

MAGRUDER - Fertilizer Check Sample No. - 200511 Grade 8-16-24 Tob

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

Method	AOAC Ref.	Method Code	No. of Labs	Grand Avq.	Std. Dev.	Average Range of Dups	No. of Labs	Grand Avq.	Std. Dev.	Average Range of Dups
Ammoniacal Nitrogen, MgO Distillation .	920.03	001.10	6	4.43	0.14	0.06	6	4.43	0.14	0.06
Ammoniacal Nitrogen, Other		001.99	9	4.38	0.22	0.05	8	4.39	0.23	0.03
Method Group 001.XX PCT			15	4.40	0.19	0.05	14	4.41	0.19	0.04
Nitrate Nitrogen, Robertson	930.01	002.10	1	4.21	0.02	0.03	1	4.21	0.02	0.03
Nitrate Nitrogen, Jones Modified	930.02	002.20	1	3.96	0.00	0.00	1	3.96	0.00	0.00
Nitrate Nitrogen, Other		002.99	3	4.06	0.26	0.03	3	4.06	0.26	0.03
Method Group 002.XX PCT			5	4.07	0.21	0.02	5	4.07	0.21	0.02
Nitrogen From Urea, Other		005.99	1	4.35	0.01	0.01	1	4.35	0.01	0.01
Ammon & Nitrate N, Devarda	892.01	009.10	7	8.22	0.25	0.04	7	8.22	0.25	0.04
Ammon & Nitrate N, Other		009.99	1	8.39	0.08	0.12	1	8.39	0.08	0.12
Method Group 009.XX PCT			8	8.24	0.24	0.05	8	8.24	0.24	0.05
Total Nitrogen, Reduced Iron		010.10	1	8.40	0.03	0.04	1	8.40	0.03	0.04
Total Nitrogen, Modified Comprehensive	978.02	010.11	6	8.33	0.16	0.05	6	8.33	0.16	0.05
Total Nitrogen, Salicylic	955.04D	010.12	6	8.28	0.34	0.06	6	8.28	0.34	0.06
Total Nitrogen, Raney	970.03	010.16	2	8.48	0.19	0.08	2	8.48	0.19	0.08
Total Nitrogen, Combustion		010.60	49	8.38	0.14	0.06	46	8.38	0.12	0.05
Total Nitrogen, Other		010.99	5	8.26	0.12	0.08	4	8.28	0.11	0.04
Method Group 010.XX PCT			71	8.36	0.19	0.06	66	8.34	0.17	0.05
Total Phosphate, Grav Quimociac	962.02	020.10	6	15.97	0.23	0.13	6	15.97	0.23	0.13
Total Phosphate, Spectrometric	958.01	020.20	17	15.98	0.19	0.08	16	15.99	0.18	0.07
Total Phosphate, Automated	978.01	020.40	7	15.94	0.25	0.13	7	15.94	0.25	0.13
Total Phosphate, ICP		020.50	8	16.16	0.44	0.31	8	16.27	0.50	0.22
Method Group 020.XX PCT			38	16.01	0.28	0.15	36	16.01	0.26	0.10
Insoluble Phosphate, Grav Quimociac ...	963.03C	030.10	1	0.04	0.01	0.01	1	0.04	0.01	0.01
Insoluble Phosphate, Spectrometric	963.03C	030.20	1	0.39	0.07	0.10	1	0.39	0.07	0.10
Insoluble Phosphate, Automated	978.01	030.40	1	0.02	0.00	0.00	1	0.02	0.00	0.00
Insoluble Phosphate, Other		030.99	1	0.02	0.01	0.01	1	0.02	0.01	0.01
Method Group 030.XX PCT			4	0.12	0.17	0.03	3	0.02	0.01	0.01
InDir Available Phosphate, Grav Quim ..	960.02	040.10	1	16.00	0.09	0.13	1	16.00	0.09	0.13
InDir Available Phosphate, Spectrometri	960.02	040.20	2	15.81	0.12	0.04	2	15.81	0.12	0.04
InDir Available Phosphate, Automated ..	960.02	040.40	1	15.79	0.06	0.09	1	15.79	0.06	0.09
InDir Available Phosphate, ICP		040.50	1	16.33	0.06	0.08	1	16.33	0.06	0.08
InDir Available Phosphate, Other		040.99	1	15.98	0.08	0.12	1	15.98	0.08	0.12
Method Group 040.XX PCT			6	15.95	0.21	0.08	6	15.95	0.21	0.08
Dir Available Phosphate, Grav Quimociac	960.03E	041.10	20	16.04	0.15	0.12	19	16.03	0.14	0.10
Dir Available Phosphate, Spectrometric	960.03D	041.20	4	15.89	0.14	0.10	4	15.89	0.14	0.10
Dir Available Phosphate, Automated	978.01	041.40	5	15.92	0.30	0.04	5	15.92	0.30	0.04
Dir Available Phosphate, ICP		041.50	8	16.08	0.23	0.13	8	16.08	0.23	0.13
Dir Available Phosphate, EDTA Extract .	993.01	041.60	10	15.96	0.16	0.07	10	15.96	0.16	0.07

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Dir Available Phosphate, Other		041.99	2	16.05	0.28	0.11	2	16.05	0.28	0.11
Method Group 041.XX PCT			50	16.01	0.20	0.11	46	15.99	0.18	0.08
Water Soluble Phosphate, Grav Quimociac	962.03	048.10	1	14.61	0.28	0.40	1	14.61	0.28	0.40
Water Soluble Phosphate, Spectrometric	970.01	048.20	7	14.30	0.24	0.06	7	14.30	0.24	0.06
Method Group 048.XX PCT			8	14.34	0.26	0.10	7	14.30	0.24	0.06
Soluble Potash, STPB Oxalate	958.02	050.00	18	23.16	0.37	0.20	17	23.12	0.32	0.15
Soluble Potash, STPB Citrate	969.04	050.10	1	22.98	0.01	0.01	1	22.98	0.01	0.01
Soluble Potash, AA (Oxalate)		050.30	7	22.95	0.85	0.31	6	23.09	0.80	0.16
Soluble Potash, AA (Citrate)		050.31	1	22.59	0.02	0.03	1	22.59	0.02	0.03
Soluble Potash, ICP (Oxalate)		050.50	6	23.45	0.69	0.39	5	23.55	0.63	0.16
Soluble Potash, ICP (Citrate)		050.51	9	23.47	0.56	0.15	9	23.47	0.56	0.15
Soluble Potash, Flame (Oxalate)	983.02(a)	050.60	6	22.95	0.47	0.09	6	22.95	0.47	0.09
Soluble Potash, Flame (Citrate)	983.02(b)	050.61	8	23.26	0.29	0.09	8	23.26	0.29	0.09
Soluble Potash, Other		050.99	16	23.05	0.54	0.20	16	23.05	0.54	0.20
Method Group 050.XX PCT			72	23.16	0.55	0.19	69	23.17	0.52	0.15
Free Water, Vacuum Oven	965.08B	060.00	8	0.73	0.21	0.07	8	0.73	0.21	0.07
Acid Soluble Calcium, AA	945.04	101.00	13	1.69	0.13	0.04	13	1.69	0.13	0.04
Acid Soluble Calcium, ICP		101.30	24	1.72	0.13	0.03	22	1.72	0.12	0.02
Acid Soluble Calcium, Other		101.99	2	1.66	0.04	0.05	2	1.66	0.04	0.05
Method Group 101.XX PCT			39	1.71	0.13	0.03	37	1.70	0.12	0.03
Acid Soluble Magnesium, AA	984.01	121.00	15	1.69	0.12	0.04	14	1.71	0.11	0.03
Acid Soluble Magnesium, ICP		121.30	30	1.74	0.13	0.03	29	1.74	0.13	0.03
Acid Soluble Magnesium, Titrimetric	964.01	121.70	1	1.98	0.02	0.04	1	1.98	0.02	0.04
Acid Soluble Magnesium, Other		121.99	1	1.81	0.05	0.07	1	1.81	0.05	0.07
Method Group 121.XX PCT			47	1.73	0.13	0.04	45	1.74	0.13	0.03
Water Soluble Magnesium, AA		131.00	2	1.54	0.10	0.02	2	1.54	0.10	0.02
Water Soluble Magnesium, ICP		131.30	3	1.46	0.14	0.15	3	1.46	0.14	0.15
Method Group 131.XX PCT			5	1.49	0.13	0.10	4	1.49	0.09	0.02
Sulfur, Gravimetric	980.02a	144.01	15	7.42	0.17	0.06	14	7.42	0.17	0.05
Sulfur, Gravimetric	980.02b	144.02	3	7.23	0.12	0.03	3	7.23	0.12	0.03
Sulfur, Other		144.99	21	7.39	0.27	0.13	20	7.35	0.30	0.09
Method Group 144.XX PCT			39	7.39	0.23	0.09	37	7.39	0.22	0.07
Arsenic, Atomic Absorption		151.00	4	5.39	4.45	0.28	4	5.39	4.45	0.28
Arsenic, ICP		151.30	7	5.26	0.92	0.48	7	5.26	0.92	0.48
