

- Pass 1 Results for 82 Labs - - Pass 2 Results for 78 Labs -

Method	AOAC Ref.	Method Code	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups
Ammoniacal Nitrogen, MgO Distillation	920.03	001.10	2	22.77	26.14	0.21	2	22.77	26.14	0.21
Ammoniacal Nitrogen, Other		001.99	1	46.11	0.00	0.00	1	46.11	0.00	0.00
Method Group 001.XX PCT			3	30.55	23.56	0.14	3	30.55	23.56	0.14
Nitrogen From Urea, Urease (as N)	959.03	005.00	1	47.18	0.00	0.00	1	47.18	0.00	0.00
Nitrogen From Urea, Other		005.99	5	46.00	0.30	0.12	5	46.00	0.30	0.12
Method Group 005.XX PCT			6	46.19	0.53	0.10	5	46.31	0.49	0.05
Percent Biuret, Spec (as Biuret)	960.04	008.10	6	0.92	0.07	0.01	6	0.92	0.07	0.01
Ammon & Nitrate N, Devarda	892.01	009.10	1	2.06	0.00	0.00	1	2.06	0.00	0.00
Ammon & Nitrate N, Other		009.99	1	46.00	0.01	0.02	1	46.00	0.01	0.02
Method Group 009.XX PCT			2	24.03	25.37	0.01	2	24.03	25.37	0.01
Total Nitrogen, Modified Comprehensive	978.02	010.11	10	46.13	0.24	0.09	9	46.14	0.24	0.05
Total Nitrogen, Salicylic	955.04D	010.12	3	46.17	0.53	0.54	3	46.17	0.53	0.54
Total Nitrogen, Combustion		010.60	53	46.30	0.47	0.22	50	46.29	0.47	0.17
Total Nitrogen, Other		010.99	5	46.15	0.26	0.12	5	46.15	0.26	0.12
Method Group 010.XX PCT			71	46.26	0.44	0.20	65	46.24	0.42	0.13
Total Phosphate, ICP		020.50	1	0.08	0.01	0.01	1	0.08	0.01	0.01
Dir Available Phosphate, ICP		041.50	1	0.00	0.00	0.00	1	0.00	0.00	0.00
Dir Available Phosphate, Other		041.99	1	0.09	0.01	0.01	1	0.09	0.01	0.01
Method Group 041.XX PCT			2	0.05	0.05	0.01	2	0.05	0.05	0.01
Soluble Potash, ICP (Oxalate)		050.50	2	0.66	0.43	0.05	2	0.66	0.43	0.05
Soluble Potash, Other		050.99	2	0.12	0.14	0.00	2	0.12	0.14	0.00
Method Group 050.XX PCT			4	0.39	0.42	0.03	3	0.18	0.14	0.00
Free Water, Vacuum Oven	965.08B	060.00	2	0.35	0.26	0.01	2	0.35	0.26	0.01
Free Water, Other		060.99	1	0.29	0.01	0.01	1	0.29	0.01	0.01
Method Group 060.XX PCT			3	0.33	0.20	0.01	3	0.33	0.20	0.01
Acid Soluble Calcium, AA	945.04	101.00	1	0.91	0.01	0.01	1	0.91	0.01	0.01
Acid Soluble Calcium, ICP		101.30	10	0.84	0.14	0.02	9	0.85	0.15	0.01
Method Group 101.XX PCT			11	0.85	0.14	0.02	10	0.86	0.14	0.01
Acid Soluble Magnesium, AA	984.01	121.00	1	0.48	0.01	0.02	1	0.48	0.01	0.02
Acid Soluble Magnesium, ICP		121.30	12	0.46	0.09	0.01	12	0.46	0.09	0.01
Method Group 121.XX PCT			13	0.46	0.09	0.01	13	0.46	0.09	0.01
Sulfur, Gravimetric	980.02a	144.01	16	15.49	0.51	0.14	16	15.49	0.51	0.14
Sulfur, Gravimetric	980.02b	144.02	1	17.48	0.05	0.07	1	17.48	0.05	0.07
Sulfur, Other		144.99	24	15.08	0.84	0.21	22	15.12	0.85	0.16
Method Group 144.XX PCT			41	15.30	0.82	0.18	39	15.33	0.82	0.15
Arsenic, Atomic Absorption		151.00	1	9.55	0.21	0.30	1	9.55	0.21	0.30
Arsenic, ICP		151.30	7	9.37	5.15	0.58	6	9.46	5.58	0.34
Arsenic, Other		151.99	1	8.46	0.16	0.22	1	8.46	0.16	0.22
Method Group 151.XX PPM			9	9.29	4.52	0.51	8	9.35	4.79	0.32

