

- Pass 1 Results for 86 Labs - - Pass 2 Results for 85 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	2	11.96	0.11	0.07	2	11.96	0.11	0.07
Ammoniacal Nitrogen, Other .....		001.99	4	11.75	0.30	0.08	4	11.75	0.30	0.08
Method Group 001.XX PCT			6	11.82	0.27	0.08	6	11.82	0.27	0.08
Nitrate Nitrogen, Other .....		002.99	3	0.73	0.14	0.09	3	0.73	0.14	0.09
Water Insoluble Nitrogen, Meth I .....	945.01	003.10	1	0.41	0.01	0.02	1	0.41	0.01	0.02
Nitrogen From Urea, Urease (as N) .....	959.03	005.00	1	0.05	0.01	0.01	1	0.05	0.01	0.01
Ammon & Nitrate N, Devarda .....	892.01	009.10	3	12.48	0.57	0.11	3	12.48	0.57	0.11
Total Nitrogen, Modified Comprehensive	978.02	010.11	8	12.79	0.21	0.06	8	12.79	0.21	0.06
Total Nitrogen, Salicylic .....	955.04D	010.12	4	12.45	0.21	0.02	4	12.45	0.21	0.02
Total Nitrogen, Combustion .....		010.60	56	12.75	0.18	0.09	54	12.76	0.18	0.08
Total Nitrogen, Other .....		010.99	5	12.81	0.22	0.09	5	12.81	0.22	0.09
Method Group 010.XX PCT			73	12.74	0.20	0.08	70	12.76	0.18	0.07
Total Phosphate, Grav Quimociac .....	962.02	020.10	7	12.98	0.16	0.13	7	12.98	0.16	0.13
Total Phosphate, Spectrometric .....	958.01	020.20	18	12.92	0.15	0.10	17	12.91	0.14	0.08
Total Phosphate, Automated .....	978.01	020.40	5	12.86	0.07	0.07	5	12.86	0.07	0.07
Total Phosphate, ICP .....		020.50	5	13.01	0.42	0.10	5	13.01	0.42	0.10
Total Phosphate, Other .....		020.99	2	12.89	0.05	0.06	2	12.89	0.05	0.06
Method Group 020.XX PCT			38	12.93	0.20	0.10	37	12.92	0.20	0.10
Insoluble Phosphate, Grav Quimociac ...	963.03C	030.10	1	0.05	0.01	0.01	1	0.05	0.01	0.01
Insoluble Phosphate, Automated .....	978.01	030.40	2	0.02	0.01	0.01	2	0.02	0.01	0.01
Insoluble Phosphate, ICP .....		030.50	1	0.04	0.00	0.00	1	0.04	0.00	0.00
Method Group 030.XX PCT			4	0.03	0.01	0.01	4	0.03	0.01	0.01
InDir Available Phosphate, Grav Quim ..	960.02	040.10	1	13.00	0.08	0.11	1	13.00	0.08	0.11
InDir Available Phosphate, Spectrometri	960.02	040.20	1	12.99	0.04	0.06	1	12.99	0.04	0.06
InDir Available Phosphate, Automated ..	960.02	040.40	2	12.82	0.05	0.08	2	12.82	0.05	0.08
InDir Available Phosphate, ICP .....		040.50	2	12.09	0.51	0.16	2	12.09	0.51	0.16
InDir Available Phosphate, Other .....		040.99	1	12.98	0.04	0.05	1	12.98	0.04	0.05
Method Group 040.XX PCT			7	12.68	0.47	0.10	7	12.68	0.47	0.10
Dir Available Phosphate, Grav Quimociac	960.03E	041.10	16	12.94	0.14	0.11	16	12.94	0.14	0.11
Dir Available Phosphate, Spectrometric	960.03D	041.20	1	12.91	0.45	0.63	1	12.91	0.45	0.63
Dir Available Phosphate, Automated ....	978.01	041.40	4	12.99	0.18	0.04	4	12.99	0.18	0.04
Dir Available Phosphate, ICP .....		041.50	10	12.72	0.21	0.12	10	12.68	0.25	0.08
Dir Available Phosphate, EDTA Extract .	993.01	041.60	13	12.87	0.15	0.08	12	12.88	0.15	0.06
Dir Available Phosphate, Other .....		041.99	2	13.17	0.15	0.20	2	13.17	0.15	0.20
Method Group 041.XX PCT			47	12.88	0.21	0.12	45	12.88	0.20	0.10
Water Soluble Phosphate, Grav Quimociac	962.03	048.10	1	10.91	0.03	0.04	1	10.91	0.03	0.04
Water Soluble Phosphate, Spectrometric	970.01	048.20	3	11.23	0.24	0.13	3	11.23	0.24	0.13
Water Soluble Phosphate, Other .....		048.99	1	10.41	0.16	0.22	1	10.41	0.16	0.22
Method Group 048.XX PCT			5	11.00	0.38	0.13	5	11.00	0.38	0.13

- Pass 1 Results for 86 Labs - - Pass 2 Results for 85 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
Soluble Potash, STPB Oxalate	958.02	050.00	16	13.75	0.17	0.10	16	13.75	0.17	0.10
Soluble Potash, AA (Oxalate)		050.30	11	13.52	0.57	0.15	10	13.54	0.59	0.11
Soluble Potash, AA (Citrate)		050.31	2	13.76	0.19	0.03	2	13.76	0.19	0.03
Soluble Potash, ICP (Oxalate)		050.50	6	14.01	0.53	0.08	6	14.01	0.53	0.08
Soluble Potash, ICP (Citrate)		050.51	13	13.62	0.58	0.15	13	13.62	0.58	0.15
Soluble Potash, Flame (Oxalate)	983.02(a)	050.60	6	13.55	0.52	0.05	6	13.55	0.52	0.05
Soluble Potash, Flame (Citrate)	983.02(b)	050.61	10	13.69	0.33	0.12	10	13.69	0.33	0.12
Soluble Potash, Other		050.99	16	13.56	0.42	0.11	16	13.56	0.42	0.11
Method Group 050.XX PCT			80	13.66	0.45	0.11	77	13.66	0.44	0.10
Free Water, Vacuum Oven	965.08B	060.00	4	0.56	0.05	0.05	4	0.56	0.05	0.05
Acid Soluble Calcium, AA	945.04	101.00	1	0.42	0.00	0.00	1	0.42	0.00	0.00
Acid Soluble Calcium, ICP		101.30	18	0.41	0.02	0.01	18	0.41	0.02	0.01
Acid Soluble Calcium, Other		101.99	1	0.39	0.04	0.05	1	0.39	0.04	0.05
Method Group 101.XX PCT			20	0.41	0.02	0.01	19	0.41	0.02	0.01
Acid Soluble Magnesium, AA	984.01	121.00	13	2.20	0.11	0.06	12	2.19	0.11	0.04
Acid Soluble Magnesium, ICP		121.30	33	2.21	0.10	0.05	32	2.20	0.10	0.04
Acid Soluble Magnesium, Other		121.99	2	2.19	0.23	0.07	2	2.19	0.23	0.07
Method Group 121.XX PCT			48	2.20	0.11	0.05	46	2.20	0.10	0.04
Water Soluble Magnesium, AA		131.00	2	1.60	0.69	0.02	2	1.60	0.69	0.02
Water Soluble Magnesium, ICP		131.30	3	1.49	0.50	0.11	3	1.49	0.50	0.11
Method Group 131.XX PCT			5	1.53	0.55	0.07	4	1.63	0.57	0.02
Sulfur, Gravimetric	980.02a	144.01	17	12.56	0.29	0.10	15	12.58	0.28	0.06
Sulfur, Gravimetric	980.02b	144.02	2	12.53	0.45	0.09	2	12.53	0.45	0.09
Sulfur, Spectrometric		144.70	1	11.17	0.11	0.16	1	11.17	0.11	0.16
Sulfur, Other		144.99	18	12.04	0.30	0.08	18	12.04	0.30	0.08
Method Group 144.XX PCT			40	12.22	0.49	0.10	36	12.27	0.44	0.08
Arsenic, ICP		151.30	6	2.83	0.89	0.23	6	2.83	0.89	0.23
Arsenic, Other		151.99	1	2.21	0.05	0.07	1	2.21	0.05	0.07
Method Group 151.XX PPM			7	2.74	0.85	0.20	7	2.74	0.85	0.20
Acid Soluble Boron, Spectrometric	982.01	165.00	9	0.120	0.009	0.002	8	0.120	0.009	0.002
Acid Soluble Boron, Other		165.99	19	0.120	0.011	0.004	18	0.119	0.010	0.003
Method Group 165.XX PCT			28	0.120	0.010	0.003	27	0.120	0.010	0.003
Water Soluble Boron, AA	52.950	171.00	1	0.100	0.000	0.000	1	0.100	0.000	0.000
Water Soluble Boron, Other		171.99	1	0.124	0.000	0.000	1	0.124	0.000	0.000
Method Group 171.XX PCT			2	0.112	0.014	0.000	2	0.112	0.014	0.000
Cadmium, ICP		181.30	16	5.65	0.61	0.29	15	5.66	0.58	0.19
Cadmium, Other		181.99	2	6.22	0.37	0.27	2	6.22	0.37	0.27
Method Group 181.XX PPM			18	5.71	0.61	0.28	17	5.73	0.58	0.20
Water Soluble Chlorine, Titrimetric	928.02	190.00	1	7.51	0.14	0.20	1	7.51	0.14	0.20

