

MAGRUDER - Fertilizer Check Sample No. - 200407 Grade 10-10-10

- Pass 1 Results for 90 Labs - - Pass 2 Results for 89 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	8	9.89	0.14	0.11	8	9.89	0.14	0.11
Ammoniacal Nitrogen, Other .....		001.99	13	9.92	0.14	0.08	13	9.92	0.14	0.08
Method Group 001.XX PCT			21	9.91	0.14	0.09	21	9.91	0.14	0.09
Nitrogen From Urea, Urease (as N) .....	959.03	005.00	1	0.14	0.03	0.04	1	0.14	0.03	0.04
Ammon & Nitrate N, Devarda .....	892.01	009.10	2	9.99	0.14	0.04	2	9.99	0.14	0.04
Total Nitrogen, Modified Comprehensive	978.02	010.11	6	9.86	0.09	0.03	6	9.86	0.09	0.03
Total Nitrogen, Salicylic .....	955.04D	010.12	4	9.79	0.13	0.01	3	9.76	0.13	0.00
Total Nitrogen, Combustion .....		010.60	52	10.02	0.13	0.08	48	10.02	0.12	0.07
Total Nitrogen, Other .....		010.99	8	10.01	0.13	0.10	8	10.01	0.13	0.10
Method Group 010.XX PCT			71	9.99	0.14	0.08	66	9.98	0.14	0.06
Total Phosphate, Grav Quimociac .....	962.02	020.10	10	10.56	0.21	0.08	10	10.56	0.21	0.08
Total Phosphate, Spectrometric .....	958.01	020.20	20	10.53	0.33	0.13	18	10.48	0.29	0.06
Total Phosphate, Automated .....	978.01	020.40	7	10.46	0.18	0.08	6	10.45	0.17	0.04
Total Phosphate, ICP .....		020.50	9	10.62	0.32	0.13	9	10.62	0.32	0.13
Total Phosphate, Other .....		020.99	1	10.60	0.06	0.09	1	10.60	0.06	0.09
Method Group 020.XX PCT			47	10.54	0.28	0.11	44	10.52	0.25	0.08
Insoluble Phosphate, Grav Quimociac ...	963.03C	030.10	3	0.06	0.04	0.00	3	0.06	0.04	0.00
Insoluble Phosphate, Automated .....	978.01	030.40	2	0.12	0.09	0.04	2	0.12	0.09	0.04
Insoluble Phosphate, Other .....		030.99	1	0.06	0.01	0.01	1	0.06	0.01	0.01
Method Group 030.XX PCT			6	0.08	0.06	0.02	5	0.08	0.07	0.01
InDir Available Phosphate, Grav Quim ..	960.02	040.10	3	10.49	0.08	0.05	3	10.49	0.08	0.05
InDir Available Phosphate, Spectrometri	960.02	040.20	2	10.41	0.05	0.05	2	10.41	0.05	0.05
InDir Available Phosphate, Automated ..	960.02	040.40	1	10.48	0.02	0.03	1	10.48	0.02	0.03
InDir Available Phosphate, ICP .....		040.50	1	10.35	0.06	0.09	1	10.35	0.06	0.09
InDir Available Phosphate, Other .....		040.99	2	10.33	0.26	0.17	2	10.33	0.26	0.17
Method Group 040.XX PCT			9	10.42	0.14	0.08	8	10.41	0.13	0.05
Dir Available Phosphate, Grav Quimociac	960.03E	041.10	18	10.56	0.14	0.08	16	10.58	0.12	0.05
Dir Available Phosphate, Spectrometric	960.03D	041.20	4	10.49	0.20	0.12	4	10.49	0.20	0.12
Dir Available Phosphate, Automated ....	978.01	041.40	4	10.52	0.10	0.04	4	10.52	0.10	0.04
Dir Available Phosphate, ICP .....		041.50	9	10.53	0.19	0.07	9	10.53	0.19	0.07
Dir Available Phosphate, EDTA Extract .	993.01	041.60	12	10.52	0.09	0.06	11	10.54	0.07	0.05
Method Group 041.XX PCT			49	10.53	0.16	0.08	45	10.53	0.15	0.06
Water Soluble Phosphate, Spectrometric	970.01	048.20	5	9.56	0.09	0.07	5	9.56	0.09	0.07
Method Group 048.XX PCT			5	9.56	0.09	0.07	5	9.56	0.09	0.07
Soluble Potash, STPB Oxalate .....	958.02	050.00	20	10.13	0.17	0.08	20	10.13	0.17	0.08
Soluble Potash, STPB Citrate .....	969.04	050.10	1	10.19	0.02	0.02	1	10.19	0.02	0.02
Soluble Potash, AA (Oxalate) .....		050.30	9	10.02	0.26	0.08	10	9.95	0.34	0.08
Soluble Potash, AA (Citrate) .....		050.31	1	9.80	0.00	0.00	1	9.80	0.00	0.00
Soluble Potash, ICP (Oxalate) .....		050.50	7	10.14	0.16	0.22	7	10.14	0.16	0.22

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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
Soluble Potash, ICP (Citrate) .....		050.51	10	10.19	0.22	0.07	9	10.22	0.21	0.05
Soluble Potash, Flame (Oxalate) .....	983.02(a)	050.60	6	10.34	0.15	0.08	6	10.34	0.15	0.08
Soluble Potash, Flame (Citrate) .....	983.02(b)	050.61	6	10.10	0.26	0.18	6	10.10	0.26	0.18
Soluble Potash, Other .....		050.99	15	10.01	0.20	0.12	14	9.98	0.17	0.10
Method Group 050.XX PCT			77	10.11	0.23	0.11	69	10.12	0.21	0.08
Free Water, Vacuum Oven .....	965.08B	060.00	9	0.93	0.27	0.04	9	0.93	0.27	0.04
Free Water, Other .....		060.99	1	1.42	0.01	0.02	1	1.42	0.01	0.02
Method Group 060.XX PCT			10	0.98	0.30	0.04	10	0.98	0.30	0.04
Acid Soluble Calcium, AA .....	945.04	101.00	1	4.62	0.15	0.21	1	4.62	0.15	0.21
Acid Soluble Calcium, ICP .....		101.30	13	4.82	0.40	0.20	12	4.85	0.39	0.16
Acid Soluble Calcium, Other .....		101.99	1	6.11	0.02	0.03	1	6.11	0.02	0.03
Method Group 101.XX PCT			15	4.89	0.50	0.19	14	4.93	0.49	0.15
Acid Soluble Magnesium, AA .....	984.01	121.00	18	1.38	0.07	0.03	16	1.38	0.07	0.02
