

- Pass 1 Results for 81 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	1	10.97	0.10	0.14	1	10.97	0.10	0.14
Ammoniacal Nitrogen, Other		001.99	6	11.43	0.34	0.05	6	11.43	0.34	0.05
Method Group 001.XX PCT			7	11.37	0.35	0.06	7	11.37	0.35	0.06
Nitrate Nitrogen, Other		002.99	1	0.03	0.01	0.02	1	0.03	0.01	0.02
Nitrogen From Urea, Urease (as N)	959.03	005.00	1	0.35	0.01	0.01	1	0.35	0.01	0.01
Ammon & Nitrate N, Devarda	892.01	009.10	2	11.36	0.10	0.10	2	11.36	0.10	0.10
Total Nitrogen, Modified Comprehensive	978.02	010.11	5	11.46	0.25	0.03	5	11.46	0.25	0.03
Total Nitrogen, Salicylic	955.04D	010.12	2	11.80	0.10	0.07	2	11.80	0.10	0.07
Total Nitrogen, Combustion		010.60	52	11.60	0.17	0.09	49	11.61	0.15	0.07
Total Nitrogen, Other		010.99	4	11.54	0.35	0.02	4	11.54	0.35	0.02
Method Group 010.XX PCT			66	11.59	0.23	0.10	61	11.59	0.19	0.07
Total Phosphate, Grav Quimociac	962.02	020.10	6	41.05	0.24	0.13	6	41.05	0.24	0.13
Total Phosphate, Spectrometric	958.01	020.20	14	40.96	1.25	0.23	13	40.82	1.19	0.16
Total Phosphate, Automated	978.01	020.40	5	40.92	0.39	0.15	5	40.92	0.39	0.15
Total Phosphate, ICP		020.50	7	40.37	1.25	0.64	6	40.34	1.26	0.36
Total Phosphate, Other		020.99	3	39.80	0.66	0.11	3	39.80	0.66	0.11
Method Group 020.XX PCT			36	40.82	1.13	0.29	31	40.89	0.64	0.14
Insoluble Phosphate, Grav Quimociac	963.03C	030.10	1	0.33	0.04	0.05	1	0.33	0.04	0.05
Insoluble Phosphate, Spectrometric	963.03C	030.20	2	0.58	0.04	0.02	2	0.58	0.04	0.02
Insoluble Phosphate, Automated	978.01	030.40	1	0.46	0.01	0.01	1	0.46	0.01	0.01
Insoluble Phosphate, ICP		030.50	2	0.26	0.10	0.02	2	0.26	0.10	0.02
Insoluble Phosphate, Other		030.99	1	0.35	0.02	0.03	1	0.35	0.02	0.03
Method Group 030.XX PCT			7	0.40	0.14	0.02	7	0.40	0.14	0.02
InDir Available Phosphate, Grav Quim	960.02	040.10	1	40.86	0.15	0.21	1	40.86	0.15	0.21
InDir Available Phosphate, Spectrometri	960.02	040.20	2	40.40	0.09	0.06	2	40.40	0.09	0.06
InDir Available Phosphate, Automated	960.02	040.40	1	40.91	0.01	0.01	1	40.91	0.01	0.01
InDir Available Phosphate, ICP		040.50	1	45.24	0.25	0.36	1	45.24	0.25	0.36
InDir Available Phosphate, Other		040.99	3	42.50	2.64	0.10	3	42.50	2.64	0.10
Method Group 040.XX PCT			8	41.91	2.20	0.12	8	41.91	2.20	0.12
Dir Available Phosphate, Grav Quimociac	960.03E	041.10	10	40.56	0.36	0.14	9	40.61	0.32	0.07
Dir Available Phosphate, Spectrometric	960.03D	041.20	1	40.07	0.04	0.05	1	40.07	0.04	0.05
Dir Available Phosphate, Automated	978.01	041.40	3	40.99	0.73	0.09	3	40.99	0.73	0.09
Dir Available Phosphate, ICP		041.50	9	40.44	0.77	0.38	9	40.44	0.77	0.38
Dir Available Phosphate, EDTA Extract	993.01	041.60	12	40.41	0.29	0.21	12	40.41	0.29	0.21
Dir Available Phosphate, Other		041.99	2	40.47	0.09	0.06	2	40.47	0.09	0.06
Method Group 041.XX PCT			38	40.47	0.55	0.21	37	40.47	0.55	0.20
Water Soluble Phosphate, Spectrometric	970.01	048.20	3	36.18	1.74	0.05	3	36.18	1.74	0.05
Soluble Potash, STPB Oxalate	958.02	050.00	1	0.04	0.01	0.01	1	0.04	0.01	0.01
Soluble Potash, AA (Citrate)		050.31	1	0.01	0.00	0.00	1	0.01	0.00	0.00

