0.001	4.57
368	0.0000	-.80										102	0.001	1.39
Meth: 241.00 PCT														
<u>Acid Soluble Iron</u>														
105	1.46	.71										433	0.27	-.95
Meth: 241.30 PCT														
<u>Acid Soluble Iron</u>														
105	1.46	.71										422	0.03	-1.00
Meth: 241.99 PCT														
<u>Acid Soluble Iron</u>														
422	1.36	.71										368	0.02	-1.00
Meth: 241.XX PCT														
<u>Acid Soluble Iron</u>														
419	0.0006	-.07										450	0.00	-1.01
433	0.0005	-.14										Meth: 291.30 PPM		
393	0.0003	-.46										Nickel		
255	0.0004 R	-.56										ICP		
086	0.0002	-.60										009	17.30	1.64
231	0.0001	-.67										419	17.00	1.60
157	0.0000	-.80										296	16.20 R	1.49
368	0.0000	-.80										035	6.35	.12
Meth: 251.00 PPM														
<u>Lead</u>														
105	0.015	.71										Avg	5.50	5.50
Meth: 251.30 PPM														
<u>Lead</u>														
419	7.90	2.42										450	1.00	-.62
035	5.61 R	1.52										230	0.89	-.64
296	3.95	.83										102	0.54	-.69
390	2.05	.07										393	0.49	-.69
Avg	1.88											368	0.40	-.71
450	1.00	-.35										Meth: 291.99 PPM		
230	0.57	-.53										Nickel		
368	0.50	-.55										Other		
444	0.50	-.56										231	0.60	.71
393	0.29	-.64										Meth: 289.99 PPM		
102	0.13	-.70										Molybdenum		
Meth: 261.00 PCT														
<u>Acid Soluble Manganese</u>														
105	0.015	.71										Other		
Meth: 261.30 PCT														
<u>Acid Soluble Manganese</u>														
354	0.030	1.13										422	0.03	.00
009	0.026	.84										Meth: 261.XX PCT		
390	0.026	.83										<u>Acid Soluble Manganese</u>		
131	0.026	.79										354	0.030	1.14
419	0.025	.74										009	0.026	.83
Avg	0.015											390	0.026	.83
232	0.006 R	-.81										131	0.026	.77
247	0.001	-1.07										Meth: 261.99 PCT		
086	0.001	-1.08										<u>Acid Soluble Manganese</u>		
102	0.001	-1.08										422	0.026	-.71
035	0.001	-1.08										Meth: 251.XX PPM		
Meth: 261.99 PCT														
<u>Acid Soluble Manganese</u>														
422	0.026	-.71										Lead		
Meth: 289.30 PPM														
<u>Molybdenum</u>														
009	0.026	.84										136	15.00 S	.00
390	0.026	.83										Meth: 251.30 PPM		
255	12.03 R	1.86										<u>Lead</u>		
035	10.90	1.30										136	15.00 S	.00
419	9.25	.93										ICP		
296	9.15	.91										419	7.90	2.42
390	8.92	.86										035	5.61 R	1.52
009	5.75	.18										296	3.95	.83
Avg	5.07											390	2.05	.07
393	1.39	-.82										Avg	1.88	1.88
433	0.27	-1.07										Meth: 251.00 s		
368	0.02	-1.12										136	15.00 s	5.29
450	0.00	-1.13										419	7.90	2.42
Meth: 289.99 PPM														
<u>Molybdenum</u>														
422	0.03	.00										035	5.61 R	1.52
Meth: 291.99 PPM														
<u>Nickel</u>														
009	17.30	1.64										296	3.95	.83
419	17.00	1.60										390	2.05	.07
296	16.20 R	1.49										Avg	1.88	1.88
035	6.35	.12										Meth: 241.XX PCT		
Avg	5.50	5.50										<u>Acid Soluble Iron</u>		
450	1.00	-.62										354	1.50	.93
230	0.89	-.64										105	1.46	.87
102	0.54	-.69										Meth: 241.99 PCT		
393	0.49	-.69										<u>Acid Soluble Iron</u>		
368	0.40	-.71										422	1.36	.71
Meth: 291.30 PPM														
<u>Nickel</u>														
009	17.30	1.64										419	0.0006	-.07
419	17.00	1.60										433	0.0005	-.14
296	16.20 R	1.49										393	0.0003	-.46
035	6.35	.12										255	0.0004 R	-.56
Avg	5.50	5.50										086	0.0002	-.60
450	1.00	-.62										231	0.0001	-.67
230	0.89	-.64										157	0.0000	-.80
102	0.54	-.69										368	0.0000	-.80
393	0.49	-.69										Meth: 241.00 PCT		
368	0.40	-.71										<u>Acid Soluble Iron</u>		
Meth: 291.99 PPM														
<u>Nickel</u>														
231	0.60	.71										105	1.46	.71
Meth: 289.99 PPM														
<u>Molybdenum</u>														
422	0.03	.00										136	15.00 S	.00
Meth: 261.XX PCT														
<u>Acid Soluble Manganese</u>														
354	0.030	1.14										ICP		
009	0.026	.83										419	7.90	2.42
390	0.026	.83										035	5.61 R	1.52
131	0.026	.79										296	3.95	.83
419	0.025	.74										390	2.05	.07
Avg	0.015											Avg	1.88	1.88
232	0.006 R	-.81										Meth: 251.30 PPM		
247	0.001	-1.07										<u>Lead</u>		
086	0.001	-1.08										136	15.00 s	5.29
102	0.001	-1.08										419	7.90	2.42
035	0.001	-1.08										035	5.61 R	1.52
Meth: 261.99 PCT														
<u>Acid Soluble Manganese</u>														
422	0.026	-.71										296	3.95	.83
Meth: 289.99 PPM														
<u>Molybdenum</u>														
422	0.03	.00										390	2.05	.07
Meth: 291.99 PPM														
<u>Nickel</u>														
009	17.30	1.70										102	0.13	-.70
419	17.00	1.66										Meth: 251.XX PPM		
296	16.20 R	1.55										Lead		
035	6.35 R	.22										136	15.00 s	5.29
Meth: 261.XX PCT														
<u>Acid Soluble Manganese</u>														
354	0.030	1.14										419	7.90	2.42
009	0.026	.83										035	5.61 R	1.52
390	0.026	.83										296	3.95	.83
131	0.026	.77										390	2.05	.07
Meth: 261.99 PCT														
<u>Acid Soluble Manganese</u>														
422	0.026	-.71										Avg	1.88	1.88