Acid Soluble Magnesium, ICP .....		121.30	24	1.35	0.11	0.06	23	1.35	0.11	0.05
Acid Soluble Magnesium, Other .....		121.99	1	1.35	0.16	0.22	1	1.35	0.16	0.22
Method Group 121.XX PCT			44	1.37	0.11	0.05	41	1.36	0.09	0.04
Water Soluble Magnesium, AA .....		131.00	2	1.14	0.12	0.02	2	1.14	0.12	0.02
Water Soluble Magnesium, ICP .....		131.30	1	1.46	0.05	0.08	1	1.46	0.05	0.08
Method Group 131.XX PCT			3	1.25	0.19	0.04	3	1.25	0.19	0.04
Sulfur, Gravimetric .....	980.02a	144.01	14	11.71	0.15	0.05	13	11.69	0.12	0.04
Sulfur, Spectrometric .....		144.70	1	11.26	0.03	0.04	1	11.26	0.03	0.04
Sulfur, Other .....		144.99	16	11.70	0.46	0.14	16	11.74	0.52	0.12
Method Group 144.XX PCT			31	11.69	0.35	0.10	29	11.67	0.33	0.07
Arsenic, Atomic Absorption .....		151.00	2	162.16	20.62	8.00	2	162.16	20.62	8.00
Arsenic, ICP .....		151.30	10	165.60	23.22	5.75	10	165.60	23.22	5.75
Arsenic, Other .....		151.99	1	170.00	0.00	0.00	1	170.00	0.00	0.00
Method Group 151.XX PPM			13	165.41	21.55	5.65	13	165.41	21.55	5.65
Acid Soluble Boron, Spectrometric .....	982.01	165.00	11	0.055	0.005	0.002	10	0.055	0.005	0.001
Acid Soluble Boron, Other .....		165.99	13	0.060	0.007	0.002	13	0.060	0.007	0.002
Method Group 165.XX PCT			24	0.058	0.007	0.002	23	0.058	0.007	0.002
Water Soluble Boron, Spectrometric .....	982.01	171.10	1	0.060	0.000	0.000	1	0.060	0.000	0.000
Cadmium, Atomic Absorption .....		181.00	5	64.01	5.59	3.12	5	64.01	5.59	3.12
Cadmium, ICP .....		181.30	14	62.55	5.05	2.28	14	62.55	5.05	2.28
Cadmium, Other .....		181.99	2	64.03	9.79	10.68	2	64.03	9.79	10.68
Method Group 181.XX PPM			21	63.04	5.58	3.28	20	63.21	5.18	2.42
Water Soluble Chlorine, Titrimetric ...	928.02	190.00	2	6.23	0.30	0.03	2	6.23	0.30	0.03
Water Soluble Chlorine, Other .....		190.99	2	6.41	0.15	0.12	2	6.41	0.15	0.12
Method Group 190.XX PCT			4	6.32	0.24	0.08	4	6.32	0.24	0.08
Chromium, ICP .....		191.30	12	167.21	18.85	7.65	12	167.21	18.85	7.65

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Chromium, Other		191.99	1	170.00	14.14	20.00	1	170.00	14.14	20.00
Method Group 191.XX PPM			13	167.42	18.32	8.60	13	167.42	18.32	8.60
Acid Soluble Cobalt, AA		202.00	1	583.50	2.12	3.00	1	583.50	2.12	3.00
Acid Soluble Cobalt, ICP	965.11	202.30	13	520.72	48.24	15.52	13	520.72	48.24	15.52
Acid Soluble Cobalt, Other		202.99	1	555.00	35.36	50.00	1	555.00	35.36	50.00
Method Group 202.XX PPM			15	527.19	48.57	16.99	15	527.19	48.57	16.99
Acid Soluble Copper, Atomic Absorption	975.01	221.00	16	0.0731	0.0066	0.0025	15	0.0728	0.0066	0.0021
Acid Soluble Copper, ICP		221.30	19	0.0698	0.0052	0.0047	19	0.0698	0.0052	0.0047
Acid Soluble Copper, Other		221.99	2	0.0700	0.0016	0.0020	2	0.0700	0.0016	0.0020
Method Group 221.XX PCT			37	0.0712	0.0059	0.0036	37	0.0712	0.0059	0.0036
Acid Soluble Iron, Atomic Absorption	980.01	241.00	15	2.14	0.14	0.07	14	2.14	0.14	0.06
Acid Soluble Iron, ICP		241.30	22	1.73	0.53	0.10	22	1.66	0.62	0.08
Acid Soluble Iron, Other		241.99	2	2.33	0.44	0.03	2	2.33	0.44	0.03
Method Group 241.XX PCT			41	1.89	0.48	0.09	40	1.89	0.49	0.08
Lead, Atomic Absorption		251.00	3	494.27	28.18	14.31	3	494.27	28.18	14.31
Lead, ICP		251.30	12	489.46	38.76	25.20	12	489.46	38.76	25.20
Lead, Other		251.99	2	526.75	25.40	22.50	2	526.75	25.40	22.50
Method Group 251.XX PPM			17	494.70	37.02	22.96	16	493.43	36.36	19.27
Acid Soluble Manganese, AA	972.02a	261.00	16	0.212	0.017	0.011	16	0.212	0.017	0.011
Acid Soluble Manganese, AA	972.02b	261.11	3	0.202	0.024	0.007	3	0.202	0.024	0.007
Acid Soluble Manganese, ICP	972.02a	261.30	17	0.198	0.023	0.008	16	0.198	0.023	0.005
Acid Soluble Manganese, ICP	972.02b	261.31	4	0.205	0.013	0.012	4	0.205	0.013	0.012
Acid Soluble Manganese, Other		261.99	3	0.193	0.012	0.007	3	0.193	0.012	0.007
Method Group 261.XX PCT			43	0.204	0.020	0.009	42	0.204	0.020	0.008
Water Soluble Manganese, Atomic Abs	972.03	271.00	1	0.084	0.002	0.003	1	0.084	0.002	0.003
Mercury, Atomic Absorption		281.00	3	2.29	1.37	0.04	3	2.29	1.37	0.04
Mercury, ICP		281.30	3	3.51	1.07	0.20	3	3.51	1.07	0.20
Mercury, Other		281.99	1	3.50	0.71	1.00	1	3.50	0.71	1.00
Method Group 281.XX PPM			7	2.99	1.26	0.25	6	2.90	1.34	0.12
Molybdenum, Atomic Absorption		289.00	2	43.30	3.23	1.00	2	43.30	3.23	1.00
Molybdenum, ICP		289.30	13	41.72	4.71	1.57	12	42.23	4.42	1.12
Molybdenum, Other		289.99	1	50.00	0.00	0.00	1	50.00	0.00	0.00
Method Group 289.XX PPM			16	42.43	4.81	1.40	15	42.89	4.52	1.03