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Soluble Potash, ICP (Oxalate) .....		050.50	4	0.13	0.06	0.01	4	0.13	0.06	0.01
Soluble Potash, ICP (Citrate) .....		050.51	7	0.22	0.16	0.03	7	0.22	0.16	0.03
Soluble Potash, Other .....		050.99	7	0.18	0.11	0.01	6	0.19	0.11	0.00
Method Group 050.XX PCT			20	0.17	0.13	0.02	17	0.14	0.10	0.01
Free Water, Vacuum Oven .....	965.08B	060.00	6	1.39	0.22	0.11	5	1.38	0.21	0.03
Acid Soluble Calcium, ICP .....		101.30	13	0.21	0.02	0.01	12	0.21	0.01	0.01
Acid Soluble Magnesium, ICP .....		121.30	15	0.57	0.09	0.02	15	0.57	0.09	0.02
Sulfur, Gravimetric .....	980.02a	144.01	13	7.99	2.18	0.09	11	8.13	2.13	0.04
Sulfur, Gravimetric .....	980.02b	144.02	1	10.04	0.02	0.03	1	10.04	0.02	0.03
Sulfur, Spectrometric .....		144.70	1	5.10	0.01	0.01	1	5.10	0.01	0.01
Sulfur, Other .....		144.99	25	7.83	2.58	0.09	24	7.76	2.61	0.08
Method Group 144.XX PCT			40	7.87	2.44	0.09	36	7.82	2.49	0.06
Arsenic, ICP .....		151.30	6	12.71	0.92	0.62	6	12.71	0.92	0.62
Arsenic, Other .....		151.99	2	13.09	0.36	0.31	2	13.09	0.36	0.31
Method Group 151.XX PPM			8	12.80	0.82	0.54	7	12.63	0.61	0.33
Acid Soluble Boron, Other .....		165.99	8	0.023	0.019	0.004	7	0.021	0.019	0.001
Cadmium, ICP .....		181.30	8	2.60	0.42	0.08	7	2.49	0.32	0.04
Cadmium, Other .....		181.99	2	2.67	0.03	0.04	2	2.67	0.03	0.04
Method Group 181.XX PPM			10	2.61	0.38	0.07	9	2.53	0.29	0.04
Water Soluble Chlorine, Titrimetric ...	928.02	190.00	1	0.10	0.00	0.00	1	0.10	0.00	0.00
Chromium, ICP .....		191.30	10	76.94	6.21	3.33	10	76.94	6.21	3.33
Chromium, Other .....		191.99	2	76.86	12.84	0.91	2	76.86	12.84	0.91
Method Group 191.XX PPM			12	76.93	7.30	2.93	12	76.93	7.30	2.93
Acid Soluble Cobalt, AA .....		202.00	1	2.00	0.00	0.00	1	2.00	0.00	0.00
Acid Soluble Cobalt, ICP .....	965.11	202.30	8	2.39	0.33	0.16	7	2.35	0.31	0.09
Acid Soluble Cobalt, Other .....		202.99	2	2.03	0.25	0.07	2	2.03	0.25	0.07
Method Group 202.XX PPM			11	2.29	0.34	0.13	10	2.25	0.32	0.08
Acid Soluble Copper, Atomic Absorption	975.01	221.00	4	0.0031	0.0003	0.0003	4	0.0031	0.0003	0.0003
Acid Soluble Copper, ICP .....		221.30	15	0.0026	0.0007	0.0002	13	0.0027	0.0003	0.0002
Acid Soluble Copper, Other .....		221.99	2	0.0024	0.0002	0.0002	2	0.0024	0.0002	0.0002
Method Group 221.XX PCT			21	0.0027	0.0006	0.0002	19	0.0028	0.0004	0.0002
Acid Soluble Iron, Atomic Absorption ..	980.01	241.00	1	0.82	0.01	0.02	1	0.82	0.01	0.02
Acid Soluble Iron, ICP .....		241.30	14	0.83	0.09	0.02	13	0.85	0.07	0.01
Method Group 241.XX PCT			15	0.83	0.09	0.02	14	0.85	0.07	0.01
Lead, ICP .....		251.30	3	0.94	0.23	0.23	3	0.94	0.23	0.23
Lead, Other .....		251.99	2	1.27	0.11	0.02	2	1.27	0.11	0.02
Method Group 251.XX PPM			5	1.07	0.25	0.14	4	1.14	0.16	0.01
Acid Soluble Manganese, ICP .....	972.02a	261.30	11	0.034	0.003	0.001	10	0.034	0.003	0.000
Acid Soluble Manganese, Other .....		261.99	1	0.037	0.000	0.000	1	0.037	0.000	0.000

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Method Group 261.XX PCT			12	0.034	0.003	0.001	11	0.034	0.003	0.000
Mercury, Other .....		281.99	1	0.21	0.05	0.07	1	0.21	0.05	0.07
Molybdenum, ICP .....		289.30	11	18.90	1.39	0.79	11	18.90	1.39	0.79
Molybdenum, Other .....		289.99	2	20.47	0.41	0.63	2	20.47	0.41	0.63
Method Group 289.XX PPM			13	19.14	1.40	0.77	13	19.14	1.40	0.77
Nickel, ICP .....		291.30	9	9.02	0.98	0.75	9	9.02	0.98	0.75
Nickel, Other .....		291.99	2	10.42	0.21	0.26	2	10.42	0.21	0.26
Method Group 291.XX PPM			11	9.27	1.04	0.66	11	9.27	1.04	0.66
Selenium, ICP .....		301.30	2	2.78	3.22	0.35	2	2.78	3.22	0.35
Selenium, Other .....		301.99	1	0.15	0.00	0.00	1	0.15	0.00	0.00
Method Group 301.XX PPM			3	1.90	2.84	0.23	3	1.90	2.84	0.23
Sodium, Other .....		311.99	6	0.17	0.01	0.01	5	0.17	0.01	0.00
Acid Soluble Zinc, Atomic Absorption ..	975.02	321.00	9	0.901	0.038	0.009	9	0.901	0.038	0.009
Acid Soluble Zinc, ICP .....		321.30	36	0.922	0.082	0.025	35	0.926	0.079	0.022
Acid Soluble Zinc, Other .....		321.99	3	0.920	0.103	0.013	3	0.920	0.103	0.013
Method Group 321.XX PCT			49	0.922	0.082	0.021	45	0.924	0.079	0.015
Water Soluble Zinc, Atomic Absorption .		325.00	1	0.251	0.004	0.006	1	0.251	0.004	0.006
Water Soluble Zinc, ICP .....		325.30	3	0.600	0.209	0.013	3	0.600	0.209	0.013
Water Soluble Zinc, Other .....		325.99	1	0.930	0.014	0.020	1	0.930	0.014	0.020
Method Group 325.XX PCT			5	0.596	0.275	0.013	5	0.596	0.275	0.013