Method Group 151.XX PPM			12	5.85	3.14	0.46	12	5.85	3.14	0.46
Acid Soluble Boron, Spectrometric	982.01	165.00	12	0.048	0.005	0.002	11	0.048	0.005	0.001
Acid Soluble Boron, Other		165.99	14	0.049	0.004	0.003	13	0.049	0.004	0.003
Method Group 165.XX PCT			26	0.049	0.004	0.003	23	0.049	0.004	0.002
Water Soluble Boron, Spectrometric	982.01	171.10	1	0.043	0.004	0.006	1	0.043	0.004	0.006

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Water Soluble Boron, Other		171.99	1	0.049	0.000	0.000	1	0.049	0.000	0.000
Method Group 171.XX PCT			2	0.046	0.004	0.003	2	0.046	0.004	0.003
Cadmium, Atomic Absorption		181.00	6	4.58	1.03	0.37	6	4.58	1.03	0.37
Cadmium, ICP		181.30	12	4.38	0.92	0.21	11	4.14	0.42	0.20
Cadmium, Other		181.99	1	6.50	0.99	1.40	1	6.50	0.99	1.40
Method Group 181.XX PPM			19	4.56	1.04	0.32	18	4.45	0.95	0.26
Water Soluble Chlorine, Titrimetric	928.02	190.00	13	3.27	0.18	0.06	12	3.30	0.16	0.04
Water Soluble Chlorine, Other		190.99	2	3.13	0.06	0.02	2	3.13	0.06	0.02
Method Group 190.XX PCT			15	3.25	0.18	0.05	14	3.27	0.17	0.03
Chromium, ICP		191.30	12	48.14	3.17	1.41	11	47.75	2.80	0.88
Chromium, Other		191.99	1	43.00	1.41	2.00	1	43.00	1.41	2.00
Method Group 191.XX PPM			13	47.75	3.36	1.45	12	47.36	3.01	0.98
Acid Soluble Cobalt, AA		202.00	1	2.55	0.21	0.30	1	2.55	0.21	0.30
Acid Soluble Cobalt, ICP	965.11	202.30	9	2.35	0.61	0.32	9	2.35	0.61	0.32
Method Group 202.XX PPM			10	2.37	0.58	0.32	10	2.37	0.58	0.32
Acid Soluble Copper, Atomic Absorption	975.01	221.00	6	0.0057	0.0004	0.0003	5	0.0057	0.0003	0.0001
Acid Soluble Copper, ICP		221.30	21	0.0055	0.0007	0.0004	21	0.0055	0.0007	0.0004
Method Group 221.XX PCT			27	0.0056	0.0007	0.0004	27	0.0056	0.0007	0.0004
Acid Soluble Iron, Atomic Absorption	980.01	241.00	12	0.38	0.03	0.01	13	0.38	0.04	0.01
Acid Soluble Iron, ICP		241.30	25	0.39	0.03	0.01	24	0.39	0.02	0.01
Acid Soluble Iron, Other		241.99	2	0.35	0.04	0.02	2	0.35	0.04	0.02
Method Group 241.XX PCT			40	0.39	0.03	0.01	39	0.39	0.03	0.01
Lead, Atomic Absorption		251.00	6	4.43	0.69	0.43	6	4.43	0.69	0.43
Lead, ICP		251.30	9	5.17	1.17	0.28	9	5.17	1.17	0.28
Method Group 251.XX PPM			15	4.87	1.05	0.34	15	4.87	1.05	0.34
Acid Soluble Manganese, AA	972.02a	261.00	10	0.094	0.007	0.005	10	0.094	0.007	0.005
Acid Soluble Manganese, AA	972.02b	261.11	3	0.090	0.009	0.013	3	0.090	0.009	0.013
Acid Soluble Manganese, ICP	972.02a	261.30	21	0.092	0.007	0.006	20	0.092	0.006	0.005
Acid Soluble Manganese, ICP	972.02b	261.31	2	0.082	0.013	0.005	2	0.082	0.013	0.005
Acid Soluble Manganese, Other		261.99	1	0.097	0.003	0.005	1	0.097	0.003	0.005
Method Group 261.XX PCT			37	0.092	0.008	0.006	36	0.092	0.008	0.005
Water Soluble Manganese, Atomic Abs	972.03	271.00	1	0.011	0.001	0.002	1	0.011	0.001	0.002
Water Soluble Manganese, ICP	972.03	271.30	2	0.032	0.027	0.005	2	0.032	0.027	0.005
Water Soluble Manganese, Other		271.99	1	0.024	0.000	0.000	1	0.024	0.000	0.000
Method Group 271.XX PCT			4	0.025	0.020	0.003	3	0.014	0.008	0.001
Mercury, Atomic Absorption		281.00	3	0.13	0.10	0.01	3	0.13	0.10	0.01
Molybdenum, Atomic Absorption		289.00	1	4.15	0.64	0.90	1	4.15	0.64	0.90
Molybdenum, ICP		289.30	9	4.85	0.66	0.22	9	4.85	0.66	0.22
Method Group 289.XX PPM			10	4.78	0.68	0.28	10	4.78	0.68	0.28

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Nickel, ICP		291.30	10	13.28	1.20	0.87	9	13.20	1.12	0.62
Method Group 291.XX PPM			11	13.66	1.69	0.88	10	13.63	1.70	0.66
Selenium, Atomic Absorption		301.00	1	0.48	0.01	0.02	1	0.48	0.01	0.02
Selenium, ICP		301.30	1	1.75	0.37	0.52	1	1.75	0.37	0.52
Selenium, Other		301.99	1	0.55	0.00	0.00	1	0.55	0.00	0.00
Method Group 301.XX PPM			3	0.93	0.66	0.18	3	0.93	0.66	0.18
Sodium, Other		311.99	8	1.71	0.08	0.02	8	1.71	0.08	0.02
Acid Soluble Zinc, Atomic Absorption ..	975.02	321.00	16	0.114	0.012	0.006	17	0.116	0.014	0.006
Acid Soluble Zinc, ICP		321.30	26	0.110	0.009	0.004	25	0.111	0.009	0.003
Acid Soluble Zinc, Other		321.99	1	0.108	0.001	0.002	1	0.108	0.001	0.002
Method Group 321.XX PCT			43	0.111	0.011	0.004	41	0.112	0.009	0.004

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 001.10 PCT			Meth: 001.XX PCT			Meth: 009.10 PCT			Meth: 010.11 PCT			Meth: 010.60 PCT		
<u>Ammoniacal Nitrogen</u>			<u>Ammoniacal Nitrogen</u>			<u>Ammon & Nitrate N</u>			<u>Total Nitrogen</u>			<u>Total Nitrogen</u>		
<u>MgO Distillation</u>			<u>Devarda</u>			<u>Modified Comprehensi</u>			<u>Combustion</u>					
258	4.59	1.19	362	4.28	-.67	258	8.56	1.35	Avg	8.33		025	8.49	.86
415	4.54	.76	420	4.26 R	-.91	257	8.41	.75	029	8.31	-.23	028	8.48	.80
029	4.49	.65	372	4.20	-1.12	392	8.39	.67	415	8.19	-.87	095	8.48	.75
Avg	4.43		193	4.14	-1.45	Avg	8.22		322	8.15	-1.14	232	8.47	.72
392	4.40	-.35	300	4.05	-1.90	415	8.19	-.13	288	7.13 s	-8.37	096	8.47	.72
324	4.37	-.46	Meth: 002.10 PCT			090	8.12	-.41	Meth: 010.12 PCT			330	8.45	.67
372	4.20	-1.66	<u>Nitrate Nitrogen</u>			420	8.10	-.47	<u>Total Nitrogen</u>			106	8.45	.54
			<u>Robertson</u>			416	7.77	-1.80	<u>Salicylic</u>			247	8.41	.51
Meth: 001.99 PCT			372	4.21	.71	Meth: 009.99 PCT			137	8.93	1.89	136	8.45	.50
<u>Ammoniacal Nitrogen</u>			Meth: 002.20 PCT			<u>Ammon & Nitrate N</u>			397	8.34	.21	360	8.39	.48
<u>Other</u>			<u>Nitrate Nitrogen</u>			<u>Other</u>			185	8.32	.19	369	8.43	.42
418	8.57 s	18.51	<u>Jones Modified</u>			105	8.39	-.71	Avg	8.28		029	8.40	.30
376	4.65	1.14	029	3.96	.00	Meth: 009.XX PCT			434	8.11	-.49	425	8.41	.26
105	4.64	1.08	Meth: 002.99 PCT			<u>Ammon & Nitrate N</u>			254	8.07	-.61	162	8.39	.23
434	4.61	.94	<u>Nitrate Nitrogen</u>			258	8.56	1.32	211	7.90	-1.11	040	8.41	.22
096	4.46	.28	<u>Other</u>			257	8.41	.69	Meth: 010.16 PCT			296	8.39	.17
Avg	4.39		300	4.36	1.11	105	8.39	.67	<u>Total Nitrogen</u>			042	8.40	.14