Nickel, Atomic Absorption		291.00	1	1810.0	56.57	80.00	1	1810.0	56.57	80.00
Nickel, ICP		291.30	14	1471.3	324.56	92.60	13	1445.9	319.13	72.18
Nickel, Other		291.99	2	1938.7	131.55	67.50	2	1938.7	131.55	67.50
Method Group 291.XX PPM			17	1546.2	339.87	88.90	16	1530.3	341.25	72.09
Selenium, Atomic Absorption		301.00	1	201.73	9.06	12.81	1	201.73	9.06	12.81
Selenium, ICP		301.30	5	256.76	10.77	11.36	5	256.76	10.77	11.36

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Selenium, Other .....		301.99	1	245.00	21.21	30.00	1	245.00	21.21	30.00
Method Group 301.XX PPM			7	247.22	22.59	14.23	7	247.22	22.59	14.23
Sodium, Atomic Absorption .....	983.04	311.00	1	0.44	0.01	0.01	1	0.44	0.01	0.01
Sodium, Flame Photometric .....	974.01	311.30	1	0.41	0.02	0.03	1	0.41	0.02	0.03
Sodium, Other .....		311.99	8	0.43	0.02	0.01	7	0.43	0.02	0.01
Method Group 311.XX PCT			10	0.43	0.02	0.01	9	0.43	0.02	0.01
Acid Soluble Zinc, Atomic Absorption ..	975.02	321.00	18	0.352	0.036	0.017	17	0.351	0.035	0.013
Acid Soluble Zinc, ICP .....		321.30	24	0.344	0.031	0.014	23	0.344	0.031	0.012
Acid Soluble Zinc, Other .....		321.99	2	0.318	0.049	0.005	2	0.318	0.049	0.005
Method Group 321.XX PCT			44	0.346	0.034	0.015	43	0.346	0.034	0.013
Water Soluble Zinc, Atomic Absorption .		325.00	1	0.122	0.006	0.008	1	0.122	0.006	0.008

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: 010.11 PCT			Meth: 010.60 PCT			Meth: 010.99 PCT		
<u>Ammoniacal Nitrogen</u>			<u>Ammoniacal Nitrogen</u>			<u>Total Nitrogen</u>			<u>Total Nitrogen</u>			<u>Total Nitrogen</u>		
<u>MgO Distillation</u>						<u>Modified Comprehensi</u>			<u>Combustion</u>			<u>Other</u>		
291	10.14	1.81	320	9.95	.54	322	9.76	-1.16	040	10.03	.39	398	10.17	1.25
415	9.95	.46	415	9.95	.33	416	9.95	.31	027	10.05	.35	354	10.13	.92
416	9.95	.45	Avg	9.91		Avg	9.91		361	10.06	.31	405	10.03	.79
Avg	9.89		096	9.90	-.09	096	9.90	-.09	024	10.06	.31	289	10.08	.68
090	9.86	-.35	409	9.89	-.25	409	9.89	-.25	057	10.03	.22	Avg	10.01	
029	9.84	-.55	090	9.86	-.46	090	9.86	-.46	232	10.04	.17	300	9.98	-.45
288	9.82	-.81	193	9.85	-.61	193	9.85	-.61	096	10.03	.11	030	9.95	-.52
324	9.84	-1.10	029	9.84	-.66	029	9.84	-.66	Avg	10.02		368	9.95	-.96
220	9.72	-1.24	420	9.79	-.91	420	9.79	-.91	411	10.01	-.15	420	9.81	-1.62
			288	9.82	-.91	288	9.82	-.91	102	9.60	-1.23			
			324	9.84	-1.18	324	9.84	-1.18	043	10.01	-.15			
Meth: 001.99 PCT			220			Meth: 010.60 PCT			131			Meth: 010.XX PCT		
<u>Ammoniacal Nitrogen</u>			220			<u>Total Nitrogen</u>			131			<u>Total Nitrogen</u>		
<u>Other</u>			397			<u>Combustion</u>			296			390		
398	10.13	1.53	393	9.71	-1.48	390	10.46	s 4.46	023	9.99	-.32	114	10.54	s 4.04
289	10.08	1.22				114	10.54	s 4.41	247	9.98	-.42	393	10.35	2.64
106	10.04	.88	Meth: 005.00 PCT			393	10.35	2.77	162	10.01	-.44	415	10.21	R 2.07
362	9.93	.70	<u>Nitrogen From Urea</u>			157	10.27	2.09	377	9.96	-.53	157	10.27	2.06
418	10.01	X .65	<u>Urease (as N)</u>			037	10.18	1.75	055	10.00	-.63	037	10.18	R 1.71
234	9.98	.56	288	0.14	-.71	037	10.18	1.75	007	9.95	-.70	291	10.19	1.47
320	9.95	.50				291	10.19	1.40	028	9.95	-.70	398	10.17	1.37
Avg	9.92		Meth: 009.10 PCT			376	10.05	R 1.35	330	9.95	-.75	022	10.16	1.31
096	9.90	-.16	<u>Ammon &amp; Nitrate N</u>			102	10.09	R 1.34	292	9.94	-.78	102	10.09	R 1.29
409	9.89	-.31	<u>Devarda</u>			220	10.06	R 1.25	042	9.97	-.82	376	10.05	R 1.22
193	9.85	-.67	392	10.12	.88	022	10.16	1.21	136	9.98	-.96	220	10.06	R 1.17
420	9.79	-.99	Avg	9.99		025	10.14	1.03	324	9.90	-1.10	025	10.14	1.15
397	9.71	-1.55	257	9.87	-.85	425	10.08	1.01	381	9.90	-1.13	409	10.13	1.08
393	9.71	-1.57				409	10.13	.96	233	9.89	-1.18	354	10.13	1.05
			Meth: 010.11 PCT			177	10.07	.90	009	9.85	-1.49	425	10.08	1.02
			<u>Total Nitrogen</u>			369	10.09	.78	423	9.82	-1.71	177	10.07	.91
			<u>Modified Comprehensi</u>			422	10.11	.71	095	9.82	-1.74	369	10.09	.89
			415	10.21	s 4.51	142	10.03	.69	406	9.79	-2.09	422	10.11	.88
			029	9.97	1.30	275	10.09	.64	360	9.70	A -2.86	405	10.03	.81
			288	9.96	1.14	049	10.09	.54	426	9.56	s -4.06	275	10.09	.80
			090	9.88	.26	262	10.05	.49				289	10.08	.80
			Avg	9.86		029	10.04	.46				136	9.98	.77
			105	9.81	-.60	325	10.06	.41				049	10.09	.74
			414	9.79	-.85	035	10.06	.41				142	10.03	.68
* 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>		
262	10.05	.60	009	9.85	-1.00	<u>Spectrometric</u>			<u>ICP</u>			220	10.54	.19
325	10.06	.58	423	9.82	-1.18	406	10.63	.51	368	10.46	-.57	423	10.53	.17