- Pass 1 Results for 86 Labs - - Pass 2 Results for 85 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
Water Soluble Chlorine, Other		190.99	1	7.92	0.09	0.13	1	7.92	0.09	0.13
Method Group 190.XX PCT			2	7.71	0.25	0.17	2	7.71	0.25	0.17
Chromium, ICP		191.30	15	88.36	4.38	1.74	15	88.36	4.38	1.74
Chromium, Other		191.99	1	86.15	2.33	3.30	1	86.15	2.33	3.30
Method Group 191.XX PPM			16	88.22	4.29	1.84	16	88.22	4.29	1.84
Acid Soluble Cobalt, ICP	965.11	202.30	13	10.24	1.99	0.50	13	10.24	1.99	0.50
Acid Soluble Cobalt, Other		202.99	1	11.80	0.14	0.20	1	11.80	0.14	0.20
Method Group 202.XX PPM			14	10.35	1.96	0.48	13	10.16	1.89	0.39
Acid Soluble Copper, Atomic Absorption	975.01	221.00	4	0.0032	0.0003	0.0003	4	0.0032	0.0003	0.0003
Acid Soluble Copper, ICP		221.30	18	0.0030	0.0005	0.0002	16	0.0030	0.0005	0.0001
Acid Soluble Copper, Other		221.99	3	0.0025	0.0012	0.0000	3	0.0025	0.0012	0.0000
Method Group 221.XX PCT			25	0.0030	0.0006	0.0002	21	0.0031	0.0005	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	31	0.36	0.02	0.01	30	0.36	0.02	0.01
Acid Soluble Iron, Other		241.99	2	0.35	0.01	0.01	2	0.35	0.01	0.01
Method Group 241.XX PCT			45	0.36	0.03	0.01	43	0.35	0.03	0.01
Lead, ICP		251.30	7	2.20	1.29	0.05	7	2.20	1.29	0.05
Lead, Other		251.99	1	1.62	0.01	0.01	1	1.62	0.01	0.01
Method Group 251.XX PPM			8	2.13	1.22	0.05	8	2.13	1.22	0.05
Acid Soluble Manganese, AA	972.02a	261.00	10	0.365	0.041	0.024	9	0.360	0.037	0.017
Acid Soluble Manganese, AA	972.02b	261.11	1	0.355	0.019	0.027	1	0.355	0.019	0.027
Acid Soluble Manganese, ICP	972.02a	261.30	30	0.379	0.026	0.014	29	0.379	0.026	0.013
Acid Soluble Manganese, ICP	972.02b	261.31	1	0.398	0.011	0.016	1	0.398	0.011	0.016
Acid Soluble Manganese, Other		261.99	3	0.373	0.009	0.013	3	0.373	0.009	0.013
Method Group 261.XX PCT			46	0.374	0.030	0.017	45	0.374	0.029	0.016
Mercury, Atomic Absorption		281.00	1	0.03	0.00	0.00	1	0.03	0.00	0.00
Mercury, ICP		281.30	1	0.26	0.08	0.12	1	0.26	0.08	0.12
Mercury, Other		281.99	1	0.03	0.00	0.00	1	0.03	0.00	0.00
Method Group 281.XX PPM			3	0.10	0.13	0.04	3	0.10	0.13	0.04
Molybdenum, ICP		289.30	13	7.41	0.76	0.18	12	7.29	0.64	0.12
Molybdenum, Other		289.99	1	7.10	0.20	0.28	1	7.10	0.20	0.28
Method Group 289.XX PPM			14	7.38	0.74	0.18	13	7.27	0.62	0.13
Nickel, ICP		291.30	12	33.37	2.24	0.95	12	33.37	2.24	0.95
Selenium, ICP		301.30	3	0.90	1.03	0.35	3	0.90	1.03	0.35
Selenium, Other		301.99	2	0.33	0.25	0.02	2	0.33	0.25	0.02
Method Group 301.XX PPM			5	0.67	0.83	0.22	4	0.70	0.92	0.08
Sodium, Other		311.99	7	0.36	0.04	0.01	7	0.36	0.04	0.01
Acid Soluble Zinc, Atomic Absorption	975.02	321.00	11	0.401	0.029	0.024	11	0.401	0.029	0.024
Acid Soluble Zinc, ICP		321.30	36	0.406	0.028	0.013	36	0.406	0.028	0.013

- Pass 1 Results for 86 Labs - - Pass 2 Results for 85 Labs -

<u>Method</u>	<u>AOAC Ref.</u>	<u>Method Code</u>	<u>No. of Labs</u>	<u>Grand Avg.</u>	<u>Std. Dev.</u>	<u>Average Range of Dups</u>	<u>No. of Labs</u>	<u>Grand Avg.</u>	<u>Std. Dev.</u>	<u>Average Range of Dups</u>
Acid Soluble Zinc, Other .....		321.99	3	0.390	0.016	0.004	3	0.390	0.016	0.004
Method Group 321.XX PCT			50	0.404	0.028	0.015	48	0.403	0.027	0.013

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 001.10 PCT			Meth: 005.00 PCT			Meth: 010.60 PCT			Meth: 010.60 PCT			Meth: 010.XX PCT		
Ammoniacal Nitrogen			Nitrogen From Urea			Total Nitrogen			Total Nitrogen			Total Nitrogen		
<u>MgO Distillation</u>			<u>Urease (as N)</u>			<u>Combustion</u>			<u>Combustion</u>			<u>Combustion</u>		
405	12.05	.88	232	0.05	.71	114	15.19 s	13.74	041	12.68	-.59	114	15.19 s	13.18
Avg	11.96					422	13.40 s	3.60	377	12.66	-.59	371	15.05 s	12.45
232	11.87	-.85	Meth: 009.10 PCT			361	13.19	2.43	095	12.67	-.66	422	13.40 s	3.46
Meth: 001.99 PCT			Ammon & Nitrate N			351	13.11	2.01	037	12.66	-.66	073	13.27	2.76
Ammoniacal Nitrogen			<u>Devarda</u>			292	13.11	1.94	324	12.70	-.67	361	13.19	2.34
<u>Other</u>			030	13.00	.93	444	13.07	1.79	007	12.70	-.67	354	13.16	2.18
105	12.01	.94	090	12.67	.34	035	13.04	1.61	369	12.67	-.77	292	13.11	1.88
096	11.98	.79	Avg	12.48		157	12.97	1.15	425	12.63	-.79	444	13.07	1.73
Avg	11.75		420	11.78	-1.24	049	12.96	1.10	043	12.61	-.92	035	13.04	1.56
420	11.66	-.33	Meth: 010.11 PCT			390	12.94	1.00	325	12.60	-.92	157	12.97	1.12
027	11.34	-1.37	Total Nitrogen			102	12.93	.95	423	12.60	-.92	049	12.96	1.07
Meth: 001.XX PCT			<u>Modified Comprehensive</u>			232	12.93	.93	028	12.59	-1.14	390	12.94	.97
Ammoniacal Nitrogen			371	15.05 s	10.90	255	12.91	.87	230	12.55	-1.24	102	12.93	.93
405	12.05	.89	073	13.27	2.32	426	12.89	.74	034	12.56	-1.26	232	12.93	.91
105	12.01	.80	405	12.80	.22	372	12.89	.73	247	12.55	-1.29	255	12.91	.85
096	11.98	.62	211	12.81	.10	027	12.89	.72	023	12.59 R	-1.37	426	12.89	.72
232	11.87	.23	322	12.79	.02	443	12.80	.61	055	12.53	-1.38	372	12.89	.71
Avg	11.82		Avg	12.79		262	12.85	.57	409	12.52	-1.40	027	12.89	.71
420	11.66	-.63	105	12.74	-.25	057	12.85	.48	009	12.52	-1.43	443	12.80	.59
027	11.34	-1.80	288	12.70	-.44	131	12.84	.44	022	12.52	-1.56	262	12.85	.56
Meth: 002.99 PCT			Meth: 010.12 PCT			162	12.84	.43	096	12.47	-1.73	057	12.85	.47
Nitrate Nitrogen			Total Nitrogen			309	12.63	-.75	451	12.50 R	-1.75	131	12.84	.44
<u>Other</u>			<u>Salicylic</u>			029	12.57	-1.12	360	12.77	.31	300	12.83	.44
232	0.86	.91	416	12.60	.72	025	12.81	.26	025	12.81	.26	162	12.84	.43
288	0.74	.07	397	12.60	.72	450	12.80	.21	450	12.80	.21	136	12.78	.40
Avg	0.73		185	12.48	.21	024	12.79	.19	024	12.79	.19	406	12.83	.39
105	0.59	-1.29	Avg	12.45		296	12.79	.16	354	13.16	1.61	405	12.80	.31
Meth: 003.10 PCT			Meth: 010.16 PCT			086	12.77	.08	300	12.83	.21	360	12.77	.30
Water Insoluble Nitr			Total Nitrogen			Avg	12.76		Avg	12.81		025	12.81	.26
<u>Meth I</u>			<u>Raney</u>			040	12.75	-.17	136	12.78	-.34	211	12.81	.25
232	0.41	-.71	254	12.12	-1.56	234	12.74	-.21	105	12.73	-.42	450	12.80	.22
Meth: 010.16 PCT			Total Nitrogen			029	12.73	-.21	402	12.54	-1.25	024	12.79	.19
Total Nitrogen			Total Nitrogen			291	12.75	-.27	420	11.96 S	-3.89	322	12.79	.17
<u>Raney</u>			Total Nitrogen			106	12.70	-.35				296	12.79	.17
419			12.32 S			231	12.70	-.43				086	12.77	.09
						233	12.69	-.46				Avg	12.76	
						177	12.68	-.50				105	12.74	-.16