027	4.33	-.28	360	4.07	.13	392	8.39	.60	<u>Raney</u>			131	8.39	.12
362	4.28	-.50	Avg	4.06		Avg	8.24		434	8.64	.82	Avg	8.38	
420	4.26 R	-.71	027	3.77	-1.12	415	8.19	-.21	Avg	8.48		233	8.38	-.05
193	4.14	-1.16	Meth: 001.XX PCT			090	8.12	-.51	200	8.32	-.91	049	8.37	-.19
300	4.05	-1.54	<u>Ammoniacal Nitrogen</u>			420	8.10	-.58	Meth: 010.60 PCT			406	8.34	-.35
			<u>Nitrate Nitrogen</u>			416	7.77	-1.96	<u>Total Nitrogen</u>			292	8.34	-.38
418	8.57 s	21.69	300	4.36	1.34	Meth: 010.10 PCT			<u>Combustion</u>			043	8.35	-.41
376	4.65	1.26	372	4.21	.63	<u>Total Nitrogen</u>			422	8.93 s	4.40	035	8.36	-.44
105	4.64	1.19	Avg	4.07		<u>Reduced Iron</u>			037	8.61 R	2.09	009	8.32	-.48
434	4.61	1.03	360	4.07	-.17				022	8.60	1.76	007	8.35	-.48
258	4.59	.98	029	3.96	-.52	372			8.40	.71	037	8.33	-.58	
415	4.54	.67	027	3.77	-1.42	Meth: 010.11 PCT			055	8.39 R	1.60	307	8.36	-.59
029	4.49	.57	Meth: 005.99 PCT			<u>Total Nitrogen</u>			177	8.57	1.51	325	8.31	-.62
096	4.46	.25	<u>Nitrogen From Urea</u>			<u>Modified Comprehensi</u>			389	8.57	1.50	324	8.34	-.65
Avg	4.41		<u>Other</u>			405	8.61	1.81	275	8.56	1.39	361	8.27	-.95
392	4.40	-.20	027	4.35	.71	105	8.39	.35	027	8.56	1.38	423	8.25	-1.11
324	4.37	-.23	Meth: 001.99 PCT			073	8.34	.08	390	8.55	1.34	023	8.21	-1.43
027	4.33	-.41	<u>Ammoniacal Nitrogen</u>			Meth: 010.10 PCT			262	8.48	.88	072	8.19	-1.65
* X=Excluded from lab performance			S/s=Screened Outlier			R=Duplicate Range too large			A=Analysis beyond 3-s limits			034	8.17	-1.77

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 010.60 PCT			Meth: 010.XX PCT			Meth: 010.XX PCT			Meth: 020.20 PCT			Meth: 020.50 PCT		
<u>Total Nitrogen</u>			<u>Total Nitrogen</u>			<u>Total Nitrogen</u>			<u>Total Phosphate</u>			<u>Total Phosphate</u>		
<u>Combustion</u>									<u>Spectrometric</u>			<u>ICP</u>		
377	8.16	-1.79	232	8.47	.77	072	8.25	-.53	392	16.10	.59	307	15.95	-.96
426	8.15	-1.87	330	8.45	.71	423	8.25	-.59	406	16.06	.38	389	15.73	-1.10
428	8.05	-2.67	106	8.45	.63	023	8.21	-.82	324	16.00	.08	426	15.72	-1.11
114	7.94 A	-3.59	136	8.45	.61	415	8.19	-.89	Avg	15.99		330	16.22 R	-1.38
102	7.83 s	-4.44	369	8.43	.55	072	8.19	-.99	232	15.99	-.09	432	14.80 S	-3.04
			247	8.41	.54	034	8.17	-1.09	418	15.97 X	-.14			
			360	8.39	.46	377	8.16	-1.09	376	15.94	-.36	Meth: 020.XX PCT		
			425	8.41	.43	322	8.15	-1.14	416	15.88	-.61	<u>Total Phosphate</u>		
Meth: 010.99 PCT			307 8.36 .43			426 8.15 -1.15			420 15.85 -.90			425 17.39 s 5.36		
<u>Total Nitrogen</u>			040 8.41 .38			420 8.14 -1.24			257 15.83 -.93			390 17.08 s 4.35		
<u>Other</u>			029 8.40 .38			105 8.18 R -1.28			397 15.84 -1.00			330 16.22 R 2.79		
430	8.80 s	5.20	041 8.41 .38	434 8.11 -1.39			258 15.80 -1.08			423 16.66 2.53				
300	8.40	1.08	372 8.40 .36	254 8.07 -1.63			369 15.78 R -1.42			430 16.47 1.80				
354	8.34	.65	300 8.40 .35	428 8.05 -1.75			292 15.72 -1.52			361 16.47 1.78				
Avg	8.28		162 8.39 .35	114 7.94 -2.43			428 12.94 s -16.64			372 16.35 1.33				
072	8.25	-.29	042 8.40 .34	211 7.90 -2.67						262 16.30 1.14				
420	8.14	-1.35	035 8.36 .32	102 7.83 -3.06						024 16.27 1.00				
105	8.18 R	-1.58	296 8.39 .31	288 7.13 s -7.98						405 16.25 .99				
			007 8.35 .30							042 16.18 .89				
Meth: 010.XX PCT			105 8.39 .27			Meth: 020.10 PCT			Total Phosphate			024 16.27 1.31		
<u>Total Nitrogen</u>			131 8.39 .27			Total Phosphate			<u>Automated</u>			042 16.18 .78		
422	8.93 A	3.52	233 8.38 .23	405 16.25 1.27			042 16.18 1.13			422 16.12 .56				
137	8.93 A	3.48	043 8.35 .21	105 16.12 .67			105 15.98 .51			105 16.12 .47				
430	8.80 s	3.07	049 8.37 .20	090 16.04 .40			247 16.00 .34			363 16.09 .45				
434	8.64	1.78	Avg	406 8.34 -.06			Avg			392 16.10 .37				
037	8.61 R	1.76	073 8.34 -.06	095 15.94 -.15			035 15.84 -.45			090 16.04 .27				
405	8.61	1.65	292 8.34 -.12	114 15.89 -.82			096 15.81 -.59			406 16.06 .22				
022	8.60	1.55	009 8.32 -.14	434 15.61 -1.61			193 15.55 -1.61			Avg				
177	8.57	1.37	325 8.31 -.22							324 16.00 -.08				
389	8.57	1.36	354 8.34 -.24							232 15.99 -.10				
275	8.56	1.27	029 8.31 -.26							418 15.97 X -.15				
027	8.56	1.27	397 8.34 -.27							247 16.00 -.26				
390	8.55	1.24	185 8.32 -.29							095 15.94 -.26				
055	8.39 R	1.23	351 8.33 -.29							376 15.94 -.30				
025	8.49	.88	324 8.34 -.39							105 15.98 -.48				
262	8.48	.87	200 8.32 -.46							416 15.88 -.50				
028	8.48	.83	096 8.47 .77							035 15.84 -.67				
095	8.48	.80	361 8.27 -.47							420 15.85 -.70				
* 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: 030.XX PCT			Meth: 040.XX PCT			Meth: 041.20 PCT			Meth: 041.60 PCT		
<u>Total Phosphate</u>			<u>Insoluble Phosphate</u>			<u>InDir Available Phos</u>			<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>		
257	15.83	-.72	363	0.39 R	35.83	Avg	15.95		200	15.70	-1.36	136	15.90	-.55
397	15.84	-.77	090	0.04	1.23	397	15.91	-.19	Spectrometric			351	15.88	-.67
114	15.89	-.80	Avg	0.02		096	15.79	-.81	Meth: 041.40 PCT			296	15.84	-.78
096	15.81	-.81	096	0.02	-.32	363	15.71	-1.17	Dir Available Phosph			106	15.80	-1.03
258	15.80	-.83	247	0.02	-.94	Meth: 041.10 PCT			Automated			Meth: 041.99 PCT		
369	15.78	-1.07	Meth: 040.10 PCT			Dir Available Phosph			072	16.42	1.67	Dir Available Phosph		
389	15.73	-1.10	InDir Available Phos			Grav Quimociac			Avg	15.92		Other		
426	15.72	-1.12	Grav Quim			177	33.97 s	184.66	027	15.91	-.04	105	16.28	.89
292	15.72	-1.14	090	16.00	.71	260	16.17 R	2.03	131	15.90	-.11	Avg	16.05	
307	15.95 R	-1.38	Meth: 040.20 PCT			070	16.23	1.58	029	15.81	-.36	300	15.82	-.84
434	15.61	-1.55	InDir Available Phos			105	16.15	1.57	025	15.54	-1.25	Meth: 041.50 PCT		
193	15.55	-1.79	Spectrometri			434	16.15	1.40	Dir Available Phosph			Meth: 041.XX PCT		