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	
<u>Meth: 001.10 PCT</u>			<u>Meth: 009.10 PCT</u>			<u>Meth: 010.60 PCT</u>			<u>Meth: 010.60 PCT</u>			<u>Meth: 010.XX PCT</u>			
Ammoniacal Nitrogen			Ammon & Nitrate N			Total Nitrogen			Total Nitrogen			Total Nitrogen			
<u>MgO Distillation</u>			<u>Devarda</u>			<u>Combustion</u>			<u>Combustion</u>			<u>Combustion</u>			
232	10.97	.71	090	11.41	.53	106	11.75	1.03	291	11.40	-1.44	300	11.78	.95	
			Avg	11.36		296	11.76	.96	368	11.41	-1.58	106	11.75	.89	
			169	11.30	-1.10	049	11.70	.74	406	11.37	-1.76	296	11.76	.84	
<u>Meth: 001.99 PCT</u>			<u>Meth: 010.11 PCT</u>			<u>Meth: 010.60 PCT</u>			<u>Meth: 010.99 PCT</u>			<u>Meth: 010.99 PCT</u>			
Ammoniacal Nitrogen			Total Nitrogen			Total Nitrogen			Total Nitrogen			Total Nitrogen			
<u>Other</u>			<u>Modified Comprehensi</u>			<u>Other</u>			<u>Other</u>			<u>Other</u>			
354	11.81	1.14	474	11.72	1.05	037	11.69	.51	073	11.29 s	-3.56	023	11.70	.61	
479	11.68	.73	416	11.64	.74	230	11.65	.42	426	11.00 s	-4.31	292	11.71	.61	
371	11.67	.70	Avg	11.46		450	11.65	.42	255	10.80 s	-5.69	397	11.70	.55	
Avg	11.43		470	11.44	-.09	034	11.67	.41	422	10.11 s	-10.00	360	11.64	.54	
137	11.29	-.42	260	11.45	-.14	233	11.67	.39				037	11.69	.49	
473	11.28	-.47	211	11.04	-1.68	027	11.67	.39				034	11.67	.41	
420	10.87	-1.67	114	10.69 S	-3.13	131	11.66	.35				233	11.67	.40	
<u>Meth: 001.XX PCT</u>			<u>Meth: 010.12 PCT</u>			<u>Meth: 010.99 PCT</u>			<u>Meth: 010.99 PCT</u>			<u>Meth: 010.99 PCT</u>			
Ammoniacal Nitrogen			Total Nitrogen			Total Nitrogen			Total Nitrogen			Total Nitrogen			
354	11.81	1.28	309	10.33 S	-4.55	371	11.65	.26				027	11.67	.40	
479	11.68	.88				231	11.63	.23	460	12.68 S	3.21	450	11.65	.39	
371	11.67	.86				409	11.63	.10	300	11.78	.66	230	11.65	.39	
Avg	11.37					Avg	11.61		479	11.73	.51	131	11.66	.36	
137	11.29	-.21				<u>Salicylic</u>	117	11.60	-.08	397	11.70	.44	371	11.65	.30
473	11.28	-.26	254	11.87	1.01	389	11.60	-.08	Avg	11.54		416	11.64	.29	
232	10.97	-1.14	Avg	11.80		035	11.61	-.11	420	10.98	-1.61	231	11.63	.25	
420	10.87	-1.40	185	11.74	-.70	402	11.61	-.13	030	9.81 S	-4.94	409	11.63	.17	
			455	10.65 S	-11.92	405	11.59	-.19				402	11.61	.14	
						232	11.56	-.37				035	11.61	.10	
						162	11.58	-.52				389	11.60	.04	
						007	11.55	-.53				117	11.60	.04	
						040	11.55	-.53				Avg	11.59		
						042	11.54	-.56				405	11.59	-.10	
						307	11.56	-.72				232	11.56	-.20	
						324	11.50	-.74				040	11.55	-.34	
						086	11.50	-.75				007	11.55	-.34	
						028	11.51	-.90				042	11.54	-.35	
						057	11.47	-.94				162	11.58	-.38	
						041	11.47	-.99				324	11.50	-.48	
						483	11.45	-1.08				086	11.50	-.48	
						325	11.45	-1.12				307	11.56	-.51	
						234	11.43	-1.22				028	11.51	-.63	

