

- Pass 1 Results for 79 Labs - - Pass 2 Results for 78 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	3	4.08	0.13	0.04	3	4.08	0.13	0.04
Ammoniacal Nitrogen, Other		001.99	4	4.18	0.06	0.03	4	4.18	0.06	0.03
Method Group 001.XX PCT			7	4.14	0.11	0.03	6	4.13	0.12	0.02
Nitrate Nitrogen, Other		002.99	1	0.00	0.00	0.00	1	0.00	0.00	0.00
Ammon & Nitrate N, Devarda	892.01	009.10	4	4.26	0.10	0.03	4	4.26	0.10	0.03
Ammon & Nitrate N, Other		009.99	1	4.23	0.01	0.02	1	4.23	0.01	0.02
Method Group 009.XX PCT			5	4.26	0.09	0.03	5	4.26	0.09	0.03
Total Nitrogen, Modified Comprehensive	978.02	010.11	9	4.13	0.07	0.04	9	4.13	0.07	0.04
Total Nitrogen, Salicylic	955.04D	010.12	4	4.14	0.05	0.03	4	4.14	0.05	0.03
Total Nitrogen, Combustion		010.60	55	4.18	0.12	0.05	52	4.18	0.12	0.04
Total Nitrogen, Other		010.99	3	4.20	0.15	0.14	3	4.20	0.15	0.14
Method Group 010.XX PCT			71	4.17	0.12	0.05	67	4.17	0.11	0.04
Total Phosphate, Grav Quimociac	962.02	020.10	10	14.96	0.09	0.05	10	14.96	0.09	0.05
Total Phosphate, Spectrometric	958.01	020.20	12	14.83	0.31	0.14	12	14.83	0.31	0.14
Total Phosphate, Alka Quimociac	969.02	020.30	1	15.06	0.04	0.05	1	15.06	0.04	0.05
Total Phosphate, Automated	978.01	020.40	7	14.83	0.18	0.11	7	14.83	0.18	0.11
Total Phosphate, ICP		020.50	9	15.08	0.32	0.10	9	15.08	0.32	0.10
Total Phosphate, Other		020.99	3	14.88	0.18	0.09	3	14.88	0.18	0.09
Method Group 020.XX PCT			43	14.92	0.26	0.10	42	14.92	0.26	0.09
Insoluble Phosphate, Automated	978.01	030.40	1	0.02	0.00	0.00	1	0.02	0.00	0.00
Insoluble Phosphate, Other		030.99	1	0.05	0.00	0.00	1	0.05	0.00	0.00
Method Group 030.XX PCT			2	0.04	0.02	0.00	2	0.04	0.02	0.00
InDir Available Phosphate, Automated	960.02	040.40	2	14.84	0.06	0.11	2	14.84	0.06	0.11
InDir Available Phosphate, ICP		040.50	1	14.79	0.59	0.83	1	14.79	0.59	0.83
InDir Available Phosphate, Other		040.99	1	13.78	0.08	0.11	1	13.78	0.08	0.11
Method Group 040.XX PCT			4	14.56	0.54	0.29	4	14.56	0.54	0.29
Dir Available Phosphate, Grav Quimociac	960.03E	041.10	7	14.85	0.19	0.12	6	14.88	0.18	0.07
Dir Available Phosphate, Automated	978.01	041.40	5	14.63	0.26	0.24	5	14.63	0.26	0.24
Dir Available Phosphate, ICP		041.50	10	14.90	0.38	0.16	9	14.89	0.38	0.10
Dir Available Phosphate, EDTA Extract	993.01	041.60	9	14.85	0.13	0.06	8	14.85	0.14	0.04
Dir Available Phosphate, Other		041.99	1	14.99	0.11	0.15	1	14.99	0.11	0.15
Method Group 041.XX PCT			33	14.85	0.29	0.15	31	14.83	0.27	0.12
Water Soluble Phosphate, Grav Quimociac	962.03	048.10	1	13.35	0.16	0.22	1	13.35	0.16	0.22
Water Soluble Phosphate, Spectrometric	970.01	048.20	1	13.35	0.06	0.09	1	13.35	0.06	0.09
Water Soluble Phosphate, ICP		048.50	1	13.31	0.19	0.27	1	13.31	0.19	0.27
Water Soluble Phosphate, Other		048.99	1	13.27	0.07	0.10	1	13.27	0.07	0.10
Method Group 048.XX PCT			4	13.32	0.11	0.17	4	13.32	0.11	0.17
Soluble Potash, STPB Oxalate	958.02	050.00	12	30.76	0.47	0.10	11	30.81	0.44	0.05
Soluble Potash, AA (Oxalate)		050.30	5	30.63	0.75	0.58	5	30.63	0.75	0.58

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Soluble Potash, AA (Citrate) .....		050.31	1	29.15	0.35	0.50	1	29.15	0.35	0.50
Soluble Potash, ICP (Oxalate) .....		050.50	6	30.76	0.95	0.48	6	30.76	0.95	0.48
Soluble Potash, ICP (Citrate) .....		050.51	10	30.83	0.90	0.20	9	30.59	0.52	0.15
Soluble Potash, Flame (Oxalate) .....	983.02(a)	050.60	4	30.77	0.53	0.06	4	30.77	0.53	0.06
Soluble Potash, Flame (Citrate) .....	983.02(b)	050.61	11	30.87	0.68	0.60	10	30.86	0.61	0.42
Soluble Potash, Other .....		050.99	22	30.45	1.27	0.47	21	30.20	1.34	0.36
Method Group 050.XX PCT			72	30.69	0.96	0.38	67	30.65	0.94	0.27
Free Water, Vacuum Oven .....	965.08B	060.00	6	0.65	0.18	0.03	6	0.65	0.18	0.03
Free Water, Karl Fischer .....	972.01	060.20	1	0.96	0.03	0.04	1	0.96	0.03	0.04
Method Group 060.XX PCT			7	0.70	0.20	0.03	7	0.70	0.20	0.03
Acid Soluble Calcium, AA .....	945.04	101.00	1	2.25	0.23	0.33	1	2.25	0.23	0.33
Acid Soluble Calcium, ICP .....		101.30	12	2.11	0.12	0.06	12	2.11	0.12	0.06
Acid Soluble Calcium, Other .....		101.99	2	2.51	0.36	0.08	2	2.51	0.36	0.08
Method Group 101.XX PCT			16	2.20	0.24	0.08	15	2.20	0.24	0.06
Acid Soluble Magnesium, AA .....	984.01	121.00	11	1.38	0.06	0.04	10	1.39	0.04	0.03
Acid Soluble Magnesium, ICP .....		121.30	30	1.37	0.10	0.03	29	1.37	0.10	0.03
Acid Soluble Magnesium, Titrimetric ...	964.01	121.70	1	1.64	0.01	0.01	1	1.64	0.01	0.01
Acid Soluble Magnesium, Other .....		121.99	4	1.41	0.22	0.08	3	1.47	0.21	0.01