432	14.80 s	-4.86	397	15.91	.84	137	16.21	1.27	ICP			177	33.97 s	142.19
428	12.94 s	-11.96	Avg	15.81		009	16.15	.89	023	16.48	1.78	023	16.48 A	2.82
Meth: 030.10 PCT			363	15.71	-.89	254	16.12	.69	009	16.14	.62	072	16.42	2.39
Insoluble Phosphate			Meth: 040.40 PCT			055	16.07	.67	325	16.14	.34	028	16.36	2.06
Grav Quimociac			InDir Available Phos			322	16.10	.49	377	16.13	.28	105	16.16 R	1.70
090	0.04	-.71	Automated			041	16.06	.44	Avg	16.08		105	16.28	1.70
Meth: 030.20 PCT			096	15.79	.71	102	16.05	.39	360	16.06	-.21	260	16.17 R	1.69
Insoluble Phosphate			Meth: 040.50 PCT			Avg	16.03		007	16.04	-.34	070	16.23	1.43
Spectrometric			InDir Available Phos			211	16.00	-.26	043	16.01	-.36	105	16.15 R	1.36
363	0.39	.71	ICP			072	15.97	-.47	361	15.64	-1.87	434	16.15	1.24
Meth: 030.40 PCT			423	16.33	.71	296	15.96	-.55	354	15.26 S	-3.53	137	16.21	1.22
Insoluble Phosphate			Meth: 040.99 PCT			040	15.96	-.57	Meth: 041.60 PCT			009	16.14	1.12
Automated			InDir Available Phos			029	15.97	-.62	Dir Available Phosph			009	16.15	.92
096	0.02	.00	Other			131	15.91	-.99	EDTA Extract			325	16.14	.88
Meth: 030.99 PCT			247	15.98	-.71	185	15.88	-1.09	028	16.36	2.48	377	16.13	.81
Insoluble Phosphate			Meth: 040.XX PCT			049	15.87	-1.32	105	16.16 s	2.01	254	16.12	.76
Other			InDir Available Phos			300	15.82	-1.57	288	16.04	.70	055	16.07	.64
247	0.02	.71	Spectrometric			Meth: 041.20 PCT			037	15.98	.42	322	16.10	.61
Meth: 030.10 PCT			055	15.98	1.14	Dir Available Phosph			177	16.01	.31	288	16.04	.55
Insoluble Phosphate			362	15.96	.55	Spectrometric			Avg	15.96		007	16.04	.49
Other			415	15.91	.25	055	15.98	1.14	043	15.94	-.24	041	16.06	.49
Meth: 030.20 PCT			Avg	15.89		362	15.96	.55	073	15.91	-.34	360	16.06	.46
Insoluble Phosphate			247	15.98	.31	415	15.91	.25	Meth: 041.50 PCT			102	16.05	.45
Spectrometric			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: 041.XX PCT			Meth: 048.20 PCT			Meth: 050.00 PCT			Meth: 050.50 PCT			Meth: 050.61 PCT				
<u>Dir Available Phosph</u>			Water Soluble Phosph			Soluble Potash			Soluble Potash			Soluble Potash				
043	16.01	.31	<u>Spectrometric</u>			<u>STPB Oxalate</u>			<u>ICP (Oxalate)</u>			<u>Flame (Citrate)</u>				
177	16.01	.17	372	14.72	1.70	090	23.03	-.31	324	23.71	.32	041	23.65	1.38		
211	16.00	.05	420	14.44	.55	114	23.02	-.34	Avg	23.55		025	23.66	1.35		
Avg	15.99		362	14.35	.20	211	23.01	-.37	354	23.52	-.11	105	23.49	.77		
072	15.97	-.13	Avg	14.30		049	22.92	-.72	106	23.54	-.17	Avg	23.26			
296	15.96	-.18	363	14.28	-.22	029	22.81	-1.02	307	22.98 R	-1.50	024	23.19	-.27		
040	15.96	-.23	247	14.28	-.31	022	22.77	-1.13	420	22.57	-1.56	037	23.09	-.61		
362	15.96	-.27	096	14.17	-.57	193	22.76	-1.32	426	21.31 S	-3.55	035	23.10	-.61		
043	15.94	-.32	193	13.90	-1.67	397	22.63 X	-1.75	Meth: 050.51 PCT			028	23.08	-.62		
029	15.97	-.33	Meth: 048.XX PCT			Meth: 050.10 PCT			Soluble Potash			029	22.85	-1.41		
037	15.98	-.37	<u>Water Soluble Phosph</u>			Soluble Potash			<u>ICP (Citrate)</u>			Meth: 050.99 PCT				
415	15.91	-.42	372	14.72	1.70	<u>STPB Citrate</u>			430	24.57	1.96	Soluble Potash				
027	15.91	-.43	434	14.61 R	1.51	322	22.98	.71	423	24.08	1.10	<u>Other</u>				
073	15.91	-.43	420	14.44	.55	Meth: 050.30 PCT			023	23.61	.40	260	23.95	1.74		
131	15.90	-.52	362	14.35	.20	Soluble Potash			043	23.49	.17	325	23.67	1.16		
131	15.91	-.55	Avg	14.30		<u>AA (Oxalate)</u>			009	23.50	.09	434	23.35	.72		
136	15.90	-.59	363	14.28	-.22	262	24.33 S	1.80	Avg	23.47		432	23.32	.70		
185	15.88	-.60	247	14.28	-.31	428	24.18	1.39	389	23.20	-.50	072	23.39	.64		
351	15.88	-.70	096	14.17	-.57	369	23.75	.82	361	23.01	-.81	300	23.31	.52		
055	15.98	-.73	193	13.90	-1.67	137	23.18	.11	007	22.94	-.95	027	23.30	.48		
049	15.87	-.80	Meth: 050.00 PCT			Avg			377	22.80	-1.20	372	23.25	.39		
296	15.84	-.82	Soluble Potash			040			Meth: 050.60 PCT			177	23.25	.37		
300	15.82	-.97	<u>STPB Oxalate</u>			136			Soluble Potash			360	23.06	.23		
300	15.82	-.97	102	25.72 s	8.13	095			<u>Flame (Oxalate)</u>			Avg	23.05			
029	15.81	-1.00	072	24.85 s	5.44	185			415			390	22.87	-.40		
106	15.80	-1.05	233	23.77 R	2.66	351			406			376	22.80	-.54		
200	15.70	-1.63	416	23.59	1.66	Meth: 050.31 PCT			055			232	22.51	-1.00		
361	15.64	-1.94	009	23.54	1.29	Soluble Potash			105			330	22.48	-1.07		
025	15.54	-2.50	257	23.52	1.24	<u>AA (Citrate)</u>			Avg			131	22.37	-1.27		
354	15.26 s	-4.13	095	23.50	1.18	254			288			425	21.89	-2.16		
Meth: 048.10 PCT			392			23.40	.85	Meth: 050.50 PCT			200			22.10	-1.82	
Water Soluble Phosph			258			23.26	.47	Soluble Potash			Meth: 050.XX PCT			<u>Soluble Potash</u>		
<u>Grav Quimociac</u>			043			23.17	.35	<u>ICP (Oxalate)</u>			102			25.72 s	4.90	
434	14.61	.71	418			23.18 X	.18	422			24.43	1.38	415	25.37 s	4.22	
Meth: 048.10 PCT			Avg			23.12		430			24.57	2.69	072	24.85 s	3.25	
Water Soluble Phosph			055			23.05	-.26	S/s=Screened Outlier			R=Duplicate Range too large			A=Analysis beyond 3-s limits		
<u>Grav Quimociac</u>			422			24.43	1.38	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.XX PCT			Meth: 050.XX PCT			Meth: 060.00 PCT			Meth: 101.30 PCT			Meth: 101.XX PCT		
<u>Soluble Potash</u>			<u>Soluble Potash</u>			<u>Free Water</u>			<u>Acid Soluble Calcium</u>			<u>Acid Soluble Calcium</u>		
262	24.33 s	2.63	028	23.08	-.18	<u>Vacuum Oven</u>			<u>ICP</u>			434	2.64 s	7.70
422	24.43	2.41	037	23.09	-.18	362	1.12	1.90	423	1.80	.68	422	2.11 s	3.43
428	24.18	1.98	035	23.10	-.19	096	0.95	1.07	023	1.78	.49	232	2.00	2.50
423	24.08	1.75	043	23.17	-.20	105	0.74	.16	037	1.75	.28	432	1.95 R	2.12
233	23.77 R	1.56	055	23.05	-.24	Avg 0.73			324	1.75	.26	027	1.94	1.91
260	23.95	1.56	090	23.03	-.27	247	0.71	-.24	300	1.74	.19	055	1.89	1.53
369	23.75	1.12	114	23.02	-.30	416	0.66	-.32	096	1.72	.02	137	1.85	1.23
