

- Pass 1 Results for 76 Labs - - Pass 2 Results for 73 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	4	7.64	0.09	0.05	4	7.64	0.09	0.05
Ammoniacal Nitrogen, Other		001.99	7	8.61	1.51	0.03	7	8.61	1.51	0.03
Method Group 001.XX PCT			11	8.26	1.28	0.04	11	8.26	1.28	0.04
Nitrate Nitrogen, Other		002.99	7	7.69	0.72	0.04	7	7.69	0.72	0.04
Method Group 002.XX PCT			7	7.69	0.72	0.04	7	7.69	0.72	0.04
Nitrogen From Urea, Urease (as N)	959.03	005.00	2	16.87	0.22	0.04	2	16.87	0.22	0.04
Nitrogen From Urea, Other		005.99	3	18.36	0.93	0.04	3	18.36	0.93	0.04
Method Group 005.XX PCT			5	17.76	1.04	0.04	5	17.76	1.04	0.04
Percent Urea, Other		007.99	1	23.65	0.07	0.10	1	23.65	0.07	0.10
Ammon & Nitrate N, Devarda	892.01	009.10	1	15.21	0.08	0.12	1	15.21	0.08	0.12
Ammon & Nitrate N, Other		009.99	2	16.05	1.65	0.02	2	16.05	1.65	0.02
Method Group 009.XX PCT			3	15.77	1.35	0.05	3	15.77	1.35	0.05
Total Nitrogen, Modified Comprehensive	978.02	010.11	5	32.16	0.25	0.05	5	32.16	0.25	0.05
Total Nitrogen, Salicylic	955.04D	010.12	1	31.14	0.16	0.23	1	31.14	0.16	0.23
Total Nitrogen, Combustion		010.60	55	32.26	0.32	0.13	53	32.26	0.32	0.11
Total Nitrogen, Other		010.99	3	31.92	0.60	0.13	3	31.92	0.60	0.13
Method Group 010.XX PCT			65	32.20	0.39	0.13	61	32.24	0.34	0.10
Total Phosphate, Grav Quimociac	962.02	020.10	8	16.39	8.29	0.29	7	15.64	8.63	0.16
Total Phosphate, Spectrometric	958.01	020.20	9	16.89	9.22	0.10	9	16.89	9.22	0.10
Total Phosphate, Automated	978.01	020.40	3	8.84	7.33	0.49	3	8.84	7.33	0.49
Total Phosphate, ICP		020.50	12	21.48	2.94	0.44	11	21.04	2.62	0.31
Total Phosphate, Other		020.99	2	11.18	12.91	0.01	2	11.18	12.91	0.01
Method Group 020.XX PCT			35	17.10	8.16	0.29	30	16.35	8.50	0.11
Insoluble Phosphate, ICP		030.50	1	0.00	0.00	0.00	1	0.00	0.00	0.00
InDir Available Phosphate, ICP		040.50	1	21.09	0.07	0.10	1	21.09	0.07	0.10
Dir Available Phosphate, Grav Quimociac	960.03E	041.10	4	0.32	0.04	0.05	4	0.32	0.04	0.05
Dir Available Phosphate, ICP		041.50	3	20.55	0.96	0.13	3	20.55	0.96	0.13
Dir Available Phosphate, EDTA Extract	993.01	041.60	3	0.25	0.15	0.16	3	0.25	0.15	0.16
Dir Available Phosphate, Other		041.99	2	10.56	12.18	0.41	2	10.56	12.18	0.41
Method Group 041.XX PCT			12	7.07	9.85	0.15	11	5.79	9.26	0.10
Soluble Potash, STPB Oxalate	958.02	050.00	14	20.28	0.58	0.17	13	20.34	0.53	0.08
Soluble Potash, STPB Citrate	969.04	050.10	1	20.86	0.13	0.18	1	20.86	0.13	0.18
Soluble Potash, AA (Oxalate)		050.30	8	20.23	0.40	0.17	7	20.27	0.39	0.11
Soluble Potash, ICP (Oxalate)		050.50	4	19.86	0.37	0.16	4	19.86	0.37	0.16
Soluble Potash, ICP (Citrate)		050.51	9	20.37	0.93	0.29	8	20.39	0.96	0.16
Soluble Potash, Flame (Oxalate)	983.02(a)	050.60	4	20.45	0.17	0.10	4	20.45	0.17	0.10
Soluble Potash, Flame (Citrate)	983.02(b)	050.61	8	20.08	0.37	0.29	8	20.08	0.37	0.29
Soluble Potash, Other		050.99	12	19.91	0.76	0.18	12	19.78	0.94	0.09
Method Group 050.XX PCT			60	20.18	0.63	0.20	55	20.25	0.57	0.14

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Method	AOAC Ref.	Method Code	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups
Acid Soluble Calcium, ICP		101.30	4	0.01	0.00	0.00	4	0.01	0.00	0.00
Acid Soluble Magnesium, ICP		121.30	5	0.03	0.04	0.00	4	0.01	0.01	0.00
Sulfur, Other		144.99	4	0.03	0.04	0.00	3	0.01	0.01	0.00
