

- Pass 1 Results for 88 Labs - - Pass 2 Results for 88 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	12	3.07	0.07	0.03	11	3.07	0.07	0.02
Ammoniacal Nitrogen, Other		001.99	13	3.07	0.15	0.06	13	3.07	0.15	0.06
Method Group 001.XX PCT			25	3.07	0.11	0.04	24	3.06	0.11	0.04
Ammon & Nitrate N, Devarda	892.01	009.10	4	3.16	0.09	0.09	4	3.16	0.09	0.09
Total Nitrogen, Modified Comprehensive	978.02	010.11	8	3.19	0.10	0.02	7	3.19	0.10	0.01
Total Nitrogen, Salicylic	955.04D	010.12	6	3.12	0.06	0.01	6	3.12	0.06	0.01
Total Nitrogen, Combustion		010.60	52	3.21	0.12	0.05	49	3.20	0.11	0.05
Total Nitrogen, Other		010.99	7	3.19	0.15	0.06	7	3.19	0.15	0.06
Method Group 010.XX PCT			73	3.20	0.12	0.05	70	3.19	0.11	0.04
Total Phosphate, Grav Quimociac	962.02	020.10	6	9.94	0.13	0.11	6	9.94	0.13	0.11
Total Phosphate, Spectrometric	958.01	020.20	21	9.91	0.24	0.12	21	9.91	0.24	0.12
Total Phosphate, Automated	978.01	020.40	6	9.80	0.18	0.16	5	9.85	0.10	0.08
Total Phosphate, ICP		020.50	8	10.05	0.29	0.11	9	10.14	0.37	0.10
Total Phosphate, Other		020.99	4	9.78	0.19	0.06	4	9.78	0.19	0.06
Method Group 020.XX PCT			46	9.92	0.25	0.12	44	9.92	0.23	0.10
Insoluble Phosphate, Spectrometric	963.03C	030.20	1	0.05	0.00	0.00	1	0.05	0.00	0.00
Insoluble Phosphate, ICP		030.50	1	0.07	0.03	0.04	1	0.07	0.03	0.04
Method Group 030.XX PCT			2	0.06	0.02	0.02	2	0.06	0.02	0.02
InDir Available Phosphate, Spectrometri	960.02	040.20	2	9.85	0.06	0.09	2	9.85	0.06	0.09
InDir Available Phosphate, ICP		040.50	2	9.99	0.33	0.06	2	9.99	0.33	0.06
Method Group 040.XX PCT			4	9.92	0.24	0.08	4	9.92	0.24	0.08
Dir Available Phosphate, Grav Quimociac	960.03E	041.10	9	9.95	0.06	0.08	9	9.95	0.06	0.08
Dir Available Phosphate, Spectrometric	960.03D	041.20	2	9.93	0.26	0.08	2	9.93	0.26	0.08
Dir Available Phosphate, Automated	978.01	041.40	2	9.66	0.27	0.36	2	9.66	0.27	0.36
Dir Available Phosphate, ICP		041.50	9	9.97	0.30	0.12	8	9.95	0.28	0.06
Dir Available Phosphate, EDTA Extract .	993.01	041.60	11	9.88	0.21	0.10	11	9.88	0.21	0.10
Dir Available Phosphate, Other		041.99	2	9.91	0.03	0.05	2	9.91	0.03	0.05
Method Group 041.XX PCT			35	9.92	0.22	0.11	33	9.92	0.20	0.08
Water Soluble Phosphate, Spectrometric	970.01	048.20	2	8.53	0.30	0.21	2	8.53	0.30	0.21
Water Soluble Phosphate, ICP		048.50	1	8.49	0.04	0.06	1	8.49	0.04	0.06
Method Group 048.XX PCT			3	8.51	0.23	0.16	3	8.51	0.23	0.16
Soluble Potash, STPB Oxalate	958.02	050.00	14	19.27	0.53	0.09	13	19.28	0.54	0.06
Soluble Potash, AA (Oxalate)		050.30	6	19.56	0.67	0.22	6	19.56	0.67	0.22
Soluble Potash, AA (Citrate)		050.31	1	18.99	0.28	0.40	1	18.99	0.28	0.40
Soluble Potash, ICP (Oxalate)		050.50	7	19.42	0.47	0.32	6	19.30	0.27	0.16
Soluble Potash, ICP (Citrate)		050.51	11	19.48	0.65	0.29	10	19.52	0.65	0.22
Soluble Potash, Flame (Oxalate)	983.02(a)	050.60	5	19.17	0.71	0.03	5	19.17	0.71	0.03
Soluble Potash, Flame (Citrate)	983.02(b)	050.61	4	19.43	0.62	0.24	4	19.43	0.62	0.24
Soluble Potash, Other		050.99	25	19.08	0.77	0.22	24	19.05	0.76	0.19

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Method	AOAC Ref.	Method Code	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups
Method Group 050.XX PCT			74	19.29	0.69	0.21	69	19.24	0.66	0.16
Free Water, Vacuum Oven	965.08B	060.00	6	0.68	0.12	0.02	6	0.68	0.12	0.02
Free Water, Karl Fischer	972.01	060.20	1	0.38	0.01	0.01	1	0.38	0.01	0.01
Method Group 060.XX PCT			7	0.63	0.15	0.02	7	0.63	0.15	0.02
Acid Soluble Calcium, AA	945.04	101.00	9	6.20	0.14	0.09	9	6.20	0.14	0.09
Acid Soluble Calcium, ICP		101.30	33	6.18	0.40	0.15	29	6.20	0.38	0.09
Acid Soluble Calcium, Other		101.99	4	6.41	0.67	0.29	4	6.41	0.67	0.29
Method Group 101.XX PCT			47	6.19	0.41	0.15	42	6.19	0.40	0.10
Acid Soluble Magnesium, AA	984.01	121.00	11	2.99	0.30	0.04	11	2.99	0.30	0.04
Acid Soluble Magnesium, ICP		121.30	34	2.88	0.36	0.10	31	2.91	0.30	0.07
Acid Soluble Magnesium, Other		121.99	2	2.62	0.66	0.15	2	2.62	0.66	0.15
Method Group 121.XX PCT			47	2.90	0.37	0.09	44	2.92	0.33	0.07
Water Soluble Magnesium, AA		131.00	2	4.09	1.93	0.05	2	4.09	1.93	0.05
Water Soluble Magnesium, ICP		131.30	3	2.73	0.30	0.10	3	2.73	0.30	0.10
Water Soluble Magnesium, Other		131.99	2	1.33	0.98	0.04	2	1.33	0.98	0.04
Method Group 131.XX PCT			7	2.72	1.51	0.07	6	2.66	1.64	0.03
Sulfur, Gravimetric	980.02a	144.01	15	10.30	0.57	0.17	13	10.43	0.35	0.11
Sulfur, Gravimetric	980.02b	144.02	1	11.31	0.08	0.12	1	11.31	0.08	0.12
Sulfur, Spectrometric		144.70	3	9.93	0.85	0.08	3	9.93	0.85	0.08
Sulfur, Other		144.99	24	10.01	0.56	0.23	23	10.05	0.53	0.20
Method Group 144.XX PCT			43	10.14	0.61	0.20	40	10.15	0.60	0.15
Arsenic, Atomic Absorption		151.00	2	2.97	0.79	0.21	2	2.97	0.79	0.21
Arsenic, ICP		151.30	9	3.75	1.02	0.33	9	3.75	1.02	0.33
Method Group 151.XX PPM			11	3.61	1.02	0.31	10	3.51	1.00	0.24
Acid Soluble Boron, Spectrometric	982.01	165.00	7	0.152	0.022	0.016	6	0.154	0.020	0.008
Acid Soluble Boron, Titrimetric	949.02	165.70	1	0.175	0.007	0.010	1	0.175	0.007	0.010
Acid Soluble Boron, Other		165.99	24	0.183	0.027	0.005	23	0.181	0.025	0.005
Method Group 165.XX PCT			32	0.176	0.028	0.008	30	0.178	0.027	0.005
Water Soluble Boron, Other		171.99	1	0.187	0.001	0.001	1	0.187	0.001	0.001
Cadmium, Atomic Absorption		181.00	4	1.63	0.71	0.09	4	1.63	0.71	0.09
Cadmium, ICP		181.30	12	1.73	0.46	0.19	11	1.70	0.44	0.11
Cadmium, Other		181.99	1	1.00	0.00	0.00	1	1.00	0.00	0.00
Method Group 181.XX PPM			17	1.66	0.54	0.16	15	1.61	0.53	0.07
Water Soluble Chlorine, Titrimetric ...	928.02	190.00	10	11.63	1.31	0.14	10	11.63	1.31	0.14
Water Soluble Chlorine, Other		190.99	2	9.66	2.17	0.09	2	9.66	2.17	0.09
Method Group 190.XX PCT			12	11.30	1.61	0.13	12	11.30	1.61	0.13
Chromium, Atomic Absorption		191.00	1	89.05	0.07	0.10	1	89.05	0.07	0.10
Chromium, ICP		191.30	11	80.44	15.87	4.04	11	80.44	15.87	4.04
Method Group 191.XX PPM			12	81.15	15.36	3.71	12	81.15	15.36	3.71