035	10.06	.58	095	9.82	-1.21	381	10.63	.50	393	10.41	-.69	257	10.53	.07
029	10.04	.55	105	9.81	-1.29	288	10.63	.48	247	10.39	-.75	Avg	10.52	
024	10.06	.53	211	9.80	-1.35	234	10.60	.44	422	10.14	-1.52	405	10.51	-.07
361	10.06	.53	420	9.81	-1.36	418	10.61 X	.43				320	10.45	-.28
055	10.00	.53	414	9.79	-1.46	363	10.58	.33	Meth: 020.99 PCT			157	10.42	-.38
027	10.05	.52	406	9.79	-1.52	257	10.53	.15	<u>Total Phosphate</u>			368	10.46	-.38
040	10.03	.44	322	9.76	-1.67	Avg	10.48		<u>Other</u>			416	10.41	-.45
162	10.01	.42	360	9.70	-2.18	416	10.41	-.28	398	10.60	.71	393	10.41	-.46
232	10.04	.39	102	9.60	-2.85	232	10.34	-.51				035	10.40	-.51
057	10.03	.35	426	9.56 s	-3.20	420	10.31	-.64	Meth: 020.XX PCT			095	10.44	-.52
096	10.03	.34				376	10.30	-.78	<u>Total Phosphate</u>			247	10.39	-.53
131	10.02	.29	Meth: 020.10 PCT			369	9.99	-1.69	330	11.10 R	2.43	105	10.35	-.65
411	10.01	.15	<u>Total Phosphate</u>			397	9.98	-1.72	425	10.89 R	2.40	232	10.34	-.71
043	10.01	.15	<u>Grav Quimociac</u>			324	9.93	-1.90	390	10.92 R	1.98	420	10.31	-.86
023	9.99	.15	411	10.95	1.80				389	11.00	1.92	376	10.30	-1.00
389	10.00	.11	414	10.72	.75	Meth: 020.40 PCT			411	10.95	1.69	409	10.19	-1.30
296	9.99	.08	114	10.69	.61	<u>Total Phosphate</u>			362	10.90	1.50	422	10.14	-1.50
Avg	9.98		105	10.60	.42	<u>Automated</u>			142	10.86	1.37	313	10.15	-1.51
247	9.98	-.13	090	10.60	.21	096	10.68	1.32	426	10.84	1.31	369	9.99	-2.07
377	9.96	-.18	Avg	10.56		247	10.58 R	1.20	292	10.78	1.02	397	9.98	-2.11
288	9.96	-.24	220	10.54	-.24	193	10.62	1.00	361	10.76	.97	324	9.93	-2.31
029	9.97	-.29	405	10.51	-.26	Avg	10.45		392	10.75	.93	042	9.74 s	-3.07
030	9.95	-.31	157	10.42	-.66	320	10.45	-.09	414	10.72	.81			
028	9.95	-.34	095	10.44	-.76	035	10.40	-.43	247	10.58	.69	Meth: 030.10 PCT		
007	9.95	-.34	313	10.15	-1.99	105	10.35	-.55	114	10.69	.69	<u>Insoluble Phosphate</u>		
300	9.98	-.37	042	9.74 s	-3.85	409	10.19	-1.50	096	10.68	.64	<u>Grav Quimociac</u>		
292	9.94	-.44							406	10.63	.47	405	0.10	1.28
330	9.95	-.45	Meth: 020.20 PCT			Meth: 020.50 PCT			105	10.60	.46	Avg	0.06	
042	9.97	-.60	<u>Total Phosphate</u>			<u>Total Phosphate</u>			381	10.63	.45	220	0.04	-.59
324	9.90	-.69	<u>Spectrometric</u>			<u>ICP</u>			288	10.63	.43	090	0.03	-.71
185	9.89	-.69	425	10.89 R	2.15	330	11.10	1.61	193	10.62	.41			
381	9.90	-.72	390	10.92 R	1.81	389	11.00	1.19	234	10.60	.41	Meth: 030.40 PCT		
233	9.89	-.73	362	10.90	1.41	426	10.84	.72	418	10.61 X	.38	<u>Insoluble Phosphate</u>		
351	9.88	-.76	142	10.86	1.29	361	10.76	.43	398	10.60	.36	<u>Automated</u>		
090	9.88	-.81	292	10.78	.99	Avg	10.62		090	10.60	.34	096	0.20	.85
368	9.95	-.82	392	10.75	.91	423	10.53	-.32	363	10.58	.26	Avg	0.12	
* X=Excluded from lab performance    S/s=Screened Outlier    R=Duplicate Range too large    A=Analysis beyond 3-s limits														

## Laboratory Averages &amp; Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 030.40 PCT			Meth: 040.50 PCT			Meth: 041.10 PCT			Meth: 041.50 PCT			Meth: 041.XX PCT		
<u>Insoluble Phosphate</u>			<u>InDir Available Phos</u>			<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>		
<u>Automated</u>			<u>ICP</u>			<u>Grav Quimociac</u>			<u>ICP</u>			360	10.63	.75
409	0.05	-.88	423	10.35	.71	296	10.53	-.45	Avg	10.53		105	10.60	.62
						105	10.50	-.64	361	10.53	-.13	040	10.60	.62
Meth: 030.99 PCT			Meth: 040.99 PCT			028	10.50	-.67	007	10.40	-.70	034	10.62	.60
<u>Insoluble Phosphate</u>			<u>InDir Available Phos</u>			177	10.50	-.70	043	10.28	-1.34	131	10.61	.58
<u>Other</u>			<u>Other</u>			049	10.44	-1.21	393	10.25	-1.50	055	10.61	.56
247	0.06	.71	247	10.53	.97	136	10.43 R	-1.69	354	9.76 s	-4.43	057	10.59	.52
			Avg	10.33		322	10.37	-1.74				009	10.61	.52
Meth: 030.XX PCT			409	10.14	-.74	029	10.40 R	-1.98	Meth: 041.60 PCT			362	10.61	.51
<u>Insoluble Phosphate</u>									<u>Dir Available Phosph</u>			022	10.58	.48
096	0.20	1.75	Meth: 040.XX PCT			Meth: 041.20 PCT			<u>EDTA Extract</u>			131	10.60	.47
405	0.10	.24	<u>InDir Available Phos</u>			<u>Dir Available Phosph</u>			105	10.60	1.29	095	10.58	.35
Avg	0.08		247	10.53 R	1.58	<u>Spectrometric</u>			034	10.62	1.20	073	10.56	.35
247	0.06	-.44	090	10.57	1.28	030	11.68 S	6.12	073	10.56	.72	414	10.58	.34
409	0.05 R	-.69	220	10.50	.79	397	10.64	1.10	095	10.58	.66	043	10.58	.31
220	0.04	-.74	096	10.48	.55	362	10.61	.58	043	10.58	.54	288	10.54	.21