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Acid Soluble Boron, Other .....		165.99	5	0.041	0.013	0.003	5	0.041	0.013	0.003
Cadmium, Atomic Absorption .....		181.00	2	0.73	0.56	0.08	2	0.73	0.56	0.08
Cadmium, ICP .....		181.30	8	1.38	1.25	0.34	7	1.10	0.97	0.07
Cadmium, Other .....		181.99	1	0.52	0.02	0.03	1	0.52	0.02	0.03
Method Group 181.XX PPM			11	1.19	1.12	0.26	10	0.97	0.86	0.07
Water Soluble Chlorine, Titrimetric ...	928.02	190.00	1	0.49	0.01	0.02	1	0.49	0.01	0.02
Water Soluble Chlorine, Other .....		190.99	1	0.00	0.00	0.00	1	0.00	0.00	0.00
Method Group 190.XX PCT			2	0.25	0.28	0.01	2	0.25	0.28	0.01
Chromium, Atomic Absorption .....		191.00	1	339.50	0.71	1.00	1	339.50	0.71	1.00
Chromium, ICP .....		191.30	10	259.74	41.31	16.20	10	259.74	41.31	16.20
Chromium, Other .....		191.99	1	76.58	8.64	12.22	1	76.58	8.64	12.22
Method Group 191.XX PPM			12	251.12	69.32	14.61	12	251.12	69.32	14.61
Acid Soluble Cobalt, AA .....		202.00	2	239.75	14.86	2.50	2	239.75	14.86	2.50
Acid Soluble Cobalt, ICP .....	965.11	202.30	15	202.22	47.69	10.66	15	202.22	47.69	10.66
Acid Soluble Cobalt, Other .....		202.99	1	79.25	5.42	7.67	1	79.25	5.42	7.67
Method Group 202.XX PPM			18	199.56	54.06	9.59	18	199.56	54.06	9.59
Acid Soluble Copper, Atomic Absorption	975.01	221.00	5	0.2252	0.0082	0.0046	5	0.2252	0.0082	0.0046
Acid Soluble Copper, ICP .....		221.30	27	0.2307	0.0184	0.0047	26	0.2314	0.0183	0.0040
Acid Soluble Copper, Other .....		221.99	2	0.2150	0.0191	0.0100	2	0.2150	0.0191	0.0100
Method Group 221.XX PCT			34	0.2290	0.0176	0.0050	31	0.2289	0.0150	0.0036
Acid Soluble Iron, Atomic Absorption ..	980.01	241.00	11	8.66	0.65	0.13	11	8.66	0.65	0.13
Acid Soluble Iron, Colormetric .....		241.20	1	9.29	0.01	0.01	1	9.29	0.01	0.01
Acid Soluble Iron, ICP .....		241.30	36	9.09	0.67	0.20	34	9.05	0.66	0.16
Acid Soluble Iron, Other .....		241.99	3	9.23	0.19	0.01	3	9.23	0.19	0.01
Method Group 241.XX PCT			51	9.01	0.67	0.17	46	9.00	0.64	0.11
Lead, Atomic Absorption .....		251.00	1	80.50	0.71	1.00	1	80.50	0.71	1.00
Lead, ICP .....		251.30	11	66.40	10.06	4.80	10	64.88	8.84	3.65
Lead, Other .....		251.99	1	52.96	0.42	0.59	1	52.96	0.42	0.59
Method Group 251.XX PPM			13	66.45	10.74	4.18	12	65.19	9.91	3.17
Acid Soluble Manganese, AA .....	972.02a	261.00	9	18.236	0.523	0.194	8	18.247	0.519	0.081
Acid Soluble Manganese, ICP .....	972.02a	261.30	27	18.944	1.194	0.329	26	18.892	1.172	0.272
Acid Soluble Manganese, ICP .....	972.02b	261.31	2	18.025	2.975	0.150	2	18.025	2.975	0.150
Acid Soluble Manganese, Other .....		261.99	7	19.188	0.786	0.384	6	19.110	0.722	0.132
Method Group 261.XX PCT			46	18.851	1.232	0.325	42	18.759	1.178	0.210
Water Soluble Manganese, Atomic Abs ...	972.03	271.00	1	17.540	0.424	0.600	1	17.540	0.424	0.600
Water Soluble Manganese, ICP .....	972.03	271.30	4	11.425	7.076	0.049	3	11.035	8.329	0.010
Water Soluble Manganese, Other .....		271.99	1	12.457	0.180	0.255	1	12.457	0.180	0.255
Method Group 271.XX PCT			6	12.616	6.110	0.175	5	11.632	6.256	0.090
Mercury, Atomic Absorption .....		281.00	1	0.03	0.00	0.01	1	0.03	0.00	0.01

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Mercury, ICP .....		281.30	2	5.00	5.83	1.00	2	5.00	5.83	1.00
Mercury, Other .....		281.99	1	0.05	0.00	0.01	1	0.05	0.00	0.01
Method Group 281.XX PPM			4	2.52	4.65	0.50	3	0.03	0.02	0.00
Molybdenum, ICP .....		289.30	11	20.18	7.82	2.97	10	20.43	7.75	1.67
Molybdenum, Other .....		289.99	2	17.27	3.17	0.39	2	17.27	3.17	0.39
Method Group 289.XX PPM			13	19.73	7.33	2.57	12	19.90	7.24	1.46
Nickel, Atomic Absorption .....		291.00	1	287.50	3.54	5.00	1	287.50	3.54	5.00
Nickel, ICP .....		291.30	12	245.29	50.40	9.33	12	245.29	50.40	9.33
Nickel, Other .....		291.99	1	111.30	6.87	9.71	1	111.30	6.87	9.71
Method Group 291.XX PPM			14	238.74	59.86	9.05	13	240.26	61.80	7.43
Selenium, ICP .....		301.30	6	74.86	47.13	10.32	6	74.86	47.13	10.32
Selenium, Other .....		301.99	2	39.67	42.08	0.57	2	39.67	42.08	0.57
Method Group 301.XX PPM			8	66.07	47.23	7.88	8	66.07	47.23	7.88
Sodium, Other .....		311.99	6	0.07	0.02	0.00	6	0.07	0.02	0.00
Acid Soluble Zinc, Atomic Absorption ..	975.02	321.00	5	0.809	0.049	0.027	4	0.798	0.042	0.009
Acid Soluble Zinc, ICP .....		321.30	24	0.875	0.097	0.033	23	0.872	0.095	0.025
Acid Soluble Zinc, Other .....		321.99	3	0.857	0.065	0.019	3	0.857	0.065	0.019
Method Group 321.XX PCT			32	0.863	0.091	0.031	31	0.860	0.089	0.025
Water Soluble Zinc, ICP .....		325.30	2	0.723	0.234	0.015	2	0.723	0.234	0.015