Arsenic, Atomic Absorption		151.00	2	2.23	2.44	0.17	2	2.23	2.44	0.17
Arsenic, ICP		151.30	4	2.89	1.10	0.29	4	2.89	1.10	0.29
Method Group 151.XX PPM			6	2.67	1.58	0.25	6	2.67	1.58	0.25
Acid Soluble Boron, Other		165.99	3	0.002	0.001	0.000	3	0.002	0.001	0.000
Cadmium, Atomic Absorption		181.00	1	0.11	0.02	0.03	1	0.11	0.02	0.03
Cadmium, ICP		181.30	4	0.11	0.11	0.02	4	0.11	0.11	0.02
Method Group 181.XX PPM			5	0.11	0.10	0.02	5	0.11	0.10	0.02
Water Soluble Chlorine, Titrimetric	928.02	190.00	1	0.02	0.00	0.00	1	0.02	0.00	0.00
Chromium, ICP		191.30	11	3.34	1.60	0.34	11	3.34	1.60	0.34
Acid Soluble Cobalt, AA		202.00	1	4.10	0.14	0.20	1	4.10	0.14	0.20
Acid Soluble Cobalt, ICP	965.11	202.30	4	1.26	2.30	0.12	3	0.02	0.01	0.00
Method Group 202.XX PPM			5	1.83	2.36	0.14	4	1.04	1.89	0.05
Acid Soluble Copper, Atomic Absorption	975.01	221.00	2	0.0002	0.0000	0.0000	2	0.0002	0.0000	0.0000
Acid Soluble Copper, ICP		221.30	9	0.0010	0.0018	0.0002	7	0.0001	0.0001	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			12	0.0007	0.0016	0.0002	10	0.0001	0.0001	0.0000
Acid Soluble Iron, ICP		241.30	4	0.00	0.00	0.00	4	0.00	0.00	0.00
Lead, Atomic Absorption		251.00	1	8.45	1.06	1.50	1	8.45	1.06	1.50
Lead, ICP		251.30	4	1.17	1.72	0.03	4	1.17	1.72	0.03
Method Group 251.XX PPM			5	2.62	3.44	0.32	4	1.17	1.72	0.03
Acid Soluble Manganese, ICP	972.02a	261.30	6	0.001	0.000	0.000	5	0.001	0.000	0.000
Mercury, ICP		281.30	1	0.00	0.00	0.00	1	0.00	0.00	0.00
Molybdenum, ICP		289.30	4	0.24	0.38	0.00	4	0.24	0.38	0.00
Nickel, Atomic Absorption		291.00	1	3.85	0.07	0.10	1	3.85	0.07	0.10
Nickel, ICP		291.30	4	0.39	0.21	0.08	4	0.39	0.21	0.08
Method Group 291.XX PPM			6	1.14	1.34	0.16	5	1.08	1.47	0.08
Selenium, ICP		301.30	1	0.00	0.00	0.00	1	0.00	0.00	0.00
Sodium, Other		311.99	4	0.09	0.08	0.00	4	0.09	0.08	0.00
Acid Soluble Zinc, Atomic Absorption	975.02	321.00	3	0.001	0.001	0.000	3	0.001	0.001	0.000
Acid Soluble Zinc, ICP		321.30	9	0.000	0.000	0.000	8	0.000	0.000	0.000
Acid Soluble Zinc, Other		321.99	1	0.003	0.000	0.000	1	0.003	0.000	0.000
Method Group 321.XX PCT			14	0.001	0.001	0.000	13	0.001	0.001	0.000
Water Soluble Zinc, ICP		325.30	1	0.854	0.003	0.004	1	0.854	0.003	0.004

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 001.10 PCT			Meth: 005.99 PCT			Meth: 010.11 PCT			Meth: 010.60 PCT		
Ammoniacal Nitrogen			Nitrogen From Urea			Total Nitrogen			Total Nitrogen		
MgO Distillation			Other			Modified Comprehensive			Combustion		
090	7.75	1.23	Avg	18.36	.00	090	32.61	1.80	360	32.29	.37
444	7.68	.46	394	17.88	-.51	Avg	32.16		131	32.32	.29
Avg	7.64		372	17.64	-.77	211	32.13	-.15	296	32.35	.28
291	7.58	-.69	Meth: 002.99 PCT			105	32.13	-.20	023	32.35	.28
232	7.55	-1.14	Nitrate Nitrogen			309	32.03	-.56	233	32.32	.22
230	0.75 s	-78.02	Other			322	31.93	-.95	009	32.31	.16
			419	9.34	2.28				043	32.31	.16
			Avg	7.69					231	32.27	.04
Meth: 001.99 PCT			291	7.68	-.08	Meth: 010.12 PCT			372	32.26	.03
Ammoniacal Nitrogen			232	7.65	-.09	Total Nitrogen			Avg	32.26	
Other			027	7.41	-.40	Salicylic			291	32.26	-.11
409	10.98	1.57	394	7.35	-.48	185	31.14	.71	177	32.22	-.16
393	10.36	1.16	372	7.32	-.52				096	32.21	-.17
419	9.26	.43	393	7.13	-.79	Meth: 010.17 PCT			452	32.20	-.21
Avg	8.61					Total Nitrogen			393	32.19	-.23