090	0.03	-.81	289	10.44	.27	055	10.50	.33	288	10.54	.45	027	10.56	.21
			Avg	10.41		Avg	10.49		177	10.54	.15	296	10.53	.20
Meth: 040.10 PCT			405	10.41	-.12	415	10.23	-1.35	Avg	10.54		029	10.54	.15
<u>InDir Available Phos</u>			363	10.38	-.43				296	10.53	-.48	325	10.54	.15
<u>Grav Quim</u>			423	10.35	-.59	Meth: 041.40 PCT			262	10.50	-.60	177	10.54	.10
090	10.57	1.01	409	10.14	-2.07	<u>Dir Available Phosph</u>			037	10.51	-.63	Avg	10.53	
220	10.50	.51				<u>Automated</u>			351	10.39	-2.22	296	10.53	-.10
Avg	10.49		Meth: 041.10 PCT			131	10.61	.96	106	10.34 A	-3.31	361	10.53	-.17
405	10.41	-1.10	<u>Dir Available Phosph</u>			027	10.56	.40	377	10.09 s	-6.88	262	10.50	-.19
			<u>Grav Quimociac</u>			029	10.54	.29				105	10.50	-.20
Meth: 040.20 PCT			254	10.90	2.57	Avg	10.52		Meth: 041.XX PCT			028	10.50	-.22
<u>InDir Available Phos</u>			260	10.75 s	2.31	025	10.37	-1.53	<u>Dir Available Phosph</u>			037	10.51	-.23
<u>Spectrometri</u>			211	10.73	1.17				030	11.68 s	7.68	177	10.50	-.28
289	10.44	.63	009	10.64	.58	Meth: 041.50 PCT			022	10.85 s	4.28	055	10.50	-.48
Avg	10.41		102	10.65	.55	<u>Dir Available Phosph</u>			254	10.90	2.46	049	10.44	-.69
363	10.38	-1.05	040	10.60	.54	<u>ICP</u>			260	10.75 R	2.12	007	10.40	-.89
			057	10.59	.44	022	10.85 s	3.41	023	10.82	1.92	351	10.39	-.90
Meth: 040.40 PCT			055	10.61	.30	023	10.82	1.53	211	10.73	1.30	025	10.37	-1.06
<u>InDir Available Phos</u>			131	10.60	.24	291	10.71	1.03	291	10.71	1.29	322	10.37	-1.11
<u>Automated</u>			414	10.58	.01	360	10.63	.60	397	10.64 R	1.27	136	10.43 R	-1.19
096	10.48	-.71	Avg	10.58		009	10.61	.42	102	10.65	.79	106	10.34	-1.38
			022	10.58	-.44	325	10.54	.13	009	10.64	.77	029	10.40 R	-1.41

\* 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: 041.XX PCT			Meth: 050.00 PCT			Meth: 050.30 PCT			Meth: 050.60 PCT			Meth: 050.99 PCT		
<u>Dir Available Phosph</u>			Soluble Potash			Soluble Potash			Soluble Potash			Soluble Potash		
043	10.28	-1.69	<u>STPB Oxalate</u>			<u>AA (Oxalate)</u>			<u>Flame (Oxalate)</u>			<u>Other</u>		
393	10.25	-1.89	411	10.22	.59	351	9.29 S	-1.97	415	10.49	1.03	425	9.88	-.64
415	10.23	-2.00	090	10.23	.56	Meth: 050.31 PCT			055	10.43	.84	027	9.84	-.88
377	10.09	-2.94	211	10.20	.40	Soluble Potash			406	10.46	.76	275	9.77	-1.39
354	9.76 s	-5.58	102	10.19	.33	<u>AA (Citrate)</u>			262	10.35	.34	360	9.77	-1.70
Meth: 048.20 PCT			416	10.18	.30	254 9.80 .00			Avg 10.34			Meth: 050.XX PCT		
Water Soluble Phosph			055	10.17	.25	Meth: 050.50 PCT			105 10.23 -.75			<u>Soluble Potash</u>		
<u>Spectrometric</u>			392	10.16	.24	Soluble Potash			288 10.11 -1.58			030 11.53 s 6.85		
096	9.64	.87	Avg 10.13			ICP (Oxalate)			Meth: 050.61 PCT			390 11.23 s 5.58		
420	9.58	.87	350	10.11	-.21	354 10.17 1.48			Soluble Potash			389 10.58 2.21		
362	9.64	.84	022	10.10	-.22	157 10.17 1.29			<u>Flame (Citrate)</u>			022 10.47 R 2.06		
Avg	9.56		029	10.10	-.30	324 10.22 1.03			030 11.53 S 5.45			415 10.49 1.81		
193	9.51	-.53	049	10.13	-.38	422 10.15 .35			025 10.33 .86			009 10.49 1.80		
363	9.44	-1.41	114	10.08	-.46	418 10.17 X .25			105 10.27 .84			300 10.40 R 1.76		
Meth: 048.99 PCT			220	10.02	-.77	Avg 10.14			034 10.21 .42			142 10.47 1.73		
Water Soluble Phosph			095	9.76	-2.19	292 10.09 -.42			029 10.13 .11			406 10.46 1.63		
<u>Other</u>			028	9.69	-2.61	106 9.98 -1.10			Avg 10.10			055 10.43 1.55		
275	11.34 S	.00	397	9.51 s	-3.65	Meth: 050.51 PCT			037 9.99 -.68			354 10.17 R 1.16		
Meth: 048.XX PCT			Meth: 050.10 PCT			Soluble Potash			Meth: 050.99 PCT			262 10.35 1.15		
Water Soluble Phosph			Soluble Potash			Soluble Potash			Soluble Potash			257 10.34 1.06		
275	11.34 s	19.18	<u>STPB Citrate</u>			<u>ICP (Citrate)</u>			<u>Other</u>			157 10.17 R 1.01		
096	9.64	.87	322	10.19	.71	389 10.58 1.73			390 11.23 s 7.67			009 10.30 1.00		
420	9.58	.87	Meth: 050.30 PCT			009 10.49 1.31			022 10.47 s 3.24			105 10.27 1.00		
362	9.64	.84	Soluble Potash			043 10.29 .34			300 10.40 R 2.84			057 10.31 .96		
Avg	9.56		<u>AA (Oxalate)</u>			361 10.23 .08			232 10.24 1.55			043 10.32 .95		
193	9.51	-.53	142	10.47	1.56	Avg 10.22			260 10.23 1.51			324 10.22 .84		
363	9.44	-1.41	381	10.18	.67	023 10.20 -.18			247 10.02 1.18			043 10.29 .83		
Meth: 050.00 PCT			369	10.13	.55	007 10.17 -.32			177 10.08 .63			260 10.23 .60		
Soluble Potash			234	10.11	.48	377 10.10 -.60			330 10.05 .51			232 10.24 .59		