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: 005.XX PCT Nitrogen From Urea			Meth: 010.11 PCT Total Nitrogen <u>Modified Comprehensi</u>			Meth: 010.60 PCT Total Nitrogen <u>Combustion</u>			Meth: 010.99 PCT Total Nitrogen <u>Other</u>		
330	45.40	.87	309	46.00	-.64	470	46.16	.08	291	46.55	.57	030	46.54	1.63
Avg	22.77		397	45.85	-.95	Avg	46.14		072	46.54	.54	420	46.26	.47
232	0.13	-.87	029	45.60 R	-1.49	211	46.12	-.12	296	46.54	.53	Avg	46.15	
Meth: 001.99 PCT Ammoniacal Nitrogen <u>Other</u>			Meth: 008.10 PCT Percent Biuret <u>Spec (as Biuret)</u>			Meth: 010.12 PCT Total Nitrogen <u>Salicylic</u>			Meth: 010.60 PCT Total Nitrogen <u>Combustion</u>			Meth: 010.99 PCT Total Nitrogen <u>Other</u>		
137	46.11	.00	470	1.06	1.90	309	45.64	-2.13	070	46.41	.26	131	46.33	.14
Meth: 001.XX PCT Ammoniacal Nitrogen			Meth: 009.10 PCT Ammon & Nitrate N <u>Devarda</u>			Meth: 010.60 PCT Total Nitrogen <u>Combustion</u>			Meth: 010.60 PCT Total Nitrogen <u>Combustion</u>			Meth: 010.XX PCT Total Nitrogen		
137	46.11	.66	371	0.94	.17	105	46.06 R	-.87	420	46.35	.17	233	46.33	.14
330	45.40	.63	450	0.93	.09	397	45.85	-1.03	131	46.33	.14	390	46.34	.14
Avg	30.55		Avg	0.92		090	0.87	-.82	292	46.30	.04	292	46.30	.04
232	0.13	-1.29	456	0.90	-.31	415	0.85	-1.03	Avg	46.29		351	46.24	-.10
Meth: 005.00 PCT Nitrogen From Urea <u>Urease (as N)</u>			Meth: 009.99 PCT Ammon & Nitrate N <u>Other</u>			Meth: 010.60 PCT Total Nitrogen <u>Combustion</u>			Meth: 010.60 PCT Total Nitrogen <u>Combustion</u>			Meth: 010.60 PCT Total Nitrogen <u>Combustion</u>		
255	47.18	.00	027	46.00	.71	102	47.17	1.89	042	46.24	-.18	422	46.20	-.20
Meth: 005.99 PCT Nitrogen From Urea <u>Other</u>			Meth: 009.XX PCT Ammon & Nitrate N <u>Other</u>			Meth: 010.60 PCT Total Nitrogen <u>Combustion</u>			Meth: 010.60 PCT Total Nitrogen <u>Combustion</u>			Meth: 010.60 PCT Total Nitrogen <u>Combustion</u>		
444	46.40	1.35	027	46.00	.71	324	47.10	1.80	422	46.20	-.20	255	46.18	-.26
300	46.15	.51	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>			Meth: 010.60 PCT Total Nitrogen <u>Combustion</u>		
309	46.00	.01	460	46.45	1.31	450	47.00	1.53	057	46.11	-.38	057	46.11	-.38
Avg	46.00		114	46.44	1.28	330	46.85	1.42	037	46.12	-.39	037	46.12	-.39
397	45.85	-.52	456	46.17	.32	157	46.65 R	1.41	354	46.09	-.43	354	46.09	-.43
029	45.60	-1.46	473	46.21	.27	106	46.93	1.39	234	46.08	-.46	234	46.08	-.46
Meth: 005.XX PCT Nitrogen From Urea			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>			Meth: 010.60 PCT Total Nitrogen <u>Combustion</u>		
255	47.18	1.74	460	46.45	1.31	307	46.35	.76	086	46.11	-.53	086	46.11	-.53
444	46.40	.21	114	46.44	1.28	029	46.61 R	1.12	027	45.97	-.67	027	45.97	-.67
Avg	46.31		456	46.17	.32	049	46.81	1.12	231	45.96	-.70	231	45.96	-.70
300	46.15	-.33	473	46.21	.27	055	46.70	1.09	028	45.94	-.84	028	45.94	-.84
Meth: 005.XX PCT Nitrogen From Urea			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>			Meth: 010.60 PCT Total Nitrogen <u>Combustion</u>		
255	47.18	1.74	460	46.45	1.31	034	46.75	.99	043	45.75	-1.18	043	45.75	-1.18
444	46.40	.21	114	46.44	1.28	393	46.75	.98	426	46.11 R	-1.27	426	46.11 R	-1.27
Avg	46.31		456	46.17	.32	307	46.35	.76	041	45.78	-1.27	041	45.78	-1.27
300	46.15	-.33	473	46.21	.27	007	46.60	.70	260	45.68	-1.31	260	45.68	-1.31
Meth: 005.XX PCT Nitrogen From Urea			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>			Meth: 010.60 PCT Total Nitrogen <u>Combustion</u>		
255	47.18	1.74	460	46.45	1.31	307	46.35	.76	230	45.65	-1.40	230	45.65	-1.40
444	46.40	.21	114	46.44	1.28	007	46.60	.70	402	45.60	-1.49	402	45.60	-1.49
Avg	46.31		456	46.17	.32	136	46.61	.70	073	45.57	-1.55	073	45.57	-1.55
300	46.15	-.33	473	46.21	.27	475	46.33	.70	095	45.57	-1.57	095	45.57	-1.57
Meth: 005.XX PCT Nitrogen From Urea			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>			Meth: 010.60 PCT Total Nitrogen <u>Combustion</u>		
255	47.18	1.74	460	46.45	1.31	177	46.61	.69	009	45.54	-1.60	009	45.54	-1.60
444	46.40	.21	114	46.44	1.28	232	46.60	.68	443	44.98	-2.81	443	44.98	-2.81
Avg	46.31		456	46.17	.32	325	46.50	.63	024	40.61 s	-12.17	024	40.61 s	-12.17
300	46.15	-.33	473	46.21	.27									