096	7.54	-.71	Meth: 007.99 PCT			Comprehensive			057	32.19	-.31
394	7.45	-.77	Percent Urea			169	17.55 S	.00	025	32.14	-.39
027	7.37	-.82	Other						369	32.18	-.40
372	7.31	-.86	419	23.65	.71	Meth: 010.60 PCT			394	32.12	-.49
						Total Nitrogen			247	32.07	-.60
Meth: 002.XX PCT			Meth: 009.10 PCT			Combustion			377	32.13	-.62
Nitrate Nitrogen			Ammon & Nitrate N			422	33.01	2.33	095	32.07	-.65
230	11.20 s	4.89	Devarda			292	32.94	2.12	102	32.17	-.66
419	9.34	2.28	444	15.21	-.71	114	32.92	2.06	361	32.05	-.66
Avg	7.69					443	32.76	1.54	041	32.06	-.68
291	7.68	-.08	Meth: 009.99 PCT			390	32.75	1.54	035	32.04	-.70
232	7.65	-.09	Other			072	32.66	1.24	426	32.01	-.78
027	7.41	-.40	393	17.48	.87	389	32.55	1.02	234	32.01	-.78
394	7.35	-.48	Avg	16.05		037	32.58	.99	162	31.96	-.96
372	7.32	-.52	372	14.62	-.87	055	32.52	.94	425	31.95	-.97
393	7.13	-.79				049	32.51	.92	307	32.08 R	-1.06
			Meth: 009.XX PCT			324	32.55	.92	230	31.90	-1.16
Meth: 002.XX PCT			Ammon & Nitrate N			444	32.55	.91	232	31.88	-1.20
Nitrate Nitrogen			393	17.48	1.27	351	32.53	.84	007	32.20 R	-1.26
Jones Modified			Avg	15.77		451	32.49 X	.74	022	31.81	-1.43
230	11.20 S	.00	444	15.21	-.42	325	32.40	.54	028	31.80	-1.45
Meth: 002.99 PCT			372	14.62	-.85	136	32.38	.39	073	31.71	-1.75
Nitrate Nitrogen						040	32.37	.38			
Other											
419	9.34	2.28									
Avg	7.69										
291	7.68	-.08									
232	7.65	-.09									
027	7.41	-.40									
394	7.35	-.48									
372	7.32	-.52									
393	7.13	-.79									
Meth: 002.XX PCT											
Nitrate Nitrogen											
230	11.20 s	4.89									
419	9.34	2.28									
Avg	7.69										
291	7.68	-.08									
232	7.65	-.09									
027	7.41	-.40									
394	7.35	-.48									
372	7.32	-.52									
393	7.13	-.79									
Meth: 005.00 PCT											
Nitrogen From Urea											
027	17.06	.86									
Avg	16.87										
232	16.68	-.87									
Meth: 005.99 PCT											
Nitrogen From Urea											
Other											
309	19.55	1.28									

* 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: 010.60 PCT																				
Total Nitrogen																				
296	32.35	.34	Meth: 010.XX PCT																	
Total Nitrogen			Total Nitrogen			Total Phosphate			Total Phosphate			Total Phosphate								
262	31.70	-1.77	022	31.81	-1.28	105	16.61	1.06	361	22.50	.72	Meth: 020.XX PCT								
255	31.60	-2.07	028	31.80	-1.30	027	9.60	.10	444	22.44	.72	Total Phosphate								
409	31.10 s	-3.66	073	31.71	-1.59	Avg	8.84		057	22.37	.71	Automated								
027	30.51 s	-5.47	262	31.70	-1.61	096	0.31	-1.16	416	22.37	.71	Meth: 020.40 PCT								
Meth: 010.99 PCT																				
Total Nitrogen																				
009	32.31	.22	255	31.60	-1.89	Meth: 020.50 PCT									Total Phosphate					
291	32.26	.12	416	31.31	-2.75	117	26.40 R	2.07	452	22.31	.49	Total Phosphate			Total Phosphate					
231	32.27	.11	185	31.14 A	-3.27	422	23.61	.98	169	21.83	.64	ICP			Meth: 030.50 PCT					
372	32.26	.08	409	31.10 A	-3.39	361	22.50	.56	390	21.75 R	.64	Total Phosphate			Insoluble Phosphate					
Avg	32.24		027	30.51 s	-5.11	452	22.31	.49	262	20.66	.51	ICP			ICP					
096	32.21	-.09	169	17.55 s	-43.38	390	21.75	.34	351	19.33	.35	Meth: 020.10 PCT			Meth: 030.50 PCT					
177	32.22	-.09	Meth: 020.10 PCT												Total Phosphate			Total Phosphate		