\* 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: 020.20 PCT			Meth: 020.XX 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>		
040	12.75	-.16	419	12.32 s	-3.02	<u>Spectrometric</u>			422	14.59 s	8.29	444	12.64	-1.41
029	12.73	-.19	254	12.12 A	-3.50	369	12.70	-1.61	425	13.73 s	4.05	042	12.66	-1.43
234	12.74	-.19	420	11.96 s	-4.39	Meth: 020.40 PCT			426	13.50	2.88	390	12.55	-1.99
291	12.75	-.26	Meth: 020.10 PCT			<u>Total Phosphate</u>			393	13.42	2.46	432	12.45 s	-2.91
105	12.73	-.32	<u>Total Phosphate</u>			<u>Automated</u>			105	13.25	1.63	193	11.82 s	-5.97
106	12.70	-.32	<u>Grav Quimociac</u>			035	12.93	.98	030	13.10 R	1.33	255	11.70 s	-6.08
288	12.70	-.36	105	13.25	1.65	247	12.91	.73	419	13.12	1.24	443	10.89 s	-10.27
231	12.70	-.40	444	13.01	.94	096	12.87	.49	324	13.10	.89	423	5.47 s	-37.04
233	12.69	-.43	090	13.04	.51	Avg 12.86			444	13.01	.87	Meth: 030.10 PCT		
177	12.68	-.47	405	13.04	.42	409	12.82	-.84	231	13.06	.69	<u>Insoluble Phosphate</u>		
041	12.68	-.55	Avg 12.98			105	12.77	-1.44	090	13.04	.66	<u>Grav Quimociac</u>		
377	12.66	-.55	300	12.91	-.60	042	12.66 s	-3.13	372	13.05	.64	405	0.06 S	3.54
095	12.67	-.62	041	12.86	-.83	Meth: 020.50 PCT			405	13.04	.61	090	0.05	.71
037	12.66	-.62	157	12.80	-1.20	<u>Total Phosphate</u>			288	13.00	.39	Avg 0.05		
007	12.70	-.63	Meth: 020.20 PCT			<u>ICP</u>			292	12.98	.30	Meth: 030.40 PCT		
324	12.70	-.63	<u>Total Phosphate</u>			422	14.59 S	3.79	262	12.95	.29	<u>Insoluble Phosphate</u>		
309	12.63	-.71	<u>Spectrometric</u>			426	13.50	1.17	361	12.96	.22	<u>Automated</u>		
369	12.67	-.73	425	13.73 s	5.96	393	13.42	.97	035	12.93	.13	096	0.03	.78
425	12.63	-.74	030	13.10 R	2.00	Avg 13.01			247	12.91	-.07	Avg 0.02		
043	12.61	-.86	419	13.12	1.88	361	12.96	-.14	114	12.88	-.20	409 0.02 -.94		
397	12.60	-.87	324	13.10	1.39	444	12.64	-.90	232	12.88	-.26	Meth: 030.50 PCT		
325	12.60	-.87	231	13.06	1.11	390	12.55	-1.17	300	12.91	-.28	<u>Insoluble Phosphate</u>		
423	12.60	-.87	372	13.05	1.03	432	12.45 S	-1.59	096	12.87	-.33	ICP		
416	12.60	-.87	288	13.00	.68	255	11.70 S	-3.16	402	12.89	-.34	255 0.04 .00		
028	12.59	-1.08	292	12.98	.54	423	5.47 s	-18.12	309	12.85	-.36	Meth: 030.XX PCT		
029	12.57	-1.13	262	12.95	.48	Meth: 020.99 PCT			041	12.86	-.37	<u>Insoluble Phosphate</u>		
230	12.55	-1.17	Avg 12.91			<u>Total Phosphate</u>			406	12.87	-.39	255 0.06 s 2.50		
034	12.56	-1.19	232	12.88	-.29	<u>Other</u>			451	12.85	-.40	090 0.05 .95		
247	12.55	-1.22	309	12.85	-.41	402	12.89	1.22	416	12.83	-.48	255 0.04 .73		
402	12.54	-1.23	406	12.87	-.49	Avg 12.89			420	12.85	-.57	Avg 0.03		
023	12.59 R	-1.31	451	12.85	-.49	114	12.88	-.10	409	12.82	-.57	096 0.03 -.24		
055	12.53	-1.31	416	12.83	-.58	193	11.82 S	-23.68	157	12.80	-.67	409 0.02 -1.41		
409	12.52	-1.33	234	12.86	-.66	443	10.89 S	-41.18	450	12.77	-.78			
009	12.52	-1.35	420	12.85	-.76				105	12.77	-.81			
022	12.52	-1.48	450	12.77	-1.02				169	12.71	-1.07			
185	12.48	-1.56	169	12.71	-1.44				369	12.70	-1.18			
096	12.47	-1.64												
451	12.50 R	-1.67												

\* 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: 040.10 PCT			Meth: 041.10 PCT			Meth: 041.50 PCT			Meth: 041.99 PCT			Meth: 041.XX PCT		
<u>InDir Available Phos</u>			<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>		
<u>Grav Quim</u>			<u>Grav Quimociac</u>			<u>ICP</u>			<u>Other</u>					
090	13.00	-.71	185	13.20	1.90	023	13.01	1.33	230	11.10 S	-14.23	009	12.87	-.36
			105	13.19	1.86	360	12.91	.90				049	12.85	-.38
			211	13.11	1.16	043	12.90	.86	Meth: 041.XX PCT			177	12.80	-.50
Meth: 040.20 PCT			Meth: 041.20 PCT			Meth: 041.60 PCT			Meth: 041.XX PCT			Meth: 041.XX PCT		
<u>InDir Available Phos</u>			<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>		
<u>Spectrometri</u>			<u>Spectrometric</u>			<u>EDTA Extract</u>								
372	12.99	.71	254	12.97	.47	009	12.87	.81	022	13.65 s	3.85	022	13.65 s	3.85
			055	12.95	.32	007	12.74	.31	105	13.23	1.90	105	13.23	1.90
			131	12.94	.14	Avg	12.73		025	13.23	1.74	025	13.23	1.74
			Avg	12.94		393	12.63	-.23	185	13.20	1.64	185	13.20	1.64
Meth: 040.40 PCT			Meth: 041.40 PCT			Meth: 041.99 PCT			Meth: 041.99 PCT			Meth: 041.99 PCT		
<u>InDir Available Phos</u>			<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>		
<u>Automated</u>			<u>Automated</u>			<u>Automated</u>			<u>Automated</u>			<u>Automated</u>		
096	12.84	.73	086	12.90	-.31	361	12.50	-.71	105	13.19	1.61	105	13.19	1.61
Avg	12.82		102	12.89	-.33	325	12.65 R	-.99	055	12.91 R	1.58	055	12.91 R	1.58
409	12.80	-.99	177	12.87	-.45	354	12.38	-1.20	322	13.12	1.22	322	13.12	1.22
			029	12.90	-.49	377	12.22 S	-1.84	211	13.11	1.11	211	13.11	1.11
			040	12.86	-.63				028	13.07	.96	028	13.07	.96
			009	12.85	-.65	Meth: 041.60 PCT			397	13.05	.84	397	13.05	.84
			049	12.85	-.79	Dir Available Phosph			022	12.95	.82	022	12.95	.82
			233	12.88	-1.12	<u>EDTA Extract</u>			027	13.03	.72	027	13.03	.72
			260	12.72	-1.53	028	13.07	1.33	023	13.01	.71	023	13.01	.71
			296	12.51 s	-3.24	397	13.05	1.16	105	13.02	.68	105	13.02	.68
			Meth: 041.20 PCT			105	13.02	.94	254	12.97	.53	254	12.97	.53
			Dir Available Phosph			024	12.99	.73	024	12.99	.53	024	12.99	.53
			<u>Spectrometric</u>			351	12.92	.31	055	12.95	.39	055	12.95	.39
			055	12.91	-.71	296	12.91	.28	029	12.90	.31	029	12.90	.31
			Meth: 041.40 PCT			Avg	12.88		131	12.94	.30	131	12.94	.30
			Dir Available Phosph			034	12.84	-.34	131	12.93	.24	131	12.93	.24
			<u>Automated</u>			043	12.85	-.40	351	12.92	.22	351	12.92	.22
			025	13.23	1.34	288	12.85	-.41	296	12.91	.20	296	12.91	.20
			027	13.03	.25	177	12.80	-.68	086	12.90	.16	086	12.90	.16
			Avg	12.99		073	12.74	-.98	360	12.91	.11	360	12.91	.11
			131	12.93	-.32	106	12.76 R	-1.39	043	12.90	.07	043	12.90	.07
			029	12.77	-1.24	057	12.56	-2.22	102	12.89	.04	102	12.89	.04
			Meth: 041.50 PCT			Meth: 041.99 PCT			Meth: 041.99 PCT			Meth: 041.99 PCT		
			Dir Available Phosph			Dir Available Phosph			Dir Available Phosph			Dir Available Phosph		
			<u>ICP</u>			<u>Other</u>			<u>Other</u>			<u>Other</u>		
			022	13.65 s	3.84	105	13.23	1.15	034	12.84	-.25	034	12.84	-.25
						Avg	13.17		043	12.85	-.29	043	12.85	-.29
						322	13.12	-.42	288	12.85	-.30	288	12.85	-.30