<u>STPB Oxalate</u>			095	10.09	.46	423 10.02 -1.00			398 10.06 .44			105 10.23 .54		
257	10.34	1.21	420	9.96	.11	368 9.93 -1.47			325 10.03 .29			411 10.22 .54		
009	10.30	1.15	Avg 10.02			393 9.89 R -1.77			426 10.00 .16			361 10.23 .52		
057	10.31	1.09	136	9.91	-.12	291 9.41 s -3.95			Avg 9.98			090 10.23 .52		
043	10.32	1.08	040	9.86	-.29	Avg 9.98			289 9.91 -.43			034 10.21 .44		
* X=Excluded from lab performance			185	9.50	-1.37	376 9.90 -.52			211 10.20 .39			023 10.20 .42		
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.XX PCT			Meth: 050.XX PCT			Meth: 060.XX PCT			Meth: 101.XX PCT			Meth: 121.00 PCT				
<u>Soluble Potash</u>			<u>Soluble Potash</u>			<u>Free Water</u>			<u>Acid Soluble Calcium</u>			<u>Acid Soluble Magnesi</u>				
322	10.19	.35	425	9.88	-1.19	320	1.07	.32	409	6.11	2.39	AA				
102	10.19	.33	040	9.86	-1.27	Avg	0.98		422	5.48	1.13	043	1.32	-.93		
049	10.13	.32	393	9.89	-1.33	363	0.97	-.11	035	5.35	.97	220	1.26	-1.76		
416	10.18	.30	027	9.84	-1.38	409	0.95	-.20	057	5.31	.78					
422	10.15	.29	254	9.80	-1.55	096	0.86	-.43	361	5.11	.37	Meth: 121.30 PCT				
007	10.17	.28	095	9.76	-1.76	416	0.84	-.46	Avg	4.93		Acid Soluble Magnesi				
381	10.18	.27	275	9.77	-1.77	362	0.84	-.48	009	4.83	-.20	<u>ICP</u>				
418	10.17 X	.26	360	9.77 R	-1.93	193	0.66	-1.08	105	4.77	-.37	324	2.09 s	7.00		
055	10.17	.25	028	9.69	-2.11	007	0.64	-1.16	320	4.77	-.49	422	1.97 s	5.83		
392	10.16	.25	035	9.68 R	-2.44	Meth: 101.00 PCT			102	4.68	-.52	057	1.60	2.41		
369	10.13	.15	397	9.51	-2.97	Acid Soluble Calcium			040	4.62	-.67	291	1.54	1.88		
029	10.13	.08	185	9.50 A	-3.04	<u>AA</u>			247	4.56	-.75	368	1.42 R	1.66		
Avg	10.12		291	9.41 s	-3.45	040	4.62	-.71	232	4.42	-1.03	300	1.46	1.08		
234	10.11	-.07	351	9.29 s	-4.02	Meth: 101.30 PCT			288	4.39 R	-1.29	409	1.46	1.04		
288	10.11	-.10				Acid Soluble Calcium			065	4.30	-1.33	330	1.42	.72		
377	10.10	-.13	Meth: 060.00 PCT			ICP			Meth: 121.00 PCT			065	1.35	.47		
022	10.10	-.13	Free Water			422			5.48	1.63	Acid Soluble Magnesi			105	1.37	.45
350	10.11	-.14	<u>Vacuum Oven</u>			035			5.35	1.41	<u>AA</u>			389	1.38	.36
029	10.10	-.22	361	1.59	2.38	057			5.31	1.19	193			1.69 s	4.49	
177	10.08	-.27	320	1.07	.52	361			5.11	.66	257			1.56	2.60	
292	10.09	-.28	363	0.97	.17	Avg			4.85		055			1.45	.98	
398	10.06	-.31	409	0.95	.17	009			4.83	-.11	381			1.42 R	.94	
095	10.09	-.32	Avg	0.93		105			4.77	-.32	028			1.43	.76	
114	10.08	-.34	096	0.86	-.29	102			4.68	-.48	073			1.41	.48	
330	10.05	-.41	416	0.84	-.33	423			4.67	-.49	177			1.41	.45	
325	10.03	-.44	362	0.84	-.35	320			4.77	-.52	037			1.40	.37	
423	10.02	-.51	193	0.66	-1.00	247			4.56	-.77	136			1.40	.25	
131	10.06	-.56	007	0.64	-1.09	232			4.42	-1.12	Avg			1.38		
426	10.00	-.59	Meth: 060.99 PCT			288			4.39 R	-1.49	095			1.38	-.22	
220	10.02	-.59	Free Water			065			4.30	-1.52	392			1.37	-.31	
106	9.98	-.78	<u>Other</u>			Meth: 101.99 PCT			289			1.35	-.40			
420	9.96	-.81	398	1.42	.71	Acid Soluble Calcium			105			1.33	-.69			
037	9.99	-.92	Meth: 060.XX PCT			Other			040			1.33	-.72			
368	9.93	-.98	Free Water			409			6.11	-.71	296			1.36	-.72	
289	9.91	-1.02	361	1.59	2.02	Meth: 101.99 PCT			397			1.32	-.90			
136	9.91	-1.02	398	1.42	1.46	Acid Soluble Calcium			029			1.34 R	-.91			
247	10.02 R	-1.07	S/s=Screened Outlier			Other			A=Analysis beyond 3-s limits							
376	9.90	-1.09	R=Duplicate Range too large													

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 121.70 PCT			Meth: 121.XX PCT			Meth: 131.XX PCT			Meth: 144.99 PCT			Meth: 144.XX PCT		
<u>Acid Soluble Magnesi</u>			<u>Acid Soluble Magnesi</u>			<u>Water Soluble Magnes</u>			<u>Sulfur</u>			<u>Sulfur</u>		
<u>Titrimetric</u>									<u>Other</u>					
415	4.41 S	.00	289	1.35	-.11	291	1.46	1.13	291	12.88 S	2.21	105	11.72	.16
			247	1.35	-.15	Avg	1.25		035	12.60	1.67	102	11.70	.09
			105	1.33	-.33	029	1.25	-.02	389	12.40	1.28	Avg	11.67	
			040	1.33	-.35	220	1.04	-1.10	220	12.32 R	1.23	028	11.66	-.04
Meth: 121.99 PCT			040			Meth: 144.01 PCT			009			095		
<u>Acid Soluble Magnesi</u>			232			<u>Sulfur</u>			330			037		
<u>Other</u>			361			<u>Gravimetric</u>			029			363		
398	2.49 S	7.30	296	1.36	-.49	043	12.02 R	2.94	Avg	11.66		361	11.63	-.13
Avg	1.35		397	1.32	-.50	065	1.35	-.55	363	11.64	-.20	423	11.63	-.14
234	1.35	-.71	043	1.32	-.51	296	11.90	1.75	360	11.66	-.20	360	11.66	-.20
			065	1.35	-.55	288	11.83	1.17	360	11.66	-.20	040	11.59	-.23