452	32.20	-.13	Total Phosphate												Total Phosphate			Total Phosphate		
255	31.84	-.17	Grav Quinociac												Total Phosphate			Total Phosphate		
416	31.31	-1.02	090	22.55	.80	444	21.90	.33	371	21.62 R	.62	Meth: 020.20 PCT			Total Phosphate					
Meth: 010.XX PCT																				
Total Nitrogen																				
419	42.25 s	29.58	044	22.44	.79	307	21.64	.32	291	21.04	.55	Meth: 020.99 PCT			Total Phosphate					
422	33.01	2.27	057	22.37	.78	354	21.43	.15	389	20.80	.52	Total Phosphate			Total Phosphate					
292	32.94	2.08	049	22.36	.78	255	21.09	.03	262	20.66	.51	Other			Total Phosphate					
114	32.92	2.02	117	21.62 R	.70	Avg	21.04		041	0.59	-1.85	Meth: 020.20 PCT			Total Phosphate					
443	32.76	1.54	Avg	15.64		291	21.04	-.01	105	16.61 R	.09	Spectrometric			Total Phosphate					
390	32.75	1.53	043	9.61	-.70	389	20.80	-.12	105	16.35		Meth: 020.99 PCT			Total Phosphate					
072	32.66	1.25	105	9.55	-.71	372	13.34	-2.94	Avg	16.35		Total Phosphate			Total Phosphate					
354	32.63	1.23	041	0.59	-1.74	114	8.86 s	-4.65	372	13.34	-.35	Meth: 020.20 PCT			Total Phosphate					
090	32.61	1.10	Meth: 020.20 PCT												Total Phosphate			Total Phosphate		
389	32.55	1.03	Total Phosphate												Total Phosphate			Total Phosphate		
037	32.58	1.01	Spectrometric												Total Phosphate			Total Phosphate		
055	32.52	.95	232	23.25	.69	416	22.37	.87	041	0.59	-1.85	Meth: 020.99 PCT			Total Phosphate					
324	32.55	.94	324	22.55	.61	Avg	11.18		096	0.31	-1.89	Total Phosphate			Total Phosphate					
049	32.51	.93	231	22.28	.58	443	0.00	-.87	309	0.30	-1.89	Meth: 020.XX PCT			Total Phosphate					
444	32.55	.93	169	21.83	.54	Meth: 020.XX PCT									Total Phosphate			Total Phosphate		
351	32.53	.87	371	21.62	.51	Total Phosphate									Total Phosphate			Total Phosphate		
451	32.49 X	.77	262	20.66	.41	117	26.40 R	1.19	422	23.61	.85	Meth: 020.99 PCT			Total Phosphate					
325	32.40	.57	351	19.33	.27	422	23.61	.85	096	0.31	-1.89	Total Phosphate			Total Phosphate					
136	32.38	.43	Avg	16.89		232	23.25	.81	309	0.30	-1.89	Meth: 020.99 PCT			Total Phosphate					
040	32.37	.42	309	0.30	-1.80	324	22.55	.73	428	0.20	-1.90	Total Phosphate			Total Phosphate					
360	32.29	.37	428	0.20	-1.81	090	22.55	.73	443	0.00	-1.92	Meth: 020.99 PCT			Total Phosphate					

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 040.50 PCT											
InDir Available Phos											
ICP	360	21.59	1.71								
255	21.09	.71	230	21.10	R	1.65	369	20.82	1.39		
Meth: 041.10 PCT											
Dir Available Phosph											
Grav Quimociac	105	0.34	1.66	377	20.61	1.60	234	20.57	.83		
105	0.34	1.66	028	0.33	.44	-0.59	351	20.36	.25		
028	0.33	.44	009	0.32	-0.59	-0.59	Avg	20.45			
Avg	0.32	-0.41	296	0.30	-0.59	-0.59	040	20.28	.07		
009	0.32	-0.41	296	0.30	-0.59	-0.59	Avg	20.27	-1.02		
296	0.30	-0.63	024	0.25	-0.60	-0.60	425	20.25	-.28		
Meth: 041.50 PCT											
Dir Available Phosph											
ICP	322	0.02	-0.62								
360	21.59	1.08									
377	20.61	.06									
Avg	20.55	-1.15									
325	19.45	-1.15									
Meth: 041.60 PCT											
Dir Available Phosph											
EDTA Extract	090	20.54	.39								
296	0.30	.28	057	20.52	.34	420	19.29	-1.54			
Avg	0.25	-.08	211	20.45	.20						
024	0.25	-.08	049	20.35	.12						