\* 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			Meth: 020.20 PCT Total Phosphate Spectrometric			Meth: 020.50 PCT Total Phosphate ICP			Meth: 020.XX PCT Total Phosphate			Meth: 030.40 PCT Insoluble Phosphate Automated		
057	11.47	-.63	324	42.70 R	1.66	422	40.75	.32	405	41.02	.19	409	0.46	.71
041	11.47	-.67	420	42.75	1.62	Avg	40.34		035	40.93	.19	456	40.90	.16
260	11.45	-.74	232	41.34	.46	291	40.31	-.04	402	40.97	.11	474	40.94	.08
483	11.45	-.74	292	41.32	.42	426	40.32	-.20	Avg	40.89		300	40.89	-.02
325	11.45	-.78	479	41.15	.28	368	37.97	-1.96	422	40.75	-.25	479	0.34	.88
470	11.44	-.81	450	41.11	.26	451	33.83 S	-5.24	371	40.73	-.34	Avg	0.26	
234	11.43	-.85	473	41.08	.22	Meth: 020.99 PCT Total Phosphate			041	40.67	-.37	255	0.18	-.85
291	11.40	-1.02	231	41.05	.20	Other			322	40.52	-.60	Meth: 030.99 PCT Insoluble Phosphate		
368	11.41	-1.14	406	41.00	.19	322	40.52	1.09	291	40.31	-.92	Other		
095	11.35	-1.27	405	41.02	.16	137	39.84	.05	426	40.32	-.97	247	0.35	.71
406	11.37	-1.28	474	40.94	.10	Avg	39.80		095	40.27	-.99	Meth: 030.XX PCT Insoluble Phosphate		
351	11.25	-1.76	Avg	40.82		455	39.05	-1.14	169	39.85	-1.64	474	0.61	1.46
080	11.30 R	-1.83	371	40.73	-.14	230	35.60 S	-6.35	137	39.84	-1.64	405	0.55	1.04
102	11.11	-2.54	169	39.85	-.82	Meth: 020.XX PCT Total Phosphate			307	40.54 R	-1.89	409	0.46	.40
073	11.29 R	-2.71	234	37.37	-2.91	483	47.55 s	10.36	455	39.05	-2.87	479	0.34	-.44
211	11.04	-2.85	309	36.41 S	-3.72	255	45.42 s	7.04	368	37.97 R	-4.68	090	0.33	-.55
420	10.98	-3.18	428	19.71 s	-17.83	027	43.30 R	3.84	234	37.37 A	-5.49	255	0.18	-1.58
426	11.00 R	-3.26	Meth: 020.40 PCT Total Phosphate Automated			324	42.70 R	2.96	309	36.41 s	-6.98	Meth: 040.10 PCT InDir Available Phos Grav Quim		
255	10.80 s	-4.32	027	43.30 s	6.19	420	42.75	2.89	230	35.60 s	-8.25	090	40.86	.71
114	10.69 s	-4.71	409	41.36	1.13	389	41.75	1.34	451	33.83 s	-11.11	Meth: 040.20 PCT InDir Available Phos Spectrometric		
455	10.65 s	-4.86	247	41.13	.54	232	41.34	.75	428	19.71 s	-33.07	405	40.47	.87
309	10.33 s	-6.53	035	40.93	.29	409	41.36	.73	Meth: 030.10 PCT Insoluble Phosphate Grav Quimociac			Avg	40.40	
422	10.11 s	-7.66	Avg	40.92		292	41.32	.66	090	0.33	.71	474	40.33	-.87
030	9.81 s	-9.23	456	40.90	-.26	470	41.30	.63	Meth: 030.20 PCT Insoluble Phosphate Spectrometric			405	0.55	-.91
Meth: 020.10 PCT Total Phosphate Grav Quimociac			095	40.27	-1.67	090	41.19	.50	474	0.61	.82	Meth: 040.20 PCT InDir Available Phos Spectrometri		
470	41.30	1.00	Meth: 020.50 PCT Total Phosphate ICP			114	41.14	.47	Avg	0.58		405	40.47	.87
114	41.14	.79	483	47.55 S	5.72	479	41.15	.40	405	0.55	-.91	Avg	40.40	
090	41.19	.78	255	45.42 S	4.03	416	41.14	.38	474	0.61	.82	474	40.33	-.87
416	41.14	.36	389	41.75	1.12	450	41.11	.37	Avg	0.58				
Avg	41.05		307	40.54 R	.94	247	41.13	.36	405	0.55	-.91			
300	40.89	-.68	402	40.97	.50	473	41.08	.29						
041	40.67	-1.63				406	41.00	.28						
						231	41.05	.26						

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 040.40 PCT			Meth: 041.10 PCT			Meth: 041.60 PCT			Meth: 041.XX PCT			Meth: 050.00 PCT		
<u>InDir Available Phos</u>			<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>			<u>Soluble Potash</u>		
<u>Automated</u>			<u>Grav Quimociac</u>			<u>EDTA Extract</u>						<u>STPB Oxalate</u>		
409	40.91	-.71	040	40.55	-.50	057	40.87	1.58	028	40.58	.37	131	40.68	.36
			177	40.21	-1.27	397	40.75	1.15	040	40.55	.31	040	40.55	.31
Meth: 040.50 PCT			185 40.15 R -1.79			106 40.59 1.03			136 40.50 .21			Meth: 050.31 PCT		
<u>InDir Available Phos</u>			055 40.03 -1.80			028 40.58 .82			177 40.57 .18			<u>Soluble Potash</u>		
<u>ICP</u>			102 39.20 s -4.41			177 40.57 .55			351 40.53 .15			<u>AA (Citrate)</u>		
255	45.24	.71				136 40.50 .49			254 40.48 .01			030 0.01 .00		
			Meth: 041.20 PCT			Avg 40.41			Avg 40.47					
Meth: 040.99 PCT			<u>Dir Available Phosph</u>			231 40.35 -.56			230 40.40 -.14			Meth: 050.50 PCT		
<u>InDir Available Phos</u>			<u>Spectrometric</u>			034 40.22 -.75			095 40.39 -.21			<u>Soluble Potash</u>		
<u>Other</u>			030 40.07 .71			043 40.16 -.93			231 40.35 -.35			<u>ICP (Oxalate)</u>		
460	45.90 X	1.29				029 40.20 -1.04			034 40.22 -.49			292 0.17 .66		
Avg	42.50		Meth: 041.40 PCT			117 40.10 -1.14			177 40.21 -.50			354 0.17 .56		
479	40.81	-.64	<u>Dir Available Phosph</u>			296 40.09 -1.14			055 40.21 -.51			324 0.16 .41		
247	40.78	-.65	<u>Automated</u>						043 40.16 -.59			Avg 0.13		
			027	41.92	1.27	Meth: 041.99 PCT			029 40.20 -.63			422 0.04 -1.61		
			Avg	40.99		<u>Dir Available Phosph</u>			117 40.10 -.70					
Meth: 040.XX PCT			131 40.68 -.43			<u>Other</u>			296 40.09 -.71			Meth: 050.51 PCT		
<u>InDir Available Phos</u>			095 40.39 -.84			351 40.53 .98			030 40.07 -.75			<u>Soluble Potash</u>		
460	45.90 X	1.81				Avg 40.47			055 40.03 -.81			<u>ICP (Citrate)</u>		
255	45.24	1.52	Meth: 041.50 PCT			230 40.40 -.73			185 40.15 R -.87			483 0.54 2.04		
Avg	41.91		<u>Dir Available Phosph</u>						325 40.00 -1.02			475 0.24 .28		
409	40.91	-.46	<u>ICP</u>			Meth: 041.XX PCT			023 39.68 -1.49			296 0.23 .20		
090	40.86	-.48	080 50.40 s 13.03			<u>Dir Available Phosph</u>			360 39.65 -1.59			Avg 0.22		
479	40.81	-.50	007 41.44 1.33			080 50.40 s 18.07			043 39.60 -1.59			377 0.20 -.13		
247	40.78	-.52	354 41.25 1.08			027 41.92 2.63			102 39.20 -2.34			389 0.18 -.25		
405	40.47	-.66	475 41.11 .97			007 41.44 1.78			368 38.18 s -4.25			009 0.15 -.48		
474	40.33	-.72	377 41.00 .78			354 41.25 1.44						291 0.00 -1.38		
			Avg 40.44			475 41.11 1.29			Meth: 048.20 PCT					
Meth: 041.10 PCT			055 40.21 -.32			377 41.00 1.02			<u>Water Soluble Phosph</u>			Meth: 050.99 PCT		
<u>Dir Available Phosph</u>			325 40.00 -.69			049 41.00 .95			<u>Spectrometric</u>			<u>Soluble Potash</u>		
<u>Grav Quimociac</u>			023 39.68 -1.02			260 40.93 .83			420 38.43 1.29			<u>Other</u>		
049	41.00	1.21	043 39.60 -1.09			057 40.87 .72			Avg 36.18			460 1.15 s 8.44		
260	40.93	.99	360 39.65 -1.09			211 40.84 .66			479 35.17 -.58			474 0.34 1.29		
211	40.84	.71	368 38.18 S -3.01			009 40.76 .53			474 34.95 -.71			325 0.30 .98		
009	40.76	.49				397 40.75 .49						Avg 0.19		
131	40.70	.27				106 40.59 .49						232 0.17 -.15		
Avg	40.61					131 40.70 .40						368 0.17 -.16		
254	40.48	-.40												