\* 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: 050.99 PCT			Meth: 101.30 PCT			Meth: 121.30 PCT		
<u>Total Nitrogen</u>			<u>Total Nitrogen</u>			<u>Soluble Potash</u>			<u>Acid Soluble Calcium</u>			<u>Acid Soluble Magnesi</u>		
070	46.41	.41	402	45.60	-1.53	<u>Other</u>			<u>ICP</u>			<u>ICP</u>		
420	46.35	.29	073	45.57	-1.61	232	0.24	.87	422	1.04	1.25	390	1.03 s	6.26
390	46.34	.25	095	45.57	-1.63	Avg	0.12		354	0.98	.87	041	0.65	2.09
233	46.33	.25	009	45.54	-1.67	325	0.00	-.87	009	0.94	.60	422	0.56	1.04
131	46.33	.25	254	46.17 R	-1.74	Meth: 050.XX PCT			363	0.91	.35	363	0.52	.67
360	46.29	.19	443	44.98	-3.01	<u>Soluble Potash</u>			131	0.89	.25	131	0.51	.57
292	46.30	.15	024	40.61 s	-13.37	354	1.03 R	6.28	Avg	0.85		102	0.50	.41
420	46.26	.14	Meth: 020.50 PCT			422	0.29	.80	292	0.84	-.11	057	0.47	.22
351	46.24	.03	<u>Total Phosphate</u>			232	0.24	.47	102	0.81	-.29	Avg	0.46	
Avg	46.24		<u>ICP</u>			Avg	0.18		232	0.77 R	-.63	354	0.44	-.19
473	46.21	-.08	422	0.08	-.71	325	0.00	-1.28	307	0.75	-.67	307	0.44	-.26
422	46.20	-.12	Meth: 041.50 PCT			Meth: 060.00 PCT			390	0.52	-2.26	096	0.37	-1.05
042	46.24	-.15	Dir Available Phosph			<u>Vacuum Oven</u>			041	0.00 s	-5.70	232	0.37	-1.06
470	46.16	-.19	<u>ICP</u>			363	0.58	.87	Meth: 101.XX PCT			009	0.36	-1.06
255	46.18	-.20	325	0.00	.00	Avg	0.35		<u>Acid Soluble Calcium</u>			292	0.35	-1.27
456	46.17	-.23	Meth: 041.99 PCT			007	0.13	-.87	422	1.04	1.27	Meth: 121.XX PCT		
211	46.12	-.29	Dir Available Phosph			Meth: 060.99 PCT			354	0.98	.88	<u>Acid Soluble Magnesi</u>		
057	46.11	-.31	<u>Other</u>			Free Water			009	0.94	.59	390	1.03 s	6.50
037	46.12	-.32	354	0.09	.71	<u>Other</u>			105	0.91	.34	041	0.65	2.15
090	46.10	-.33	Meth: 041.XX PCT			456	0.29	.71	363	0.91	.33	422	0.56	1.07
354	46.09	-.37	Dir Available Phosph			Meth: 060.XX PCT			131	0.89	.23	363	0.52	.68
234	46.08	-.40	<u>Other</u>			<u>Free Water</u>			Avg	0.86		131	0.51	.58
476	46.05	-.47	354	0.09	.87	292	0.84	-.15	292	0.84	-.15	102	0.50	.41
371	46.04	-.49	Meth: 050.50 PCT			Meth: 060.XX PCT			102	0.81	-.34	105	0.48	.22
086	46.11	-.51	Soluble Potash			<u>Free Water</u>			232	0.77 R	-.69	057	0.47	.22
415	45.99	-.59	<u>ICP (Oxalate)</u>			363	0.58	1.20	307	0.75	-.74	Avg	0.46	
105	46.06	-.62	354	1.03	.87	Avg	0.33		390	0.52	-2.41	354	0.44	-.22
027	45.97	-.63	Meth: 101.00 PCT			456	0.29	-.19	041	0.00 s	-6.02	307	0.44	-.29
231	45.96	-.66	Acid Soluble Calcium			007	0.13	-1.01	Meth: 121.00 PCT			096	0.37	-1.11
028	45.94	-.83	<u>AA</u>			Meth: 101.30 PCT			<u>Acid Soluble Magnesi</u>			232	0.37	-1.12
185	45.88	-.86	105	0.91	.71	Acid Soluble Calcium			AA			009	0.36	-1.12
255	45.85	-.92	Meth: 121.30 PCT			AA			AA			292	0.35	-1.34
043	45.75	-1.19	Sulfur			Meth: 144.01 PCT			Sulfur			Meth: 144.01 PCT		
041	45.78	-1.31	<u>Gravimetric</u>			Sulfur			<u>Gravimetric</u>			Sulfur		
260	45.68	-1.34	324	19.40 s	7.74	Sulfur			<u>Gravimetric</u>			Sulfur		
426	46.11 R	-1.38	Sulfur			Sulfur			Sulfur			Sulfur		
309	45.64	-1.44	Sulfur			Sulfur			Sulfur			Sulfur		
230	45.65	-1.45	Sulfur			Sulfur			Sulfur			Sulfur		