105	0.23	-1.55	131	20.39	.10						
Meth: 050.51 PCT											
Soluble Potash											
STPB Oxalate	073	21.16	1.53								
114	20.70	.68	422	22.74	S	7.68	432	23.70	S	4.19	
022	20.69	.67	324	20.15	.87	426	20.01	.44	027	22.43	S
090	20.54	.39	426	20.01	.44	292	20.00	.42	131	20.87	1.15
057	20.52	.34	292	20.00	.42	Avg	19.86		247	20.67	.94
211	20.45	.20	Avg	19.86		420	19.29	-1.54	360	20.67	.93
049	20.35	.12	420	19.29	-1.54						
131	20.39	.10									
Avg	20.34	-0.02									
231	20.33	-0.13									
055	20.34	-0.23									
296	20.22	-0.23									
102	19.94	-0.79									
Meth: 041.99 PCT											
Dir Available Phosph											
Other	009	19.53	R	-1.93							
230	21.10	.87	043	18.82	-2.86						
Avg	10.56	-.87	230	13.45	S	-12.98					
322	0.02	-.87									
Meth: 050.60 PCT											
Soluble Potash											
Flame (Oxalate)	055	20.63	1.13								
105	20.57	.80									
Meth: 050.61 PCT											
Soluble Potash											
Flame (Citrate)	024	20.61	1.41								
105	20.24	.73									
041	20.22	.41									
037	20.19	.41									
Avg	20.08	-0.06									
025	20.07	-0.06									
034	19.87	-0.79									
035	20.04	-0.82									
028	19.44	-1.83									
Meth: 050.99 PCT											
Soluble Potash											
Other	105	20.57	.58								
090	20.54	.53									
361	20.53	.50									
057	20.52	.48									
211	20.45	.35									
131	20.39	.25									
232	20.38	.23									
351	20.36	.21									
049	20.35	.21									
055	20.34	.21									
425	20.25	.19									
231	20.33	.15									
169	20.33	.15									
444	20.27	.07									
040	20.28	.07									
309	20.28	.07									

* 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>											
072	20.26	.02									
Avg	20.25										
296	20.22	-.07									
041	20.22	-.13									
416	20.16	-.17									
037	20.19	-.22									
324	20.15	-.32									
025	20.07	-.32									
136	20.08	-.32									
105	20.24	-.40									
426	20.01	-.44									
292	20.00	-.45									
102	19.94	-.59									
035	20.04	-.64									
451	19.94	-.75									
034	19.87	-.75									
260	19.82	-.76									
255	19.88	-.79									
007	19.97	-.87									
377	19.64	-1.08									
009	20.19	-1.13									
023	19.59	-1.17									
428	19.54	-1.25									
291	19.43	-1.45									
322	19.41	-1.48									
028	19.44	-1.48									
009	19.53	-1.69									
420	19.29	-1.70									
354	19.28	-1.72									
307	19.33	-1.90									
043	18.82	-2.52									
390	18.25	-3.53									
325	17.80	-4.32									
230	13.45	-12.01									
262	11.50	-15.45									
Meth: 101.30 PCT											
<u>Acid Soluble Calcium</u>											
ICP											
422	0.38	s 87.58									
420	0.02	1.56									
Avg	0.01										
433	0.01	-.16									
009	0.01	-.56									
102	0.00	-.86									
Meth: 121.30 PCT											
<u>Acid Soluble Magnesi</u>											
ICP											
422	0.11	R 7.57									
444	0.03	1.62									
Avg	0.01										
420	0.00	-.51									
433	0.00	-.55									
102	0.00	-.56									
Meth: 144.99 PCT											
<u>Sulfur</u>											
Other											
422	0.11	R 15.36									
232	0.02	1.29									
Avg	0.01										
009	0.01	-.56									
102	0.00	-.73									
Meth: 151.00 PPM											
<u>Arsenic</u>											
Atomic Absorption											
231	4.34	.87									
Avg	2.23										