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

Laboratory Averages & Accuracy Indexes

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

Meth: 291.XX PPM

Nickel	
Avg	4.78
450	1.00
230	0.89
231	0.60
102	0.54
393	0.49
368	0.40

Meth: 311.99 PCT

Sodium	
Other	
009	0.16
-1.19	

Meth: 321.00 PCT

Acid Soluble Zinc	
Atomic Absorption	
296	0.005
.88	
Avg	0.004
105	0.004
-0.85	

Meth: 321.XX PCT

Acid Soluble Zinc	
095	0.009
1.74	
354	0.006
.76	
296	0.005
.44	
419	0.005 R
.44	
009	0.004
.30	
105	0.004
.17	
433	0.004
.11	
Avg	0.003
255	0.003 R
-.21	
231	0.001
-.67	
086	0.000
-.86	
232	0.000
-.93	
230	0.000
-.94	
102	0.000
-.97	
157	0.000
-1.00	

Meth: 301.30 PPM

Selenium	
ICP	
368	0.40
.87	
393	0.65
.86	
Avg	0.35
450	0.00
-1.00	

Meth: 321.30 PCT

Acid Soluble Zinc	
ICP	
450	1.000 s
304.90	
095	0.009
2.04	
354	0.006
1.01	
419	0.005 R
.66	
009	0.004
.53	
433	0.004
.28	
255	0.003 R
.25	
Avg	0.003
086	0.000
-.69	
232	0.000
-.76	
230	0.000
-.77	
102	0.000
-.80	
157	0.000
-.83	

Meth: 325.30 PCT

Water Soluble Zinc	
ICP	
393	0.000 X
.00	

Meth: 301.XX PPM

Selenium	
231	1.82
.71	

Meth: 321.99 PCT

Acid Soluble Zinc	
Other	
422	0.010
.87	
Avg	0.006
231	0.001
-.87	

Meth: 325.99 PCT

Water Soluble Zinc	
Other	
157	0.000
.00	
393	0.000 X
.00	
Avg	0.000

Meth: 311.99 PCT

Sodium	
Other	
086	1.27
.91	
102	1.25
.88	
232	1.20 R
.78	
035	1.05
.50	
Avg	0.78
422	0.20
-1.11	