Method Group 121.XX PCT			47	1.38	0.11	0.04	45	1.38	0.11	0.03
Water Soluble Magnesium, AA .....		131.00	2	1.28	0.20	0.26	2	1.28	0.20	0.26
Water Soluble Magnesium, ICP .....		131.30	4	1.28	0.08	0.04	4	1.28	0.08	0.04
Method Group 131.XX PCT			6	1.28	0.12	0.11	5	1.28	0.07	0.03
Sulfur, Gravimetric .....	980.02a	144.01	16	5.49	0.35	0.08	15	5.49	0.36	0.06
Sulfur, Gravimetric .....	980.02b	144.02	1	5.38	0.01	0.01	1	5.38	0.01	0.01
Sulfur, Spectrometric .....		144.70	2	5.25	0.82	0.04	2	5.25	0.82	0.04
Sulfur, Other .....		144.99	25	5.21	0.37	0.12	25	5.21	0.37	0.12
Method Group 144.XX PCT			44	5.32	0.40	0.10	42	5.33	0.39	0.09
Arsenic, ICP .....		151.30	10	6.19	3.22	0.33	9	5.66	2.91	0.14
Acid Soluble Boron, Spectrometric .....	982.01	165.00	8	0.189	0.023	0.012	7	0.193	0.020	0.008
Acid Soluble Boron, Other .....		165.99	21	0.206	0.017	0.005	20	0.204	0.016	0.005
Method Group 165.XX PCT			30	0.199	0.023	0.007	29	0.200	0.022	0.006
Water Soluble Boron, Other .....		171.99	3	2.125	3.002	0.008	3	2.125	3.002	0.008
Cadmium, ICP .....		181.30	12	5.75	1.16	0.17	12	5.75	1.16	0.17
Chromium, ICP .....		191.30	12	49.62	8.80	1.31	12	49.62	8.80	1.31
Acid Soluble Cobalt, ICP .....	965.11	202.30	10	1.34	0.45	0.03	10	1.34	0.45	0.03
Acid Soluble Cobalt, Other .....		202.99	1	1.33	0.02	0.03	1	1.33	0.02	0.03
Method Group 202.XX PPM			11	1.34	0.43	0.03	11	1.34	0.43	0.03
Acid Soluble Copper, Atomic Absorption	975.01	221.00	4	0.0028	0.0002	0.0001	4	0.0028	0.0002	0.0001
Acid Soluble Copper, ICP .....		221.30	15	0.0026	0.0004	0.0002	14	0.0026	0.0004	0.0002

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Acid Soluble Copper, Other .....		221.99	1	0.0026	0.0003	0.0004	1	0.0026	0.0003	0.0004
Method Group 221.XX PCT			20	0.0026	0.0004	0.0002	18	0.0026	0.0004	0.0001
Acid Soluble Iron, Atomic Absorption ..	980.01	241.00	10	0.35	0.03	0.01	10	0.35	0.03	0.01
Acid Soluble Iron, ICP .....		241.30	33	0.33	0.03	0.01	31	0.33	0.03	0.01
Acid Soluble Iron, Other .....		241.99	3	0.37	0.03	0.01	3	0.37	0.03	0.01
Method Group 241.XX PCT			46	0.34	0.03	0.01	44	0.34	0.03	0.01
Lead, ICP .....		251.30	13	14.87	5.34	1.01	13	14.87	5.34	1.01
Acid Soluble Manganese, AA .....	972.02a	261.00	1	0.017	0.000	0.000	1	0.017	0.000	0.000
Acid Soluble Manganese, AA .....	972.02b	261.11	1	0.016	0.001	0.001	1	0.016	0.001	0.001
Acid Soluble Manganese, ICP .....	972.02a	261.30	11	0.016	0.001	0.001	11	0.016	0.001	0.001
Acid Soluble Manganese, Other .....		261.99	1	0.017	0.001	0.002	1	0.017	0.001	0.002
Method Group 261.XX PCT			14	0.016	0.001	0.001	14	0.016	0.001	0.001
Mercury, ICP .....		281.30	2	7.51	8.57	0.67	2	7.51	8.57	0.67
Mercury, Other .....		281.99	1	0.04	0.00	0.00	1	0.04	0.00	0.00
Method Group 281.XX PPM			3	5.02	7.68	0.45	3	5.02	7.68	0.45
Molybdenum, ICP .....		289.30	14	5.32	1.19	0.12	13	5.29	1.23	0.10
Nickel, ICP .....		291.30	11	10.54	2.75	0.51	9	9.53	1.76	0.15
Selenium, ICP .....		301.30	1	0.05	0.07	0.10	1	0.05	0.07	0.10
Selenium, Other .....		301.99	2	0.85	0.86	0.31	2	0.85	0.86	0.31
Method Group 301.XX PPM			3	0.58	0.78	0.24	3	0.58	0.78	0.24
Sodium, Other .....		311.99	5	0.55	0.07	0.02	5	0.55	0.07	0.02
Acid Soluble Zinc, Atomic Absorption ..	975.02	321.00	9	0.138	0.003	0.003	9	0.138	0.003	0.003
Acid Soluble Zinc, ICP .....		321.30	32	0.137	0.010	0.005	31	0.138	0.010	0.004
Acid Soluble Zinc, Other .....		321.99	2	0.140	0.005	0.008	2	0.140	0.005	0.008
Method Group 321.XX PCT			45	0.137	0.009	0.005	44	0.138	0.009	0.004
Water Soluble Zinc, ICP .....		325.30	1	0.060	0.003	0.004	1	0.060	0.003	0.004
Water Soluble Zinc, Other .....		325.99	1	0.148	0.005	0.008	1	0.148	0.005	0.008
Method Group 325.XX PCT			2	0.104	0.051	0.006	2	0.104	0.051	0.006

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: 010.12 PCT</u>			<u>Meth: 010.60 PCT</u>			<u>Meth: 010.99 PCT</u>		
Ammoniacal Nitrogen			Ammon & Nitrate N			Total Nitrogen			Total Nitrogen			Total Nitrogen		
<u>MgO Distillation</u>			<u>Devarda</u>			<u>Salicylic</u>			<u>Combustion</u>			<u>Other</u>		
444	4.17	.79	489	4.13	-1.33	455	4.18	.66	018	4.20	.16	460	4.11	-.59
371	4.15	.56				Avg	4.14		049	4.19	.14			
Avg	4.08		<u>Meth: 009.99 PCT</u>			416	4.14	-.08	162	4.18	.13	<u>Meth: 010.XX PCT</u>		
456	3.91	-1.24	Ammon & Nitrate N			481	4.08	-1.57	393	4.18	.09	<u>Total Nitrogen</u>		
			<u>Other</u>			<u>Meth: 010.60 PCT</u>			Avg	4.18		494	4.48 s	3.81