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 050.99 PCT			Meth: 060.00 PCT			Meth: 121.30 PCT			Meth: 144.99 PCT			Meth: 144.XX PCT		
Soluble Potash			Free Water			Acid Soluble Magnesi			Sulfur			Sulfur		
<u>Other</u>			<u>Vacuum Oven</u>			<u>ICP</u>			<u>Other</u>					
402	0.15	-.31	007	1.22	-.74	057	0.54	-.38	360	12.26	1.72	473	9.86	.82
450	0.10 R	-.82	416	1.20	-.83	232	0.53	-.54	255	10.54	1.06	114	9.84	.81
137	0.00	-1.65				474	0.51	-.76	117	10.40	1.01	177	9.83	.81
Meth: 050.XX PCT			Meth: 101.30 PCT			009			291			095		
Soluble Potash			Acid Soluble Calcium			354			475			137		
<u>ICP</u>			<u>ICP</u>			291			473			389		
460	1.15 s	10.52	422	1.08 s	65.17	Meth: 144.01 PCT			177			422		
483	0.54 A	4.25	483	0.35 s	10.24	Sulfur			137			102		
474	0.34	2.06	389	0.23	1.47	<u>Gravimetric</u>			389			450		
325	0.30	1.70	479	0.23	1.16	102			422			037		
475	0.24 R	1.15	057	0.22	.97	102			102			055		
296	0.23 R	1.06	131	0.22	.76	029			037			028		
377	0.20	.66	102	0.21	.26	114			009			009		
389	0.18	.45	035	0.21	.25	296			368			368		
368	0.17	.36	Avg	0.21		095			483			483		
292	0.17	.36	474	0.21	-.25	450			Avg			Avg		
232	0.17	.36	307	0.21	-.30	055			232			232		
354	0.17	.30	106	0.20	-.52	028			426			043		
324	0.16	.20	354	0.20	-1.21	Avg			409			397		
009	0.15	.18	009	0.19	-1.25	043			027			474		
402	0.15	.16	232	0.19	-1.70	397			479			426		
Avg	0.14		041	0.19 R	-2.14	040			247			040		
450	0.10	-.44				324			230			324		
009	0.04	-1.05	Meth: 121.30 PCT			230			307			230		
422	0.04	-1.06	Acid Soluble Magnesi			Meth: 144.02 PCT			300			409		
030	0.01	-1.31	<u>ICP</u>			Sulfur			354			027		
137	0.00	-1.42	041	0.77	2.34	<u>Gravimetric</u>			Meth: 144.XX PCT			479		
291	0.00	-1.42	422	0.73	1.80	292			Sulfur			247		
Meth: 060.00 PCT			483	0.66	1.11	Meth: 144.70 PCT			360			230		
Free Water			479	0.58	.11	Sulfur			255			307		
<u>Vacuum Oven</u>			Avg	0.57		<u>Spectrometric</u>			117			300		
405	1.76	1.78	389	0.56	-.19	474			291			354		
474	1.47 R	1.30	035	0.55	-.20	5.10			475			Meth: 151.30 PPM		
479	1.39	.12	102	0.55	-.21				292			Arsenic		
Avg	1.38		106	0.55	-.24				102			<u>ICP</u>		
456	1.32	-.27	131	0.55	-.24				029			368		
			307	0.55	-.25							23.35 s		