Meth: 321.XX PCT

Acid Soluble Zinc	
450	1.000 s
290.73	
422	0.010
1.92	

Meth: 325.XX PCT

Water Soluble Zinc	
157	0.000
.00	
393	0.000 X
.00	
Avg	0.000

\* 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	- 2.34	6.68	0.10	060.XX	5	0.00	1.06	0.05
001.99	12	- 0.32	1.59	0.34	101.30	10	9.65	30.53	0.18
001.XX	20	- 1.07	4.70	0.32	101.XX	11	9.87	33.48	0.20
002.99	2	0.00	1.17	0.26	121.30	11	0.03	0.98	0.02
002.XX	2	0.00	1.17	0.26	121.XX	13	0.02	0.98	0.02
009.10	2	0.00	1.21	0.14	144.01	8	0.28	1.23	1.69
009.XX	3	0.00	1.11	0.12	144.99	18	1.17	8.75	0.44
010.11	9	- 0.65	2.17	0.15	144.XX	26	1.48	7.52	3.56
010.12	3	0.00	0.70	0.71	151.30	7	0.22	1.12	0.06
010.60	51	0.03	1.78	0.31	151.XX	9	0.21	1.15	0.06
010.99	5	0.00	1.05	0.15	165.99	4	0.425	1.248	0.015
010.XX	68	0.07	1.34	0.22	165.XX	4	0.425	1.248	0.015
020.10	8	0.49	1.64	0.39	181.30	9	0.15	1.07	0.03
020.20	14	- 0.34	1.59	0.37	181.XX	10	0.15	1.08	0.03
020.40	7	0.00	1.01	0.22	190.00	8	- 0.14	1.04	0.24
020.50	10	- 0.20	1.12	0.56	190.99	8	- 4.88	10.69	0.08
020.99	2	0.00	1.22	0.02	190.XX	16	- 3.11	9.67	0.15
020.XX	40	- 0.18	1.22	0.39	191.30	9	0.04	0.97	0.02
030.40	2	0.00	1.22	0.04	191.XX	10	0.38	1.30	0.03
030.XX	5	0.21	1.05	0.06	202.30	8	0.00	1.03	0.07
040.40	2	0.00	1.14	0.32	202.99	3	0.00	1.12	0.00
040.XX	5	0.00	0.98	0.37	202.XX	12	0.59	1.76	0.07
041.10	14	- 0.04	0.98	0.19	221.30	11	112.41	372.99	0.2427
041.40	4	0.00	0.83	0.60	221.99	2	0.0000	0.0000	0.0000
041.50	12	- 0.57	2.36	0.51	221.XX	13	117.34	355.23	1.7874
041.60	8	- 2.75	7.09	1.05	241.30	8	0.00	1.03	0.03
041.XX	34	- 0.69	2.66	0.58	241.XX	10	0.00	1.03	0.03
048.20	3	0.00	1.11	0.10	251.30	10	0.15	1.08	0.08
048.XX	4	0.00	1.08	0.06	251.XX	11	0.62	1.86	0.14
050.00	10	- 0.65	2.27	0.06	261.30	10	- 0.071	0.997	0.122
050.10	2	0.00	1.19	0.19	261.XX	12	- 0.070	1.006	0.121
050.30	9	- 0.63	2.27	0.25	289.30	10	0.15	1.09	0.33
050.50	9	- 0.72	2.36	0.24	289.XX	11	0.15	1.09	0.31
050.51	8	- 0.03	0.96	0.13	291.30	9	0.17	1.09	0.02
050.60	4	- 0.48	1.32	0.20	291.XX	10	0.18	1.03	0.02
050.61	7	- 14.44	38.22	0.56	301.30	3	0.00	0.94	0.50
050.99	21	- 0.82	2.09	0.64	301.XX	4	0.00	1.05	0.21
050.XX	66	- 1.29	6.22	0.45	311.99	6	0.13	1.00	0.03
060.00	4	0.00	1.05	0.22	311.XX	6	0.13	1.00	0.03

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	2	0.000	1.199	0.175					
321.30	12	25.471	88.001	0.097					
321.99	2	0.000	1.225	0.000					
321.XX	16	18.190	72.683	0.081					