136	0.13	-.86									
Meth: 151.30 PPM											
<u>Arsenic</u>											
ICP											
230	4.10	1.10									
Meth: 151.30 PPM											
<u>Arsenic</u>											
ICP											
230	4.10	1.10									
Meth: 151.30 PPM											
<u>Arsenic</u>											
ICP											
231	4.34	.87									
Avg	2.23										
136	0.13	-.86									
Meth: 181.30 PPM											
<u>Cadmium</u>											
ICP											
452	0.27	1.52									
Avg	0.11										
102	0.09	-.29									
372	0.08	-.30									
419	0.00	-1.00									
Meth: 181.00 PPM											
<u>Cadmium</u>											
Atomic Absorption											
136	0.11	.71									
Meth: 181.30 PPM											
<u>Cadmium</u>											
ICP											
452	0.27	1.52									
Avg	0.11										
102	0.09	-.29									
372	0.08	-.30									
419	0.00	-1.00									
Meth: 181.30 PPM											
<u>Cadmium</u>											
ICP											
452	0.27	1.52									
Avg	0.11										
102	0.09	-.29									
372	0.08	-.30									
419	0.00	-1.00									
Meth: 181.30 PPM											
<u>Cadmium</u>											
ICP											
452	0.27	1.52									
Avg	0.11										
102	0.09	-.29									
372	0.08	-.30									
419	0.00	-1.00									
Meth: 181.30 PPM											
<u>Cadmium</u>											
ICP											
452	0.27	1.52									
Avg	0.11										
102	0.09	-.29									
372	0.08	-.30									
419	0.00	-1.00									
Meth: 181.30 PPM											
<u>Cadmium</u>											
ICP											
452	0.27	1.52									
Avg	0.11										
102	0.09	-.29									
372	0.08	-.30									
419	0.00	-1.00									
Meth: 181.30 PPM											
<u>Cadmium</u>											
ICP											
452	0.27	1.52									
Avg	0.11										
102	0.09	-.29									
372	0.08	-.30									
419	0.00	-1.00									
Meth: 181.30 PPM											
<u>Cadmium</u>											
ICP											
452	0.27	1.52									
Avg	0.11										
102	0.09	-.29									
372	0.08	-.30									
419	0.00	-1.00									
Meth: 181.30 PPM											
<u>Cadmium</u>											
ICP											
452	0.27	1.52									
Avg	0.11										
102	0.09	-.29									
372	0.08	-.30									
419	0.00	-1.00									
Meth: 181.30 PPM											
<u>Cadmium</u>											
ICP											
452	0.27	1.52									
Avg	0.11										
102	0.09	-.29									
372	0.08	-.30									
419	0.00	-1.00									
Meth: 181.30 PPM											
<u>Cadmium</u>											
ICP											
452	0.27	1.52									
Avg	0.11										
102	0.09	-.29									
372	0.08	-.30									
419	0.00	-1.00									
Meth: 181.30 PPM											
<u>Cadmium</u>											
ICP											
452	0.27	1.52									
Avg	0.11										
102	0.09	-.29									
372	0.08	-.30									
419	0.00	-1.00									
Meth: 181.30 PPM											
<u>Cadmium</u>											
ICP											
452	0.27	1.52									
Avg	0.11										
102	0.09	-.29									
372	0.08	-.30									
419	0.00	-1.00									
Meth: 181.30 PPM											
<u>Cadmium</u>											
ICP											
452	0.27	1.52									
Avg	0.11										
102	0.09	-.29									
372	0.08	-.30									
419	0.00	-1.00									
Meth: 181.30 PPM											
<u>Cadmium</u>											
ICP											
452	0.27	1.52									
Avg	0.11										
102	0.09	-.29									
372	0.08	-.30									
419	0.00	-1.00									
Meth: 181.30 PPM											
<u>Cadmium</u>											
ICP											
452	0.27	1.52									