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Method	AOAC Ref.	Method Code	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups
Acid Soluble Cobalt, AA		202.00	1	24.20	0.00	0.00	1	24.20	0.00	0.00
Acid Soluble Cobalt, ICP	965.11	202.30	11	23.68	7.54	2.14	11	23.68	7.54	2.14
Method Group 202.XX PPM			12	23.72	7.20	1.96	12	23.72	7.20	1.96
Acid Soluble Copper, Atomic Absorption	975.01	221.00	3	0.0013	0.0003	0.0002	3	0.0013	0.0003	0.0002
Acid Soluble Copper, ICP		221.30	10	0.0009	0.0002	0.0001	8	0.0010	0.0003	0.0000
Acid Soluble Copper, Other		221.99	1	0.0009	0.0000	0.0000	1	0.0009	0.0000	0.0000
Method Group 221.XX PCT			14	0.0010	0.0003	0.0001	13	0.0010	0.0002	0.0001
Acid Soluble Iron, Atomic Absorption	980.01	241.00	8	0.49	0.08	0.01	7	0.50	0.08	0.01
Acid Soluble Iron, ICP		241.30	34	0.49	0.07	0.03	32	0.48	0.06	0.02
Acid Soluble Iron, Other		241.99	1	0.61	0.01	0.02	1	0.61	0.01	0.02
Method Group 241.XX PCT			43	0.49	0.07	0.02	41	0.49	0.07	0.02
Lead, Atomic Absorption		251.00	2	4.60	3.41	0.10	2	4.60	3.41	0.10
Lead, ICP		251.30	11	2.97	1.07	0.28	11	2.97	1.07	0.28
Lead, Other		251.99	1	0.40	0.28	0.40	1	0.40	0.28	0.40
Method Group 251.XX PPM			14	3.02	1.75	0.26	14	3.02	1.75	0.26
Acid Soluble Manganese, AA	972.02a	261.00	7	1.162	0.082	0.080	7	1.162	0.082	0.080
Acid Soluble Manganese, AA	972.02b	261.11	2	1.177	0.047	0.051	2	1.177	0.047	0.051
Acid Soluble Manganese, ICP	972.02a	261.30	29	1.167	0.112	0.062	27	1.157	0.102	0.050
Acid Soluble Manganese, ICP	972.02b	261.31	2	1.080	0.138	0.171	2	1.080	0.138	0.171
Acid Soluble Manganese, Other		261.99	3	1.202	0.104	0.010	3	1.202	0.104	0.010
Method Group 261.XX PCT			43	1.165	0.106	0.066	40	1.158	0.098	0.053
Water Soluble Manganese, Atomic Abs	972.03	271.00	1	0.145	0.007	0.010	1	0.145	0.007	0.010
Water Soluble Manganese, ICP	972.03	271.30	2	0.363	0.013	0.015	2	0.363	0.013	0.015
Water Soluble Manganese, Other		271.99	1	0.275	0.007	0.010	1	0.275	0.007	0.010
Method Group 271.XX PCT			4	0.286	0.096	0.013	4	0.286	0.096	0.013
Mercury, Atomic Absorption		281.00	1	0.03	0.01	0.01	1	0.03	0.01	0.01
Mercury, ICP		281.30	2	0.05	0.03	0.00	2	0.05	0.03	0.00
Method Group 281.XX PPM			3	0.05	0.02	0.00	3	0.05	0.02	0.00
Molybdenum, ICP		289.30	12	7.01	1.22	0.51	11	6.91	1.19	0.37
Method Group 289.XX PPM			12	7.01	1.22	0.51	11	6.91	1.19	0.37
Nickel, Atomic Absorption		291.00	3	30.33	11.93	0.80	3	30.33	11.93	0.80
Nickel, ICP		291.30	14	33.38	7.45	1.96	13	33.84	7.42	1.37
Method Group 291.XX PPM			17	32.85	8.26	1.76	16	33.18	8.32	1.27
Selenium, Atomic Absorption		301.00	1	1.35	0.07	0.10	1	1.35	0.07	0.10
Selenium, ICP		301.30	3	3.46	2.76	0.32	3	3.46	2.76	0.32
Method Group 301.XX PPM			4	2.93	2.53	0.26	4	2.93	2.53	0.26
Sodium, Atomic Absorption	983.04	311.00	1	0.45	0.01	0.01	1	0.45	0.01	0.01
Sodium, Other		311.99	8	0.47	0.02	0.01	7	0.47	0.02	0.01
Method Group 311.XX PCT			9	0.47	0.02	0.01	8	0.46	0.02	0.01

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Method	AOAC Ref.	Method Code	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups
Acid Soluble Zinc, Atomic Absorption ..	975.02	321.00	8	0.011	0.001	0.001	8	0.011	0.001	0.001
Acid Soluble Zinc, ICP		321.30	31	0.010	0.002	0.001	28	0.010	0.002	0.000
Acid Soluble Zinc, Other		321.99	2	0.011	0.001	0.000	2	0.011	0.001	0.000
Method Group 321.XX PCT			41	0.011	0.002	0.001	37	0.010	0.002	0.000
Water Soluble Zinc, Other		325.99	1	0.010	0.001	0.002	1	0.010	0.001	0.002

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 001.10 PCT Ammoniacal Nitrogen <u>MgO Distillation</u>			Meth: 001.XX PCT Ammoniacal Nitrogen			Meth: 010.11 PCT Total Nitrogen <u>Modified Comprehensi</u>			Meth: 010.60 PCT Total Nitrogen <u>Combustion</u>			Meth: 010.60 PCT Total Nitrogen <u>Combustion</u>		
090	3.23	2.29	090	3.23	1.50	510	3.99 s	7.75	231	3.30	.94	444	3.06	-1.33
405	3.15	1.13	405	3.15	.80	309	3.36	1.66	007	3.20 R	.93	351	3.04	-1.49
456	3.10	.38	169	3.13	.72	470	3.31	1.17	482	3.30	.93	023	3.05	-1.53
397	3.09	.28	096	3.10	.39	Avg	3.19		307	3.29	.89	157	3.03	-1.66
309	3.08	.08	117	3.10	.35	105	3.18	-.14	508	3.29	.84	136	3.02	-1.77
Avg	3.07		456	3.10	.33	474	3.18	-.14	073	3.28	.71	162	2.91	-2.63
444	3.06	-.22	397	3.09	.28	456	3.17 R	-.42	042	3.27	.63	489	2.49 s	-6.56
504	3.06	-.37	309	3.08	.17	114	3.11	-.78	452	3.27	.63			
105	3.04	-.60	371	3.08	.17	211	3.11	-.83	055	3.26	.53	Meth: 010.99 PCT		
481	3.03	-.78	Avg	3.06		371	3.09	-1.02	405	3.25	.51	Total Nitrogen		
177	3.01	-.97	444	3.06	-.01	455	2.55 s	-6.25	029	3.22	.44	<u>Other</u>		
416	2.99	-1.28	504	3.06	-.15				443	3.25	.43	493	3.40	1.46
498	2.98 R	-1.64	105	3.04	-.26	Meth: 010.12 PCT			043	3.22	.36	415	3.34	1.03
230	0.28 s	-42.03	481	3.03	-.36	Total Nitrogen			292	3.24	.34	506	3.24	.59
			177	3.01	-.46	<u>Salicylic</u>			377	3.22	.34	Avg	3.19	
			027	3.05	-.46	185	3.23	1.61	291	3.22	.16	460	3.15	-.28
Meth: 001.99 PCT Ammoniacal Nitrogen <u>Other</u>			487	3.05	-.46	504	3.14	.22	177	3.21	.10	487	3.15	-.41
510	3.29	1.51	500	3.01	-.47	397	3.13	.20	325	3.20	.02	420	3.02	-1.15
506	3.24	1.26	416	2.99	-.65	117	3.13	.09	324	3.20	.02	500	3.01	-1.18
415	3.25	1.23	498	2.98	-.88	Avg	3.12		Avg	3.20				
169	3.13	.49	368	2.93	-1.19	498	3.10	-.33	389	3.20	-.14	Meth: 010.XX PCT		
096	3.10	.25	420	2.88	-1.70	481	3.02	-1.64	354	3.20	-.17	Total Nitrogen		
117	3.10	.20	231	2.81	-2.39				096	3.19	-.29	510	3.99 s	7.26
371	3.08	.07	230	0.28 s	-25.19	Meth: 010.60 PCT			360	3.18	-.32	072	3.71 s	4.75
Avg	3.07					Total Nitrogen			106	3.18	-.33	247	3.56 A	3.33
487	3.05	-.37	Meth: 009.10 PCT			<u>Combustion</u>			086	3.16	-.38	493	3.40	1.97
027	3.05	-.37	Ammon & Nitrate N			072	3.71 s	4.74	035	3.20	-.42	034	3.38	1.75
500	3.01	-.42	<u>Devarda</u>			247	3.56 A	3.30	233	3.18	-.45	406	3.38	1.71
368	2.93	-.97	258	3.48 s	4.62	034	3.38	1.70	450	3.15	-.64	095	3.37	1.69
420	2.88	-1.35	090	3.25	1.02	406	3.38	1.65	102	3.16	-.72	309	3.36	1.56
231	2.81	-1.88	444	3.16	.12	095	3.37	1.63	105	3.12	-.78	230	3.36	1.53
			Avg	3.16		230	3.36	1.47	451	3.12	-.78	415	3.34	1.38
			169	3.13	-.52	472	3.25 R	1.17	234	3.11	-.86	483	3.32	1.21
Meth: 001.XX PCT			497	3.09	-1.47	483	3.32	1.14	356	3.11	-.87	049	3.32	1.19
<u>Ammoniacal Nitrogen</u>						049	3.32	1.13	486	3.09	-1.05	472	3.25 R	1.18
510	3.29	2.07				025	3.31	1.11	402	3.10	-1.13	025	3.31	1.17
506	3.24 R	1.74				040	3.30	.94	368	3.07	-1.20	470	3.31	1.10