\* 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: 144.01 PCT			Meth: 144.99 PCT			Meth: 144.XX PCT			Meth: 151.30 PPM			Meth: 165.99 PCT		
Sulfur			Sulfur			Sulfur			Arsenic			Acid Soluble Boron		
<u>Gravimetric</u>			<u>Other</u>			<u>Other</u>			<u>ICP</u>			<u>Other</u>		
114	16.91	2.79	351	15.37	.31	029	15.44	.16	247	46.00 s	6.57	009	0.022 X	-1.45
041	16.37	1.75	232	15.34	.29	232	15.34	.14	037	17.85	1.50	Meth: 181.00 PPM		
073	15.85	.74	177	15.25	.16	351	15.37	.11	450	12.50	.55	Cadmium		
475	15.65	.32	Avg	15.12		043	15.34	.10	Avg	9.46		<u>Atomic Absorption</u>		
296	15.59	.22	255	15.11	-.06	470	15.39	.07	096	9.35	-.02	363	1.22	.86
Avg	15.49		027	15.06	-.08	233	15.34	.03	102	8.70	-.14	Avg	0.73	
029	15.44	-.21	137	14.96	-.18	Avg	15.33		390	8.36	-.20	136	0.25	-.87
470	15.39	-.21	419	14.91	-.26	177	15.25	-.10	009	8.80 R	-.22	Meth: 181.30 PPM		
233	15.34	-.31	090	14.83	-.34	397	15.30	-.13	393	0.00 X	-1.70	Cadmium		
043	15.34	-.34	390	14.90	-.35	055	15.22	-.14	Meth: 151.99 PPM			<u>ICP</u>		
397	15.30	-.43	096	14.82	-.35	102	15.19	-.21	Arsenic			232	17.80 s	17.29
055	15.22	-.55	009	14.83 R	-.56	105	15.16	-.23	<u>Other</u>			009	3.35 R	2.58
102	15.19	-.63	231	14.54 R	-.86	028	15.12	-.27	231	8.46	-.71	247	3.00	1.96
105	15.16	-.68	450	14.33	-.92	255	15.11	-.28	Meth: 151.XX PPM			230	1.49	.45
028	15.12	-.76	393	13.72	-1.65	095	15.10	-.31	Arsenic			419	1.50	.41
095	15.10	-.81	422	13.55	-1.84	027	15.06	-.34	247	46.00 s	7.68	Avg	1.10	
444	14.98	-1.03	307	13.27	-2.16	360	15.30	-.34	037	17.85	1.77	102	0.77	-.35
230	11.00 s	-8.88	131	11.51 s	-4.24	444	14.98	-.45	450	12.50	.67	390	0.60	-.52
030	8.12 s	-14.57	363	10.74 s	-5.12	137	14.96	-.46	136	9.55	.05	393	0.38	-.75
Meth: 144.02 PCT			Meth: 144.XX PCT			419	14.91	-.52	096	9.35	.01	450	0.00	-1.14
Sulfur			Sulfur			390	14.90	-.58	Avg	9.35		Meth: 181.99 PPM		
<u>Gravimetric</u>			<u>Sulfur</u>			090	14.83	-.62	102	8.70	-.14	Cadmium		
292	17.48	.71	324	19.40 s	4.99	096	14.82	-.63	231	8.46	-.19	<u>Other</u>		
Meth: 144.99 PCT			247	18.33 s	3.67	009	14.83 R	-.77	390	8.36	-.21	231	0.52	.71
Sulfur			292	17.48	2.62	231	14.54 R	-1.12	009	8.80 R	-.24	Meth: 181.XX PPM		
<u>Other</u>			114	16.91	1.92	450	14.33	-1.23	Meth: 165.99 PCT			<u>Cadmium</u>		
247	18.33 S	3.76	393	13.72	-1.99	393	13.72	-1.99	Acid Soluble Boron			232	17.80 s	19.64
291	16.84	2.02	422	13.55	-2.19	422	13.55	-2.19	<u>Other</u>			009	3.35 R	3.05
377	16.25	1.33	307	13.27	-2.52	307	13.27	-2.52	354	0.058	1.30	247	3.00	2.37
117	16.15	1.22	131	11.51 s	-4.69	131	11.51 s	-4.69	363	0.051	.72	230	1.49	.65
473	15.77	.76	230	11.00 s	-5.30	230	11.00 s	-5.30	Avg	0.041		419	1.50	.62
049	15.75	.74	363	10.74 s	-5.62	363	10.74 s	-5.62	422	0.040	-.11	363	1.22	.29
354	15.62	.59	030	8.12 s	-8.83	030	8.12 s	-8.83	232	0.036	-.41	Avg	0.97	
330	15.50	.51	Meth: 151.00 PPM			Meth: 151.00 PPM			Meth: 165.99 PCT			Meth: 165.99 PCT		
360	15.30	.39	Arsenic			Arsenic			Acid Soluble Boron			Acid Soluble Boron		
			<u>Atomic Absorption</u>			<u>Atomic Absorption</u>			<u>Other</u>			<u>Other</u>		
			136	9.55	-.71	136	9.55	-.71	354	0.058	1.30	232	17.80 s	19.64