324	23.71	1.06	361	23.01	-.31	363	0.63	-.53	Avg 1.72			430	1.84	1.13
325	23.67	.95	360	23.06	-.31	193 0.49 -1.14			009	1.71	-.11	043	1.80	.81
041	23.65	.95	211	23.01	-.32	Meth: 101.00 PCT			102	1.71	-.15	423	1.80	.80
416	23.59	.94	322	22.98	-.37	<u>Acid Soluble Calcium</u>			106	1.71	-.16	390	1.80	.80
025	23.66	.93	007	22.94	-.48	<u>AA</u>			360	1.69	-.23	193	1.78	.66
023	23.61	.91	049	22.92	-.52	055	1.89	1.61	420	1.69	-.24	023	1.78	.61
106	23.54	.73	131	22.88	-.56	137	1.85	1.32	035	1.68	-.37	177	1.76	.49
009	23.54	.70	040	22.88	-.61	043	1.80	.93	247	1.64	-.68	037	1.75	.39
354	23.52	.69	029	22.85	-.62	193	1.78	.77	288	1.64	-.68	324	1.75	.39
257	23.52	.67	390	22.87	-.62	177	1.76	.61	354	1.63	-.72	300	1.74	.29
009	23.50	.64	029	22.81	-.71	040	1.70	.14	433	1.62	-.83	102	1.71	.17
043	23.49	.64	288	22.79	-.73	296	1.70	.09	065	1.66 R	-.84	096	1.72	.14
095	23.50	.64	377	22.80	-.74	Avg 1.69			131	1.58	-1.17	106	1.71	.12
105	23.49	.61	136	22.77	-.77	095	1.66	-.20	372	1.40	-2.59	009	1.71	.12
434	23.35	.58	376	22.80	-.77	028	1.68	-.29	Meth: 101.70 PCT			296	1.70	-.08
432	23.32	.58	022	22.77	-.78	351	1.54	-1.13	<u>Acid Soluble Calcium</u>			360	1.69	-.11
406	23.45	.54	193	22.76	-.89	397	1.53	-1.21	<u>Titrimetric</u>			420	1.69	-.14
392	23.40	.44	254	22.59	-1.12	262	1.53	-1.24	415	0.74 S	.00	040	1.70	-.14
072	23.39	.43	397	22.63 X	-1.15	029	1.51	-1.39	Meth: 101.99 PCT			035	1.68	-.26
055	23.33	.35	420	22.57	-1.17	Meth: 101.30 PCT			<u>Acid Soluble Calcium</u>			095	1.66	-.36
300	23.31	.33	232	22.51	-1.27	<u>Acid Soluble Calcium</u>			<u>Other</u>			389	1.66	-.37
027	23.30	.26	330	22.48	-1.34	<u>ICP</u>			434	2.64 S	25.80	028	1.68	-.37
258	23.26	.21	307	22.98 R	-1.50	422	2.11 s	3.27	376	1.67	1.19	376	1.67	-.49
389	23.20	.20	131	22.37	-1.54	232	2.00	2.35	Avg 1.66			288	1.64	-.57
372	23.25	.18	200	22.10	-2.06	432	1.95 R	1.98	389	1.66	-.27	354	1.63	-.61
177	23.25	.15	095	22.13 R	-2.33	027	1.94	1.77	Meth: 101.30 PCT			433	1.62	-.72
105	23.18	.14	425	21.89	-2.47	430	1.84	1.00	<u>Acid Soluble Calcium</u>			065	1.66 R	-.78
024	23.19	.06	185	21.80	-2.63	390 1.80 .68			Avg 1.66			131	1.58	-1.07
137	23.18	.04	426	21.31 s	-3.59	* X=Excluded from lab performance			S/s=Screened Outlier			351	1.54	-1.32
418	23.18 X	.02	351	20.53 s	-5.08	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: 101.XX PCT			Meth: 121.30 PCT			Meth: 121.XX PCT			Meth: 121.XX PCT			Meth: 144.01 PCT		
<u>Acid Soluble Calcium</u>			<u>Acid Soluble Magnesi</u>			<u>Acid Soluble Magnesi</u>			<u>Acid Soluble Magnesi</u>			<u>Sulfur</u>		
397	1.53	-1.41	<u>ICP</u>			200	3.38 s	12.57	288	1.67	-.54	<u>Gravimetric</u>		
262	1.53	-1.43	354	1.83	.75	422	2.13 s	2.95	433	1.66	-.61	262	7.78	2.16
029	1.51	-1.60	090	1.83	.66	027	2.08	2.61	065	1.72 R	-.65	043	7.67	1.53
372	1.40	-2.50	023	1.83	.62	415	1.98	1.81	009	1.64	-.77	105	7.48 R	.81
415	0.74 s	-7.94	430	1.79	.30	232	1.97	1.80	296	1.64	-.77	102	7.55	.77
			420	1.76	.19	423	1.91	1.27	102	1.64	-.78	324	7.45	.23
			131	1.75	.04	432	1.88	1.12	324	1.64	-.81	137	7.43	.19
Meth: 121.00 PCT			Avg 1.74			390 1.88 1.08			247 1.50 -1.84			028 7.44 .13		
<u>Acid Soluble Magnesi</u>			037 1.74 -.08			300 1.85 .85			425 1.51 R -1.92			296 7.42 .12		
<u>AA</u>			376 1.73 -.15			354 1.83 .80			258 1.49 -1.95			Avg 7.42		
200	3.38 s	14.60	360	1.73	-.15	090	1.83	.71	434	1.44	-2.34	055	7.38	-.22
028	1.83	1.04	307	1.72	-.17	023	1.83	.67	372	1.41	-2.52	040	7.40	-.30
193	1.81	.96	096	1.72	-.19	028	1.83	.66	262	0.10 s	-12.56	029	7.35	-.43
392	1.79	.73	106	1.71	-.30	193	1.81	.62				288	7.32	-.55
043	1.77	.56	330	1.71	-.35	042	1.81	.56	Meth: 131.00 PCT			193	7.30	-.77
177	1.76	.47	035	1.70	-.37	392	1.79	.39	<u>Water Soluble Magnes</u>			095	7.29	-.78
029	1.76	.42	426	1.69	-.45	430	1.79	.35	<u>AA</u>			106	7.08	-1.99
040	1.75	.41	389	1.68	-.56	043	1.77	.25	029	1.63	.87			
137	1.74	.39	288	1.67	-.57	420	1.76	.22	Avg 1.54			Meth: 144.02 PCT		
055	1.73	.33	433	1.66	-.64	177	1.76	.16	193	1.45	-.87	<u>Sulfur</u>		
397	1.72	.21	065	1.72 R	-.65	029	1.76	.12	Meth: 131.30 PCT			<u>Gravimetric</u>		
Avg	1.71		009	1.64	-.79	040	1.75	.12	<u>Water Soluble Magnes</u>			136	7.34	.86
257	1.69	-.17	102	1.64	-.80	131	1.75	.06	<u>ICP</u>			029	7.28	.37
296	1.64	-.59	324	1.64	-.83	Avg	1.74		432	1.53	1.53	Avg	7.23	
425	1.51 R	-1.93	247	1.50	-1.85	037	1.74	-.05	Avg	1.46		434	7.08	-1.27
258	1.49	-1.94	372	1.41	-2.52	376	1.73	-.12	300	1.46	-.12	Meth: 144.99 PCT		
434	1.44	-2.38				360	1.73	-.12	027	1.41	-.38	<u>Sulfur</u>		
262	0.10 s	-14.02				307	1.72	-.13	Meth: 131.XX PCT			<u>Other</u>		
						096	1.72	-.15	<u>Water Soluble Magnes</u>			423	7.79	1.45
			Meth: 121.70 PCT			397	1.72	-.21	432	1.53 R	2.28	232	7.75	1.34
			<u>Acid Soluble Magnesi</u>			055	1.73	-.24	029	1.63	1.58	390	7.69	1.15
			<u>Titrimetric</u>			137	1.74	-.27	Avg	1.49		360	7.67	1.04
			415	1.98	.71	106	1.71	-.27	300	1.46	-.38	354	7.54 R	.98
			Meth: 121.99 PCT			035	1.70	-.34	193	1.45	-.41	330	7.63	.90
			<u>Acid Soluble Magnesi</u>			257	1.69	-.39	027	1.41	-.83	027	7.56	.67
			<u>Other</u>			426	1.69	-.42	Meth: 131.00 PCT			307	7.36	.49
			042	1.81	-.71	389	1.68	-.53	<u>Water Soluble Magnes</u>			300	7.48	.43
						* 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: 144.99 PCT			Meth: 144.XX PCT			Meth: 151.30 PPM			Meth: 165.00 PCT			Meth: 165.XX PCT		
<u>Sulfur</u>			<u>Sulfur</u>			<u>Arsenic</u>			<u>Acid Soluble Boron</u>			<u>Acid Soluble Boron</u>		
Other			055	7.38	-.04	ICP			Spectrometric			423	0.051	.39
090	7.37	.41	029	7.35	-.21	065	5.63	.72	392	0.046	-.63	300	0.050	.20
430	7.47	.39	136	7.34	-.23	Avg	5.26		055	0.046	-.67	137	0.050	.20
096	7.38	.23	288	7.32	-.30	037	5.22	-.23	200	0.045 R	-1.28	433	0.050	.18