\* 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: 048.XX PCT			Meth: 050.30 PCT			Meth: 050.51 PCT			Meth: 050.99 PCT			Meth: 050.XX PCT		
<u>Water Soluble Phosph</u>			<u>Soluble Potash</u>			<u>Soluble Potash</u>			<u>Soluble Potash</u>			<u>Soluble Potash</u>		
096	11.36	1.02	AA (Oxalate)			ICP (Citrate)			Other			105	13.94	.72
420	11.38	.98	451	13.55	.06	Avg	13.62		027	14.30	1.75	292	13.96	.68
Avg	11.00		351	13.55	.04	423	13.44	-.33	131	14.05	1.22	009	13.94	.65
372	10.95	-.13	Avg	13.54		022	13.05	-.99	177	14.03	1.10	254	13.92	.60
405	10.91	-.24	420	13.30 R	-.60	096	13.00	-1.14	105	13.94	.96	131	13.89	.53
393	10.41	-1.56	185	13.05	-.87	419	12.97	-1.15	360	13.87	.74	416	13.89	.53
			262	13.00	-.94	393	12.63	-1.72	232	13.68	.27	406	13.89	.52
			425	12.47	-1.81				325	13.60	.09	105	13.86	.51
Meth: 050.00 PCT						Meth: 050.60 PCT			300	13.60	.08	157	13.88	.50
<u>Soluble Potash</u>			Meth: 050.31 PCT			<u>Soluble Potash</u>			Avg	13.56		360	13.87	.49
<u>STPB Oxalate</u>			<u>Soluble Potash</u>			<u>Flame (Oxalate)</u>			114	13.56	-.02	233	13.86	.46
022	14.05	1.95	AA (Citrate)			443	15.75 S	4.34	402	13.52	-.14	102	13.82	.46
009	13.94	1.14	254	13.92	.87	131	13.89	.66	247	13.48	-.23	377	13.83	.43
416	13.89	.82	Avg	13.76		406	13.89	.65	042	13.45	-.32	024	13.84	.41
102	13.82	.81	095	13.59	-.86	055	13.73	.36	390	13.10	-1.12	057	13.83	.40
055	13.77	.76				169	13.68	.25	322	13.05	-1.23	055	13.77	.39
233	13.86	.67	Meth: 050.50 PCT			105	13.67	.22	354	12.98	-1.42	090	13.82	.38
043	13.76	.53	<u>Soluble Potash</u>			Avg	13.55		255	12.81	-1.79	361	13.80	.32
057	13.83	.52	<u>ICP (Oxalate)</u>			309	12.47	-2.10	193	12.08 s	-3.72	043	13.76	.31
090	13.82	.50	422	14.79	1.49	Meth: 050.61 PCT			Meth: 050.XX PCT			324	13.75	.24
Avg	13.75		426	14.30	.55	<u>Soluble Potash</u>			<u>Soluble Potash</u>			029	13.72	.23
211	13.75	-.04	106	14.12	.26	<u>Flame (Citrate)</u>			443	15.75 s	4.88	043	13.76	.23
095	13.72	-.17	Avg	14.01		025	14.25	1.68	422	14.79	2.60	055	13.73	.21
049	13.69	-.34	292	13.96	-.11	035	14.02	1.01	432	14.65 R	2.34	211	13.75	.20
231	13.59	-.97	324	13.75	-.51	105	13.86	.59	369	14.59	2.14	291	13.70	.15
296	13.57	-1.04	444	13.16	-1.63	024	13.84	.44	426	14.30	1.47	095	13.72	.14
372	13.49	-1.50				029	13.72	.27	027	14.30	1.47	028	13.66	.11
029	13.46	-1.68	Meth: 050.51 PCT			Avg	13.69		023	14.29	1.45	169	13.68	.09
230	11.30 s	-14.21	<u>Soluble Potash</u>			057	13.67	-.07	025	14.25	1.36	049	13.69	.07
397	10.75 s	-17.40	<u>ICP (Citrate)</u>			028	13.66	-.18	073	14.14	1.13	232	13.68	.07
			432	14.65	1.81	041	13.46	-.71	106	14.12	1.07	057	13.67	.04
Meth: 050.30 PCT			009	14.06	.75	030	13.35	-1.12	131	14.05	.97	Avg	13.66	
<u>Soluble Potash</u>			007	13.97	.62	034	13.10	-1.80	022	14.05	.96	325	13.60	-.13
<u>AA (Oxalate)</u>			377	13.83	.38				009	14.06	.92	300	13.60	-.14
369	14.59	1.78	361	13.80	.29				177	14.03	.84	095	13.59	-.16
073	14.14	1.03	043	13.76	.23				035	14.02	.84	234	13.62	-.16
157	13.88	.57	291	13.70	.16				007	13.97	.76	231	13.59	-.19
234	13.62	.17												
040	13.57	.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	Lab	Average*	Index
<u>Meth: 050.XX PCT</u>			<u>Meth: 060.00 PCT</u>			<u>Meth: 101.99 PCT</u>			<u>Meth: 121.00 PCT</u>			<u>Meth: 121.30 PCT</u>		
<u>Soluble Potash</u>			<u>Free Water</u>			<u>Acid Soluble Calcium</u>			<u>Acid Soluble Magnesi</u>			<u>Acid Soluble Magnesi</u>		
296	13.57	-.20	<u>Vacuum Oven</u>			<u>Other</u>			<u>AA</u>			<u>ICP</u>		
114	13.56	-.23	416	0.55	-.19	193	0.39	-.71	028	2.29	.92	233	2.19	-.26
040	13.57	-.23	405	0.54	-.32	Meth: 101.XX PCT			177	2.27	.70	106	2.17	-.34
351	13.55	-.24	007	0.52	-1.22	<u>Acid Soluble Calcium</u>			420	2.20	.38	232	2.20	-.38
451	13.55	-.27	Meth: 101.00 PCT			422	1.57 s	60.51	Avg	2.19		288	2.20	-.48
402	13.52	-.33	<u>Acid Soluble Calcium</u>			041	0.56 s	7.77	043	2.19	-.17	292	2.15	-.60
372	13.49	-.38	<u>AA</u>			131	0.44	1.35	351	2.14	-.49	096	2.13	-.76
247	13.48	-.43	105	0.42	.71	390	0.43	1.19	296	2.14	-.65	433	2.13	-.81
029	13.46	-.46	Avg	0.42		106	0.43	.95	262	2.09	-1.00	324	2.13	-.82
041	13.46	-.47	420	0.28 S	-81.69	057	0.43	.94	055	2.07	-1.38	065	2.12	-.84
042	13.45	-.51	450	0.02 S	-233.13	035	0.43	.80	309	2.03	-1.63	405	2.11	-1.02
423	13.44	-.51	Meth: 101.30 PCT			232	0.42	.69	371	1.04 s	-11.04	393	2.10	-1.12
030	13.35	-.78	<u>Acid Soluble Calcium</u>			096	0.42	.43	Meth: 121.30 PCT			102	2.08	-1.30
420	13.30 R	-1.02	<u>ICP</u>			247	0.42	.43	<u>Acid Soluble Magnesi</u>			022	2.04	-1.75
444	13.16	-1.15	422	1.57 s	58.93	433	0.42	.39	<u>ICP</u>			255	2.01	-2.06
034	13.10	-1.29	041	0.56 s	7.58	105	0.42	.20	041	2.94 s	7.68	Meth: 121.99 PCT		
390	13.10	-1.30	131	0.44	1.32	009	0.41	.07	422	2.91 s	7.42	<u>Acid Soluble Magnesi</u>		
022	13.05	-1.40	390	0.43	1.17	Avg	0.41		090	2.43	2.35	<u>Other</u>		
322	13.05	-1.40	106	0.43	.94	065	0.41	-.14	432	2.32 R	2.08	193	2.54 S	1.71
185	13.05	-1.43	057	0.43	.92	102	0.41	-.18	444	2.36	1.62	042	2.38	.89
262	13.00	-1.53	035	0.43	.79	292	0.41	-.45	027	2.34	1.39	Avg	2.19	
354	12.98	-1.58	232	0.42	.68	288	0.41	-.53	354	2.31	1.14	114	2.00	-.84
096	13.00 R	-1.59	096	0.42	.43	405	0.39	-1.15	231	2.30	1.11	234	1.74 S	-2.02
419	12.97	-1.61	247	0.42	.43	423	0.39	-1.43	300	2.27	1.02	Meth: 121.XX PCT		
255	12.81	-1.94	433	0.42	.39	193	0.39 R	-1.92	035	2.29	.91	<u>Acid Soluble Magnesi</u>		
393	12.63	-2.37	009	0.41	.07	022	0.38	-1.95	409	2.25	.73	041	2.94 s	7.07
309	12.47	-2.72	Avg	0.41		027	0.37	-2.02	057	2.21	.63	422	2.91 s	6.83
425	12.47	-2.72	065	0.41	-.13	420	0.28 s	-7.08	390	2.25	.58	193	2.54 s	3.68
193	12.08 s	-3.79	102	0.41	-.18	450	0.02 s	-20.56	037	2.26	.56	090	2.43	2.18
230	11.30 s	-5.40	292	0.41	-.43	Meth: 121.00 PCT			423	2.25	.48	432	2.32 R	1.92
397	10.75 s	-6.66	288	0.41	-.52	<u>Acid Soluble Magnesi</u>			247	2.24	.40	042	2.38	1.88
Meth: 060.00 PCT			405	0.39	-1.11	<u>AA</u>			009	2.22	.34	444	2.36	1.51
<u>Free Water</u>			423	0.39	-1.39	095	2.32	1.17	131	2.22	.19	027	2.34	1.30
<u>Vacuum Oven</u>			022	0.38	-1.89	450	2.32	1.15	426	2.21	.08	095	2.32	1.14
096	1.05 s	9.45	027	0.37	-1.96	105	2.27 R	1.14	Avg	2.20		105	2.27 R	1.13
105	0.61	1.37	Meth: 121.00 PCT			029	2.30	1.02	360	2.20	-.11	450	2.32	1.12
Avg	0.56		<u>Acid Soluble Calcium</u>			<u>AA</u>			419	2.18	-.25			