<u>Meth: 001.99 PCT</u>			495	26.60	S1582.66	Total Nitrogen			042	4.17	-.06	230	4.40 s	3.02
Ammoniacal Nitrogen			Avg	4.23		<u>Combustion</u>			073	4.18	-.13	325	4.46	2.71
<u>Other</u>			393	4.23	-.71	494	4.48 s	3.45	291	4.16	-.19	307	4.43 R	2.57
474	4.24	.85				230	4.40 s	2.73	136	4.16	-.19	487	4.31 R	2.13
393	4.23	.79	<u>Meth: 009.XX PCT</u>			325	4.46	2.41	233	4.15	-.26	055	4.38	1.93
Avg	4.18		Ammon & Nitrate N			307	4.43 R	2.29	023	4.15	-.27	247	4.37	1.89
096	4.17	-.45	495	26.60 s	241.64	055	4.38	1.70	406	4.15	-.28	351	4.36	1.86
027	4.09	-1.40	258	4.39	1.40	247	4.37	1.66	292	4.14	-.36	007	4.35	1.75
			090	4.30	.64	351	4.36	1.64	389	4.13	-.40	035	4.34	1.60
<u>Meth: 001.XX PCT</u>			Avg	4.26		007	4.35	1.53	472	4.15	-.48	043	4.23 R	1.19
Ammoniacal Nitrogen			444	4.25	-.20	035	4.34	1.39	489	4.12	-.49	095	4.29	1.09
474	4.24	.91	393	4.23	-.30	043	4.23 R	1.06	495	4.11	-.56	096	4.28	1.08
393	4.23	.87	489	4.13	-1.42	095	4.29	.92	443	4.10	-.65	483	4.28	1.01
444	4.17 R	.56				096	4.28	.92	486	4.10	-.74	040	4.20 R	.97
096	4.17	.37	<u>Meth: 010.11 PCT</u>			040	4.20 R	.87	105	4.10	-.76	402	4.27	.97
371	4.15	.17	Total Nitrogen			483	4.28	.84	451	4.07	-.88	485	4.26	.90
Avg	4.13		<u>Modified Comprehensi</u>			402	4.27	.81	354	4.06	-.97	456	4.25	.89
027	4.09	-.36	456	4.25	2.02	485	4.26	.75	157	4.05	-1.12	360	4.26	.86
456	3.91	-1.90	105	4.15	.58	360	4.26	.71	102	4.01	-1.46	177	4.25	.79
			371	4.15	.39	177	4.25	.64	255	4.01	-1.51	444	4.20	.65
<u>Meth: 002.99 PCT</u>			493	4.15	.39	444	4.20	.57	027	3.98	-1.69	377	4.23	.64
Nitrate Nitrogen			114	4.14	.15	377	4.23	.52	275	3.97	-1.76	231	4.22	.56
<u>Other</u>			Avg	4.13		231	4.22	.45	034	3.91	-2.27	029	4.23	.56
393	0.00	.00	470	4.11	-.33	029	4.23	.43	131	3.91	-2.31	488	4.23	.54
			476	4.09	-.71	488	4.23	.41	428	1.65 s	-21.50	117	4.23	.54
<u>Meth: 009.10 PCT</u>			309	4.09	-.73	117	4.23	.41	<u>Meth: 010.99 PCT</u>			086	4.20	.43
Ammon & Nitrate N			211	4.02	-1.61	086	4.20	.34	Total Nitrogen			041	4.21	.35
<u>Devarda</u>			<u>Meth: 010.12 PCT</u>			025	4.18	.26	<u>Other</u>			324	4.20	.32
258	4.39	1.18	Total Nitrogen			041	4.21	.24	487	4.31	1.46	450	4.20	.30
090	4.30	.54	<u>Salicylic</u>			324	4.20	.21	Avg	4.20		025	4.18	.30
Avg	4.26		185	4.18	.78	450	4.20	.20	255	4.17	-.17	018	4.20	.26
444	4.25	-.22										049	4.19	.23

\* 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			Meth: 010.XX PCT			Meth: 020.30 PCT			Meth: 020.99 PCT			Meth: 020.XX PCT		
<u>Total Nitrogen</u>			<u>Total Nitrogen</u>			<u>Total Phosphate</u>			<u>Total Phosphate</u>			<u>Total Phosphate</u>		
162	4.18	.20	275	3.97	-1.82	<u>Alka Quimociac</u>			<u>Other</u>			474	14.85	-.30
073	4.18	.16	034	3.91	-2.37	416	15.06	.71	Avg	14.88		096	14.86	-.34
393	4.18	.15	131	3.91	-2.42	Meth: 020.40 PCT			460	14.78	-.58	444	14.85	-.37
185	4.18	.15	428	1.65 s	-23.20	<u>Total Phosphate</u>			487	14.76	-.65	035	14.86	-.37
255	4.17	.11	Meth: 020.10 PCT			<u>Automated</u>			Meth: 020.XX PCT			489	14.80	-.47
455	4.18	.09	<u>Total Phosphate</u>			025	15.65 s	4.62	<u>Total Phosphate</u>			402	14.78	-.54
042	4.17	.03	<u>Grav Quimociac</u>			470	14.96	.69	483	16.50 s	6.16	460	14.78	-.55
Avg	4.17		114	15.08	1.35	456	14.93	.54	025	15.65 s	2.90	487	14.76	-.60
136	4.16	-.12	090	15.07	1.33	035	14.86	.44	389	15.60	2.65	309	14.77	-.73
291	4.16	-.12	211	15.04	.90	096	14.86	.42	451	15.49	2.23	472	14.70	-.92
371	4.15	-.18	136	15.01	.72	247	14.90	.41	393	15.35	1.66	157	14.70	-.92
493	4.15	-.18	Avg	14.96		105	14.87	.23	406	15.25	1.29	481	14.64	-1.23
023	4.15	-.21	322	14.95	-.12	Avg	14.83		324	15.10 R	1.05	042	14.45	-1.89
233	4.15	-.21	493	14.92	-.45	042	14.45	-2.27	495	15.14	.96	476	14.42	-1.97
406	4.15	-.24	470	14.91	-.60	486	14.01 S	-4.58	455	15.10	.81	027	14.17	-2.89
416	4.14	-.25	041	14.92	-.78	Meth: 020.50 PCT			114	15.08	.64	486	14.01 s	-3.52
114	4.14	-.30	105	14.86	-1.12	<u>Total Phosphate</u>			090	15.07	.62	230	13.70 s	-4.70
292	4.14	-.30	444	14.85	-1.46	<u>ICP</u>			416	15.06	.55	157	13.40 s	-5.87
105	4.15	-.32	157	14.70 s	-3.09	483	16.50 S	4.42	211	15.04	.48	255	13.37 s	-6.16
389	4.13	-.34	Meth: 020.20 PCT			389	15.60	1.60	450	15.03	.46	Meth: 030.40 PCT		
489	4.12	-.44	<u>Total Phosphate</u>			451	15.49	1.27	136	15.01	.40	Insoluble Phosphate		
472	4.15	-.49	<u>Spectrometric</u>			393	15.35	.81	371	15.00	.35	<u>Automated</u>		
495	4.11	-.52	406	15.25	1.33	495	15.14	.39	307	14.96	.35	096	0.02	.00
460	4.11	-.53	324	15.10	1.07	Avg	15.08		258	14.99	.35	Meth: 030.99 PCT		