Avg	7.39		096	7.38	-.30	106	4.95	-.34	037	0.040	-1.88	Avg	0.049	
177	7.32	-.12	177	7.32	-.33	043	4.75	-.62	Meth: 165.99 PCT			029	0.049	-.04
389	7.30	-.17	389	7.30	-.40	096	4.70	-.62	<u>Acid Soluble Boron</u>			040	0.048	-.29
023	7.28	-.29	095	7.29	-.47	102	4.46	-.88	<u>Other</u>			009	0.048	-.33
376	7.21	-.50	193	7.30	-.47	Meth: 151.XX PPM			043	0.072 s	6.15	257	0.048	-.44
247	7.20	-.52	029	7.28	-.49	<u>Arsenic</u>			360	0.055	1.41	232	0.047	-.50
361	7.20	-.52	023	7.28	-.54	300	12.05	1.97	090	0.053	1.13	028	0.047	-.54
037	7.17 R	-1.05	090	7.37	-.57	247	11.80	1.90	288	0.052	.90	042	0.046	-.82
009	6.95	-1.35	307	7.36	-.68	376	7.12	.42	354	0.052	.58	392	0.046	-.92
422	6.83	-1.73	376	7.21	-.84	Avg	5.85		324	0.051	.48	055	0.046	-.93
131	6.65 S	-2.33	247	7.20	-.88	065	5.63	-.19	423	0.051	.36	422	0.044	-1.38
035	6.59 S	-2.53	361	7.20	-.88	037	5.22	-.21	433	0.050	.15	200	0.045 R	-1.62
Meth: 144.XX PCT			106	7.08	-1.40	106	4.95	-.29	300	0.050	.15	430	0.045 R	-1.62
<u>Sulfur</u>			434	7.08	-1.40	043	4.75	-.36	Avg	0.049		307	0.048 R	-1.99
423	7.79	1.80	037	7.17 R	-1.53	096	4.70	-.37	009	0.048	-.43	037	0.040	-2.41
262	7.78	1.78	009	6.95	-2.01	136	4.60	-.42	232	0.047	-.64	Meth: 171.10 PCT		
232	7.75	1.66	422	6.83	-2.53	102	4.46	-.44	042	0.046	-1.00	<u>Water Soluble Boron</u>		
390	7.69	1.41	131	6.65 s	-3.34	040	4.30	-.49	422	0.044	-1.62	<u>Spectrometric</u>		
043	7.67	1.29	035	6.59 s	-3.62	200	0.60	-1.67	430	0.045	-1.87	296	0.043	.71
360	7.67	1.24	Meth: 151.00 PPM			Meth: 165.00 PCT			307	0.048 R	-2.24	Meth: 171.99 PCT		
354	7.54 R	1.24	<u>Arsenic</u>			<u>Acid Soluble Boron</u>			Meth: 165.XX PCT			<u>Water Soluble Boron</u>		
330	7.63	1.07	<u>Atomic Absorption</u>			<u>Spectrometric</u>			<u>Acid Soluble Boron</u>			<u>Other</u>		
027	7.56	.75	300	12.05	1.50	372	0.070 s	4.53	043	0.072 s	5.57	027	0.049	.00
102	7.55	.71	Avg	5.39		023	0.059	2.23	372	0.070 s	5.18	Meth: 171.XX PCT		
105	7.48	.68	136	4.60	-.20	258	0.052	.75	023	0.059	2.46	<u>Water Soluble Boron</u>		
300	7.48	.43	040	4.30	-.25	296	0.050	.57	360	0.055	1.33	027	0.049	.71
430	7.47	.37	200	0.60	-1.08	137	0.050	.32	090	0.053	1.07	Avg	0.046	
324	7.45	.29	Meth: 151.30 PPM			029	0.049	.11	288	0.052	.86	296	0.043	-1.00
028	7.44	.23	<u>Arsenic</u>			Avg	0.048		258	0.052	.70	Meth: 171.99 PCT		
137	7.43	.23	<u>ICP</u>			040	0.048	-.10	296	0.050	.63	<u>Water Soluble Boron</u>		
040	7.40	.20	247	11.80 s	7.14	257	0.048	-.23	354	0.052	.59	027	0.049	.71
296	7.42	.16	376	7.12	2.07	028	0.047	-.31	324	0.051	.49	Avg	0.046	
Avg	7.39		S/s=Screened Outlier			R=Duplicate Range too large			A=Analysis beyond 3-s limits			296		
* X=Excluded from lab performance												0.043		

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index		
Meth: 181.00 PPM			Meth: 181.XX PPM			Meth: 190.99 PCT			Meth: 191.30 PPM			Meth: 202.30 PPM				
Cadmium			<u>Cadmium</u>			Water Soluble Chlori			Chromium			Acid Soluble Cobalt				
<u>Atomic Absorption</u>						<u>Other</u>			<u>ICP</u>			<u>ICP</u>				
200	6.50	1.93	065	4.67	.39	009	3.17	.83	037	47.45	-.23	009	3.15	1.32		
363	5.00	.41	390	4.53	.30	Avg	3.13		247	46.00	-.72	040	2.55	.66		
Avg	4.58		Avg	4.45		360	3.08	-.90	232	45.15	-.93	324	2.55	.66		
040	4.34	-.28	102	4.41	-.04	288	2.52 S	-10.99	065	44.56	-1.32	035	2.62	.45		
136	3.95	-.62	037	4.42	-.11	Meth: 190.XX PCT			324	43.50	-1.52	102	2.57	.40		
300	3.85	-.72	106	4.40	-.12	<u>Water Soluble Chlori</u>			434	31.45 s	-5.83	037	2.48	.21		
193	3.85	-.79	040	4.34	-.20	262	3.94 s	5.28	Meth: 191.99 PPM			Avg				
Meth: 181.30 PPM			376	4.27	-.20	392	3.63	2.14	Chromium			106	2.10	-.42		
Cadmium			232	4.00	-.48	422	3.58	1.87	<u>Other</u>			390	2.13	-.80		
<u>ICP</u>			136	3.95	-.53	200	3.39	.68	300			43.00	.71	Meth: 202.XX PPM		
247	87.60 s	196.63	035	3.91	-.58	029	3.34	.55	Meth: 191.XX PPM			<u>Acid Soluble Cobalt</u>				
096	7.05 A	6.87	324	3.85	-.63	027	3.36	.50	<u>Chromium</u>			009	3.15	1.34		
065	4.67	1.44	300	3.85	-.63	Avg	3.27		390	52.44 R	2.07	040	2.55	.68		
390	4.53	1.12	193	3.85	-.73	105	3.24	-.23	009	51.55	1.40	324	2.55	.68		
037	4.42	.71	434	3.75	-.74	296	3.23	-.30	106	51.00	1.21	035	2.62	.43		
106	4.40	.66	009	3.30	-1.21	043	3.22	-.40	096	51.00	1.21	193	2.55	.40		
102	4.41	.65	Meth: 190.00 PCT			300	3.18	-.56	102	49.14	.61	102	2.57	.39		
376	4.27	.34	Water Soluble Chlori			102	3.18	-.58	376	48.79	.48	037	2.48	.19		
Avg	4.14		<u>Titrimetric</u>			009	3.17	-.62	037	47.45	.20	Avg	2.37			
232	4.00	-.40	262	3.94 s	5.17	028	3.13	-.90	Avg	47.36		106	2.10	-.47		
035	3.91	-.58	392	3.63	1.99	055	3.12	-.96	035	47.15	-.11	390	2.13	-.85		
324	3.85	-.69	422	3.58	1.72	360	3.08	-1.17	247	46.00	-.56	065	1.05	-2.30		
434	3.75	-.92	200	3.39	.53	040	2.99 R	-1.95	232	45.15	-.73	Meth: 221.00 PCT				
009	3.30	-1.97	029	3.34	.45	288	2.52 s	-4.56	065	44.56	-1.12	Acid Soluble Copper				
Meth: 181.99 PPM			027	3.36	.35	Meth: 191.30 PPM			324	43.50	-1.28	<u>Atomic Absorption</u>				
Cadmium			Avg	3.30		Chromium			300	43.00	-1.49	262	0.0100 S	13.65		
<u>Other</u>			105	3.24	-.38	<u>ICP</u>			434	31.45 s	-5.29	043	0.0062	1.43		
362	6.50	.71	296	3.23	-.45	390	52.44 R	2.11	Meth: 202.00 PPM			425	0.0059	.63		
Meth: 181.XX PPM			043	3.22	-.53	009	51.55	1.37	Acid Soluble Cobalt			193	0.0058	.17		
Cadmium			300	3.18	-.71	106	51.00	1.16	<u>AA</u>			Avg	0.0057			
247	87.60 s	87.97	102	3.18	-.73	096	51.00	1.16	193	2.55	.71	095	0.0055	-.74		
096	7.05	2.76	028	3.13	-1.05	102	49.14	.51	Meth: 202.00 PPM			434	0.0054	-1.23		
362	6.50 R	2.29	055	3.12	-1.10	376	48.79	.37	Acid Soluble Cobalt			029	0.0054 R	-1.88		
200	6.50	2.24	040	2.99 R	-2.09	Avg	47.75		AA							
* 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: 221.30 PCT			Meth: 221.XX PCT			Meth: 241.00 PCT			Meth: 241.99 PCT			Meth: 241.XX PCT		