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 221.XX PCT			Meth: 241.00 PCT			Meth: 241.30 PCT			Meth: 241.XX PCT			Meth: 241.XX PCT		
<u>Acid Soluble Copper</u>			<u>Acid Soluble Iron</u>			<u>Acid Soluble Iron</u>			<u>Acid Soluble Iron</u>			<u>Acid Soluble Iron</u>		
137	0.2300	.07	<u>Atomic Absorption</u>			<u>ICP</u>			470	9.29	.44	230	7.14 s	-4.27
Avg	0.2289		428	7.44	-1.90	041	8.81	-.43	363	9.26	.40	Meth: 251.00 PPM		
009	0.2279	-.07	Meth: 241.20 PCT			291	8.73	-.49	433	9.22	.34	Lead		
363	0.2283	-.09	<u>Acid Soluble Iron</u>			444	8.59	-.71	422	9.13	.27	<u>Atomic Absorption</u>		
230	0.2285	-.10	<u>Colormetric</u>			009	8.66	-.75	473	9.06	.22	136	80.50	.71
433	0.2285	-.17	470	9.29	-.71	157	8.50	-.85	105	9.09	.22	Meth: 251.30 PPM		
377	0.2243	-.31	Meth: 241.30 PCT			402	8.17	-1.35	255	9.10	.22	Lead		
105	0.2235	-.36	<u>Acid Soluble Iron</u>			475	8.13	-1.41	131	9.12	.20	<u>ICP</u>		
422	0.2250	-.42	<u>ICP</u>			393	8.04	-1.55	426	9.12	.20	009	81.56 R	2.10
402	0.2215	-.50	292	10.69	2.50	232	7.91	-1.80	028	9.07	.15	450	80.50	1.77
043	0.2210	-.59	042	10.15 R	1.81	307	7.76	-1.97	096	9.09	.15	419	77.50	1.43
475	0.2200	-.59	102	10.13	1.64	230	7.14 s	-4.24	351	9.09	.14	233	67.26	.34
095	0.2165	-.83	114	10.07	1.54	Meth: 241.99 PCT			043	9.09	.14	393	65.22	.04
057	0.2159	-.87	117	10.06	1.54	<u>Acid Soluble Iron</u>			231	9.05	.06	Avg 64.88		
460	0.2150	-.99	055	9.82	1.18	<u>Other</u>			095	9.03	.06	037	63.56	-.15
232	0.2141	-1.00	377	9.73	1.03	476	9.41	.90	390	9.01	.02	027	62.50	-.28
426	0.2136 R	-1.30	037	9.44 R	.87	137	9.30	.35	Avg	9.00		232	62.75	-.57
307	0.2095	-1.30	420	9.54	.74	Avg	9.23		234	8.99	-.03	230	60.20	-.66
450	0.2025	-1.76	057	9.32	.61	234	8.99	-1.25	095	8.94	-.11	102	58.22	-.95
041	0.2000	-1.93	354	9.38	.49	Meth: 241.XX PCT			460	8.95	-.11	390	51.10	-1.56
231	0.2000 R	-2.04	450	9.30	.37	<u>Acid Soluble Iron</u>			233	8.96	-.17	Meth: 251.99 PPM		
471	0.1690 s	-4.00	433	9.22	.26	258	10.75 s	2.95	419	8.89	-.18	Lead		
Meth: 241.00 PCT			422	9.13	.22	292	10.69	2.62	247	8.86	-.31	Other		
<u>Acid Soluble Iron</u>			473	9.06	.21	042	10.15 R	1.91	041	8.81	-.37	<u>Other</u>		
<u>Atomic Absorption</u>			255	9.10	.17	102	10.13	1.75	291	8.73	-.42	231	52.96	.71
258	10.75 s	3.42	131	9.12	.14	114	10.07	1.65	177	8.72	-.44	Meth: 251.XX PPM		
363	9.26	.92	426	9.12	.14	117	10.06	1.65	444	8.59	-.65	Lead		
105	9.09	.68	096	9.09	.08	055	9.82	1.28	009	8.66 R	-.71	Avg 65.19		
351	9.09	.66	Avg	9.05		377	9.73	1.12	157	8.50	-.79	037 63.56		
043	9.09	.65	231	9.05	-.01	037	9.44 R	.94	402	8.17	-1.30	-.17		
028	9.07	.64	390	9.01	-.07	420	9.54	.83	475	8.13	-1.37	1.85		
095	9.03	.56	360	8.97	-.15	057	9.32 R	.68	420	8.04	-1.50	1.55		
460	8.95	.45	095	8.94	-.18	476	9.41	.62	393	8.04	-1.50	1.24		
177	8.72	.09	233	8.96	-.21	354	9.38	.58	232	7.91 R	-1.76	.27		
Avg	8.66		419	8.89	-.25	137	9.30	.46	030	7.83	-1.83	.01		
030	7.83	-1.30	247	8.86	-.36	450	9.30	.45	307	7.76	-1.93	Avg 65.19		
397	7.73	-1.45							397	7.73	-1.99	037 63.56		
									428	7.44	-2.44	-.17		