* 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: 020.50 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>		
231	3.30	1.01	487	3.15	-.58	<u>Spectrometric</u>			<u>ICP</u>			451	10.13	.97
040	3.30	1.01	117	3.13	-.59	508	10.26	1.44	025	18.97 s	23.63	292	10.14	.94
482	3.30	.99	102	3.16	-.67	450	10.24	1.43	234	10.83 S	1.86	368	10.12	.88
307	3.29	.95	105	3.12	-.69	309	10.23	1.31	483	10.64 S	1.77	307	10.09	.84
007	3.20 R	.92	451	3.12	-.69	510	10.20	1.19	157	10.60	1.24	474	10.07	.65
508	3.29	.90	114	3.11	-.72	292	10.14	.94	291	10.16	.11	324	9.98	.59
506	3.24	.79	356	3.11	-.77	474	10.07	.66	Avg	10.05		406	10.05	.54
073	3.28	.78	211	3.11	-.77	324	9.98	.58	368	10.12	-.14	493	10.00	.40
042	3.27	.70	234	3.11	-.77	406	10.05	.55	451	10.13	-.26	443	9.96	.35
452	3.27	.70	498	3.10	-.81	420	9.97	.32	307	10.09	-.30	420	9.97	.30
055	3.26	.60	371	3.09	-.95	Avg	9.91		482	9.92	-.62	470	9.96	.18
405	3.25	.58	486	3.09	-.95	489	9.91	-.03	247	9.77	-.97	Avg	9.92	
443	3.25	.51	402	3.10	-1.04	258	9.84	-.29	402	9.61	-1.41	470	9.92	-.04
029	3.22	.48	368	3.07	-1.10	405	9.91	-.31	389	8.99 S	-3.05	489	9.91	-.07
292	3.24	.42	444	3.06	-1.22	504	9.84	-.33	Meth: 020.99 PCT			456	9.92	-.17
035	3.20	.41	351	3.04	-1.38	231	9.91	-.33	Total Phosphate			500	9.88	-.19
043	3.22	.40	023	3.05	-1.43	371	9.82	-.40	Other			211	9.88	-.20
377	3.22	.39	157	3.03	-1.55	169	9.81	-.45	443	9.96	1.02	105	9.89	-.29
185	3.23	.35	481	3.02	-1.59	416	9.69	-.91	500	9.88	.54	405	9.91	-.33
096	3.19	.27	420	3.02	-1.60	356	9.63	-1.36	Avg	9.78		258	9.84	-.34
291	3.22	.24	500	3.01	-1.64	506	9.60	-1.39	460	9.78	-.13	482	9.92	-.34
354	3.20	.18	136	3.02	-1.67	481	9.61	-1.45	487	9.50	-1.46	231	9.91	-.35
177	3.21	.17	162	2.91	-2.50	497	9.46	-1.93	455	8.66 S	-5.91	504	9.84	-.38
389	3.20	.15	455	2.55 s	-5.84	Meth: 020.40 PCT			Meth: 020.XX PCT			371	9.82	-.45
324	3.20	.10	489	2.49 s	-6.37	Total Phosphate			Total Phosphate			090	9.81	-.47
325	3.20	.10	Meth: 020.10 PCT			Automated			025	18.97 s	38.79	169	9.81	-.51
Avg	3.19		Total Phosphate			470	9.96	1.17	234	10.83 s	3.90	096	9.80	-.63
474	3.18	-.12	Grav Quimociac			456	9.92	.86	483	10.64 s	3.59	247	9.77	-.63
105	3.18	-.12	114	10.29 s	3.18	Avg	9.85		157	10.60	2.92	042	9.77	-.63
360	3.18	-.26	157	10.13	1.91	042	9.77	-.74	114	10.29 R	1.89	460	9.78	-.63
106	3.18	-.29	493	10.00	.60	096	9.80	-.93	508	10.26	1.46	105	9.78	-.67
086	3.16	-.29	Avg	9.94		105	9.78	-.99	450	10.24	1.45	416	9.69	-.99
456	3.17	-.39	470	9.92	-.15	027	9.57 R	-3.95	309	10.23	1.33	402	9.61	-1.35
460	3.15	-.40	211	9.88	-.48	035	7.90 s	-20.83	510	10.20	1.20	356	9.63	-1.45
233	3.18	-.42	105	9.89	-.57				157	10.13	1.16	506	9.60	-1.48
504	3.14	-.50	090	9.81	-.95				291	10.16	1.02	481	9.61	-1.55
397	3.13	-.55	322	9.03 s	-6.79							487	9.50	-1.80
450	3.15	-.58										027	9.57 R	-1.90

* 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: 020.XX PCT			Meth: 040.XX PCT			Meth: 041.50 PCT			Meth: 041.XX PCT			Meth: 041.XX PCT		
<u>Total Phosphate</u>			<u>InDir Available Phos</u>			<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>		
497	9.46	-2.04	072	10.28	1.54	ICP			300	11.22 s	6.58	102	9.09 s	-4.23
322	9.03 s	-3.83	Avg	9.92		360	10.37	1.50	360	10.37	2.30	397	9.04 s	-4.45
389	8.99 s	-3.97	504	9.84	-.38	007	10.20 R	1.39	007	10.20 R	2.09	325	8.80 s	-6.20
455	8.66 s	-5.43	405	9.86	-.39	043	10.12	.60	034	10.26	1.87	Meth: 048.20 PCT		
035	7.90 s	-9.03	247	9.71	-.91	368	10.07	.56	498	10.15	1.21	<u>Water Soluble Phosph</u>		
Meth: 030.20 PCT			Meth: 041.10 PCT			377			368			<u>Spectrometric</u>		
<u>Insoluble Phosphate</u>			<u>Dir Available Phosph</u>			Avg			055			420		
<u>Spectrometric</u>			<u>Grav Quimociac</u>			452			231			Avg		
405	0.05	.00	072	9.99	1.09	023	9.71	-.83	351	10.03	.57	096	8.30	-.79
Meth: 030.50 PCT			055			486			072			Meth: 048.50 PCT		
<u>Insoluble Phosphate</u>			049			325			177			<u>Water Soluble Phosph</u>		
ICP			177			Meth: 041.60 PCT			055			ICP		
247	0.07	-.71	040	9.95	.81	<u>Dir Available Phosph</u>			049			247		
Meth: 030.XX PCT			493			<u>EDTA Extract</u>			493			8.49		
<u>Insoluble Phosphate</u>			485			034			485			Meth: 048.XX PCT		
247	0.07	1.12	Avg	9.95		231	10.06	.85	136	9.96	.24	<u>Water Soluble Phosph</u>		
Avg	0.06		185	9.89	-1.12	351	10.03	.69	377	9.95	.18	420		
405	0.05	-.50	105	9.87	-1.29	043	9.90	.46	230	9.92	.15	Avg		
Meth: 040.20 PCT			102			136			177			247		
<u>InDir Available Phos</u>			Meth: 041.20 PCT			177			Avg			096		
<u>Spectrometri</u>			<u>Dir Available Phosph</u>			Avg			105			Meth: 050.00 PCT		
405	9.86	1.14	<u>Spectrometric</u>			029			452			<u>Soluble Potash</u>		
Avg	9.85		498	10.15	.87	105			185			<u>STPB Oxalate</u>		
504	9.84	-.45	Avg	9.93		073			029			055		
Meth: 040.50 PCT			504			106			105			470		
<u>InDir Available Phos</u>			Meth: 041.40 PCT			354			043			497		
ICP			<u>Dir Available Phosph</u>			472			105			114		
072	10.28	.87	<u>Automated</u>			397			027			489		
Avg	9.99		300	11.22 S	5.84	Meth: 041.99 PCT			504			211		
247	9.71	-.86	027	9.73	.29	<u>Dir Available Phosph</u>			073			416		
Meth: 040.20 PCT			Avg			<u>Other</u>			106			231		
<u>Insoluble Phosphate</u>			095			230			354			Avg		
ICP			9.60			Avg			095			072		
072	10.28	.87	-1.19			9.91			9.60 R			258		
Avg	9.99		Avg			105			486			090		
247	9.71	-.86	9.66			9.90			472			18.98		
Meth: 040.50 PCT			095			Avg			095			-0.03		
<u>InDir Available Phos</u>			9.60			9.90			9.60 R			-0.12		
ICP			-1.19			-0.71			-2.25			-0.56		
072	10.28	.87	Avg			Avg			-2.57					
Avg	9.99		9.66			9.91			-3.33					
247	9.71	-.86	9.60			9.90								