<u>Acid Soluble Copper</u>			<u>Acid Soluble Copper</u>			<u>Acid Soluble Iron</u>			<u>Acid Soluble Iron</u>			<u>Acid Soluble Iron</u>		
ICP			426	0.0061	.85	<u>Atomic Absorption</u>			<u>Other</u>			042	0.39	-.32
307	0.0421 s	68.36	102	0.0060	.79	029	0.37	-.11	362	0.50 S	3.57	177	0.37	-.39
372	0.0100 s	5.97	390	0.0060	.77	434	0.32	-1.41	042	0.39	.88	288	0.38	-.40
354	0.0095 s	5.35	425	0.0059	.53	028	0.32	-1.51	Avg	0.35		247	0.38	-.40
330	0.0075	2.64	193	0.0058	.30	428	0.29 S	-2.07	065	0.32	-.85	029	0.37	-.41
040	0.0065	1.38	Avg	0.0056		095	0.23 S	-3.54				035	0.37	-.59
009	0.0063	1.08	095	0.0055	-.08	Meth: 241.30 PCT			Meth: 241.XX PCT			430	0.37	-.68
360	0.0062	.90	247	0.0054	-.27	<u>Acid Soluble Iron</u>			<u>Acid Soluble Iron</u>			426	0.36	-.81
426	0.0061	.82	434	0.0054	-.31	ICP			372	1.62 s	35.28	300	0.36	-.96
102	0.0060	.75	423	0.0054	-.44	432	0.49 s	3.99	362	0.50 s	3.09	027	0.33	-1.66
390	0.0060	.74	300	0.0052	-.45	354	0.45 R	2.59	432	0.49	2.92	065	0.32	-1.96
Avg	0.0055		288	0.0051	-.68	232	0.43	1.75	354	0.45 R	1.92	434	0.32	-1.99
247	0.0054	-.21	029	0.0054	-.72	390	0.43	1.40	232	0.43	1.32	028	0.32 R	-2.09
300	0.0052	-.37	376	0.0055	-.74	330	0.43	1.39	390	0.43	1.07	428	0.29 s	-2.75
423	0.0054	-.38	035	0.0051	-.79	389	0.42	1.17	330	0.43	1.07	095	0.23 s	-4.45
288	0.0051	-.58	232	0.0051	-.80	106	0.42	.99	389	0.42	.91	Meth: 251.00 PPM		
376	0.0055	-.67	037	0.0050	-.81	324	0.41	.61	043	0.42	.78	Lead		
035	0.0051	-.68	389	0.0050	-.81	423	0.40	.45	106	0.42	.78	<u>Atomic Absorption</u>		
232	0.0051	-.69	106	0.0050	-.89	102	0.40	.41	425	0.41	.76	136	5.25	1.29
037	0.0050	-.70	065	0.0053 X	-.89	422	0.40	.38	137	0.41	.69	193	5.00	.82
389	0.0050	-.70	324	0.0050	-.90	096	0.40	.37	324	0.41	.51	363	4.50	.73
106	0.0050	-.77	433	0.0049	-.98	360	0.40	.33	037	0.40	.44	Avg	4.43	
324	0.0050	-.78	422	0.0045	-1.71	376	0.40	.26	423	0.40	.39	040	4.41	-.41
065	0.0053 X	-.79	Meth: 241.00 PCT			433	0.39	.18	102	0.40	.36	200	4.00	-.63
433	0.0049	-.85	<u>Acid Soluble Iron</u>			Avg	0.39		422	0.40	.35	300	3.45	-1.44
422	0.0045	-1.52	<u>Atomic Absorption</u>			009	0.39	-.13	096	0.40	.34	Meth: 251.30 PPM		
Meth: 221.XX PCT			372	1.62 s	30.98	023	0.39	-.25	360	0.40	.31	Lead		
<u>Acid Soluble Copper</u>			043	0.42	1.00	131	0.38	-.38	193	0.39	.29	<u>ICP</u>		
307	0.0421 s	74.93	425	0.41	.98	307	0.38	-.48	055	0.40	.25	324	8.40 S	2.80
262	0.0100 s	6.50	137	0.41	.90	288	0.38	-.66	376	0.40	.25	096	6.85	1.46
372	0.0100 s	6.50	037	0.40	.71	247	0.38	-.66	433	0.39	.16	102	6.14	.84
354	0.0095 s	5.82	055	0.40	.51	035	0.37	-.94	Avg	0.39	.09	434	5.90	.63
330	0.0075	2.85	193	0.39	.45	430	0.37	-1.05	040	0.39	-.14	065	5.81	.55
040	0.0065	1.47	296	0.39	.37	426	0.36	-1.25	023	0.39	-.15	376	5.69	.45
009	0.0063	1.14	040	0.39	.27	300	0.36	-1.45	131	0.38	-.20	Avg	5.17	
360	0.0062	.95	Avg	0.38		027	0.33	-2.44	307	0.38	-.28	106	4.45	-.63
043	0.0062	.90	177	0.37	-.04	* X=Excluded from lab performance			296	0.39	-.31	S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits		

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 251.30 PPM			Meth: 261.00 PCT			Meth: 261.30 PCT			Meth: 261.XX PCT			Meth: 271.30 PCT		
Lead			Acid Soluble Mangane			Acid Soluble Mangane			<u>Acid Soluble Mangane</u>			Water Soluble Mangan		
<u>ICP</u>			<u>AA</u>			<u>ICP</u>			433 0.097 .69			<u>ICP</u>		
247	4.30	-.75	392	0.090	-.59	096	0.088	-.96	422	0.097	.67	432	0.055	.88
037	4.27	-.78	028	0.094	-.61	354	0.087	-1.12	028	0.094	.63	Avg	0.032	
043	3.11	-1.79	296	0.083	-1.50	307	0.079	-2.27	009	0.096	.59	300	0.008	-.86
Meth: 251.XX PPM			043 0.083 -1.53			300 0.060 s -5.03			390 0.096 .58			Meth: 271.99 PCT		
Lead			095 0.053 S -5.49			376 0.055 s -5.86			389 0.095 .39			Water Soluble Mangan		
324	8.40 s	3.38	Meth: 261.11 PCT			372 0.050 s -6.59			324 0.093 .38			<u>Other</u>		
096	6.85	1.89	Acid Soluble Mangane			Meth: 261.31 PCT			106 0.093 .34			027 0.024 .00		
102	6.14	1.21	<u>AA</u>			<u>ICP</u>			035 0.094 .21					
434	5.90	.98	029	0.097	.96	324	0.093	.87	Avg	0.092		Meth: 271.XX PCT		
065	5.81	.89	Avg	0.090		Avg	0.082		247	0.092	-.12	<u>Water Soluble Mangan</u>		
376	5.69	.78	434	0.088	-.64	288	0.071	-.86	257	0.091	-.30	432	0.055 R	5.39
136	5.25	.49	040	0.086	-1.08	Meth: 261.99 PCT			392	0.090	-.38	027	0.024	1.27
193	5.00	.12	Meth: 261.30 PCT			Acid Soluble Mangane			065	0.089	-.54	Avg	0.014	
Avg	4.87		Acid Soluble Mangane			Acid Soluble Mangane			360	0.088	-.55	029	0.011	-.44
106	4.45	-.43	<u>ICP</u>			<u>Other</u>			023	0.087	-.77	300	0.008	-.84
040	4.41	-.52	432	0.120 s	5.38	042	0.097	.71	423	0.086	-.79	Meth: 281.00 PPM		
247	4.30	-.55	037	0.095 R	2.40	Meth: 261.XX PCT			096	0.088	-.81	Mercury		
037	4.27	-.58	232	0.102	1.72	<u>Acid Soluble Mangane</u>			434	0.088	-.85	<u>Atomic Absorption</u>		
363	4.50	-.59	102	0.097	1.21	177	0.925 s	110.19	354	0.087	-.94	193	0.21	.85
200	4.00	-.83	090	0.095	.91	258	0.315 s	29.85	296	0.083	-1.22	363	0.17	.43
300	3.45	-1.36	131	0.097	.90	432	0.120 s	4.55	043	0.083	-1.26	Avg	0.13	
043	3.11	-1.70	433	0.097	.81	055	0.115 s	4.49	040	0.086	-1.34	300	0.01	-1.27
Meth: 261.00 PCT			422	0.097	.79	037	0.095 R	2.02	288	0.071	-2.79	Meth: 289.00 PPM		
Acid Soluble Mangane			009	0.096	.70	232	0.102	1.45	300	0.060 s	-4.23	Molybdenum		
<u>AA</u>			390	0.096	.68	397	0.101	1.36	376	0.055 s	-4.94	<u>Atomic Absorption</u>		
177	0.925 s	111.95	389	0.095	.46	193	0.101	1.19	095	0.053 s	-5.14	040 4.15 -.71		
258	0.315 s	30.14	106	0.093	.40	137	0.100	1.05	372	0.050 s	-5.56	Meth: 289.30 PPM		
055	0.115 S	4.40	035	0.094	.24	262	0.100	1.05	Meth: 271.00 PCT			Molybdenum		
397	0.101	1.17	Avg	0.092		102	0.097	1.02	Water Soluble Mangan			<u>ICP</u>		
193	0.101	.96	247	0.092	-.14	029	0.097	.94	<u>Atomic Abs</u>			288 8.00 s 5.02		