Meth: 121.XX PCT			360			324			361			131		
<u>Acid Soluble Magnesi</u>			029			055			423			106		
415	4.41 s	32.87	102	1.31	-.59	157	11.73	.36	023	11.73	-.22	193	11.48	-.57
398	2.49 s	12.11	106	1.30	-.70	105	11.72	.24	131	11.57	-.34	030	11.29	-1.13
324	2.09 s	7.85	009	1.30	-.72	102	11.70	.08	030	11.29	-.86	393	11.26	-1.22
422	1.97 s	6.52	095	1.33	-.72	Avg	11.69		247	11.24	-.96	247	11.24	-1.28
193	1.69 A	3.58	426	1.26 X	-1.05	095	11.66	-.28	376	11.25	-.98	376	11.25	-1.33
057	1.60	2.61	035	1.28	-1.08	220	1.26	-1.13	422	10.85	-1.73	422	10.85	-2.47
257	1.56	2.15	220	1.26	-1.13	234	1.35 R	-1.19	409	3.34 s	-16.24	397	10.60 s	-3.30
291	1.54	2.01	234	1.35 R	-1.19	288	1.24	-1.35	409	3.34 s	-16.24	409	3.34 s	-24.91
368	1.42 R	1.84	288	1.24	-1.35	320	1.20	-1.75	Meth: 144.XX PCT			Meth: 151.00 PPM		
300	1.46	1.08	320	1.20	-1.75	106	11.52	-1.44	<u>Sulfur</u>			Arsenic		
409	1.46	1.04	393	1.14	-2.48	193	11.48	-1.81	291	12.88 s	3.63	<u>Atomic Absorption</u>		
055	1.45	.93	Meth: 131.00 PCT			397			292	12.63 s	3.01	136	179.50	.85
381	1.42	.84	<u>Water Soluble Magnes</u>			Meth: 144.02 PCT			035	12.60	2.79	Avg	162.16	
028	1.43	.77	<u>AA</u>			<u>Sulfur</u>			389	12.40	2.19	040	144.82	-.88
330	1.42	.68	029			<u>Gravimetric</u>			220	12.32 R	2.09	Meth: 151.30 PPM		
073	1.41	.55	Avg			292			043	12.02	1.11	Arsenic		
177	1.41	.54	220			Meth: 144.70 PCT			296	11.90	.69	<u>ICP</u>		
037	1.40	.47	220			<u>Sulfur</u>			009	11.81 R	.68	009	220.10	2.35
105	1.37	.47	Meth: 131.30 PCT			<u>Spectrometric</u>			330	11.82	.50	376	179.50	.61
136	1.40	.38	<u>Water Soluble Magnes</u>			393			288	11.83	.49	247	172.00	.33
389	1.38	.31	<u>ICP</u>			Meth: 144.70 PCT			029	11.81	.44	106	172.00	.33
392	1.37	.24	291			<u>Sulfur</u>			324	11.81	.41	Avg	165.60	
095	1.38	.23	1.46			393			023	11.73	.38	102	163.34	-.12
023	1.37	.16	.71			11.26			055	11.74	.32	A=Analysis beyond 3-s limits		
423	1.37	.08				.71			157	11.73	.19			
Avg	1.36													
* X=Excluded from lab performance    S/s=Screened Outlier    R=Duplicate Range too large														

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 151.30 PPM			Meth: 165.00 PCT			Meth: 165.XX PCT			Meth: 181.30 PPM			Meth: 181.XX PPM		
Arsenic			Acid Soluble Boron			<u>Acid Soluble Boron</u>			Cadmium			<u>Cadmium</u>		
<u>ICP</u>			<u>Spectrometric</u>			423	0.061	.49	<u>ICP</u>			065	62.55	-.58
291	157.84	-.34	Avg	0.055		296	0.060	.35	376	68.50	1.18	232	59.90	-.69
105	157.10	-.37	029	0.055	.00	392	0.059	.14	247	65.50	.65	363	59.50	-.72
296	157.50	-.40	220	0.054 R	-.76	Avg	0.058		102	65.11	.51	105	59.35	-.82
368	144.13	-.96	289	0.049	-1.20	028	0.058	-.08	009	63.85	.28	193	57.50	-1.14
232	132.50	-1.43	023	0.048	-1.41	393	0.057	-.19	296	63.05	.15	324	56.05	-1.39
			055	0.047	-1.49	040	0.056	-.34	Avg	62.55		362	59.56 R	-2.09
Meth: 151.99 PPM			Meth: 165.99 PCT			029	0.055	-.41	291	60.76	-.36	393	52.10	-2.17
Arsenic			Acid Soluble Boron			288	0.055	-.46	368	60.71	-.42	Meth: 190.00 PCT		
<u>Other</u>			<u>Other</u>			409	0.054	-.72	065	62.55	-.58	Water Soluble Chlori		
409	170.00	.00	368	0.081 s	3.36	232	0.052	-.81	232	59.90	-.58	<u>Titrimetric</u>		
Meth: 151.XX PPM			009	0.072	1.80	220	0.054 R	-.82	105	59.35	-.72	105	6.48	.87
Arsenic			300	0.069	1.36	043	0.051	-1.06	324	56.05	-1.30	Avg	6.23	
009	220.10	2.54	360	0.064	.62	426	0.051	-1.09	393	52.10	-2.09	422	5.97	-.87
136	179.50	.66	106	0.063	.56	289	0.049	-1.39	Meth: 181.99 PPM					
376	179.50	.66	422	0.064	.55	023	0.048	-1.54	Cadmium					
247	172.00	.36	324	0.061	.23	055	0.047	-1.62	<u>Other</u>					
106	172.00	.36	291	0.061	.18	Meth: 171.10 PCT			409	68.50	.46	Meth: 190.99 PCT		
409	170.00	.21	423	0.061	.17	Water Soluble Boron			Avg	64.03		Water Soluble Chlori		
Avg	165.41		Avg	0.060		<u>Spectrometric</u>			362	59.56 X	-1.14	Other		
102	163.34	-.12	288	0.055	-.76	296	0.060	.00	Meth: 181.99 PPM					
291	157.84	-.36	409	0.054	-.96	Meth: 181.00 PPM			Cadmium					
105	157.10	-.39	232	0.052	-1.10	Cadmium			040	70.17	1.62	Meth: 190.XX PCT		
296	157.50	-.42	043	0.051	-1.33	<u>Atomic Absorption</u>			035	69.30	1.30	Water Soluble Chlori		
040	144.82	-.99	426	0.051	-1.36	040	70.17	1.39	106	69.00	1.12	288	6.51	.94
368	144.13	-1.03	Meth: 165.XX PCT			136	67.60	.66	376	68.50	1.03	105	6.48	.69
232	132.50	-1.53	Acid Soluble Boron			397	65.30	.23	409	68.50	1.03	Avg	6.32	
Meth: 165.00 PCT			368	0.081 s	3.74	Avg	64.01		136	67.60	.86	009	6.31	-.06