* 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: 050.00 PCT			Meth: 050.51 PCT			Meth: 050.99 PCT			Meth: 050.XX PCT			Meth: 050.XX PCT		
Soluble Potash			Soluble Potash			Soluble Potash			Soluble Potash			Soluble Potash		
<u>STPB Oxalate</u>			<u>ICP (Citrate)</u>			<u>Other</u>								
049	19.10 R	-.56	007	19.95	.96	450	22.02 s	4.41	034	20.20	1.49	169	19.28	.07
230	18.35	-1.73	072	19.98	.71	474	21.15	2.77	307	19.99 R	1.29	072	19.27	.03
102	18.04	-2.28	291	19.82	.45	307	19.99 R	1.35	007	19.95 R	1.27	Avg	19.24	
			377	19.81	.45	451	19.87	1.08	185	20.07	1.25	292	19.24	-.01
			023	19.66	.37	360	19.72	.88	072	19.98	1.12	136	19.15	-.16
Meth: 050.30 PCT			Avg 19.52			042 19.69 .85			055 19.97 1.10			460 19.15 -.27		
Soluble Potash			485 19.25 -.54			177 19.61 .76			451 19.87 .95			106 19.09 -.29		
<u>AA (Oxalate)</u>			389 18.88 -.99			368 19.56 .74			291 19.82 .87			090 18.98 -.41		
498	20.55	1.50	483	19.03 R	-1.05	300	19.47	.56	470	19.82	.87	049	19.10	-.43
185	20.07	.77	354	18.69	-1.28	105	19.46	.54	377	19.81	.86	055	18.94	-.47
157	19.75	.30	452	18.60	-1.43	234	19.38	.44	470	19.76	.78	356	19.07	-.47
Avg	19.56		025	9.96 S	-14.71	043	19.34	.43	497	19.76	.78	444	18.93	-.48
136	19.15	-.61	096	7.58 s	-18.37	508	19.32	.36	157	19.75	.77	472	18.99	-.49
356	19.07	-.83				504	19.26	.30	360	19.72	.72	389	18.88	-.55
040	18.75	-1.23				460	19.15	.24	042	19.69	.69	486	18.82	-.77
			Meth: 050.60 PCT			Avg 19.05			023 19.66 .69			040 18.75 -.78		
			Soluble Potash			444 18.93 -.15			086 19.64 .63			483 19.03 R -.80		
			<u>Flame (Oxalate)</u>			486 18.82 -.47			368 19.56 .60			354 18.69 -.84		
			470	19.82	.92	500	18.50	-.72	177	19.61	.60	456	18.66	-.90
			510	19.46	.41	481	18.45	-.81	029	19.61	.59	452	18.60	-.99
			351	19.41	.35	487	18.45	-.81	114	19.62	.56	500	18.50	-1.13
			169	19.28	.17	455	18.38	-.88	489	19.61	.56	481	18.45	-1.22
			Avg 19.17			322 18.35 -.91			397 19.56 .51			487 18.45 -1.22		
			309 17.87 -1.83			482 18.30 -.98			300 19.47 .36			455 18.38 -1.32		
						402 18.22 -1.10			485 19.25 .33			322 18.35 -1.36		
			Meth: 050.61 PCT			506 18.00 -1.43			105 19.46 .32			230 18.35 -1.37		
			Soluble Potash			325 17.75 -1.70			510 19.46 .32			482 18.30 -1.43		
			<u>Flame (Citrate)</u>						043 19.34 .26			402 18.22 -1.57		
			035	20.94 s	3.22				351 19.41 .26			102 18.04 -1.83		
			034	20.20	1.30				211 19.41 .25			506 18.00 -1.94		
			029	19.61	.35				234 19.38 .21			309 17.87 -2.08		
			Avg 19.43						420 19.34 .16			325 17.75 -2.27		
			105	19.27	-.29				504 19.26 .14			025 9.96 s -14.08		
			456	18.66	-1.27				231 19.32 .12			096 7.58 s -17.69		
									508 19.32 .12					
									416 19.31 .11					
									105 19.27 .10					
									258 19.26 .09					
			Meth: 050.51 PCT											
			Soluble Potash											
			<u>ICP (Citrate)</u>											
043	20.57	1.62												

* 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: 060.00 PCT			Meth: 101.00 PCT			Meth: 101.30 PCT			Meth: 101.XX PCT			Meth: 121.00 PCT		
Free Water			Acid Soluble Calcium			Acid Soluble Calcium			Acid Soluble Calcium			Acid Soluble Magnesi		
<u>Vacuum Oven</u>			<u>AA</u>			<u>ICP</u>			041 6.37 X .46			<u>AA</u>		
096	0.91	2.01	Avg	6.20		482	5.92	-.74	472	6.36	.44	169	3.60	2.00
405	0.70	.23	485	6.17	-.25	354	5.87	-.85	247	6.34	.39	504	3.39	1.31
Avg	0.68		258	6.20	-.54	508	5.84	-.95	055	6.32	.33	043	3.04	.18
456	0.64	-.34	157	6.09	-.82	324	5.86 R	-1.16	371	6.31	.30	029	3.03	.17
247	0.64	-.39	043	6.07	-.91	474	5.48	-1.88	481	6.20	.26	Avg	2.99	
416	0.60	-.64	504	6.04	-1.17	023	5.51 R	-1.98	397	6.28	.24	485	2.98	-.05
007	0.58	-.85	506	5.33 s	-6.35	291	5.32	-2.27	029	6.24	.20	258	2.96	-.12
						035	5.29	-2.42	258	6.20	.19	040	2.95	-.16
						230	4.58 s	-4.21	420	6.20	.14	157	2.93	-.20
Meth: 060.20 PCT			Meth: 101.30 PCT			096 2.63 s -9.32			090 6.20 .12			498 2.90 -.32		
Free Water			Acid Soluble Calcium						Avg 6.19			506 2.73 -.88		
<u>Karl Fischer</u>			<u>ICP</u>			Meth: 101.99 PCT			360 6.18 -.05			481 2.40 -1.94		
504	0.38	.71	450	6.94	1.94	Acid Soluble Calcium			095 6.17 -.05					
			483	6.68 R	1.42	<u>Other</u>			231 6.19 -.06			Meth: 121.30 PCT		
Meth: 060.99 PCT			114 6.70 1.30			498 7.10 1.05			485 6.17 -.06			Acid Soluble Magnesi		
Free Water			073 6.60 1.04			486 6.62 .69			157 6.13 -.14			<u>ICP</u>		
<u>Other</u>			106 6.59 1.03			042 6.44 .10			157 6.09 -.26			027 3.61 2.34		
510	2.52 S	.00	307	6.51	1.02	Avg 6.41			368 6.13 -.28			106 3.34 R 1.98		
			086	6.52	.86	415 5.49 -1.38			043 6.07 -.29			472 3.44 1.75		
Meth: 060.XX PCT			027 6.51 .85						389 6.04 -.38			483 3.24 1.08		
<u>Free Water</u>			102 6.28 R .75			Meth: 101.XX PCT			504 6.04 -.38			450 3.21 1.00		
510	2.52 s	12.32	433	6.38	.48	<u>Acid Soluble Calcium</u>			177 6.01 -.43			114 3.21 .99		
096	0.91	1.80	117	6.34	.46	498 7.10 2.32			482 5.92 -.69			452 3.15 .79		
405	0.70	.43	041	6.37 X	.45	450 6.94 1.91			354 5.87 -.80			371 3.12 .70		
247	0.64	.10	472	6.36	.43	486 6.62 R 1.51			508 5.84 -.89			117 3.10 .65		
456	0.64	.07	247	6.34	.38	483 6.68 R 1.39			324 5.86 R -1.10			360 3.07 .55		
Avg	0.63		371	6.31	.29	114 6.70 1.29			415 5.49 -1.76			177 3.05 .49		
416	0.60	-.20	397	6.28	.22	073 6.60 1.03			474 5.48 -1.80			433 3.03 .38		
007	0.58	-.36	Avg	6.20		106 6.59 1.02			023 5.51 R -1.89			420 3.00 .32		
504	0.38	-1.70	231	6.19	-.07	307 6.51 1.01			291 5.32 -2.17			368 2.97 .20		
			095	6.17	-.08	086 6.52 .86			506 5.33 -2.20			055 2.92 .17		
Meth: 101.00 PCT			090 6.20 -.12			027 6.51 .84			035 5.29 -2.32			095 2.95 .16		
Acid Soluble Calcium			420 6.20 -.14			102 6.28 R .73			230 4.58 s -4.05			157 2.93 .07		
<u>AA</u>			157 6.13 -.17			040 6.46 .70			096 2.63 s -8.99			Avg 2.91		
040	6.46	1.93	368	6.13	-.31	042 6.44 .65						482 2.91 .00		
055	6.32	.88	389	6.04	-.42	433 6.38 .49						231 2.90 -.14		
481	6.20	.72	177	6.01	-.47	117 6.34 .47						247 2.86 -.17		
029	6.24	.51												