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
<u>Meth: 151.30 PPM</u>			<u>Meth: 165.99 PCT</u>			<u>Meth: 190.00 PCT</u>			<u>Meth: 191.XX PPM</u>			<u>Meth: 202.XX PPM</u>		
<u>Arsenic</u>			<u>Acid Soluble Boron</u>			<u>Water Soluble Chlori</u>			<u>Chromium</u>			<u>Acid Soluble Cobalt</u>		
<u>ICP</u>			<u>Other</u>			<u>Titrimetric</u>								
450	14.00	1.78	106	0.004	-.89	422	0.10	.00	027	67.62	-1.30	422	2.19	-.20
009	13.27	.67	232	0.003	-.95				409	65.75	-1.53	474	2.00	-.79
037	12.84	.16	291	0.000	-1.10	<u>Meth: 191.30 PPM</u>			<u>Meth: 202.00 PPM</u>			<u>Meth: 221.00 PCT</u>		
Avg	12.71					<u>Chromium</u>			<u>Acid Soluble Cobalt</u>			<u>Acid Soluble Copper</u>		
102	12.34	-.49	<u>Meth: 181.30 PPM</u>			<u>ICP</u>			<u>AA</u>			<u>Atomic Absorption</u>		
474	11.90	-.89	<u>Cadmium</u>			450	87.50	1.85	474	2.00	.00	296	0.0032	.80
230	11.90	-.91	<u>ICP</u>			037	81.80	.79	<u>Meth: 202.30 PPM</u>			043	0.0033	.80
			035	3.35 R	2.72	102	81.67	.76	<u>Acid Soluble Cobalt</u>			028	0.0032	.54
			474	3.00	1.58	009	80.22	.63	<u>ICP</u>			Avg	0.0031	
			102	2.77	.87	Avg	76.94		057	2.63 R	1.34	474	0.0028	-1.39
			009	2.52	.08	035	75.75	-.26	450	2.70	1.16			
			Avg	2.49		474	75.00	-.31	009	2.66	1.00			
			230	2.46	-.11	368	76.25	-.71	368	2.50	.47			
			232	2.41	-.27	230	72.50	-.72	102	2.39	.40			
			450	2.35	-.48	232	71.10	-.97	Avg	2.35				
			368	1.95	-1.71	027	67.62	-1.54	035	2.25	-.33			
						<u>Meth: 191.99 PPM</u>			422	2.19	-.53			
						<u>Chromium</u>			232	1.78	-1.84			
						<u>Other</u>			<u>Meth: 202.99 PPM</u>					
						231	87.98	.87	<u>Acid Soluble Cobalt</u>			422	0.0450 s	134.91
						Avg	76.86		<u>Other</u>			402	0.0250 s	70.93
						409	65.75	-.87	231	2.24	.87	324	0.0106 S	24.92
									Avg	2.03		027	0.0069 S	13.24
									231	2.24	.87	102	0.0035 R	3.01
									409	1.81	-.86	009	0.0030	1.02
									<u>Meth: 202.XX PPM</u>			389	0.0030	.97
									<u>Acid Soluble Cobalt</u>			450	0.0030	.97
									<u>Other</u>			057	0.0029	.74
									231	2.24	.87	035	0.0029	.69
									409	1.81	-.86	433	0.0029	.61
									<u>Meth: 202.XX PPM</u>			368	0.0027	.55
									<u>Acid Soluble Cobalt</u>			095	0.0027	.02
									057	2.63 R	1.54	Avg	0.0027	
									450	2.70	1.44	232	0.0027	-.53
									009	2.66	1.29	106	0.0026	-.91
									368	2.50	.78	307	0.0024	-1.13
									102	2.39	.57	230	0.0023	-1.36
									Avg	2.25		483	0.0021	-1.91
									035	2.25	-.03	255	0.0005 A	-6.86
									231	2.24	-.12	041	0.0000 S	-8.53

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 221.30 PCT			Meth: 221.XX PCT			Meth: 241.XX PCT			Meth: 261.30 PCT			Meth: 261.XX PCT		
<u>Acid Soluble Copper</u>			<u>Acid Soluble Copper</u>			<u>Acid Soluble Iron</u>			<u>Acid Soluble Manganese</u>			<u>Acid Soluble Manganese</u>		
ICP			041	0.0000 s	-7.70	131	0.84	-1.14	ICP			354	0.030	-1.47
354	0.0000 S	-8.53	354	0.0000 s	-7.70	474	0.82	-0.41	106	0.330 s	102.11	483	0.013 s	-7.40
						041	0.82	-0.48	422	0.040	2.08	291	0.000 s	-11.79
Meth: 221.99 PCT			Meth: 241.00 PCT			106 0.81 -0.61			041 0.037 1.10			Meth: 281.99 PPM		
<u>Acid Soluble Copper</u>			<u>Acid Soluble Iron</u>			307 0.77 -1.09			389 0.036 .70			Mercury		
<u>Other</u>			<u>Atomic Absorption</u>			009 0.78 -1.10			102 0.035 .25			<u>Other</u>		
231	0.0026	.86	474	0.82	-0.71	232	0.73	-1.79	Avg	0.034		409	0.21	-0.71
Avg	0.0024		Meth: 241.30 PCT			354 0.64 R -3.16			131 0.033 -0.25			Meth: 289.30 PPM		
409	0.0022	-0.88	<u>Acid Soluble Iron</u>			291 0.00 s -12.45			057 0.033 -0.50			Molybdenum		
Meth: 221.XX PCT			<u>ICP</u>			Meth: 251.30 PPM			035 0.032 -0.54			Meth: 289.30 PPM		
<u>Acid Soluble Copper</u>			483 0.97 1.74			Lead			307 0.032 -0.68			Meth: 289.30 PPM		
422	0.0450 s	119.09	389	0.96	1.60	<u>ICP</u>			009 0.032 -0.68			Meth: 289.30 PPM		
402	0.0250 s	62.53	422	0.90	.68	035 3.91 S 12.82			232 0.031 R -1.31			433 21.84 2.13		
324	0.0106 s	21.87	102	0.88	.48	450 1.00 .25			354 0.030 -1.37			450 20.00 1.07		
027	0.0069 s	11.54	035	0.87	.25	474 1.00 .25			291 0.000 s -11.72			037 19.60 .52		
102	0.0035 R	2.52	479	0.86	.17	Avg 0.94			Meth: 261.99 PCT			368 19.10 .39		
043	0.0033	1.56	057	0.86	.11	102 0.83 -1.54			<u>Acid Soluble Manganese</u>			474 19.05 .16		
296	0.0032	1.38	Avg 0.85			Meth: 251.99 PPM			<u>Other</u>			Avg 18.90		
028	0.0032	1.22	131	0.84	-0.16	Meth: 251.99 PPM			474 0.037 .71			102 18.67 -0.24		
009	0.0030	.75	041	0.82	-0.49	Lead			Avg 0.037			232 18.85 -0.54		
389	0.0030	.70	106	0.81	-0.62	<u>Other</u>			483 0.013 S-172.11			009 18.17 -0.54		
450	0.0030	.70	307	0.77	-1.09	231 1.37 .87			Meth: 261.XX PCT			035 18.00 -0.65		
035	0.0029	.50	009	0.78	-1.09	Avg 1.27			<u>Acid Soluble Manganese</u>			057 17.83 -0.90		
057	0.0029	.50	232	0.73	-1.76	409 1.18 -0.86			106 0.330 s 101.74			230 16.75 -1.58		
433	0.0029	.39	354	0.64 R	-3.08	Meth: 251.XX PPM			422 0.040 1.97			422 9.60 S -6.71		
Avg	0.0028		291	0.00 s	-12.09	<u>Lead</u>			041 0.037 1.00			255 3.31 s -11.25		
095	0.0027	-0.14	Meth: 241.XX PCT			035 3.91 s 17.10			474 0.037 .98			Meth: 289.99 PPM		
474	0.0028	-0.42	<u>Acid Soluble Iron</u>			231 1.37 1.43			389 0.036 .60			Molybdenum		
231	0.0026	-0.51	483 0.97 1.83			409 1.18 .24			102 0.035 .19			<u>Other</u>		
232	0.0027	-0.51	389 0.96 1.68			Avg 1.14			Avg 0.034			231 20.64 .89		
368	0.0027	-0.51	422 0.90 .73			474 1.00 -0.83			131 0.033 -0.35			Avg 20.47		
106	0.0026	-0.90	102 0.88 .52			450 1.00 -0.83			057 0.033 -0.60			409 20.30 -0.84		
307	0.0024	-1.15	035 0.87 .29			102 0.83 R -2.81			035 0.032 -0.64			Meth: 289.XX PPM		
230	0.0023	-1.36	479 0.86 .21						009 0.032 -0.78			<u>Molybdenum</u>		
409	0.0022	-1.46	057 0.86 .14						307 0.032 -0.78			433 21.84 1.93		
483	0.0021	-1.84	Avg 0.85						232 0.031 R -1.39			231 20.64 1.09		
255	0.0005 A	-6.22												