\* 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: 121.XX PCT			Meth: 121.XX PCT			Meth: 144.01 PCT			Meth: 144.99 PCT			Meth: 144.XX PCT		
<u>Acid Soluble Magnesi</u>			<u>Acid Soluble Magnesi</u>			<u>Sulfur</u>			<u>Sulfur</u>			<u>Sulfur</u>		
354	2.31	1.06	309	2.03	-1.70	<u>Gravimetric</u>			<u>Other</u>			390	12.35	.22
231	2.30	1.04	255	2.01	-1.87	324	12.70	.42	027	12.27	.77	372	12.29	.06
029	2.30	.98	114	2.00	-1.92	296	12.67	.32	360	12.24	.68	027	12.27	.00
300	2.27	.96	234	1.74 s	-4.51	262	12.60	.07	193	12.15	.35	Avg	12.27	
028	2.29	.89	371	1.04 s	-11.19	Avg	12.58		450	12.08	.30	114	12.26	-.03
035	2.29	.85	Meth: 131.00 PCT			102	12.56	-.08	300	12.05	.17	360	12.24	-.11
409	2.25	.68	Water Soluble Magnes			043	12.56	-.13	023	12.06	.13	397	12.25	-.12
177	2.27	.66	<u>AA</u>			029	12.55	-.15	Avg	12.04		193	12.15	-.28
057	2.21	.58	029	2.19	.87	095	12.46	-.45	351	11.94	-.38	029	12.14	-.32
390	2.25	.55	Avg	1.60		105	12.55	-.46	247	11.86	-.61	450	12.08	-.47
037	2.26	.53	309	1.00	-.87	114	12.26	-1.16	131	11.84	-.67	023	12.06	-.48
423	2.25	.46	Meth: 131.30 PCT			397	12.25	-1.19	035	11.75	-.98	300	12.05	-.51
247	2.24	.39	Water Soluble Magnes			233	12.16 R	-1.65	423	11.70	-1.17	233	12.16 R	-.52
420	2.20	.38	<u>ICP</u>			106	12.00	-2.07	009	11.70	-1.19	106	12.00	-.62
232	2.20	.35	027	2.13	1.27	444	11.76 s	-3.10	096	11.32	-2.41	351	11.94	-.76
009	2.22	.32	Avg	1.49		Meth: 144.02 PCT			422	10.72 s	-4.41	247	11.86	-.94
131	2.22	.19	405	1.20	-.59	<u>Sulfur</u>			255	10.38 s	-5.55	131	11.84	-.98
426	2.21	.10	432	1.15	-.74	<u>Gravimetric</u>			Meth: 144.XX PCT			035	11.75	-1.19
360	2.20	.10	Meth: 131.XX PCT			292	12.91	.86	<u>Sulfur</u>			423	11.70	-1.31
Avg	2.20		Water Soluble Magnes			Avg	12.53		419	16.10 s	8.77	009	11.70	-1.33
043	2.19	-.20	029	2.19	.98	029	12.14	-.87	157	13.17	2.07	444	11.76 R	-1.35
419	2.18	-.21	027	2.13	.87	405	4.59 S	-17.73	055	12.95	1.55	096	11.32	-2.17
233	2.19	-.22	Avg	1.63		Meth: 144.70 PCT			292	12.91	1.47	393	11.17	-2.52
106	2.17	-.29	405	1.20	-.76	<u>Sulfur</u>			057	12.73	1.07	422	10.72 A	-3.55
288	2.20	-.43	432	1.15 R	-.88	<u>Spectrometric</u>			288	12.73	1.06	255	10.38 s	-4.33
292	2.15	-.53	309	1.00	-1.10	393	11.17	.71	324	12.70	.99	405	4.59 s	-17.60
351	2.14	-.54	Meth: 144.01 PCT			Meth: 144.99 PCT			296	12.67	.92	Meth: 151.30 PPM		
096	2.13	-.68	Sulfur			<u>Sulfur</u>			028	12.59 R	.84	<u>Arsenic</u>		
296	2.14	-.69	<u>Gravimetric</u>			<u>Other</u>			262	12.60	.76	<u>ICP</u>		
433	2.13	-.72	157	13.17	2.10	419	16.10 s	13.54	105	12.55	.70	450	4.50 S	2.53
324	2.13	-.73	055	12.95	1.30	232	12.40	1.20	102	12.56	.67	233	4.60	2.00
065	2.12	-.75	028	12.59 R	.66	177	12.38	1.15	043	12.56	.66	247	2.95	.31
405	2.11	-.91	057	12.73	.60	354	12.35	1.07	029	12.55	.64	Avg	2.83	
393	2.10	-1.01	288	12.73	.54	390	12.35	1.05	095	12.46	.43	065	2.63	-.28
262	2.09	-1.06				372	12.29	.84	232	12.40	.31	102	2.49	-.39
102	2.08	-1.17							354	12.35	.28	230	2.18	-.73
055	2.07	-1.44							177	12.38	.27	393	2.14	-.79
022	2.04	-1.58												