* 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: 121.30 PCT			Meth: 121.XX PCT			Meth: 121.XX PCT			Meth: 131.XX PCT			Meth: 144.99 PCT		
<u>Acid Soluble Magnesi</u>			<u>Acid Soluble Magnesi</u>			<u>Acid Soluble Magnesi</u>			<u>Water Soluble Magnes</u>			<u>Sulfur</u>		
<u>ICP</u>			<u>ICP</u>			<u>ICP</u>			<u>Gravimetric</u>			<u>Other</u>		
041	2.86 X	-.19	504	3.39	1.44	474	2.46	-1.41	486	2.18	-.29	371	10.90	1.61
090	2.87	-.24	483	3.24	.97	481	2.40	-1.58	498	0.48	-1.33	072	10.64	1.12
086	2.83	-.27	042	3.19	.93	508	2.32	-1.84	Meth: 144.01 PCT			307	10.59	1.10
354	2.75	-.51	450	3.21	.90	486	2.20	-2.20	<u>Sulfur</u>			483	10.45	1.01
397	2.75	-.56	114	3.21	.90	415	2.06	-2.63	<u>Gravimetric</u>			086	10.56	1.00
023	2.75	-.62	452	3.15	.71	230	1.80 A	-3.42	055	10.98	1.60	389	10.46	.77
291	2.72	-.65	371	3.12	.62	096	1.22 s	-5.19	040	10.75	.94	452	10.35	.57
324	2.71 R	-.91	117	3.10	.58	Meth: 131.00 PCT			095	10.73	.90	368	10.11	.46
102	2.54	-1.23	360	3.07	.49	<u>Water Soluble Magnes</u>			043	10.60	.49	472	10.18	.27
035	2.55	-1.27	177	3.05	.43	<u>AA</u>			114	10.58	.47	177	10.15	.25
474	2.46	-1.50	043	3.04	.38	309			157	10.50	.35	027	10.11	.13
508	2.32	-1.96	029	3.03	.36	Avg			324	10.50	.35	029	10.11	.12
486	2.20	-2.36	433	3.03	.33	029			Avg	10.43		025	10.06	.03
230	1.80 A	-3.68	420	3.00	.28	Meth: 131.30 PCT			504	10.38	-.16	Avg	10.05	
096	1.22 s	-5.59	485	2.98	.19	<u>Water Soluble Magnes</u>			029	10.36	-.21	351	9.99	-.19
Meth: 121.70 PCT			368	2.97	.17	<u>ICP</u>			485	10.35	-.28	117	9.95	-.20
<u>Acid Soluble Magnesi</u>			055	2.92	.15	230			102	10.18	-.74	450	9.89	-.30
<u>Titrimetric</u>			258	2.96	.14	Avg			231	10.10	-1.00	354	9.86	-.36
510	4.20 S	.00	095	2.95	.14	027			230	10.19 R	-1.40	360	10.01	-.55
Meth: 121.99 PCT			040	2.95	.10	368			481	9.60	-2.42	247	9.75	-.56
<u>Acid Soluble Magnesi</u>			157	2.93	.05	Meth: 131.99 PCT			498	8.65 A	-5.17	482	10.00	-.57
<u>Other</u>			157	2.93	.05	<u>Water Soluble Magnes</u>			233	2.60 s	-22.67	157	9.30	-1.44
460	4.67 S	3.09	Avg	2.92		<u>Other</u>			Meth: 144.02 PCT			291	9.11	-1.77
042	3.19	.88	482	2.91	-.02	486			<u>Sulfur</u>			023	9.18 R	-1.89
Avg	2.62		498	2.90	-.10	Avg			<u>Gravimetric</u>			486	8.59	-2.76
415	2.06	-.85	231	2.90	-.13	498			292			096	3.93 s	-11.57
Meth: 121.XX PCT			247	2.86	-.17	Meth: 131.XX PCT			Meth: 144.70 PCT			Meth: 144.XX PCT		
<u>Acid Soluble Magnesi</u>			041	2.86 X	-.19	<u>Water Soluble Magnes</u>			<u>Sulfur</u>			<u>Sulfur</u>		
460	4.67 s	5.33	090	2.87	-.23	486			474			292		
510	4.20 s	3.90	086	2.83	-.27	Avg			474			11.31		
027	3.61	2.14	354	2.75	-.50	498			11.02			11.31		
169	3.60	2.09	397	2.75	-.54	Avg			11.02			1.92		
106	3.34 R	1.82	023	2.75	-.60	309			9.93			1.44		
472	3.44	1.60	506	2.73	-.60	230			508			1.38		
Meth: 121.30 PCT			291	2.72	-.62	Avg			506			1.24		
<u>Acid Soluble Magnesi</u>			324	2.71 R	-.86	027			9.43			1.00		
460	4.67 s	5.33	102	2.54	-1.16	368			9.34			.97		
510	4.20 s	3.90	035	2.55	-1.20	029			-.70			.82		
027	3.61	2.14				Meth: 131.30 PCT						.81		
169	3.60	2.09				<u>Water Soluble Magnes</u>								
106	3.34 R	1.82				309								
472	3.44	1.60				230								
Meth: 121.30 PCT						Avg								
<u>Acid Soluble Magnesi</u>						027								
<u>ICP</u>						368								
041	2.86 X	-.19				029								
090	2.87	-.24				2.41								
086	2.83	-.27				-.15								
354	2.75	-.51												
397	2.75	-.56												
023	2.75	-.62												
291	2.72	-.65												
324	2.71 R	-.91												
102	2.54	-1.23												
035	2.55	-1.27												
474	2.46	-1.50												
508	2.32	-1.96												
486	2.20	-2.36												
230	1.80 A	-3.68												
096	1.22 s	-5.59												