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 251.XX PPM			Meth: 261.30 PCT			Meth: 261.XX PCT			Meth: 261.XX PCT			Meth: 271.XX PCT		
<u>Lead</u>			<u>Acid Soluble Manganese</u>			<u>Acid Soluble Manganese</u>			<u>Acid Soluble Manganese</u>			<u>Water Soluble Manganese</u>		
027	62.50	-.28	<u>ICP</u>			354	21.360	2.23	460	18.050	-.60	027	12.457	.13
232	62.75	-.52	433	18.770	-.11	292	21.380	2.23	351	18.018	-.63	Avg	11.632	
230	60.20	-.62	095	18.770	-.12	258	21.185 R	2.14	247	18.055	-.67	475	0.530	-1.77
102	58.22	-.88	231	18.555	-.29	230	20.600	1.57	028	18.150 R	-.70	Meth: 281.00 PPM		
231	52.96	-1.24	419	18.520	-.33	117	20.300 R	1.52	296	17.590	-.99	<u>Mercury</u>		
390	51.10	-1.42	360	18.470	-.37	114	20.155	1.19	157	17.600	-1.02	<u>Atomic Absorption</u>		
			420	18.435	-.39	476	20.095	1.13	232	16.720	-1.74	230	0.03	-.71
			291	18.405	-.42	042	19.650 R	1.11	475	16.445	-1.97	Meth: 281.30 PPM		
Meth: 261.00 PCT			057	18.425	-.42	090	20.020	1.08	324	15.450	-2.81	<u>Mercury</u>		
<u>Acid Soluble Manganese</u>			131	18.600	-.49	055	20.015	1.07	402	14.145 s	-3.92	<u>ICP</u>		
<u>AA</u>			233	18.270	-.58	422	19.990	1.05	307	13.598 s	-4.38	450	10.00	.87
258	21.185 s	5.81	444	18.060	-.71	041	19.800	.89	393	12.720 s	-5.13	Avg	5.00	
095	19.448	2.32	247	18.055	-.77	137	19.650	.76	Meth: 271.00 PCT			393	0.00 X	-.86
470	18.340	.18	157	17.600	-1.13	234	19.515	.67	<u>Water Soluble Manganese</u>			Meth: 281.99 PPM		
397	18.250	.10	232	16.720	-1.86	377	19.450	.59	<u>Atomic Abs</u>			<u>Mercury</u>		
Avg	18.247		475	16.445	-2.10	095	19.448	.59	260	17.540	.71	<u>Other</u>		
177	18.132	-.23	402	14.145 s	-4.05	450	19.000	.20	Meth: 271.30 PCT			009	0.05	.71
043	18.150	-.27	307	13.598 s	-4.52	390	19.000	.20	<u>Water Soluble Manganese</u>			Meth: 281.XX PPM		
460	18.050	-.39				426	18.917	.20	<u>ICP</u>			<u>Mercury</u>		
351	18.018	-.44	Meth: 261.31 PCT			255	18.762	.07	Meth: 271.99 PCT			Meth: 289.30 PPM		
028	18.150 R	-1.08	<u>Acid Soluble Manganese</u>			095	18.770	.06	<u>Water Soluble Manganese</u>			<u>Molybdenum</u>		
296	17.590	-1.27	<u>ICP</u>			433	18.770	.04	<u>Other</u>			<u>ICP</u>		
			230	20.600	.87	Avg	18.759		291	18.275	.87	247	31.00	1.37
Meth: 261.30 PCT			Avg	18.025		231	18.555	-.17	157	14.300	.39	450	27.00	.85
<u>Acid Soluble Manganese</u>			324	15.450	-.87	419	18.520	-.22	255	12.597 R	.19	433	25.76	.69
<u>ICP</u>						360	18.470	-.26	Avg	11.035		390	25.45	.66
354	21.360	2.13	Meth: 261.99 PCT			420	18.435	-.28	475	0.530	-1.26	Avg	0.03	.32
292	21.380	2.12	<u>Acid Soluble Manganese</u>			291	18.405	-.30	Meth: 271.99 PCT			393	0.00 X	-1.23
117	20.300 R	1.43	<u>Other</u>			057	18.425	-.32	<u>Water Soluble Manganese</u>			Meth: 281.XX PPM		
114	20.155	1.08	042	19.650 R	1.51	037	18.376	-.33	<u>Other</u>			<u>Mercury</u>		
090	20.020	.97	476	20.095	1.36	470	18.340	-.36	027	12.457	.71	450	10.00 R	448.80
055	20.015	.96	137	19.650	.75	471	18.265	-.42	Meth: 271.XX PCT			009	0.05	.94
422	19.990	.94	234	19.515	.65	397	18.250	-.43	<u>Water Soluble Manganese</u>			230	0.03	.32
041	19.800	.78	Avg	19.110		131	18.600	-.45	291	18.275	1.06	Avg	0.03	
377	19.450	.48	255	18.762	-.50	233	18.270	-.48	260	17.540 R	.95	393	0.00 X	-1.23
426	18.917	.15	037	18.376	-1.02	043	18.150	-.52	157	14.300	.43	Meth: 289.30 PPM		
390	19.000	.09	471	18.265	-1.17	177	18.132	-.53	255	12.597	.15	<u>Molybdenum</u>		
450	19.000	.09	393	12.720 s	-8.85	444	18.060	-.60	<u>ICP</u>			247	31.00	1.37
Avg	18.892								<u>Water Soluble Manganese</u>			450	27.00	.85
									291	18.275	1.06	433	25.76	.69
									260	17.540 R	.95	390	25.45	.66
									157	14.300	.43	419	23.00	.42
									255	12.597	.15	037	22.18	.23

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 289.30 PPM Molybdenum			Meth: 291.30 PPM Nickel			Meth: 301.30 PPM Selenium			Meth: 321.00 PCT Acid Soluble Zinc			Meth: 321.30 PCT Acid Soluble Zinc		
<u>ICP</u>			<u>ICP</u>			<u>ICP</u>			<u>Atomic Absorption</u>			<u>ICP</u>		
Avg	20.43		450	337.50	1.85	037	158.81	1.78	258	1.915 s	27.62	157	0.520 s	-3.71
232	18.50	-.32	009	288.65	.86	393	98.60	.50	460	0.850 R	1.73			
009	14.46 X	-.83	096	284.50	.81	Avg	74.86		296	0.851	1.28			
230	17.73 R	-1.09	037	278.65	.66	009	68.58 X	-.25	043	0.818	.55			
102	11.16	-1.20	419	268.00	.45	450	57.50	-.40	Avg	0.798				
393	5.80	-1.89	233	248.00	.06	230	48.70	-.58	095	0.768	-.74			
			102	246.04	.03	232	17.00	-1.23	470	0.757	-1.00			
			Avg	245.29										
Meth: 289.99 PPM Molybdenum			230 224.00			Meth: 301.99 PPM Selenium			Meth: 321.30 PCT Acid Soluble Zinc			231 0.870		
<u>Other</u>			232 219.00			<u>Other</u>			<u>ICP</u>			Avg 0.857		
422	20.00	.86	393	209.70	-.71	102	76.11	.87	292	1.090	2.30	471	0.780	-1.22
Avg	17.27		027	195.00	-1.00	Avg	39.67		247	1.045	1.86			
231	14.53	-.87	247	144.50	-2.00	231	3.24	-.87	419	0.945 R	1.44			
									041	0.980	1.19			
Meth: 289.XX PPM Molybdenum			Meth: 291.99 PPM Nickel			Meth: 301.XX PPM Selenium			102 0.969			Meth: 321.XX PCT Acid Soluble Zinc		
247	31.00	1.54	<u>Other</u>			037	158.81	1.97	255	0.929	.64	258	1.915 s	12.29
450	27.00	.98	231	111.30	.71	393	98.60	.69	420	0.925	.62	292	1.090	2.59
433	25.76	.81				009	68.58 X	.22	354	0.925	.57	247	1.045	2.12
390	25.45	.78	Meth: 291.XX PPM Nickel			102	76.11	.21	037	0.902	.36	419	0.945 R	1.61
419	23.00	.51	450	337.50	1.59	Avg	66.07		131	0.875	.16	041	0.980	1.39
037	22.18	.31	009	288.65	.78	450	57.50	-.24	Avg	0.872		102	0.969	1.23
422	20.00	.01	136	287.50	.77	230	48.70	-.40	233	0.865	-.09	255	0.929	.81
Avg	19.90		096	284.50	.74	232	17.00	-1.04	426	0.862	-.18	420	0.925	.79
232	18.50	-.28	037	278.65	.62	231	3.24	-1.33	402	0.847	-.26	354	0.925	.74
231	14.53	-.74	419	268.00	.45				095	0.845	-.29	137	0.920	.68
009	14.46 X	-.82	233	248.00	.13	Meth: 311.99 PCT Sodium			450	0.855	-.32	037	0.902	.50
230	17.73 R	-1.14	102	246.04	.10	<u>Other</u>			363	0.840	-.33	131	0.875	.24
102	11.16	-1.21	Avg	240.26		422	0.12	1.92	422	0.840	-.35	231	0.870	.16
393	5.80	-1.95	230	224.00	-.26	057	0.813	-.69	433	0.836	-.38	426	0.862	.16
			232	219.00 R	-.42	475	0.805	-.70	095	0.845	-.32	233	0.865	.08
Meth: 291.00 PPM Nickel			393 209.70			Avg 0.07			422	0.840	-.35	Avg	0.860	
<u>Atomic Absorption</u>			027 195.00			009 0.06			433	0.836	-.38	296	0.851	-.11
136	287.50	.71	247	144.50	-1.55	102	0.05	-.58	057	0.813	-.69	402	0.847	-.15
			231	111.30	-2.09	292	0.05	-.71	475	0.805	-.70	095	0.845	-.17
						232	0.05	-.75	009	0.804 X	-.78	363	0.840	-.23
									232	0.778	-.99	422	0.840	-.25
									307	0.771	-1.07	433	0.836	-.27
									027	0.647	-2.37	450	0.855	-.29
									230	0.627 s	-3.06	043	0.818	-.50
												460	0.850	-.57