470	4.11	-.57	450	15.03	.64	307	14.96	-.45	231	14.95	.24	Insoluble Phosphate		
443	4.10	-.62	371	15.00	.54	291	14.89	-.61	470	14.96	.15	<u>Other</u>		
486	4.10	-.72	258	14.99	.53	474	14.85	-.73	322	14.95	.13	247	0.05	.00
105	4.10	-.74	231	14.95	.41	402	14.78	-.94	456	14.93	.10	Meth: 030.XX PCT		
476	4.09	-.76	292	14.91	.23	472	14.70	-1.23	493	14.92	.04	Insoluble Phosphate		
309	4.09	-.79	Avg	14.83		157	13.40 S	-5.22	Avg	14.92		<u>Automated</u>		
451	4.07	-.86	489	14.80	-.13	255	13.37 S	-5.44	470	14.91	-.04	247	0.05	.87
481	4.08	-.88	309	14.77	-.44	Meth: 020.99 PCT			292	14.91	-.04	Avg	0.04	
354	4.06	-.96	481	14.64	-.81	<u>Total Phosphate</u>			291	14.89	-.12	096	0.02	-.87
157	4.05	-1.13	476	14.42	-1.38	<u>Other</u>			247	14.90	-.16	Meth: 030.99 PCT		
211	4.02	-1.36	027	14.17	-2.14	455	15.10	1.32	105	14.87	-.18	Insoluble Phosphate		
102	4.01	-1.49	230	13.70 S	-3.65				041	14.92	-.21	<u>Automated</u>		
255	4.01	-1.55							105	14.86	-.23	Avg		
027	3.98	-1.75										096 0.02 -.87		

\* 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: 040.40 PCT			Meth: 041.40 PCT			Meth: 041.99 PCT			Meth: 041.XX PCT			Meth: 050.00 PCT		
InDir Available Phos			Dir Available Phosph			Dir Available Phosph			Dir Available Phosph			Soluble Potash		
<u>Automated</u>			<u>Automated</u>			<u>Other</u>			<u>Other</u>			<u>STPB Oxalate</u>		
247	14.85	.55	494	14.90	1.20	105	14.99	.71	027	14.31	-2.08	470	31.00	.41
Avg	14.84		131	14.80	.66				354	14.06	-2.87	211	30.96	.33
096	14.84	-1.10	023	14.64	.62	Meth: 041.XX PCT			Meth: 048.10 PCT			416	30.83	.03
Meth: 040.50 PCT			Avg 14.63			Dir Available Phosph			Water Soluble Phosph			Avg 30.81		
InDir Available Phos			095 14.51 -.46			102 16.60 s 6.59			Grav Quimociac			090 30.76 -.13		
<u>ICP</u>			027 14.31 -1.42			029 15.37 R 2.26			444 13.35 -.71			489 30.71 -.24		
488	14.79	-.71	Meth: 041.50 PCT			007 15.29 1.74			Meth: 048.20 PCT			231 30.70 -.26		
Meth: 040.99 PCT			Dir Available Phosph			360 15.27 1.69			Water Soluble Phosph			444 30.60 -.49		
InDir Available Phos			<u>ICP</u>			040 15.25 1.57			<u>Spectrometric</u>			494 30.20 R -1.62		
<u>Other</u>			007 15.29 1.08			325 14.95 R 1.38			096 13.35 .71			102 29.70 -2.51		
275	13.78	.71	360	15.27	1.05	055	15.04	.81	Meth: 048.50 PCT			Meth: 050.30 PCT		
Meth: 040.XX PCT			040	15.25	.96	494	14.90	.69	Water Soluble Phosph			Soluble Potash		
InDir Available Phos			325	14.95 R	.94	105	14.99	.64	<u>ICP</u>			<u>AA (Oxalate)</u>		
488	14.79	.88	055	14.96	.26	485	14.99	.59	444 13.31 .71			309 31.42 1.48		
096	14.84	.54	Avg	14.89		049	14.88	.55	Meth: 048.99 PCT			157 30.65 .46		
247	14.85	.53	393	14.89	-.04	055	14.96	.55	Water Soluble Phosph			136 30.90 .38		
Avg	14.56		043	14.84	-.18	233	14.97	.53	<u>Other</u>			Avg 30.63		
275	13.78	-1.47	023	14.81	-.22	177	14.95	.44	247 13.27 .71			040 30.60 -.27		
Meth: 041.10 PCT			377	14.67	-.59	043	14.87	.40	Meth: 048.XX PCT			185 29.60 -1.37		
Dir Available Phosph			354	14.06	-2.20	117	14.90	.26	Water Soluble Phosph			Meth: 050.31 PCT		
<u>Grav Quimociac</u>			Meth: 041.60 PCT			105	14.87	.24	Meth: 048.99 PCT			Soluble Potash		
102	16.60 s	9.71	Dir Available Phosph			351	14.89	.22	444 13.35 1.09			<u>AA (Citrate)</u>		
055	15.04	.99	Dir Available Phosph			393	14.89	.21	096 13.35 .50			472 29.15 .71		
049	14.88	.79	<u>EDTA Extract</u>			043	14.84	.13	Avg 13.32			Meth: 050.50 PCT		
485	14.99	.65	029	15.37 s	4.34	Avg	14.83		247 13.27 -.65			Soluble Potash		
177	14.95	.42	177	15.03	1.32	024	14.83	.00	444 13.31 -1.28			<u>ICP (Oxalate)</u>		
Avg	14.88		233	14.97	.92	023	14.81	-.11	Meth: 050.00 PCT			292 32.37 1.69		
131	14.84	-.23	043	14.87 R	.75	131	14.80	-.19	Soluble Potash			324 31.00 .49		
105	14.71 R	-1.54	105	14.87	.40	034	14.70	-.50	<u>STPB Oxalate</u>			444 30.91 .17		
185	14.56	-1.80	117	14.90	.39	377	14.67	-.60	230 32.55 s 3.94			Avg 30.76		
Meth: 041.60 PCT			351	14.89	.32	018	14.60	-.86	055 31.50 1.53			354 30.51 -.31		
Dir Available Phosph			Avg	14.85		105	14.71	-.93	114 31.27 1.03			055 29.85 -.95		
<u>EDTA Extract</u>			024	14.83	-.13	023	14.64	-.96	049 30.94 .42			488 29.90 -1.16		
029	15.37 s	4.34	034	14.70	-1.09	185	14.56	-1.03	Meth: 050.00 PCT			157 27.10 S -3.85		
177	15.03	1.32	018	14.60	-1.81	095	14.51	-1.20	Soluble Potash					
233	14.97	.92							STPB Oxalate					
485	14.99	.65							230 32.55 s 3.94					
177	14.95	.42							055 31.50 1.53					