Avg	0.11										
102	0.09	-.29									
372	0.08	-.30									
419	0.00	-1.00									
Meth: 181.30 PPM											
<u>Cadmium</u>											
ICP											
452	0.27	1.52									
Avg	0.11										
102	0.09	-.29									
372	0.08	-.30									
419	0.00	-1.00									
Meth: 181.30 PPM											
<u>Cadmium</u>											
ICP											
452	0.27	1.52									
Avg	0.11										
102	0.09	-.29									
372	0.08	-.30									
419	0.00	-1.00									
Meth: 181.30 PPM											
<u>Cadmium</u>											
ICP											
452	0.27	1.52									
Avg	0.11										
102	0.09	-.29									
372	0.08	-.30									
419	0.00	-1.00									
Meth: 181.30 PPM											
<u>Cadmium</u>											
ICP											
452	0.27	1.52									
Avg	0.11										
102	0.09	-.29									
372	0.08	-.30									
419	0.00	-1.00									
Meth: 181.30 PPM											
<u>Cadmium</u>											
ICP											
452	0.27	1.52									
Avg	0.11										
102	0.09	-.29									
372	0.08	-.30									
419	0.00	-1.00									
Meth: 181.30 PPM											
<u>Cadmium</u>											
ICP											
452	0.27	1.52									
Avg	0.11										
102	0.09	-.29									
372	0.08	-.30									
419	0.00	-1.00									
Meth: 181.30 PPM											
<u>Cadmium</u>											
ICP											
452	0.27	1.52									
Avg	0.11										
102	0.09	-.29									
372	0.08	-.30									
419	0.00	-1.00									
Meth: 181.30 PPM											
<u>Cadmium</u>											
ICP											
452	0.27	1.52									
Avg	0.11										
102	0.09	-.29									
372	0.08	-.30									
419	0.00	-1.00									
Meth: 181.30 PPM											
<u>Cadmium</u>											
ICP											
452	0.27	1.52									
Avg	0.11										
102	0.09	-.29									
372	0.08	-.30									
419	0.00	-1.00									
Meth: 181.30 PPM											
<u>Cadmium</u>											
ICP											
452	0.27	1.52									
Avg	0.11										
102	0.09	-.29									
372	0.08	-.30									
419	0.00	-1.00									
Meth: 181.30 PPM											
<u>Cadmium</u>											
ICP											
452	0.27	1.52									
Avg	0.11										
102	0.09	-.29									
372	0.08	-.30									
419	0.00	-1.00									
Meth: 181.30 PPM											
<u>Cadmium</u>											
ICP											
452	0.27	1.52									
Avg	0.11										
102	0.09	-.29									
372	0.08	-.30									
419	0.00	-1.00									
Meth: 181.30 PPM											
<u>Cadmium</u>											
ICP											
452	0.27	1.52									
Avg	0.11										
102	0.09	-.29									
372	0.08	-.30									
419	0.00	-1.00									
Meth: 181.30 PPM											
<u>Cadmium</u>											
ICP											
452	0.27	1.52									
Avg	0.11										

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 221.99 PCT			Meth: 251.30 PPM			Meth: 289.30 PPM			Meth: 311.99 PCT		
Acid Soluble Copper			Lead			Molybdenum			Sodium		
Other			ICP			ICP			Other		
231	0.0001	.71	452	3.92	1.60	419	0.05	-0.51	422	0.22	1.62
			Avg	1.17		433	0.03	-0.55	Avg	0.09	
Meth: 221.XX PCT			324	0.60	-0.33	372	0.03	-0.56	102	0.05	-0.53
Acid Soluble Copper			419	0.14	-0.60				009	0.05	-0.54
372	0.0855	s 927.01	372	0.01	-0.68	Meth: 291.00 PPM			232	0.05	-0.55
354	0.0055	R 58.88				Nickel					
422	0.0025	R 26.63	Meth: 251.XX PPM			Atomic Absorption					
419	0.0002	1.55	Lead			136	3.85	.71			
452	0.0002	1.50	136	8.45	R 4.27				Meth: 321.00 PCT		