* 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: 144.XX PCT			Meth: 151.00 PPM			Meth: 165.00 PCT			Meth: 165.99 PCT			Meth: 165.XX PCT		
<u>Sulfur</u>			<u>Arsenic</u>			<u>Acid Soluble Boron</u>			<u>Acid Soluble Boron</u>			<u>Acid Soluble Boron</u>		
483	10.45 R	.76	<u>Atomic Absorption</u>			<u>Spectrometric</u>			<u>Other</u>			023	0.142 R	-1.80
043	10.60	.75	136	3.65	.86	481	0.160	.32	291	0.155	-1.03	055	0.131 R	-1.85
114	10.58	.72	Avg	2.97		258	0.157	.27	324	0.155	-1.03	230	0.113	-2.46
086	10.56	.71	498	2.30	-.88	Avg	0.154		397	0.152	-1.13			
230	10.19 R	.69	Meth: 151.30 PPM			508	0.152	-.09	230	0.113	-2.67	Meth: 171.99 PCT		
324	10.50	.60	<u>Arsenic</u>			506	0.135	-.96	Meth: 165.XX PCT			Water Soluble Boron		
157	10.50	.60	<u>ICP</u>			055	0.131	-1.30	<u>Acid Soluble Boron</u>			<u>Other</u>		
389	10.46	.51	474	5.35	1.57	023	0.142 R	-1.65	117	0.244	2.48	027	0.187	.71
504	10.38	.37	247	4.75	.98	Meth: 165.70 PCT			042	0.230	1.99	Meth: 181.00 PPM		
029	10.36	.35	368	4.60	.97	<u>Acid Soluble Boron</u>			483	0.206	1.06	Cadmium		
452	10.35	.33	450	4.25	.51	<u>Titrimetric</u>			106	0.205	1.03	<u>Atomic Absorption</u>		
485	10.35	.33	Avg	3.75		504	0.175	.71	433	0.201	.87	504	2.34	1.00
177	10.15	.13	230	3.28	-.47	Meth: 165.99 PCT			231	0.200	.82	498	1.97	.48
472	10.18	.11	096	3.25	-.54	<u>Acid Soluble Boron</u>			368	0.200	.82	136	1.65	.08
102	10.18	.05	102	3.26	-.59	<u>Other</u>			043	0.196	.68	Avg	1.63	
Avg	10.15		481	2.65	-1.07	117	0.244	2.52	095	0.190	.44	506	0.56	-1.50
029	10.11	-.07	452	2.35	-1.37	042	0.230 R	2.00	482	0.185	.32	Meth: 181.30 PPM		
027	10.11	-.08	Meth: 151.XX PPM			483	0.206	1.02	029	0.187	.31	Cadmium		
025	10.06	-.15	<u>Arsenic</u>			106	0.205	.99	472	0.180	.11	<u>ICP</u>		
231	10.10	-.19	474	5.35	1.84	433	0.201	.83	360	0.181	.10	086	2.63	2.13
351	9.99	-.30	247	4.75	1.24	231	0.200	.77	452	0.180	.08	035	2.08 R	1.51
117	9.95	-.34	368	4.60 R	1.20	368	0.200	.77	009	0.180	.07	482	2.00	.97
368	10.11	-.40	450	4.25	.76	043	0.196	.62	Avg	0.178		452	1.88	.41
450	9.89	-.43	136	3.65	.15	095	0.190	.38	485	0.178	-.01	102	1.87	.39
354	9.86	-.48	Avg	3.51		482	0.185	.27	504	0.175	-.22	247	1.85	.36
360	10.01	-.53	230	3.28	-.24	Avg	0.181		498	0.175	-.22	450	1.75	.16
482	10.00	-.56	096	3.25	-.36	009	0.180	-.02	354	0.172	-.25	Avg	1.70	
247	9.75	-.66	102	3.26	-.44	452	0.180	-.04	086	0.172	-.25	481	1.65	-.16
481	9.60	-.92	481	2.65	-.86	360	0.181	-.06	307	0.173	-.25	096	1.50	-.45
508	9.43	-1.19	452	2.35	-1.16	485	0.178	-.10	486	0.160	-.69	474	1.27	-.99
506	9.34	-1.35	498	2.30	-1.22	472	0.180	-.11	481	0.160	-.69	368	1.25	-1.03
157	9.30	-1.43	Meth: 165.00 PCT			498	0.175	-.29	258	0.157	-.84	230	1.04	-1.51
291	9.11	-1.72	<u>Acid Soluble Boron</u>			307	0.173	-.34	291	0.155	-.90			
023	9.18 R	-1.81	<u>Spectrometric</u>			354	0.172	-.35	324	0.155	-.90			
498	8.65	-2.50	029	0.187	1.65	086	0.172	-.35	508	0.152	-.99			
486	8.59	-2.59				486	0.160	-.81	397	0.152	-.99			
096	3.93 s	-10.30							506	0.135	-1.64			
233	2.60 s	-12.50												

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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: 181.99 PPM</u>			<u>Meth: 190.99 PCT</u>			<u>Meth: 191.30 PPM</u>			<u>Meth: 202.30 PPM</u>			<u>Meth: 221.30 PCT</u>		
<u>Cadmium</u>			<u>Water Soluble Chlori</u>			<u>Chromium</u>			<u>Acid Soluble Cobalt</u>			<u>Acid Soluble Copper</u>		
<u>Other</u>			<u>Other</u>			<u>ICP</u>			<u>ICP</u>			<u>ICP</u>		
487	1.00	.00	029	11.54	.87	Avg	80.44		Avg	23.68		106	0.0010	.17
			Avg	9.66		482	69.75	-.67	482	20.10	-.49	Avg	0.0010	
			368	7.79	-.87	035	70.05	-.68	102	18.65	-.70	096	0.0009	-.04
<u>Meth: 181.XX PPM</u>			<u>Meth: 190.XX PCT</u>			<u>Meth: 191.XX PPM</u>			<u>Meth: 202.XX PPM</u>			<u>Meth: 221.99 PCT</u>		
<u>Cadmium</u>			<u>Water Soluble Chlori</u>			<u>Chromium</u>			<u>Acid Soluble Cobalt</u>			<u>Acid Soluble Copper</u>		
086	2.63	1.94	055	14.09	1.73	009	97.50	1.10	450	33.10	1.35	230	0.0006	-1.32
504	2.34	1.39	506	13.60	1.44	096	94.80	.90	095	33.00	1.30	354	0.0000 s	-3.54
035	2.08 R	1.36	481	11.60	.19	086	92.36	.73	086	30.46	.94			
482	2.00 R	.93	504	11.57	.17	506	89.05	.51	009	30.00	.87			
498	1.97	.69	029	11.54	.15	368	87.90	.45	368	24.55	.41			
452	1.88	.51	029	11.49	.12	102	85.72	.41	096	26.66	.41			
102	1.87	.49	043	11.38	.07	452	85.66	.29	506	24.20	.07			
247	1.85	.46	Avg	11.30		Avg	81.15		Avg	23.72				
450	1.75	.28	102	11.28	-.01	482	69.75	-.74	482	20.10	-.51			
481	1.65	.12	498	11.05	-.16	035	70.05	-.75	102	18.65	-.73			
136	1.65	.12	444	10.87	-.28	230	61.05	-1.32	035	17.15	-.93			
Avg	1.61		397	9.36	-1.21	474	47.50	-2.19	230	15.80	-1.11			
096	1.50	-.22	368	7.79	-2.18	481	0.01 s	-5.28	474	11.00	-1.77			
474	1.27	-.66												
368	1.25	-.70	<u>Meth: 191.00 PPM</u>			<u>Meth: 202.00 PPM</u>			<u>Meth: 221.00 PCT</u>			<u>Meth: 221.XX PCT</u>		
230	1.04	-1.10	<u>Chromium</u>			<u>Acid Soluble Cobalt</u>			<u>Acid Soluble Copper</u>			<u>Acid Soluble Copper</u>		
487	1.00	-1.17	<u>Atomic Absorption</u>			<u>AA</u>			<u>Atomic Absorption</u>			<u>Atomic Absorption</u>		
506	0.56	-2.00	506	89.05	.71	506	24.20	.00	506	0.0016	1.43	035	0.0016 s	2.82
			Avg	89.05					Avg	0.0013		506	0.0016 R	2.76
			481	0.01 S1259.22					043	0.0012	-.46	433	0.0016	2.48
									504	0.0012	-.50	043	0.0012	.99
												504	0.0012	.95
												368	0.0010	.16
												106	0.0010	.12
												Avg	0.0010	
												096	0.0009	-.10
												487	0.0009	-.39
												450	0.0009	-.40
												086	0.0009	-.41
												102	0.0009	-.51
												041	0.0008 X	-.76
												474	0.0008	-.83
												230	0.0006	-1.55
												354	0.0000 s	-4.05