Avg	14.88								114 31.27 1.03					
131	14.84	-.23							049 30.94 .42					
105	14.71 R	-1.54												
185	14.56	-1.80												

\* 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: 050.51 PCT			Meth: 050.61 PCT			Meth: 050.XX PCT			Meth: 050.XX PCT			Meth: 060.00 PCT		
Soluble Potash			Soluble Potash			Soluble Potash			Soluble Potash			Free Water		
<u>ICP (Citrate)</u>			<u>Flame (Citrate)</u>									<u>Vacuum Oven</u>		
495	36.84 S	12.08	034	30.19	-1.24	292	32.37	1.83	043	30.75	.12	096	0.97	1.74
096	35.03 S	8.55	095	29.66	-1.99	325	32.10 R	1.77	090	30.76	.11	007	0.69	.22
483	33.01 R	4.71				025	32.25	1.71	489	30.71	.06	416	0.66	.06
377	31.10	1.15	Meth: 050.99 PCT			307	31.25 R	1.45	231	30.70	.05	Avg	0.65	
291	31.11	1.00	Soluble Potash			451	31.98	1.43	023	30.66	.04	456	0.65	-.16
233	31.02	.87	<u>Other</u>			494	30.97 R	1.31	Avg	30.65		247	0.54	-.60
389	30.90	.61	325	32.10 R	1.54	309	31.42 R	1.18	402	30.63	-.04	493	0.39	-1.43
023	30.66	.16	025	32.25	1.53	275	31.51	.96	444	30.60	-.07			
Avg	30.59		451	31.98	1.33	055	31.50	.90	105	30.59	-.18	Meth: 060.20 PCT		
485	30.37	-.42	307	31.25 R	1.20	041	31.45	.86	040	30.60	-.22	Free Water		
007	30.31	-.58	275	31.51	1.00	247	31.39	.80	354	30.51	-.24	<u>Karl Fischer</u>		
043	30.28	-.60	247	31.39	.89	131	31.39	.78	485	30.37	-.30	371	0.96	.71
393	29.53	-2.04	177	31.34	.85	029	31.37	.77	157	30.65	-.37	Meth: 060.XX PCT		
486	27.65 S	-5.67	474	31.08	.68	177	31.34	.74	007	30.31	-.39	Free Water		
			027	31.03	.63	024	31.17	.72	043	30.28	-.41	096	0.97	1.36
			131	31.02	.61	114	31.27	.66	034	30.19	-.61	371	0.96	1.31
Meth: 050.60 PCT			360	30.81	.47	406	31.25	.63	494	30.20	-.63	Avg	0.70	
Soluble Potash			043	30.75	.41	377	31.10	.57	042	30.05	-.75	007	0.69	-.06
<u>Flame (Oxalate)</u>			402	30.63	.32	324	31.00	.57	351	29.93	-.77	416	0.66	-.16
406	31.25	.89	105	30.59	.31	474	31.08	.52	055	29.85	-.86	456	0.65	-.27
470	31.02	.46	Avg	30.33		291	31.11	.48	102	29.70	-1.02	247	0.54	-.75
105	30.88	.22	042	30.05	-.28	027	31.03	.44	095	29.66	-1.07	493	0.39	-1.51
Avg	30.77		450	29.61	-.47	018	31.00	.43	488	29.90 R	-1.10			
351	29.93	-1.56	481	29.40	-.69	456	30.78	.42	185	29.60	-1.13	Meth: 101.00 PCT		
			322	29.18	-.76	233	31.02	.41	450	29.61	-1.14	Acid Soluble Calcium		
Meth: 050.61 PCT			131	31.02	.39	131	31.02	.39	393	29.53	-1.21	<u>AA</u>		
Soluble Potash			455	28.84	-1.02	470	31.02	.39	481	29.40	-1.43	105	2.25	.71
<u>Flame (Citrate)</u>			460	28.70	-1.14	470	31.00	.36	322	29.18	-1.58	Meth: 101.30 PCT		
494	30.97 R	1.96	487	28.35	-1.40	049	30.94	.34	472	29.15	-1.63	Acid Soluble Calcium		
041	31.45	.99	476	28.18	-1.51	211	30.96	.33	455	28.84	-1.94	<u>ICP</u>		
024	31.17	.87	255	27.55 S	-2.03	035	30.79	.29	460	28.70	-2.11	096	2.64 s	4.33
131	31.39	.86				136	30.90	.28	487	28.35	-2.49	393	2.38	2.29
029	31.37	.86	Meth: 050.XX PCT			444	30.91	.27	476	28.18	-2.65	307	2.20	.82
018	31.00	.40	Soluble Potash			389	30.90	.26	486	27.65 s	-3.22	027	2.17	.47
Avg	30.86		495	36.84 s	6.63	105	30.84	.25	255	27.55 s	-3.38	494	2.13	.42
105	30.84	-.24	096	35.03 s	4.67	105	30.88	.24	157	27.10 s	-3.80			
035	30.79	-.40	483	33.01	2.54	360	30.81	.23						
456	30.78	-.63	230	32.55	2.04	416	30.83	.19						

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 101.30 PCT			Meth: 121.00 PCT			Meth: 121.30 PCT			Meth: 121.XX PCT			Meth: 121.XX PCT		
<u>Acid Soluble Calcium</u>			<u>Acid Soluble Magnesi</u>			<u>Acid Soluble Magnesi</u>			<u>Acid Soluble Magnesi</u>			<u>Acid Soluble Magnesi</u>		
<u>ICP</u>			<u>AA</u>			<u>ICP</u>								
131	2.13	.23	028	1.46	1.64	096	1.33	-.40	042	1.47	.76	393	1.22	-1.51
Avg	2.11		105	1.42	.78	102	1.32	-.46	028	1.46	.73	354	1.21	-1.54
389	2.10	-.09	040	1.43	.76	055	1.34 R	-.67	307	1.45	.67	105	1.25 R	-1.86
102	2.09	-.19	157	1.42	.68	114	1.30	-.76	291	1.44	.49	481	1.17	-1.91
472	2.07	-.37	177	1.41	.38	324	1.30	-.76	472	1.43	.46	230	0.85 s	-4.82
495	2.05	-.51	Avg	1.39		255	1.29	-.79	041	1.43	.42	Meth: 131.00 PCT		
474	2.03	-.70	485	1.38	-.30	389	1.27	-.99	040	1.43	.40	<u>Water Soluble Magnes</u>		
035	2.11	-.74	043	1.37	-.71	474	1.27	-.99	105	1.42	.38	<u>AA</u>		
354	1.88	-1.91	029	1.37	-.96	157	1.27	-1.00	157	1.42	.36	309	1.30	1.22
Meth: 101.99 PCT			258	1.34	-1.32	486	1.23	-1.45	090	1.39	.28	Avg	1.28	
<u>Acid Soluble Calcium</u>			351	1.34	-1.33	393	1.22	-1.57	177	1.41	.25	029	1.27	-.09
<u>Other</u>			309	1.28 R	-3.26	354	1.21	-1.60	023	1.40	.20	Meth: 131.30 PCT		