\* 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: 151.99 PPM			Meth: 165.99 PCT			Meth: 165.XX PCT			Meth: 181.30 PPM			Meth: 181.XX PPM		
Arsenic			Acid Soluble Boron			Acid Soluble Boron			Cadmium			Cadmium		
<u>Other</u>			<u>Other</u>			<u>Other</u>			<u>ICP</u>			<u>Other</u>		
409	2.21	.71	090	0.125	.72	105	0.118	-.23	106	6.00	.58	390	5.14	-1.02
			433	0.127	.68	231	0.116	-.39	419	6.00	.58	444	4.98	-1.30
			230	0.121	.26	393	0.114	-.63	102	5.76	.30	450	5.43 R	-1.59
Meth: 151.XX PPM			106 0.120 .05			255 0.111 -.88			Avg 5.66			230 4.35 -2.37		
Arsenic			300 0.120 .05			288 0.112 -.93			065 5.63 -.10			Meth: 190.00 PCT		
450	4.50 s	2.73	Avg 0.119			324 0.110 -.98			233 5.42 -.53			Water Soluble Chlori		
233	4.60	2.20	231 0.116 -.34			296 0.110 -.98			393 5.34 -.57			<u>Titrimetric</u>		
247	2.95	.38	393 0.114 -.57			009 0.110 -.99			232 5.25 -.72			422 7.51 .71		
Avg	2.74		423 0.112 -.76			232 0.109 -1.08			390 5.14 -.92			Meth: 190.99 PCT		
065	2.63	-.22	255 0.111 -.81			422 0.108 -1.24			444 4.98 -1.20			Water Soluble Chlori		
102	2.49	-.30	288 0.112 -.86			057 0.105 -1.44			450 5.43 R -1.56			Other		
409	2.21	-.63	324 0.110 -.90			043 0.080 s -4.10			230 4.35 -2.27			009 7.92 .71		
230	2.18	-.66	009 0.110 -.92			Meth: 171.00 PCT			Meth: 181.99 PPM			Meth: 190.XX PCT		
393	2.14	-.73	232 0.109 -.99			Water Soluble Boron			Cadmium			Water Soluble Chlori		
Meth: 165.00 PCT			422 0.108 -1.15			<u>AA</u>			409 6.48 .72			009 7.92 .84		
Acid Soluble Boron			043 0.080 s -3.85			296 0.100 .00			Avg 6.22			Avg 7.71		
<u>Spectrometric</u>			Meth: 165.XX PCT			Meth: 171.99 PCT			300 5.95 -.99			422 7.51 -.89		
409	0.134	1.60	Acid Soluble Boron			Water Soluble Boron			Meth: 181.XX PPM			Meth: 191.30 PPM		
397	0.130	1.13	432 0.325 s 25.37			Other			Cadmium			Chromium		
029	0.125 R	.80	042 0.145 2.62			027 0.124 .00			409 6.48 1.28			<u>ICP</u>		
023	0.120	.22	450 0.133 R 1.59			Meth: 171.XX PCT			037 6.29 1.15			009 94.20 1.43		
055	0.121	.18	354 0.135 1.54			Water Soluble Boron			035 6.27 .94			230 93.90 1.29		
Avg	0.120		409 0.134 1.47			Other			247 6.25 .93			247 93.50 1.18		
028	0.119	-.14	397 0.130 1.04			027 0.124 .87			247 6.20 .81			450 92.00 .83		
105	0.118	-.24	360 0.130 .99			Avg 0.112			009 6.10 .66			106 91.50 .73		
296	0.110	-1.05	444 0.128 .86			296 0.100 -.87			300 5.95 .57			390 90.70 .70		
057	0.105	-1.55	090 0.125 .74			Meth: 181.30 PPM			106 6.00 .46			419 90.00 .38		
Meth: 165.99 PCT			029 0.125 .74			Cadmium			419 6.00 .46			Avg 88.36		
Acid Soluble Boron			433 0.127 .69			<u>ICP</u>			102 5.76 .26			065 87.78 -.17		
<u>Other</u>			230 0.121 .27			037 6.29 1.25			Avg 5.73			037 86.43 -.52		
432	0.325 s	24.04	023 0.120 .20			035 6.27 1.05			065 5.63 -.18			102 86.84 -.59		
042	0.145	2.51	055 0.121 .17			324 6.25 1.04			233 5.42 -.62			035 85.75 -.68		
450	0.133 R	1.52	106 0.120 .03			247 6.20 .92			393 5.34 -.67			096 85.00 -.77		
354	0.135	1.48	300 0.120 .03			009 6.10 .77			232 5.25 -.83			232 84.75 -.83		
360	0.130	.96	Avg 0.120											
444	0.128	.84	028 0.119 -.13											