262	0.100	.82	065	0.089	-.65	425	0.097	.77	029	0.011	.71	035 5.43 .89		
137	0.100	.82	360	0.088	-.66	090	0.095	.77				106 5.40 .84		
425	0.097	.60	426	0.086	-.92	131	0.097	.77				232 5.30 .82		
Avg	0.094		023	0.087	-.92	042	0.097	.70						
257	0.091	-.48	423	0.086	-.95									

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.XX PPM Selenium			Meth: 321.00 PCT Acid Soluble Zinc			Meth: 321.99 PCT Acid Soluble Zinc		
<u>ICP</u>			<u>ICP</u>			<u>ICP</u>			<u>Atomic Absorption</u>			<u>Other</u>		
009	5.20	.54	102	13.69	.43	065	1.75 X	1.31	028	0.104	-.84	042	0.108 X	.71
433	5.04	.30	Avg	13.20		Avg	0.93		425	0.078	-2.63			
065	4.88	.24	106	13.00	-.18	040	0.48	-.68						
Avg	4.85		037	12.60	-.54				Meth: 321.30 PCT			Meth: 321.XX PCT		
102	4.62	-.35	065	11.89	-1.18	Meth: 311.99 PCT			<u>ICP</u>			<u>Acid Soluble Zinc</u>		
324	4.40	-.74	324	11.45	-1.57	Sodium			432	0.175 s	8.07	193	0.156 s	4.80
247	3.35	-2.28				Other			258	0.145 s	3.65	258	0.145 s	3.65
			Meth: 289.XX PPM Molybdenum			Meth: 291.XX PPM Nickel			423	1.82	1.38	232	0.127	1.92
			288	8.00 s	5.00	193	40.50 s	15.89	422	1.80	1.11	106	0.125	1.77
			035	5.43	.98	247	17.50	2.29	232	1.79	1.04	390	0.123	1.48
			106	5.40	.92	232	13.95 R	.93	Avg	1.71		090	0.120	1.09
			232	5.30	.89	009	14.60	.58	009	1.69	-.24	330	0.120	1.09
			009	5.20	.63	376	14.09	.42	307	1.68	-.41	423	0.117	.74
			433	5.04	.39	035	13.95	.37	102	1.65	-.79	102	0.115	.47
			065	4.88	.28	102	13.69	.03	288	1.65	-.82	247	0.112	.40
			Avg	4.78		Avg	13.63		035	1.61	-1.33	426	0.112	.22
			102	4.62	-.24	106	13.00	-.37	360	0.111	.12	360	0.111	.12
			324	4.40	-.63	037	12.60	-.61	Avg	0.111		430	0.110	-.08
			040	4.15	-1.14	390	13.59	-.63	430	0.110	-.08	376	0.110	-.08
			247	3.35	-2.13	065	11.89	-1.03	376	0.110	-.08	324	0.110	-.08
						324	11.45	-1.28	131	0.110	-.14	131	0.110	-.14
									422	0.111	-.18	422	0.111	-.18
									023	0.109	-.23	023	0.109	-.23
									037	0.108	-.31	037	0.108	-.31
									288	0.111	-.41	288	0.111	-.41
									065	0.107	-.73	065	0.107	-.73
									009	0.104	-.77	009	0.104	-.77
									389	0.105	-.88	389	0.105	-.88
									035	0.101	-1.13	035	0.101	-1.13
									433	0.101	-1.19	433	0.101	-1.19
									300	0.100	-1.25	300	0.100	-1.25
									027	0.091	-2.36	027	0.091	-2.36
									307	0.090 R	-2.48	307	0.090 R	-2.48
									354	0.086 s	-4.91	354	0.086 s	-4.91
									372	0.060 s	-5.92	372	0.060 s	-5.92
												288	0.111	-.40

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>
Meth: 321.XX PCT											
<u>Acid Soluble Zinc</u>											
037	0.108	-.41									
042	0.108 X	-.42									
177	0.107	-.49									
065	0.107	-.76									
009	0.104	-.83									
028	0.104	-.90									
389	0.105	-.91									
296	0.105	-.91									
035	0.101	-1.17									
433	0.101	-1.22									
300	0.100	-1.28									
027	0.091	-2.31									
307	0.090	-2.42									
425	0.078 A	-3.64									
354	0.086 s	-4.63									
372	0.060 s	-5.62									

* 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	6	0.00	1.01	0.26	060.XX	8	0.00	1.02	0.18
001.99	10	1.79	5.95	0.17	101.00	13	0.00	1.00	0.18
001.XX	16	1.31	5.52	0.19	101.30	25	0.18	1.20	0.25
002.99	3	0.00	1.11	0.08	101.99	3	8.59	14.87	1.10
002.XX	5	0.00	1.06	0.08	101.XX	42	0.11	2.05	0.24
009.10	7	0.00	1.04	0.10	121.00	17	- 0.07	5.16	0.26
009.XX	8	0.00	1.03	0.13	121.30	31	0.09	1.09	0.19
010.11	7	- 1.09	3.02	1.34	121.XX	50	0.02	2.75	0.21
010.12	6	0.00	1.04	0.10	131.00	2	0.00	1.22	0.10
010.16	2	0.00	1.16	0.28	131.30	3	0.00	0.41	0.85
010.60	51	- 0.03	1.40	0.36	131.XX	5	0.08	0.95	1.01
010.99	6	0.62	2.19	1.06	144.01	15	0.02	0.97	0.26
010.XX	69	0.06	1.46	0.55	144.02	3	0.00	1.09	0.19
020.10	6	0.00	0.97	0.37	144.99	23	- 0.11	1.08	0.31
020.20	19	- 0.54	4.36	0.41	144.XX	40	- 0.17	1.23	0.34
020.40	7	0.00	0.98	0.33	151.00	4	0.00	1.08	0.05
020.50	10	- 0.31	1.26	0.58	151.30	8	0.89	2.68	0.35
020.XX	41	- 0.16	2.46	0.61	151.XX	12	0.00	1.02	0.09
030.XX	4	8.88	17.77	2.44	165.00	13	0.292	1.578	0.355
040.20	2	0.00	1.19	0.20	165.99	15	0.380	1.791	0.740
040.XX	6	0.00	1.02	0.22	165.XX	28	0.298	1.702	0.562
041.10	21	6.26	28.46	28.54	171.XX	2	0.000	1.000	0.500
041.20	4	0.00	0.92	0.48	181.00	6	0.00	1.01	0.25
041.40	5	0.00	1.06	0.07	181.30	13	15.65	54.42	0.37
041.50	9	- 0.39	1.48	0.36	181.XX	20	4.51	19.67	0.26
041.60	11	0.11	1.00	0.55	190.00	14	0.14	1.51	0.95
041.99	2	0.00	1.19	0.21	190.99	3	- 3.66	6.40	0.23
041.XX	41	1.21	7.95	13.60	190.XX	17	- 0.13	1.82	0.86
048.20	7	0.00	1.03	0.15	191.30	13	- 0.32	1.94	0.42
048.XX	8	0.16	1.05	0.32	191.XX	14	- 0.26	1.77	0.39
050.00	20	0.78	2.31	0.53	202.30	9	0.00	0.95	0.37
050.30	9	- 0.32	1.52	0.42	202.XX	10	0.00	0.95	0.38
050.50	7	- 0.64	1.58	0.47	221.00	7	1.7762	5.3193	0.5918
050.51	9	0.00	1.02	0.16	221.30	24	2.5027	10.024	9.7807
050.60	7	0.73	2.15	0.10	221.XX	31	2.3302	9.7122	9.4390
050.61	8	0.00	1.02	0.18	241.00	15	1.83	8.17	0.19
050.99	16	0.00	0.99	0.24	241.30	26	0.25	1.32	0.22
050.XX	70	0.06	1.49	0.43	241.99	3	1.18	2.21	0.28
060.00	8	0.00	1.02	0.18	241.XX	44	0.77	5.48	0.19

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
251.00	6	0.00	0.95	0.41					
251.30	10	0.28	1.30	0.19					
251.XX	16	0.21	1.27	0.23					
261.00	14	9.931	30.478	1.752					
261.11	3	0.000	0.635	0.751					
261.30	25	- 0.504	2.329	0.911					
261.31	2	0.000	1.200	0.174					
261.XX	45	2.821	17.054	1.142					
271.30	2	0.000	1.211	0.129					
271.XX	4	1.337	2.825	0.333					
281.00	3	0.00	1.12	0.06					
281.XX	3	0.00	1.12	0.06					
289.30	10	0.48	1.78	0.52					
289.XX	11	0.43	1.71	0.53					
291.30	11	0.41	1.42	0.57					
291.XX	12	1.33	4.63	0.69					
301.XX	3	0.00	1.08	0.23					
311.99	8	0.00	1.02	0.15					
311.XX	8	0.00	1.02	0.15					
321.00	18	0.159	1.162	0.264					
321.30	29	- 0.126	2.136	0.960					
321.XX	47	0.058	1.928	0.743					