489	2.82	.85	481	1.17 s	-5.22	230	0.85 s	-5.31	131	1.40	.19	<u>Water Soluble Magnes</u>		
Avg	2.51		Meth: 121.30 PCT			Meth: 121.70 PCT			495	1.40	.17	<u>ICP</u>		
105	2.20	-.88	<u>Acid Soluble Magnesi</u>			<u>Acid Soluble Magnesi</u>			Avg	1.38		027	1.36	1.06
Meth: 101.XX PCT			<u>ICP</u>			<u>Titrimetric</u>			485	1.38	-.01	231	1.33	.62
<u>Acid Soluble Calcium</u>			444	2.40 s	10.45	489	1.64	.71	494	1.37	-.13	Avg	1.28	
489	2.82	2.55	049	1.60	2.34	Meth: 121.99 PCT			043	1.37	-.21	444	1.24	-.93
096	2.64	1.83	483	1.57	2.06	<u>Acid Soluble Magnesi</u>			117	1.36	-.21	230	1.20	-1.06
393	2.38	.82	231	1.52	1.50	<u>Other</u>			247	1.35	-.28	Meth: 131.XX PCT		
105	2.25 R	.71	027	1.48	1.23	460			035	1.37	-.29	<u>Water Soluble Magnes</u>		
105	2.20	.33	307	1.45	.88	Avg			029	1.37	-.32	309	1.30 R	3.55
307	2.20	.16	291	1.44	.68	042			450	1.36	-.33	027	1.36	1.24
Avg	2.20		472	1.43	.63	433			258	1.34	-.41	231	1.33	.75
027	2.17	-.12	041	1.43	.60	105			096	1.33	-.47	Avg	1.28	
131	2.13	-.32	090	1.39	.38	433			102	1.32	-.52	029	1.27	-.26
494	2.13	-.33	023	1.40	.36	105			055	1.34	-.65	444	1.24	-1.02
389	2.10	-.41	495	1.40	.33	Meth: 121.XX PCT			114	1.30	-.79	230	1.20	-1.14
102	2.09	-.46	131	1.40	.32	<u>Acid Soluble Magnesi</u>			324	1.30	-.79	Meth: 144.01 PCT		
035	2.11	-.52	035	1.37	.31	444			255	1.29	-.81	<u>Sulfur</u>		
472	2.07	-.54	360	1.38	.24	460			389	1.27	-1.00	<u>Gravimetric</u>		
495	2.05	-.62	Avg	1.37		489			474	1.27	-1.00	230	6.10	1.69
474	2.03	-.72	494	1.37	-.04	049			157	1.27	-1.00	055	5.88	1.07
354	1.88	-1.33	117	1.36	-.13	483			309	1.28 R	-1.17	114	5.85	1.00
			247	1.35	-.18	231			433	1.23	-1.32			
			450	1.36	-.32	027			486	1.23	-1.41			

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 165.XX PCT			Meth: 191.30 PPM			Meth: 202.XX PPM			Meth: 221.30 PCT			Meth: 241.00 PCT		
<u>Acid Soluble Boron</u>			<u>Chromium</u>			<u>Acid Soluble Cobalt</u>			<u>Acid Soluble Copper</u>			<u>Acid Soluble Iron</u>		
393	0.200	-.11	ICP			105	3.13 s	4.43	ICP			029	0.38	1.02
090	0.199	-.11	041	66.00	1.87	035	2.07	1.69	450	0.0023	-.71	105	0.37	.86
023	0.196	-.45	096	56.85	.82	041	1.90	1.31	494	0.0023	-.91	040	0.37	.80
049	0.185	-.70	450	55.00	.62	096	1.57	.55	354	0.0025 R	-1.24	040	0.37	.80
324	0.181	-.92	247	53.00	.38	450	1.50	.38	255	0.0020	-1.44	351	0.37	.65
495	0.178	-1.01	393	52.25	.30	494	1.49	.35	230	0.0019	-1.63	485	0.36	.58
258	0.172	-1.34	102	51.77	.24	102	1.44	.25				043	0.36	.44
494	0.169	-1.42	035	50.30	.12	Avg	1.34		Meth: 221.99 PCT			Avg	0.35	
354	0.169	-1.43	474	50.00	.04	255	1.33	-.03	Acid Soluble Copper			258	0.34	-.30
055	0.164 R	-1.92	Avg	49.62		474	1.00	-.79	<u>Other</u>			028	0.32	-.93
230	0.135	-2.97	105	48.65	-.16	230	0.84	-1.17	105	0.0026	.71	177	0.30	-1.50
			444	42.59	-.83	486	0.84	-1.17				481	0.30	-1.71
			486	35.32	-1.63	393	0.74	-1.39	Meth: 221.XX PCT					
Meth: 171.99 PCT			230	33.75	-1.80				<u>Acid Soluble Copper</u>			Meth: 241.30 PCT		
<u>Water Soluble Boron</u>						Meth: 221.00 PCT			402	0.0035 s	2.84	<u>Acid Soluble Iron</u>		
<u>Other</u>			Meth: 202.30 PPM			Acid Soluble Copper			433	0.0033	1.95	<u>ICP</u>		
247	6.000	1.29	<u>Acid Soluble Cobalt</u>			<u>Atomic Absorption</u>			247	0.0031 R	1.56	041	0.41	2.37
Avg	2.125		<u>ICP</u>			481	0.0030	1.33	481	0.0030	1.12	483	0.38	1.35
027	0.189	-.64	105	3.13 s	4.21	028	0.0028	.13	102	0.0030	1.08	102	0.36	.92
444	0.185	-.65	035	2.07	1.61	Avg	0.0028		049	0.0027	.71	444	0.36 R	.85
			041	1.90	1.24	043	0.0027	-.92	474	0.0029	.67	055	0.36 R	.85
Meth: 181.30 PPM			096	1.57	.52	105	0.0027	-.92	028	0.0028	.55	090	0.35	.72
<u>Cadmium</u>			450	1.50	.36	Meth: 221.30 PCT			096	0.0027	.38	324	0.35	.72
<u>ICP</u>			494	1.49	.33	Acid Soluble Copper			105	0.0027	.37	494	0.35	.59
096	7.05	1.13	102	1.44	.24	<u>ICP</u>			043	0.0027	.37	023	0.35	.58
474	7.00	1.08	Avg	1.34		402	0.0035 S	2.53	035	0.0027	.17	096	0.35	.56
041	6.75	.87	474	1.00	-.75	433	0.0033	1.76	041	0.0027	.17	495	0.35	.52
035	6.49	.67	230	0.84	-1.11	247	0.0031	1.41	Avg	0.0026		131	0.35	.50
450	6.30	.48	486	0.84	-1.11	102	0.0030	1.00	495	0.0025	-.32	371	0.35	.45
393	6.29	.47	393	0.74	-1.32	474	0.0029	.64	105	0.0026	-.56	231	0.35	.43
102	5.99	.21				049	0.0027	.63	486	0.0024	-.71	389	0.35	.43
105	5.80	.04	Meth: 202.99 PPM			096	0.0027	.39	450	0.0023	-.88	307	0.34	.39
Avg	5.75		<u>Acid Soluble Cobalt</u>			041	0.0027	.19	494	0.0023	-1.10	035	0.34	.37