\* 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: 191.30 PPM Chromium			Meth: 202.30 PPM Acid Soluble Cobalt			Meth: 221.00 PCT Acid Soluble Copper			Meth: 221.99 PCT Acid Soluble Copper			Meth: 241.00 PCT Acid Soluble Iron		
<u>ICP</u>			<u>ICP</u>			<u>Atomic Absorption</u>			<u>Other</u>			<u>Atomic Absorption</u>		
324	82.90	-1.26	057	13.16	1.50	262	0.0100 S	20.10	300	0.0030	.42	371	0.59 s	7.77
393	80.10	-1.89	035	12.80	1.35	043	0.0037	1.27	Avg	0.0025		055	0.40	1.55
444	68.10 s	-4.64	065	11.55	.69	Avg	0.0032		402	0.0010	-1.27	397	0.38	.92
027	60.00 s	-6.48	393	10.37	.10	450	0.0032	-.31				043	0.37	.79
			Avg	10.24		095	0.0030	-.67	Meth: 221.XX PCT			105	0.36	.44
Meth: 191.99 PPM Chromium			247	10.10	-.09	105	0.0031	-1.16	<u>Acid Soluble Copper</u>			262	0.36	.43
<u>Other</u>			106	10.00	-.12				422	0.0105 s	15.04	351	0.36	.36
409	86.15	-.71	419	10.00	-.12	Meth: 221.30 PCT Acid Soluble Copper			262	0.0100 s	13.99	Avg	0.35	
			390	9.09	-.58	<u>ICP</u>			444	0.0054 s	4.79	296	0.32	-.83
			232	9.15	-.61	422	0.0105 s	14.15	255	0.0040	1.89	095	0.32	-.92
Meth: 191.XX PPM Chromium			324	8.45	-.91	444	0.0054 S	4.59	231	0.0040	1.89	177	0.31	-1.13
009	94.20	1.49	102	8.04	-1.11	231	0.0040	1.89	288	0.0035 R	1.34	029	0.30	-1.52
230	93.90	1.35	230	7.03	-1.62	255	0.0040	1.89	409	0.0035	.91	028	0.26 S	-2.80
247	93.50	1.24				288	0.0035 R	1.34	247	0.0034	.59	Meth: 241.30 PCT Acid Soluble Iron		
450	92.00	.88	Meth: 202.99 PPM Acid Soluble Cobalt			247	0.0034	.67	057	0.0033	.58	<u>ICP</u>		
106	91.50	.77	<u>Other</u>			057	0.0033	.66	233	0.0033	.56	096	0.51 s	6.88
390	90.70	.74	409	11.80	-.71	233	0.0033	.65	450	0.0032	.35	432	0.46 s	5.03
419	90.00	.42	Meth: 202.XX PPM Acid Soluble Cobalt			009	0.0030	.17	Avg	0.0031		405	0.45 s	3.91
Avg	88.22		450	16.60 s	3.81	035	0.0031	.14	035	0.0031	-.10	090	0.40	1.64
065	87.78	-.15	009	13.40	1.71	102	0.0030	.01	102	0.0030	-.12	106	0.39	1.39
037	86.43	-.50	057	13.16	1.62	419	0.0030	.01	300	0.0030	-.12	354	0.38	1.13
102	86.84	-.59	035	12.80 R	1.46	Avg	0.0030		095	0.0030	-.12	057	0.38	1.00
409	86.15	-.62	409	11.80	.87	065	0.0028	-.30	419	0.0030	-.12	324	0.38	.94
035	85.75	-.67	065	11.55	.76	390	0.0028	-.36	009	0.0030	-.15	230	0.38	.93
096	85.00	-.75	393	10.37	.13	324	0.0027	-.55	065	0.0028	-.46	230	0.38	.93
232	84.75	-.82	Avg	10.16		423	0.0026	-.67	390	0.0028	-.51	433	0.38	.85
324	82.90	-1.25	247	10.10	-.06	230	0.0025	-1.03	105	0.0031 R	-.71	023	0.37	.59
393	80.10	-1.89	106	10.00	-.09	393	0.0026 R	-1.19	324	0.0027	-.73	288	0.36 R	.57
444	68.10 s	-4.70	419	10.00	-.09	433	0.0024	-1.21	423	0.0026	-.85	426	0.37	.53
027	60.00 s	-6.58	390	9.09	-.57	041	0.0020	-1.87	230	0.0025	-1.24	247	0.37	.48
			232	9.15	-.61	405	0.0004 S	-4.88	393	0.0026 R	-1.36	292	0.37	.48
Meth: 202.30 PPM Acid Soluble Cobalt			390	9.09	-.57	Meth: 221.99 PCT Acid Soluble Copper			433	0.0024	-1.43	422	0.37	.46
<u>ICP</u>			232	9.15	-.61	<u>Other</u>			041	0.0020	-2.14	419	0.36	.46
450	16.60 s	3.58	324	8.45	-.92	409	0.0035	.85	402	0.0010 A	-4.16	360	0.37	.34
009	13.40	1.59	102	8.04	-1.13				405	0.0004 s	-5.37	231	0.37	.34
			230	7.03	-1.66							102	0.37	.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: 241.30 PCT			Meth: 241.XX PCT			Meth: 241.XX PCT			Meth: 261.00 PCT			Meth: 261.30 PCT		
<u>Acid Soluble Iron</u>			<u>Acid Soluble Iron</u>			<u>Acid Soluble Iron</u>			<u>Acid Soluble Manganese</u>			<u>Acid Soluble Manganese</u>		
<u>ICP</u>			<u>ICP</u>			<u>ICP</u>			<u>AA</u>			<u>ICP</u>		
131	0.36	.21	230	0.38	.95	300	0.28	-2.90	055	0.395	1.17	023	0.366	-.51
255	0.36	.20	433	0.38	.88	028	0.26 s	-3.51	351	0.401	1.14	106	0.375	-.59
009	0.36	.15	397	0.38	.79	042	0.15 s	-7.65	043	0.375	.58	390	0.363	-.62
Avg	0.36		023	0.37	.66	Meth: 251.30 PPM			Avg	0.360		232	0.362	-.66
390	0.35	-.37	043	0.37	.65	Lead			262	0.355	-.18	433	0.361	-.70
035	0.35	-.39	426	0.37	.62	<u>ICP</u>			397	0.340	-.53	233	0.360	-.71
444	0.35	-.57	247	0.37	.59	247	4.25	1.59	177	0.339	-.58	300	0.360	-.71
393	0.35	-.70	292	0.37	.59	419	3.35	.90	296	0.323	-1.00	444	0.360	-.74
232	0.34	-.74	422	0.37	.57	393	2.93	.57	095	0.305	-1.49	231	0.365	-.77
423	0.34	-.76	288	0.36 R	.55	Avg	2.20		105	0.247 s	-4.07	027	0.361	-.79
233	0.34	-.82	360	0.37	.48	450	2.00	-.15	Meth: 261.11 PCT			426	0.355	-.93
027	0.33	-1.50	231	0.37	.44	230	1.02	-.92	<u>Acid Soluble Manganese</u>			096	0.371 R	-1.01
065	0.33	-1.55	419	0.36	.43	106	1.00	-.93	<u>AA</u>			065	0.340	-1.48
041	0.32	-1.81	102	0.37	.43	102	0.85	-1.05	029			0.355	.71	
114	0.30	-2.72	255	0.36	.37	Meth: 251.99 PPM			Meth: 261.30 PCT			Meth: 261.31 PCT		
300	0.28 s	-3.87	131	0.36	.35	Lead			<u>Acid Soluble Manganese</u>			<u>ICP</u>		
Meth: 241.99 PCT			105	0.36	.30	<u>Other</u>			292			230		
<u>Acid Soluble Iron</u>			009	0.36	.29	409			2145 s			0.398		
<u>Other</u>			262	0.36	.22	251.99 PPM			2.145 s			.71		
402	0.35	.63	351	0.36	.15	Meth: 251.XX PPM			0.440			Meth: 261.99 PCT		
Avg	0.35		402	0.35	.06	Lead			0.435			<u>Acid Soluble Manganese</u>		
234	0.34	-1.05	Avg	0.35		247			0.410			<u>Other</u>		
042	0.15 S	-17.16	035	0.35	-.11	419			0.406			234		
Meth: 241.XX PCT			390	0.35	-.20	393			0.400			037		
<u>Acid Soluble Iron</u>			444	0.35	-.35	Avg			0.400			402		
371	0.59 s	8.69	393	0.35	-.38	2.13			.79			402		
096	0.51 s	5.72	232	0.34	-.39	450			.75			Avg		
432	0.46 s	4.22	423	0.34	-.40	409			.55			042		
405	0.45 A	3.34	233	0.34	-.50	230			.51			255		
055	0.40	1.52	234	0.34	-.63	106			.50			0349 s		
090	0.40	1.52	027	0.33	-1.00	102			.42			Meth: 261.XX PCT		
106	0.39	1.32	065	0.33	-1.04	Meth: 261.00 PCT			0.382			<u>Acid Soluble Manganese</u>		
354	0.38	1.10	296	0.32	-1.23	<u>Acid Soluble Manganese</u>			0.385			292		
057	0.38	1.00	041	0.32	-1.25	<u>AA</u>			0.382			234		
324	0.38	.96	095	0.32	-1.34	450			.13			432		
			177	0.31	-1.58	028			0.379			041		
			114	0.30	-1.98	450			0.374			450		
			029	0.30	-2.03	028			0.368			0.410 R		
						028			-.43			0.410 R		

\* 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: 261.XX PCT			Meth: 261.XX PCT			Meth: 289.30 PPM			Meth: 289.XX PPM			Meth: 301.XX PPM		
<u>Acid Soluble Manganese</u>			<u>Acid Soluble Manganese</u>			<u>Molybdenum</u>			<u>Molybdenum</u>			<u>Selenium</u>		
090	0.410	1.44	397	0.340	-1.17	ICP			444	4.30 s	-4.92	409	0.55	-.17
354	0.406	1.17	065	0.340	-1.18	433	7.45	.26				065	0.55 R	-.46
028	0.404	1.17	177	0.339	-1.22	057	7.35	.13	Meth: 291.30 PPM			296	0.12	-.64
055	0.395	1.14	022	0.330	-1.66	419	7.35	.13	Nickel			450	0.00	-.76
351	0.401	.98	296	0.323	-1.77	Avg	7.29		<u>ICP</u>					
114	0.400	.91	095	0.305	-2.40	232	7.20	-.20	247	37.50	1.85	Meth: 311.99 PCT		
422	0.400	.90	105	0.247 s	-5.60	009	7.15	-.22	009	36.35	1.34	Sodium		
230	0.398	.89				065	7.05	-.37	444	35.44	.95	<u>Other</u>		
035	0.398	.86	Meth: 281.00 PPM			102	7.09	-.38	102	33.98	.43	422	0.77 s	11.10
057	0.391	.65	Mercury			106	7.00	-.44	450	34.00	.28	057	0.44	2.18
423	0.392	.63	<u>Atomic Absorption</u>			230	5.68	-2.51	106	33.50	.23	288	0.37	.60
393	0.390	.57	230	0.03	-.71	288	4.50 S	-4.40	Avg	33.37		Avg	0.36	
106	0.375	.52				444	4.30 S	-4.76	065	32.83	-.28	009	0.36	-.24
043	0.375	.52	Meth: 281.30 PPM			Meth: 289.99 PPM			390	32.20	-.59	102	0.35	-.34
288	0.380	.51	Mercury			Molybdenum			037	31.79	-.71	035	0.34	-.55
324	0.385	.43	<u>ICP</u>			<u>Other</u>			232	31.75	-.79	232	0.34	-.61
360	0.382	.40	393	0.26	.71	409	7.10	.71	035	31.25	-.99	423	0.34	-.75
102	0.382	.29				Meth: 289.XX PPM			324	29.85	-1.59	405	0.09 s	-7.54
037	0.375	.23	Meth: 281.99 PPM			<u>Molybdenum</u>			Meth: 301.30 PPM			Meth: 321.00 PCT		
402	0.374	.04	Mercury			035	16.75 s	15.48	Selenium			Acid Soluble Zinc		
Avg	0.374		<u>Other</u>			324	8.85 R	2.65	<u>ICP</u>			<u>Atomic Absorption</u>		
009	0.368	-.21	300	0.03	.71	247	8.35	1.74	393	2.14	1.21	029	0.521 s	4.20
131	0.374	-.29				450	8.00	1.17	Avg	0.90		055	0.450	1.97
023	0.366	-.30	Meth: 281.XX PPM			393	7.76	.80	065	0.55 X	-.51	450	0.433	1.24
390	0.363	-.39	Mercury			433	7.45	.29	450	0.00	-.87	262	0.410	1.08
042	0.372	-.41	393	0.26	1.32	057	7.35	.15	Meth: 301.99 PPM			351	0.414	.58
232	0.362	-.43	Avg	0.10		419	7.35	.15	Selenium			028	0.402	.53
433	0.361	-.46	230	0.03	-.61	Avg	7.27		<u>Other</u>			Avg	0.401	
233	0.360	-.47	300	0.03	-.62	232	7.20	-.20	409	0.55	.87	177	0.393	-.28
300	0.360	-.47				009	7.15	-.21	Avg	0.33		296	0.390	-.47
444	0.360	-.50	Meth: 289.30 PPM			409	7.10	-.36	296	0.12	-.87	105	0.399	-.60
027	0.361	-.58	Molybdenum			065	7.05	-.36	Meth: 301.XX PPM			397	0.380	-.72
231	0.365	-.60	<u>ICP</u>			102	7.09	-.37	<u>Selenium</u>			043	0.374	-.93
262	0.355	-.67	035	16.75 s	14.90	106	7.00	-.44	393	2.14	1.58	095	0.369	-1.12
426	0.355	-.68	324	8.85 R	2.53	230	5.68	-2.58	Avg	0.70		371	0.059 s	-11.77
029	0.355	-.81	247	8.35	1.66	288	4.50 s	-4.54						
096	0.371	-.89	450	8.00	1.11									
255	0.349	-1.08	393	7.76	.75									