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 241.00 PCT			Meth: 241.30 PCT			Meth: 241.XX PCT			Meth: 251.00 PPM			Meth: 251.XX PPM		
Acid Soluble Iron			Acid Soluble Iron			Acid Soluble Iron			Lead			Lead		
<u>Atomic Absorption</u>			<u>ICP</u>			<u>Atomic Absorption</u>			<u>Atomic Absorption</u>			<u>Atomic Absorption</u>		
040	3.83 s	39.75	Avg	0.48		354	0.51	.59	136	1.65	-.87	481	1.75	-.73
029	0.59	1.13	402	0.46	-.38	117	0.52	.57	487	0.40	-1.50	136	1.65	-.78
043	0.54	.55	397	0.44	-.69	231	0.53	.56	Meth: 251.30 PPM			096	1.55	-.84
485	0.53	.41	307	0.44	-.75	482	0.52	.48	Lead			487	0.40	-1.50
258	0.53	.41	247	0.43	-.83	102	0.51	.47	<u>ICP</u>			Meth: 261.00 PCT		
481	0.50	.04	035	0.43	-.87	177	0.52	.44	086	4.88	1.82	Acid Soluble Mangane		
Avg	0.50		508	0.43	-.94	096	0.51	.36	452	4.25	1.19	<u>AA</u>		
504	0.47	-.38	486	0.42	-.99	157	0.51	.30	474	3.70	.68	029	1.242	1.27
506	0.47 R	-.48	023	0.40	-1.36	472	0.51	.29	450	3.35	.48	258	1.210	.84
498	0.32	-2.11	027	0.40	-1.37	481	0.50	.19	102	3.30	.39	485	1.215	.65
Meth: 241.30 PCT			474	0.35	-2.19	420	0.50	.16	368	3.25	.35	043	1.169	.33
Acid Soluble Iron			230	0.32	-2.60	291	0.49	.15	Avg	2.97		Avg	1.162	
<u>ICP</u>			Meth: 241.99 PCT			086	0.49	.14	247	2.65	-.30	506	1.150	-.63
324	0.58 R	2.07	Acid Soluble Iron			452	0.49	-.08	230	2.06	-.85	481	1.115	-.88
041	0.58 X	1.62	<u>Other</u>			095	0.49	-.22	009	1.95	-.96	504	1.035	-1.58
433	0.56	1.22	460	0.61	.71	504	0.47	-.33	481	1.75	-1.14	Meth: 261.11 PCT		
106	0.55	1.18	Avg	0.61		402	0.46	-.43	096	1.55	-1.33	Acid Soluble Mangane		
055	0.53 R	1.10	042	0.27 S	-24.40	506	0.47	-.49	Meth: 251.99 PPM			<u>AA</u>		
483	0.54	1.02	Meth: 241.XX PCT			397	0.44	-.71	Lead			040	1.195	1.17
360	0.54	.87	Acid Soluble Iron			307	0.44	-.76	<u>Other</u>			Avg	1.177	
368	0.54	.84	040	3.83 s	48.92	247	0.43	-.84	487	0.40	-.71	498	1.160	-.37
114	0.53	.78	324	0.58 R	1.85	035	0.43	-.88	Meth: 251.XX PPM			Meth: 261.30 PCT		
354	0.51	.69	460	0.61	1.80	508	0.43	-.94	Lead			Acid Soluble Mangane		
117	0.52	.69	029	0.59	1.52	486	0.42	-.99	504	23.24 s	11.56	<u>ICP</u>		
231	0.53	.68	041	0.58 X	1.42	023	0.40	-1.33	506	7.55	2.59	307	2.986 s	17.90
482	0.52	.60	433	0.56	1.05	027	0.40	-1.34	086	4.88	1.08	106	1.540 S	3.75
102	0.51	.58	106	0.55	1.02	474	0.35	-2.10	452	4.25	.70	354	1.385 R	2.50
177	0.52	.56	055	0.53 R	.96	498	0.32	-2.45	474	3.70	.39	027	1.381	2.22
096	0.51	.47	483	0.54	.87	230	0.32	-2.47	450	3.35	.27	452	1.350	1.89
157	0.51	.40	043	0.54	.80	042	0.27 s	-3.26	102	3.30	.22	114	1.315	1.56
472	0.51	.40	360	0.54	.73	Meth: 251.00 PPM			368	3.25	.19	055	1.220 R	1.24
420	0.50	.25	368	0.54	.70	Lead			Avg	3.02		102	1.274	1.21
095	0.49	.24	114	0.53	.64	<u>Atomic Absorption</u>			247	2.65	-.21	482	1.235	.80
086	0.49	.21	485	0.53	.64	504	23.24 S	5.47	230	2.06	-.55	035	1.172	.77
291	0.49	.20	258	0.53	.62	506	7.55	.87	009	1.95	-.61	472	1.221	.71
452	0.49	.09				Avg	4.60							

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 261.30 PCT			Meth: 261.99 PCT			Meth: 261.XX PCT			Meth: 271.XX PCT			Meth: 289.30 PPM		
<u>Acid Soluble Manganese</u>			<u>Acid Soluble Manganese</u>			<u>Acid Soluble Manganese</u>			<u>Water Soluble Manganese</u>			<u>Molybdenum</u>		
<u>ICP</u>			<u>Other</u>						<u>ICP</u>					
368	1.195	.38	042	1.070	-1.27	117	1.150	-.62	486	0.275	-.13	102	6.78	-.37
360	1.190	.33				157	1.090	-.70	498	0.145	-1.48	096	6.30	-.52
433	1.183	.26	Meth: 261.XX PCT			481	1.115	-.71	Meth: 281.00 PPM			035	6.07	-.74
231	1.175	.19	<u>Acid Soluble Manganese</u>			247	1.081	-.79	<u>Mercury</u>			230	5.27	-1.39
090	1.165	.17	307	2.986 s	18.60	042	1.070	-.90	<u>Atomic Absorption</u>			474	4.70	-1.87
Avg	1.157		106	1.540 s	3.89	508	1.065	-.96	230	0.03	-.71	Meth: 289.XX PPM		
095	1.140	-.19	354	1.385 R	2.59	086	1.054	-1.14	Meth: 281.30 PPM			<u>Molybdenum</u>		
291	1.150	-.21	027	1.381	2.29	420	1.038	-1.23	<u>Mercury</u>			506	15.10 s	6.91
177	1.124	-.31	452	1.350	1.95	504	1.035	-1.28	<u>ICP</u>			452	8.16 R	1.36
402	1.130	-.33	114	1.315	1.60	324	1.150 R	-1.33	452	0.08	.87	433	8.12	1.02
397	1.115	-.41	483	1.290	1.34	230	1.010	-1.57	Avg	0.05		086	8.08	.99
009	1.150	-.49	055	1.220 R	1.28	023	1.005	-1.76	450	0.03	-.87	095	8.00	.92
486	1.100	-.56	102	1.274	1.24	041	0.983	-1.95	Meth: 281.XX PPM			450	7.75	.72
117	1.150	-.59	029	1.242	1.09	474	0.680 s	-4.87	<u>Mercury</u>			368	7.65	.63
157	1.090	-.66	460	1.245	.88	096	0.480 s	-6.90	452	0.08	1.27	009	7.25	.55
247	1.081	-.74	482	1.235	.82	Meth: 271.00 PCT			Avg	0.05		102	6.78	-.37
508	1.065	-.91	035	1.172	.80	<u>Water Soluble Manganese</u>			230	0.03	-.64	096	6.30	-.52
086	1.054	-1.08	258	1.210	.73	<u>Atomic Abs</u>			450	0.03	-.69	035	6.07	-.74
420	1.038	-1.17	472	1.221	.72	498	0.145	-.71	Meth: 289.00 PPM			230	5.27	-1.39
023	1.005	-1.68	040	1.195	.64	Meth: 271.30 PCT			<u>Molybdenum</u>			474	4.70	-1.87
041	0.983	-1.86	485	1.215	.58	<u>Water Soluble Manganese</u>			<u>Atomic Absorption</u>			Meth: 291.00 PPM		
474	0.680 s	-4.66	368	1.195	.38	<u>ICP</u>			506	15.10 S	.00	<u>Nickel</u>		
096	0.480 s	-6.62	360	1.190	.32	230	0.370	.99	Meth: 289.30 PPM			<u>Atomic Absorption</u>		
Meth: 261.31 PCT			043	1.169	.29	Avg	0.363		<u>Molybdenum</u>			136	40.25	.83
<u>Acid Soluble Manganese</u>			433	1.183	.25	368	0.355	-.72	<u>ICP</u>			506	35.55	.44
<u>ICP</u>			231	1.175	.18	Meth: 271.99 PCT			452	8.16 R	1.36	Avg	30.33	
324	1.150	1.07	090	1.165	.17	<u>Water Soluble Manganese</u>			433	8.12	1.02	498	15.20	-1.27
Avg	1.080		498	1.160	.02	<u>Other</u>			086	8.08	.99	481	0.00 S	-2.54
230	1.010	-.59	095	1.158		486	0.275	.71	095	8.00	.92	Meth: 291.30 PPM		
Meth: 261.99 PCT			291	1.150	-.22	Meth: 271.XX PCT			450	7.75	.72	<u>Nickel</u>		
<u>Acid Soluble Manganese</u>			177	1.124	-.34	<u>Water Soluble Manganese</u>			368	7.65	.63	<u>ICP</u>		
<u>Other</u>			402	1.130	-.35	230	0.370	.88	009	7.25	.55	117	43.95	1.36
483	1.290	.85	397	1.115	-.44	368	0.355	.72	Avg	6.91		247	38.85	.68
460	1.245	.42	506	1.150	-.52	Avg	0.286							
Avg	1.202		009	1.150	-.52									
			486	1.100	-.60									