444	5.26	-.42	<u>Other</u>			035	0.0027	.19	354	0.0025 R	-1.43	360	0.34	.34
486	4.67	-.93	255	1.33	.71	Avg	0.0026		255	0.0020	-1.71	157	0.34	.22
230	3.78	-1.70				495	0.0025	-.22	230	0.0019	-1.93	472	0.33	.19
481	3.60	-1.85				486	0.0024	-.56				291	0.34	.18
												117	0.33	.09

\* 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: 241.30 PCT Acid Soluble Iron			Meth: 241.XX PCT Acid Soluble Iron			Meth: 251.30 PPM Lead			Meth: 261.30 PCT Acid Soluble Manganese			Meth: 281.30 PPM Mercury					
<u>ICP</u>			<u>ICP</u>			<u>ICP</u>			<u>ICP</u>			<u>ICP</u>					
114	0.33	.06	043	0.36	.66	035	21.55	1.28	495	0.015	-.50	Avg	7.51				
Avg	0.33		090	0.35	.56	393	19.75	.92	096	0.015	-.56	450	0.10	-.86			
402	0.33	-.08	324	0.35	.55	105	19.15	.84	049	0.015	-1.05						
393	0.32	-.46	494	0.35	.46	041	18.50	.69	035	0.015	-1.33	Meth: 281.99 PPM Mercury					
354	0.32	-.52	023	0.35	.41	102	17.85	.57	354	0.015	-1.68	<u>Other</u>					
433	0.31	-.58	096	0.35	.38	049	17.21	.44	027	0.011 s	-4.18	485	0.04	.71			
255	0.31	-.62	495	0.35	.35	474	15.50	.31				Meth: 261.99 PCT Acid Soluble Manganese					
247	0.30	-1.00	131	0.35	.33	450	16.10	.23	Meth: 261.99 PCT Acid Soluble Manganese			Meth: 281.XX PPM Mercury					
474	0.29	-1.31	371	0.35	.30	Avg	14.87		<u>Other</u>			<u>Mercury</u>					
049	0.28	-1.78	231	0.35	.28	444	14.08	-.16	105	0.017	-.71	444	14.92	1.29			
486	0.26	-2.24	389	0.35	.28	486	11.21	-.69				Avg	5.02				
027	0.25	-2.54	307	0.34	.25	230	11.20	-.69	Meth: 261.XX PCT Acid Soluble Manganese			450	0.10	-.64			
450	0.22 s	-3.61	360	0.34	.21	481	9.70	-.97	<u>Acid Soluble Manganese</u>			485	0.04	-.65			
230	0.21 s	-3.81	258	0.34	.12	096	1.50	-2.51	402	0.162 s	131.28	Meth: 289.30 PPM Molybdenum					
			157	0.34	.08				041	0.018 s	2.72	<u>ICP</u>					
			Avg	0.34		Meth: 261.00 PCT Acid Soluble Manganese			105	0.017	1.46	049	9.47 s	3.40			
			105	0.34	-.04	Acid Soluble Manganese			247	0.017	1.37	255	8.33	2.47			
			117	0.33	-.15	<u>AA</u>			043	0.017	.86	041	6.20	.74			
			114	0.33	-.17	043			0.017	.71	474	0.017	.83	450	6.20	.74	
			291	0.34	-.17	Meth: 261.11 PCT Acid Soluble Manganese			131	0.016	.59	Avg	0.016				
			402	0.33	-.20	<u>AA</u>			393	0.016	-.08	393	5.96	.54			
			472	0.33	-.23	105			0.016	.71	102	0.016	-.49	247	5.80	.42	
			035	0.34	-.34	Meth: 261.30 PCT Acid Soluble Manganese			389	0.016	-.49	105	0.016	-.49	035	5.65 R	.34
			028	0.32	-.62	<u>ICP</u>			105	0.016	-.49	495	0.015	-.65	Avg	5.29	
			393	0.32	-.63	402			0.162 s	133.99	096	0.015	-.70	096	5.15	-.12	
			354	0.32	-.68	041			0.018 s	2.90	049	0.015	-1.11	474	5.00	-.24	
			433	0.31	-.74	247			0.017	1.56	035	0.015	-1.33	105	4.93	-.30	
			255	0.31	-.78	474			0.017	.99	354	0.015	-1.75	393	4.91	-.32	
			177	0.30	-1.14	049			0.28	-1.93	027	0.011 s	-4.26	494	4.68	-.50	
			247	0.30	-1.16	486			0.26	-2.39				102	4.54	-.61	
			481	0.30	-1.32	027			0.25	-2.69	Meth: 281.30 PPM Mercury			486	3.64	-1.35	
			474	0.29	-1.47	450			0.22 s	-3.75	<u>ICP</u>			230	3.51	-1.46	
			049	0.28	-1.93	230			0.21 s	-3.95	444			14.92	.87		
			486	0.26	-2.39	389			0.016	-.46							
			027	0.25	-2.69												
			450	0.22 s	-3.75												
			444	0.36 R	.71												
			055	0.36 R	.71												

\* 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: 291.30 PPM			Meth: 311.99 PCT			Meth: 321.30 PCT			Meth: 321.XX PCT			Meth: 321.XX PCT		
Nickel			Sodium			Acid Soluble Zinc			Acid Soluble Zinc			Acid Soluble Zinc		
<u>ICP</u>			<u>Other</u>			<u>ICP</u>			371 0.155 1.84			433 0.126 -1.25		
105	15.20 R	3.28	035	0.59	.66	474	0.140	.24	102	0.150	1.45	055	0.125	-1.52
041	15.00 R	3.16	Avg	0.55		444	0.140	.24	450	0.148	1.21	354	0.122	-1.82
247	11.55	1.15	494	0.53	-.45	292	0.140	.24	231	0.145	.97	481	0.120	-1.96
450	11.00	.84	495	0.43	-1.67	Avg	0.138		393	0.146	.93	472	0.123 R	-1.99
049	10.83	.74	Meth: 321.00 PCT			324	0.135	-.28	131	0.141	.75	027	0.096 s	-4.67
035	10.30	.45	Acid Soluble Zinc			389	0.135	-.28	090	0.142	.64	230	0.084 s	-5.96
102	10.08	.32	<u>Atomic Absorption</u>			105	0.134	-.57	177	0.141	.56	Meth: 325.30 PCT		
096	9.75	.15	485	0.154 s	4.96	157	0.132	-.60	105	0.139	.50	Water Soluble Zinc		
Avg	9.53		177	0.141	1.49	117	0.131	-.73	494	0.138	.49	<u>ICP</u>		
474	9.00	-.30	258	0.139	1.04	291	0.130	-.80	402	0.141	.48	444	0.060	.71
230	6.76	-1.58	460	0.140	.65	486	0.130	-.80	258	0.139	.39	Meth: 325.99 PCT		
486	6.47	-1.74	028	0.140	.65	035	0.134	-.81	307	0.141	.37	Water Soluble Zinc		