\* 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: 321.30 PCT			Meth: 321.99 PCT			Meth: 321.XX PCT								
Acid Soluble Zinc			Acid Soluble Zinc			Acid Soluble Zinc								
<u>ICP</u>			<u>Other</u>											
288	0.460	1.93	402	0.401	.65	102	0.402	-.19	035	0.399	-.18			
057	0.455	1.72	114	0.400	.61	177	0.393	-.37	102	0.402	-.19			
023	0.450	1.56	Avg	0.390		009	0.398	-.41	009	0.398	-.41			
090	0.445	1.39	042	0.370	-1.31	390	0.400	-.41	390	0.400	-.41			
426	0.439	1.17				300	0.390	-.48	300	0.390	-.48			
230	0.431	.95	Meth: 321.XX PCT			296	0.390	-.57	296	0.390	-.57			
360	0.431	.90	<u>Acid Soluble Zinc</u>			028	0.402	-.58	028	0.402	-.58			
292	0.420	.86	029	0.521 s	4.47	131	0.388	-.59	131	0.388	-.59			
106	0.430	.85	288	0.460	2.13	231	0.390	-.61	231	0.390	-.61			
432	0.415	.62	055	0.450 R	2.07	233	0.387	-.63	233	0.387	-.63			
393	0.420	.61	057	0.455	1.91	105	0.399	-.66	105	0.399	-.66			
255	0.412	.58	023	0.450	1.75	444	0.385	-.75	444	0.385	-.75			
041	0.420	.49	090	0.445	1.57	397	0.380	-.86	397	0.380	-.86			
354	0.414	.42	426	0.439	1.34	022	0.380	-.93	022	0.380	-.93			
409	0.410	.38	450	0.433	1.27	043	0.374	-1.08	043	0.374	-1.08			
422	0.413	.23	262	0.410 R	1.14	042	0.370	-1.26	042	0.370	-1.26			
405	0.410	.13	230	0.431	1.10	095	0.369	-1.28	095	0.369	-1.28			
Avg	0.406		360	0.431	1.05	096	0.362	-1.53	096	0.362	-1.53			
027	0.403	-.11	106	0.430	1.00	423	0.356	-1.77	423	0.356	-1.77			
324	0.400	-.22	292	0.420	.97	419	0.355	-1.79	419	0.355	-1.79			
433	0.400	-.23	393	0.420	.73	065	0.348	-2.04	065	0.348	-2.04			
102	0.402	-.23	432	0.415	.71	371	0.059 s	-12.79	371	0.059 s	-12.79			
035	0.399	-.28	232	0.405	.66									
390	0.400	-.44	255	0.412	.66									
009	0.398	-.45	041	0.420	.63									
300	0.390	-.58	037	0.405	.62									
037	0.405	-.59	351	0.414	.58									
232	0.405	-.63	354	0.414	.53									
131	0.388	-.67	409	0.410	.45									
231	0.390	-.68	422	0.413	.36									
233	0.387	-.71	405	0.410	.26									
444	0.385	-.82	Avg	0.403										
022	0.380	-1.00	027	0.403	.00									
096	0.362	-1.58	402	0.401	-.10									
423	0.356	-1.81	114	0.400	-.11									
419	0.355	-1.83	324	0.400	-.11									
065	0.348	-2.07	433	0.400	-.13									

\* 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	2	0.00	1.14	0.32	050.99	17	- 0.21	1.29	0.34
001.99	4	0.00	1.06	0.17	050.XX	74	- 0.18	1.59	0.29
001.XX	6	0.00	1.03	0.17	060.00	5	1.88	4.26	0.69
002.99	3	0.00	0.94	0.49	060.XX	5	1.88	4.26	0.69
002.XX	3	0.00	0.94	0.49	101.00	3	- 104.8	118.26	3.99
009.10	3	0.00	1.11	0.11	101.30	20	3.32	13.22	0.45
009.XX	3	0.00	1.11	0.11	101.XX	24	1.63	13.43	0.52
010.11	9	1.21	3.75	0.21	121.00	14	- 0.74	3.11	0.34
010.12	4	0.00	1.08	0.09	121.30	35	0.47	2.00	0.40
010.60	58	0.26	2.10	0.32	121.99	4	- 0.12	1.59	0.46
010.99	6	- 0.64	1.83	0.28	121.XX	53	0.06	2.38	0.44
010.XX	76	0.23	2.42	0.37	131.00	2	0.00	1.22	0.02
020.10	7	0.00	0.91	0.46	131.30	3	0.00	1.10	0.17
020.20	19	0.38	1.63	0.53	131.XX	5	- 0.17	1.01	0.11
020.40	6	- 0.45	1.35	0.82	144.01	18	- 0.24	1.18	0.37
020.50	9	- 2.09	6.32	0.32	144.02	3	- 5.91	10.27	0.09
020.99	4	- 15.53	19.53	6.08	144.99	21	0.17	3.54	0.17
020.XX	43	- 1.11	6.19	0.66	144.XX	42	- 0.42	3.30	0.19
030.10	2	1.06	1.50	2.06	151.30	7	0.27	1.18	0.66
030.40	2	0.00	1.11	0.37	151.XX	8	0.26	1.20	0.64
030.XX	5	0.40	1.27	0.71	165.00	9	0.065	0.982	0.209
040.40	2	0.00	0.46	0.80	165.99	21	0.816	4.498	3.038
040.50	2	0.00	1.20	0.16	165.XX	30	0.601	3.992	2.687
040.XX	7	0.00	1.03	0.12	171.XX	2	0.000	1.225	0.000
041.10	17	- 0.18	1.12	0.56	181.30	16	- 0.03	0.96	0.44
041.40	4	0.00	1.07	0.12	181.99	2	0.00	1.02	0.48
041.50	12	0.31	1.44	0.34	181.XX	18	- 0.03	0.96	0.42
041.60	13	- 0.06	0.98	0.37	190.XX	2	0.00	1.13	0.33
041.99	3	- 4.61	8.00	2.03	191.30	17	- 0.65	2.09	0.26
041.XX	40	- 0.33	1.79	0.66	191.XX	18	- 0.63	2.07	0.27
048.20	3	0.00	1.00	0.40	202.30	14	0.23	1.29	0.46
048.XX	5	0.00	1.03	0.23	202.XX	15	0.32	1.32	0.47
050.00	18	- 1.76	5.21	0.38	221.00	5	4.0207	9.0227	0.4876
050.30	11	- 0.04	0.98	0.17	221.30	21	0.6659	3.5427	0.3985
050.31	2	0.00	1.22	0.08	221.99	3	0.0000	1.1179	0.0146
050.50	6	0.00	1.04	0.09	221.XX	29	0.8326	4.1878	0.3889
050.51	13	0.00	1.00	0.18	241.00	12	0.41	2.62	0.12
050.60	7	0.61	1.87	0.31	241.30	35	0.33	1.89	0.48
050.61	10	0.00	1.00	0.23	241.99	3	- 5.72	9.93	0.57



## 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
241.XX	50	0.21	2.23	0.33					
251.30	7	0.00	1.04	0.03					
251.XX	8	0.00	1.03	0.03					
261.00	11	- 0.152	1.359	0.939					
261.30	31	2.149	12.056	0.368					
261.99	5	0.643	3.284	2.663					
261.XX	49	1.226	8.849	0.683					
281.XX	3	0.000	1.066	0.275					
289.30	16	0.51	4.24	0.72					
289.XX	17	0.50	4.26	0.72					
291.30	12	0.00	0.99	0.23					
291.XX	12	0.00	0.99	0.23					
301.30	3	0.00	1.08	0.24					
301.99	2	0.00	1.22	0.05					
301.XX	5	- 0.03	0.94	0.20					
311.99	9	0.39	4.81	0.22					
311.XX	9	0.39	4.81	0.22					
321.00	13	- 0.587	3.632	0.547					
321.30	36	0.000	0.960	0.301					
321.99	3	0.000	1.092	0.196					
321.XX	51	- 0.147	2.127	0.389					