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 291.30 PPM Nickel			Meth: 301.00 PPM Selenium			Meth: 311.99 PCT Sodium			Meth: 321.30 PCT Acid Soluble Zinc			Meth: 321.99 PCT Acid Soluble Zinc		
<u>ICP</u>			<u>Atomic Absorption</u>			<u>Other</u>			<u>ICP</u>			<u>Other</u>		
095	38.50	.63	481	1.35	-.71	Avg	0.47		433	0.013	1.85	042	0.012	.87
009	37.50	.50				086	0.45	-1.08	041	0.012 R	1.68	Avg	0.011	
450	36.00	.40	Meth: 301.30 PPM Selenium			482	0.44	-1.53	354	0.013	1.49	460	0.010	-.87
452	36.70	.39	<u>ICP</u>			Meth: 311.XX PCT Sodium			114	0.012 R	1.35	Meth: 321.XX PCT Acid Soluble Zinc		
096	36.65	.38	368	6.85	1.24	102	0.49 R	2.07	035	0.012 R	1.25	247	0.020 s	6.32
102	35.78	.37	Avg	3.46		354	0.49	1.34	106	0.012	1.14	482	0.015 s	4.47
368	35.95	.29	230	2.66	-.29	035	0.47	.91	307	0.012	1.14	402	0.013	1.84
086	34.56	.10	452	0.86	-.94	247	0.48	.91	360	0.011	.51	485	0.013	1.84
Avg	33.84		Meth: 301.XX PPM Selenium			096	0.47	.35	420	0.011	.50	433	0.013	1.80
035	27.50 R	-1.07	368	6.85	1.56	474	0.47	.35	177	0.010	.25	258	0.013 R	1.70
230	25.25	-1.17	Avg	2.93		Avg	0.46		474	0.011	.25	041	0.012 R	1.64
482	24.20	-1.30	230	2.66	-.12	086	0.45	-.90	452	0.010	.03	354	0.013	1.43
474	16.00	-2.41	481	1.35	-.63	506	0.45	-1.09	Avg	0.010		114	0.012 R	1.31
Meth: 291.XX PPM Nickel			452	0.86	-.82	482	0.44	-1.34	231	0.010	-.12	035	0.012 R	1.22
117	43.95	1.29	Meth: 311.00 PCT Sodium			510	0.39 s	-4.44	102	0.010	-.12	096	0.012	1.13
136	40.25	.85	<u>Atomic Absorption</u>			Meth: 321.00 PCT Acid Soluble Zinc			292	0.010	-.12	307	0.012	1.06
247	38.85	.69	506	0.45	.71	<u>Atomic Absorption</u>			072	0.010	-.12	106	0.012	1.06
095	38.50	.64				485	0.013	1.56	095	0.010	-.12	042	0.012	1.06
009	37.50	.52	Meth: 311.30 PCT Sodium			258	0.013	1.50	368	0.010	-.12	029	0.012	.85
452	36.70	.42	<u>Flame Photometric</u>			029	0.012	.50	086	0.010	-.49	040	0.011	.77
096	36.65	.42	510	0.39 S	.00	Avg	0.011		450	0.010	-.52	420	0.011	.46
450	36.00	.42	Meth: 311.99 PCT Sodium			504	0.011	-.13	486	0.010	-.54	360	0.011	.41
102	35.78	.39	<u>Other</u>			043	0.010	-.65	009	0.009	-.55	504	0.011	.41
368	35.95	.33	102	0.49 R	2.02	040	0.011	-.76	397	0.008	-1.38	023	0.011	.34
506	35.55	.28	354	0.49	1.23	506	0.010	-.88	508	0.008	-1.38	474	0.011	.15
086	34.56	.17	035	0.47	.89	481	0.010	-.88	027	0.008	-1.38	Avg	0.010	
Avg	33.18		247	0.48	.78	Meth: 321.30 PCT Acid Soluble Zinc			483	0.008	-1.51	043	0.010	-.09
035	27.50 R	-.89	096	0.47	.20	<u>ICP</u>			483	0.008	-1.51	452	0.010	-.11
230	25.25	-.96	474	0.47	.20	247	0.020 s	6.18	230	0.007	-2.07	292	0.010	-.25
482	24.20	-1.08				482	0.015 s	4.37	472	0.007 S	-2.37	072	0.010	-.25
474	16.00	-2.07				402	0.013	1.88	291	0.004 S	-3.90	460	0.010	-.25
498	15.20	-2.16										095	0.010	-.25
481	0.00 s	-3.99										481	0.010	-.25
												231	0.010	-.25
												368	0.010	-.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

<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

Acid Soluble Zinc

055	0.010	-.25
506	0.010	-.25
102	0.010	-.25
177	0.010	-.29
086	0.010	-.57
450	0.010	-.58
486	0.010	-.67
009	0.009	-.70
027	0.008	-1.57
508	0.008	-1.57
397	0.008	-1.57
483	0.008	-1.70
230	0.007	-2.29
472	0.007 s	-2.58
291	0.004 s	-4.19

Meth: 325.99 PCT

Water Soluble Zinc

Other

450	0.010 X	.71
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* 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	13	- 3.35	11.66	0.26	101.00	10	- 0.63	2.18	0.47
001.99	13	0.00	0.98	0.26	101.30	35	- 0.42	1.97	0.30
001.XX	26	- 0.91	5.05	0.27	101.99	4	0.00	1.01	0.32
009.10	5	0.70	1.69	1.48	101.XX	48	- 0.27	1.73	0.30
009.XX	5	0.70	1.69	1.48	121.00	11	0.00	1.02	0.07
010.11	10	0.13	3.42	0.22	121.30	35	- 0.24	1.48	0.30
010.12	6	0.00	1.04	0.13	121.99	3	1.03	1.98	0.13
010.60	54	0.04	1.51	0.33	121.XX	49	0.02	1.63	0.25
010.99	7	0.00	1.00	0.26	131.00	2	0.00	1.22	0.02
010.XX	76	0.05	1.73	0.31	131.30	3	0.00	1.07	0.25
020.10	8	- 0.52	2.78	0.81	131.99	2	0.00	1.22	0.02
020.20	21	0.00	0.95	0.33	131.XX	7	0.04	0.96	0.03
020.40	7	- 3.26	7.48	2.49	144.01	16	- 1.78	5.78	0.36
020.50	12	1.83	6.99	0.38	144.70	3	0.00	1.12	0.06
020.99	5	- 1.18	2.79	0.22	144.99	25	- 0.53	2.50	0.32
020.XX	50	0.45	5.88	0.59	144.XX	43	- 0.55	2.62	0.29
030.XX	2	0.00	0.71	0.71	151.00	2	0.00	1.21	0.15
040.20	2	0.00	0.28	0.84	151.30	9	0.00	1.00	0.22
040.50	2	0.00	1.22	0.11	151.XX	11	0.10	1.02	0.21
040.XX	4	0.00	1.06	0.19	165.00	7	- 0.082	0.935	0.647
041.10	10	- 1.40	4.47	0.74	165.99	24	0.082	1.060	0.146
041.20	2	0.00	1.20	0.16	165.XX	32	- 0.098	1.042	0.260
041.40	3	1.95	3.38	0.68	181.00	4	0.00	1.08	0.07
041.50	10	- 0.31	1.61	0.67	181.30	12	0.07	0.98	0.41
041.60	13	- 0.38	1.44	0.86	181.XX	17	0.10	0.99	0.29
041.99	2	0.00	0.45	0.81	190.00	10	0.00	1.02	0.07
041.XX	35	- 0.28	2.07	0.81	190.99	2	0.00	1.22	0.02
048.20	2	0.00	1.09	0.39	190.XX	11	- 0.01	1.07	0.05
048.XX	3	0.00	1.00	0.42	191.00	2	- 629.6	890.40	0.50
050.00	14	- 0.02	0.98	0.15	191.30	11	0.00	1.01	0.16
050.30	6	0.00	1.02	0.21	191.XX	13	- 0.41	1.76	0.15
050.50	8	0.97	2.04	1.05	202.30	11	0.00	1.01	0.19
050.51	13	- 2.60	6.29	0.31	202.XX	12	0.00	1.00	0.19
050.60	5	0.00	1.06	0.03	221.00	3	0.0000	0.8266	0.6146
050.61	5	0.49	1.42	0.96	221.30	12	- 0.176	1.5043	0.4074
050.99	26	0.20	1.24	0.45	221.XX	16	0.0548	1.6450	0.4897
050.XX	73	- 0.31	2.88	0.47	241.00	9	4.37	13.30	0.14
060.00	6	0.00	1.04	0.12	241.30	34	0.07	1.00	0.32
060.XX	8	1.54	4.46	0.08	241.99	2	- 12.20	17.25	0.56

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	45	1.06	7.38	0.27					
251.00	3	1.82	3.28	0.09					
251.30	11	0.00	1.01	0.18					
251.XX	15	0.77	3.14	0.13					
261.00	7	0.000	0.860	0.543					
261.11	2	0.000	0.524	0.783					
261.30	33	0.400	3.636	0.422					
261.31	2	0.000	0.722	0.700					
261.99	3	0.000	1.115	0.062					
261.XX	47	0.288	3.190	0.462					
271.30	2	0.000	0.843	0.628					
271.XX	4	0.000	1.077	0.069					
281.30	2	0.00	1.22	0.00					
281.XX	3	0.00	1.10	0.15					
289.30	12	0.09	1.00	0.32					
289.XX	13	0.61	2.12	0.31					
291.00	4	- 0.64	1.56	0.04					
291.30	14	- 0.06	1.00	0.21					
291.XX	18	- 0.26	1.34	0.17					
301.30	3	0.00	1.11	0.08					
301.XX	4	0.00	1.08	0.07					
311.99	8	0.18	1.03	0.60					
311.XX	10	- 0.29	1.76	0.54					
321.00	8	0.000	0.840	0.565					
321.30	35	0.188	1.673	0.667					
321.99	2	0.000	1.225	0.000					
321.XX	45	0.164	1.577	0.648					