Meth: 301.30 PPM			351	0.138	.44	255	0.134	-.82	023	0.140	.33	<u>Other</u>		
Selenium			040	0.139	.26	495	0.129	-.91	360	0.141	.30	450 0.148 X - .71		
<u>ICP</u>			Avg	0.138		114	0.129	-.96	460	0.140	.24	Meth: 325.XX PCT		
041	0.05	.71	029	0.137	-.46	489	0.127	-1.17	474	0.140	.24	<u>Water Soluble Zinc</u>		
Meth: 301.99 PPM			105	0.135	-.97	433	0.126	-1.17	028	0.140	.24	450 0.148 X .87		
Selenium			043	0.132	-1.71	055	0.125	-1.42	444	0.140	.24	Avg 0.104		
<u>Other</u>			481	0.120 s	-5.19	354	0.122	-1.71	292	0.140	.24	444 0.060 -.86		
255	1.56	.90	Meth: 321.30 PCT			472	0.123 R	-1.87	351	0.138	.17	Meth: 325.99 PCT		
Avg	0.85		Acid Soluble Zinc			027	0.096 s	-4.39	040	0.139	.09	Water Soluble Zinc		
485	0.14	-.83	<u>ICP</u>			230	0.084 s	-5.61	Avg	0.138		450 0.148 X .87		
Meth: 301.XX PPM			483	0.158	2.06	Meth: 321.99 PCT			029	0.137	-.17	444 0.060 -.86		
<u>Selenium</u>			049	0.155	1.87	Acid Soluble Zinc			324	0.135	-.31	Meth: 325.99 PCT		
255	1.56	1.31	371	0.155	1.75	<u>Other</u>			389	0.135	-.31	Water Soluble Zinc		
Avg	0.58		102	0.150	1.38	042	0.165 S	4.75	105	0.135	-.37	450 0.148 X .87		
485	0.14	-.57	450	0.148	1.15	090	0.142	.82	043	0.132	-.65	Avg 0.104		
041	0.05	-.69	231	0.145	.92	Avg	0.140		157	0.132	-.65	444 0.060 -.86		
Meth: 311.99 PCT			393	0.146	.89	105	0.139	-.91	117	0.131	-.78	Meth: 325.99 PCT		
Sodium			131	0.141	.71	Meth: 321.XX PCT			035	0.134	-.86	Water Soluble Zinc		
<u>Other</u>			494	0.138	.47	Acid Soluble Zinc			291	0.130	-.86	450 0.148 X .87		
354	0.61	.76	402	0.141	.46	042	0.165 s	3.05	486	0.130	-.86	Avg 0.104		
102	0.60	.70	307	0.141	.36	483	0.158	2.18	255	0.134	-.88	444 0.060 -.86		
Meth: 311.99 PCT			023	0.140	.32	049	0.155	1.97	495	0.129	-.97	Meth: 325.99 PCT		
Sodium			360	0.141	.29	485	0.154	1.87	114	0.129	-1.03	Water Soluble Zinc		
<u>Other</u>									489	0.127	-1.25	450 0.148 X .87		
354	0.61	.76										Avg 0.104		
102	0.60	.70										444 0.060 -.86		

\* 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	3	0.00	1.08	0.24	121.00	12	- 0.66	1.83	0.65
001.99	4	0.00	1.05	0.22	121.30	32	0.15	2.30	0.23
001.XX	7	0.04	0.96	0.21	121.99	4	- 0.26	1.05	0.37
009.10	4	0.00	1.05	0.23	121.XX	47	0.06	1.80	0.29
009.99	2	790.90	1118.5	37.00	131.00	2	0.00	0.10	0.86
009.XX	6	40.25	98.60	3.27	131.30	4	0.00	1.00	0.36
010.11	9	0.00	0.96	0.36	131.XX	6	0.04	0.88	1.48
010.12	4	0.00	0.96	0.43	144.01	16	- 0.01	0.98	0.15
010.60	58	- 0.25	3.03	0.49	144.70	2	0.00	1.22	0.02
010.99	3	0.00	0.68	0.73	144.99	26	- 0.17	1.29	0.22
010.XX	72	- 0.17	2.95	0.53	144.XX	41	- 0.10	1.19	0.21
020.10	11	- 0.26	1.25	0.50	151.30	10	0.18	1.13	0.11
020.20	13	- 0.28	1.38	0.28	151.XX	10	0.18	1.13	0.11
020.40	9	0.00	2.42	0.44	165.00	9	2.390	7.781	0.416
020.50	12	- 0.51	2.69	0.44	165.99	22	- 0.111	1.421	0.243
020.99	3	0.00	1.04	0.33	165.XX	31	0.620	3.893	0.253
020.XX	46	- 0.15	1.91	0.53	171.99	3	0.000	1.118	0.002
030.XX	2	0.00	1.22	0.00	171.XX	3	0.000	1.118	0.002
040.40	2	0.00	0.06	0.87	181.30	12	0.00	1.02	0.09
040.XX	4	0.00	0.98	0.40	181.XX	12	0.00	1.02	0.09
041.10	8	1.09	3.59	0.53	191.30	12	0.00	1.02	0.11
041.40	5	0.00	0.88	0.53	191.XX	12	0.00	1.02	0.11
041.50	10	0.02	0.96	0.33	202.30	11	0.36	1.54	0.43
041.60	10	0.40	1.50	0.71	202.XX	12	0.35	1.55	0.43
041.XX	27	0.30	1.65	0.45	221.00	4	0.0000	0.9409	0.4593
048.XX	3	- 0.03	0.37	0.78	221.30	16	0.1247	1.0584	0.5230
050.00	13	0.19	1.50	0.29	221.XX	20	0.1638	1.1065	0.5500
050.30	5	0.00	0.88	0.53	241.00	10	0.00	1.01	0.17
050.50	7	- 0.55	1.70	0.33	241.30	35	- 0.17	1.30	0.18
050.51	13	1.51	4.57	0.39	241.99	3	0.00	1.05	0.32
050.60	4	0.00	1.08	0.06	241.XX	47	- 0.15	1.24	0.19
050.61	11	0.02	0.89	0.70	251.30	13	0.00	1.01	0.13
050.99	23	0.10	1.01	0.28	251.XX	13	0.00	1.01	0.13
050.XX	68	0.06	1.52	0.43	261.30	14	9.430	35.880	0.821
060.00	6	0.00	1.04	0.09	261.XX	16	8.034	32.892	0.794
060.XX	7	0.00	1.04	0.09	281.30	2	0.00	1.22	0.05
101.30	13	0.33	1.51	0.33	281.XX	3	0.00	1.12	0.05
101.99	2	0.00	1.20	0.16	289.30	15	0.25	1.29	0.08
101.XX	15	0.01	1.00	0.21	289.XX	15	0.25	1.29	0.08

## 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
291.30	11	0.58	1.58	0.26					
291.XX	11	0.58	1.58	0.26					
301.99	2	0.00	1.17	0.25					
301.XX	3	0.00	1.08	0.23					
311.99	5	0.00	1.04	0.20					
311.XX	5	0.00	1.04	0.20					
321.00	11	- 0.042	2.352	0.653					
321.30	34	- 0.340	1.522	0.359					
321.99	3	1.552	2.709	0.850					
321.XX	46	- 0.191	1.532	0.365					