428	0.0002	1.11	452	3.92	1.60	Meth: 291.30 PPM			Acid Soluble Zinc		
043	0.0001	.46	Avg	1.17		Nickel			Atomic Absorption		
Avg	0.0001		324	0.60	-0.33	ICP			428	0.002	1.27
433	0.0001	-0.29	419	0.14	-0.60	452	1.47	s 5.39	Avg	0.001	
231	0.0001	-0.51	372	0.01	-0.68	419	0.58	.98	057	0.000	-0.48
231	0.0001	-0.51				230	0.52	.70	043	0.000	-0.81
230	0.0000	-0.73	Meth: 261.30 PCT			Avg	0.39				
114	0.0000	-1.06	Acid Soluble Manganese			102	0.36	-0.23	Meth: 321.30 PCT		
255	0.0000	-1.06	ICP			372	0.09	-1.42	Acid Soluble Zinc		
			419	0.001	1.16				ICP		
			422	0.001	1.16				422	0.005	s 16.65
Meth: 241.30 PCT			Avg	0.001		Meth: 291.XX PPM			354	0.003	s 10.17
Acid Soluble Iron			009	0.000	R -0.56	Nickel			419	0.001	2.40
ICP			096	0.000	-0.64	136	3.85	1.88	096	0.001	R 1.79
422	0.04	s 51.08	102	0.000	-0.76	Avg	1.08		Avg	0.000	
433	0.00	1.59	433	0.000	-0.91	419	0.58	-0.34	230	0.000	-0.09
Avg	0.00					230	0.52	-0.38	452	0.000	-0.09
009	0.00	-0.26	Meth: 281.30 PPM			102	0.36	-0.49	324	0.000	-0.09
444	0.00	-0.67	Mercury			372	0.09	-0.67	433	0.000	-0.20
102	0.00	-0.67	ICP						009	0.000	-0.34
			372	0.00	-0.71	Meth: 301.30 PPM			102	0.000	-0.44
						Selenium			114	0.000	-1.16
Meth: 251.00 PPM			Lead			ICP					
Acid Soluble Zinc			Meth: 289.30 PPM			372	0.00	.71	Meth: 321.99 PCT		
Atomic Absorption			Molybdenum						Acid Soluble Zinc		
136	8.45	.71	ICP						Other		
			232	2.60	s 6.30				231	0.003	.71
			452	0.86	1.62						
			Avg	0.24							

* 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	5	- 15.60	34.90	0.30	151.00	2	0.00	1.22	0.05
001.99	7	0.00	1.04	0.01	151.30	4	0.00	1.06	0.20
001.XX	12	- 0.49	1.95	0.02	151.XX	6	0.00	1.04	0.12
002.99	7	0.00	1.04	0.04	165.99	3	0.000	1.076	0.247
002.XX	8	0.61	1.97	0.15	165.XX	3	0.000	1.076	0.247
005.00	2	0.00	1.22	0.10	181.30	4	0.00	1.07	0.13
005.99	3	0.00	1.12	0.03	181.XX	5	0.00	1.05	0.15
005.XX	5	0.00	1.06	0.03	191.30	11	0.00	1.01	0.14
009.99	2	0.00	1.22	0.01	191.XX	11	0.00	1.01	0.14
009.XX	3	0.00	1.12	0.03	202.30	4	92.40	184.80	9.01
010.11	5	0.00	1.05	0.13	202.XX	5	0.42	1.32	0.06
010.60	57	- 0.17	1.28	0.30	221.00	2	0.0000	1.2247	0.0000
010.99	4	4.29	8.63	0.13	221.30	10	93.383	268.33	5.2614
010.XX	67	- 0.37	6.57	0.28	221.XX	12	84.340	265.92	5.2051
020.10	8	0.09	0.99	0.03	241.30	5	10.18	22.78	1.94
020.20	9	0.00	1.03	0.01	241.XX	5	10.18	22.78	1.94
020.40	3	0.00	1.12	0.06	251.30	4	0.00	1.08	0.01
020.50	13	- 0.20	1.72	0.13	251.XX	5	0.85	2.12	0.20
020.99	2	0.00	1.22	0.00	261.30	6	- 0.093	0.975	0.035
020.XX	32	0.06	0.98	0.09	261.XX	6	- 0.093	0.975	0.035
041.10	4	0.00	0.48	0.84	289.30	5	1.23	2.91	0.58
041.50	3	0.00	1.11	0.09	289.XX	5	1.23	2.91	0.58
041.60	3	0.00	0.25	0.89	291.30	5	1.04	2.51	0.64
041.99	2	0.00	1.22	0.02	291.XX	6	0.04	0.95	0.08
041.XX	10	0.28	1.14	0.02	311.99	4	0.00	1.08	0.01
050.00	15	- 0.97	3.47	0.33	311.XX	4	0.00	1.08	0.01
050.30	9	- 2.57	7.47	0.29	321.00	3	0.000	1.116	0.049
050.50	6	4.04	6.90	0.21	321.30	11	2.542	5.546	1.075
050.51	9	- 0.02	0.96	0.26	321.XX	15	0.603	1.920	0.352
050.60	4	0.00	1.01	0.32					
050.61	8	0.00	0.90	0.47					
050.99	15	0.43	1.56	0.22					
050.XX	62	- 0.25	3.24	0.32					
101.30	5	17.51	39.17	0.54					
101.XX	5	17.51	39.17	0.54					
121.30	5	1.51	3.50	0.33					
121.XX	5	1.51	3.50	0.33					
144.99	4	3.84	7.73	0.40					
144.XX	4	3.84	7.73	0.40					