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
<u>Meth: 289.XX PPM</u>			<u>Meth: 291.XX PPM</u>			<u>Meth: 311.99 PCT</u>			<u>Meth: 321.30 PCT</u>			<u>Meth: 321.XX PCT</u>		
<u>Molybdenum</u>			<u>Nickel</u>			<u>Sodium</u>			<u>Acid Soluble Zinc</u>			<u>Acid Soluble Zinc</u>		
450	20.00	.94	450	10.50	1.27	102	0.17	.83	300	0.945	.24	055	1.040 R	1.54
409	20.30	.86	409	10.45	1.15	035	0.17	.37	106	0.940	.21	422	1.030	1.36
037	19.60	.34	231	10.38	1.06	Avg	0.17		450	0.930	.13	137	1.020	1.21
Avg	19.14		037	10.19	.90	232	0.16	-.82	475	0.935	.12	057	1.010	1.08
474	19.05	-.12	Avg	9.27		474	0.16	-1.14	360	0.935	.12	231	1.005	1.04
368	19.10	-.36	102	9.20	-.08	<u>Meth: 321.00 PCT</u>			Avg	0.926		389	1.000	.95
102	18.67	-.38	035	8.99	-.33	<u>Acid Soluble Zinc</u>			479	0.925	-.19	255	1.000	.95
232	18.85	-.57	009	8.79	-.63	<u>Atomic Absorption</u>			420	0.912	-.20	102	0.993	.88
009	18.17	-.70	368	9.20	-.77	397	1.125 s	5.83	402	0.910	-.21	426	0.984	.79
035	18.00	-.81	474	8.50	-.88	460	0.955	1.42	095	0.907	-.25	035	0.983	.74
057	17.83	-1.04	230	7.97	-1.25	296	0.948	1.26	324	0.905	-.33	117	0.959	.44
230	16.75	-1.73	232	7.85	-1.47	169	0.920	.49	037	0.896	-.39	460	0.955	.39
422	9.60 s	-6.80	<u>Meth: 301.30 PPM</u>			177	0.909	.20	131	0.895	-.40	296	0.948	.34
255	3.31 s	-11.29	<u>Selenium</u>			371	0.905	.17	368	0.896	-.60	473	0.945	.32
<u>Meth: 291.30 PPM</u>			<u>ICP</u>			028	0.904	.10	009	0.897	-.60	042	0.945	.32
<u>Nickel</u>			368	5.55	.87	Avg	0.901		114	0.875	-.72	291	0.950	.32
<u>ICP</u>			Avg	2.78		043	0.876	-.65	041	0.840	-1.10	300	0.945	.27
450	10.50	1.59	450	0.00	-.86	029	0.848	-1.40	433	0.836	-1.15	106	0.940	.24
037	10.19	1.21	<u>Meth: 301.99 PPM</u>			351	0.844	-1.48	027	0.832	-1.27	479	0.925	.19
368	9.20	.84	<u>Selenium</u>			<u>Meth: 321.30 PCT</u>			307	0.821	-1.33	360	0.935	.15
102	9.20	.18	<u>Other</u>			<u>Acid Soluble Zinc</u>			292	0.805	-1.54	475	0.935	.15
Avg	9.02		296	0.15	.00	<u>ICP</u>			230	0.790	-1.73	450	0.930	.15
035	8.99	-.21	<u>Meth: 301.XX PPM</u>			483	1.135	2.64	232	0.767	-2.03	Avg	0.924	
009	8.79	-.51	<u>Selenium</u>			055	1.040	1.52	354	0.775 R	-2.04	169	0.920	-.06
474	8.50	-.73	368	5.55	1.29	422	1.030	1.33	<u>Meth: 321.99 PCT</u>			420	0.912	-.17
230	7.97	-1.08	Avg	1.90		057	1.010	1.05	<u>Acid Soluble Zinc</u>			402	0.910	-.18
232	7.85	-1.33	296	0.15	-.62	231	1.005	1.01	<u>Other</u>			177	0.909	-.20
<u>Meth: 291.99 PPM</u>			450	0.00	-.67	255	1.000	.93	137	1.020	.97	095	0.907	-.22
<u>Nickel</u>			<u>Meth: 311.99 PCT</u>			389	1.000	.93	042	0.945	.28	371	0.905	-.25
<u>Other</u>			<u>Sodium</u>			102	0.993	.85	Avg	0.920		028	0.904	-.25
409	10.45	1.21	<u>Other</u>			426	0.984	.76	474	0.795	-1.22	324	0.905	-.31
Avg	10.42		422	0.48 s	35.75	035	0.983	.72	<u>Meth: 321.XX PCT</u>			037	0.896	-.36
231	10.38	-.17	057	0.18 R	2.09	117	0.959	.41	<u>Acid Soluble Zinc</u>			131	0.895	-.37
			009	0.18	1.31	473	0.945	.30	483	1.135	2.65	368	0.896 R	-.57
						291	0.950	.29	397	1.125	2.53	009	0.897 R	-.58
												043	0.876	-.61
												114	0.875	-.69
												029	0.848	-.97