\* 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

475	0.805	-.62
057	0.813	-.63
009	0.804 X	-.71
232	0.778	-.93
471	0.780	-.93
307	0.771	-1.01
095	0.768	-1.04
470	0.757	-1.17
027	0.647	-2.40
230	0.627 s	-3.16
157	0.520 s	-3.83

Meth: 325.30 PCT

Water Soluble Zinc

ICP

393	0.925	.87
Avg	0.723	
157	0.520	-.87

\* 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	1.22	0.01	221.30	27	- 0.036	0.9966	0.1932
001.XX	3	0.00	1.12	0.00	221.99	3	- 0.800	1.5929	0.3015
005.99	5	0.00	1.01	0.28	221.XX	35	0.0329	1.5497	0.5542
005.XX	6	- 0.24	1.12	0.15	241.00	12	0.27	1.34	0.35
008.10	6	0.00	1.05	0.07	241.30	37	- 0.02	1.11	0.55
008.XX	6	0.00	1.05	0.07	241.99	3	0.00	1.12	0.03
009.XX	2	0.00	1.22	0.00	241.XX	52	0.01	1.15	0.51
010.11	10	- 0.03	0.97	0.29	251.30	11	0.17	1.09	0.39
010.12	3	0.00	0.54	0.80	251.XX	13	0.13	1.05	0.32
010.60	54	- 0.20	1.91	0.37	261.00	10	0.548	2.015	0.533
010.99	5	0.00	1.00	0.31	261.30	29	- 0.254	1.478	0.208
010.XX	70	- 0.14	1.87	0.42	261.31	2	0.000	1.224	0.027
041.XX	2	0.00	1.22	0.09	261.99	8	- 1.013	3.297	0.482
050.50	2	0.00	1.22	0.07	261.XX	48	- 0.211	1.502	0.232
050.99	2	0.00	1.22	0.00	271.30	4	0.047	0.918	0.005
050.XX	4	1.57	3.27	0.17	271.XX	6	0.157	1.024	0.022
060.00	2	0.00	1.22	0.01	281.30	2	0.00	1.21	0.12
060.XX	3	0.00	1.12	0.02	281.XX	4	111.64	223.28	22.39
101.30	11	- 0.57	1.94	0.09	289.30	11	- 0.03	0.97	0.34
101.XX	12	- 0.56	1.97	0.09	289.99	2	0.00	1.22	0.09
121.30	13	0.48	1.99	0.09	289.XX	13	- 0.02	0.97	0.34
121.XX	14	0.46	1.99	0.09	291.30	12	0.00	1.01	0.14
144.01	19	- 0.83	4.43	0.20	291.XX	14	- 0.02	0.98	0.11
144.99	27	- 0.24	1.73	0.19	301.30	6	0.00	1.04	0.13
144.XX	47	- 0.37	2.24	0.17	301.99	2	0.00	1.22	0.01
151.30	8	0.80	2.49	0.20	301.XX	8	0.00	1.03	0.11
151.XX	10	0.75	2.59	0.21	311.99	6	0.00	1.04	0.10
165.99	5	0.000	1.041	0.183	311.XX	6	0.00	1.04	0.10
165.XX	5	0.000	1.041	0.183	321.00	6	4.677	10.891	2.744
181.00	2	0.00	1.22	0.07	321.30	26	- 0.212	1.290	0.434
181.30	9	2.18	5.79	0.39	321.99	3	0.000	1.094	0.187
181.XX	12	1.87	5.73	0.38	321.XX	34	0.206	2.405	0.682
190.XX	2	0.00	1.22	0.02	325.30	2	0.000	1.224	0.034
191.30	11	0.62	2.25	0.58					
191.XX	13	0.32	1.51	0.32					
202.00	2	0.00	1.21	0.12					
202.30	15	0.00	1.00	0.16					
202.XX	18	0.00	1.01	0.13					
221.00	6	1.5134	3.8088	2.1797					