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

Laboratory Averages & Accuracy Indexes

<u>Lab</u>	<u>Average*</u>	<u>Index</u>	<u>Lab</u>	<u>Average*</u>	<u>Index</u>	<u>Lab</u>	<u>Average*</u>	<u>Index</u>	<u>Lab</u>	<u>Average*</u>	<u>Index</u>
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Meth: 321.XX PCT

<u>Acid Soluble Zinc</u>		
351	0.844	-1.01
041	0.840	-1.07
433	0.836	-1.11
027	0.832	-1.24
307	0.821	-1.29
292	0.805	-1.50
474	0.795	-1.63
230	0.790	-1.70
232	0.767	-1.99
354	0.775 R	-2.00

Meth: 325.00 PCT

<u>Water Soluble Zinc</u>		
<u>Atomic Absorption</u>		
027	0.251	.71

Meth: 325.30 PCT

<u>Water Soluble Zinc</u>		
<u>ICP</u>		
230	0.870	1.29
Avg	0.600	
479	0.470	-.62
473	0.460	-.67

Meth: 325.99 PCT

<u>Water Soluble Zinc</u>		
<u>Other</u>		
450	0.930	.71

Meth: 325.XX PCT

<u>Water Soluble Zinc</u>		
450	0.930	1.21
230	0.870	1.00
Avg	0.596	
479	0.470	-.46
473	0.460	-.50
027	0.251	-1.26

\* 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
001.99	6	0.00	1.04	0.10	144.01	13	- 0.07	1.04	0.03
001.XX	7	0.00	1.03	0.12	144.99	25	0.03	1.00	0.03
009.10	2	0.00	0.75	0.68	144.XX	38	0.03	0.99	0.03
009.XX	2	0.00	0.75	0.68	151.30	7	1.66	4.47	0.71
010.11	7	- 1.09	2.10	0.18	151.99	2	0.00	1.00	0.50
010.12	3	- 3.97	6.91	0.51	151.XX	9	2.21	5.89	0.96
010.60	57	- 0.40	1.98	0.63	165.99	8	0.129	1.029	0.198
010.99	6	- 0.29	2.74	0.14	165.XX	8	0.129	1.029	0.198
010.XX	73	- 0.46	2.19	0.45	181.30	8	0.33	1.34	0.22
020.10	6	0.00	0.96	0.38	181.99	2	0.00	0.56	0.77
020.20	16	- 1.24	4.62	0.38	181.XX	10	0.28	1.31	0.22
020.40	6	1.01	2.63	0.61	191.30	10	0.00	0.95	0.37
020.50	10	0.47	2.96	0.43	191.99	2	0.00	1.22	0.04
020.99	4	- 1.59	3.30	0.18	191.XX	12	0.00	0.98	0.28
020.XX	42	- 1.09	6.12	0.62	202.30	8	0.11	0.99	0.40
030.20	2	0.00	1.15	0.30	202.99	2	0.00	1.21	0.13
030.50	2	0.00	1.21	0.15	202.XX	11	0.11	1.02	0.34
030.XX	7	0.00	1.03	0.10	221.00	4	0.0000	0.8780	0.5449
040.20	2	0.00	1.13	0.34	221.30	21	10.538	32.871	3.7756
040.99	3	0.00	1.12	0.02	221.99	2	0.0000	1.0576	0.4367
040.XX	8	0.00	1.03	0.04	221.XX	27	7.1974	25.760	2.9488
041.10	11	- 0.53	1.62	0.41	241.30	15	- 1.00	3.29	0.27
041.40	3	0.00	1.11	0.08	241.XX	16	- 0.97	3.29	0.27
041.50	11	0.91	4.20	0.39	251.30	4	3.18	6.38	1.06
041.60	12	0.00	0.91	0.45	251.99	2	0.00	1.22	0.10
041.99	2	0.00	1.04	0.46	251.XX	6	2.51	7.17	1.23
041.XX	36	0.41	3.25	0.37	261.30	13	6.861	28.814	0.186
048.20	3	0.00	1.12	0.02	261.99	2	- 85.91	121.50	7.018
048.XX	3	0.00	1.12	0.02	261.XX	15	5.418	26.880	0.213
050.50	4	0.00	1.07	0.10	289.30	13	- 1.38	3.60	0.34
050.51	7	0.00	1.03	0.14	289.99	2	0.00	0.58	0.76
050.99	8	0.95	3.17	0.04	289.XX	15	- 1.21	3.41	0.32
050.XX	20	0.87	2.63	0.19	291.30	9	0.00	0.91	0.45
060.00	6	0.07	0.96	0.50	291.99	2	0.00	0.22	0.85
060.XX	6	0.07	0.96	0.50	291.XX	11	0.00	0.94	0.39
101.30	15	4.93	16.90	0.50	301.30	2	0.00	1.22	0.08
101.XX	15	4.93	16.90	0.50	301.XX	3	0.00	1.11	0.07
121.30	16	- 0.41	1.92	0.12	311.99	7	5.20	13.49	0.91
121.XX	16	- 0.41	1.92	0.12	311.XX	7	5.20	13.49	0.91

## 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	0.583	2.078	0.159					
321.30	36	- 0.053	1.024	0.228					
321.99	3	0.000	1.113	0.089					
321.XX	49	- 0.023	1.016	0.200					
325.30	3	0.000	1.117	0.039					
325.XX	4	0.115	1.188	0.026					