<u>Spectrometric</u>			009	0.072	2.15	363	59.50	-.81	247	65.50	.53	422	5.97	-1.46
257	0.063	1.48	300	0.069	1.71	193	57.50	-1.20	397	65.30	.41	Meth: 191.30 PPM		
296	0.060	.92	360	0.064	.95	Meth: 181.30 PPM			102	65.11	.37	Chromium		
392	0.059	.65	422	0.064	.88	Cadmium			009	63.85	.16	<u>ICP</u>		
028	0.058	.47	106	0.063	.85	<u>ICP</u>			Avg	63.21		376	195.50	1.51
393	0.057	.41	257	0.063	.80	035	69.30	1.45	296	63.05	-.11	324	188.50	1.17
040	0.056	.13	324	0.061	.55	106	69.00	1.28	291	60.76	-.48	035	186.00	1.08
* X=Excluded from lab performance			291	0.061	.50	Meth: 181.30 PPM			368	60.71	-.53	009	186.40	1.02
S/s=Screened Outlier			R=Duplicate Range too large			A=Analysis beyond 3-s limits								

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 191.30 PPM Chromium			Meth: 202.30 PPM Acid Soluble Cobalt			Meth: 202.XX PPM Acid Soluble Cobalt			Meth: 221.30 PCT Acid Soluble Copper			Meth: 221.XX PCT Acid Soluble Copper		
<u>ICP</u>			<u>ICP</u>			<u>ICP</u>			<u>ICP</u>			<u>ICP</u>		
247	178.00	.58	035	631.00	2.31	106	478.50	-1.01	102	0.0705	.17	040	0.0715	.10
Avg	167.21		040	583.20	1.30	320	463.50	-1.33	Avg	0.0698		Avg	0.0712	
102	166.25	-.05	009	568.80	1.00	057	0.06 s	-10.85	389	0.0685	-.26	102	0.0705	-.15
368	160.40	-.38	324	537.50	.42	232	0.05 s	-10.85	035	0.0680	-.39	397	0.0705	-.20
232	150.00	-.91	Avg	520.72					300	0.0665	-.64	220	0.0700	-.21
065	152.00	-.97	102	517.41	-.10	Meth: 221.00 PCT			065	0.0690	-.79	247	0.0700	-.21
291	147.94	-1.03	065	520.50	-.49	Acid Soluble Copper			426	0.0652	-.88	193	0.0695	-.30
393	149.26	-1.03	426	506.35	-.49	<u>Atomic Absorption</u>			232	0.0665	-.91	028	0.0690	-.38
105	146.25	-1.12	105	495.65	-.52	289	0.0830	1.62	095	0.0685	-.96	409	0.0700	-.40
			368	494.49	-.55	105	0.0827	1.59	288	0.0688	-.99	157	0.0685	-.46
			296	487.50	-.69	381	0.0785 R	1.11	105	0.0673	-1.05	389	0.0685	-.47
Meth: 191.99 PPM Chromium			291 484.93 -.74			073 0.0780 .81			324 0.0654 -1.18			035 0.0680 -.57		
<u>Other</u>			106 478.50 -.88			037 0.0770 .79			422 0.0615 -1.60			065 0.0690 -.77		
409	170.00	.71	320	463.50	-1.20	029	0.0777	.75				300	0.0665	-.80
			057	0.06 s	-10.79	095	0.0770	.66	Meth: 221.99 PCT			095	0.0685	-.93
			232	0.05 s	-10.79	136	0.0765	.57	Acid Soluble Copper			288	0.0688	-.94
Meth: 191.XX PPM Chromium			Avg 0.0728			Avg 0.0728			<u>Other</u>			232	0.0665	-.98
376	195.50	1.54	Meth: 202.99 PPM			397	0.0705	-.37	247	0.0700	.00	426	0.0652	-1.01
324	188.50	1.19	Acid Soluble Cobalt			220	0.0700	-.42	Avg	0.0700		105	0.0673	-1.05
035	186.00	1.10	<u>Other</u>			193	0.0695	-.50	409	0.0700	-1.22	043	0.0650	-1.06
009	186.40	1.04	409	555.00	.71	028	0.0690	-.57				055	0.0645	-1.14
247	178.00	.59				157	0.0685	-.65	Meth: 221.XX PCT			324	0.0654	-1.22
409	170.00	.56	Meth: 202.XX PPM			043	0.0650	-1.19	Acid Soluble Copper			296	0.0625	-1.48
Avg	167.42		Acid Soluble Cobalt			055	0.0645	-1.25	423	0.1125 s	6.96	422	0.0615	-1.64
102	166.25	-.07	035	631.00	2.16	296	0.0625	-1.57	289	0.0830	2.05			
368	160.40	-.40	136	583.50	1.16				105	0.0827	2.02	Meth: 241.00 PCT		
232	150.00	-.95	040	583.20	1.15	Meth: 221.30 PCT			330	0.0799	1.47	Acid Soluble Iron		
065	152.00	-1.00	009	568.80	.86	Acid Soluble Copper			381	0.0785	1.44	<u>Atomic Absorption</u>		
291	147.94	-1.07	409	555.00	.77	<u>ICP</u>			073	0.0780	1.15	136	2.34	1.46
393	149.26	-1.07	324	537.50	.32	423	0.1125 s	8.24	037	0.0770	1.10	055	2.28	1.21
105	146.25	-1.17	Avg	527.19		330	0.0799	1.97	029	0.0777	1.09	073	2.23 R	1.15
			102	517.41	-.21	023	0.0755	1.30	095	0.0770	.99	029	2.26	.98
			065	520.50	-.50	057	0.0745	1.14	023	0.0755	.93	105	2.21	.55
Meth: 202.00 PPM Acid Soluble Cobalt			426 506.35 -.58			009 0.0728 .84			136 0.0765 .89			289 2.16 .40		
<u>AA</u>			105 495.65 -.65			360 0.0735 .83			057 0.0745 .81			177 2.19 .39		
136	583.50	.71	368	494.49	-.68	291	0.0720	.58	009	0.0728	.59	028	2.17	.24
			296	487.50	-.82	040	0.0715	.35	360	0.0735	.52	397	2.15	.18
* X=Excluded from lab performance			S/s=Screened Outlier			R=Duplicate Range too large			A=Analysis beyond 3-s limits					

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 241.00 PCT			Meth: 241.30 PCT			Meth: 241.XX PCT			Meth: 251.30 PPM			Meth: 261.00 PCT		
Acid Soluble Iron			Acid Soluble Iron			<u>Acid Soluble Iron</u>			Lead			Acid Soluble Mangane		
<u>Atomic Absorption</u>			<u>ICP</u>			426 1.87 X -.11			<u>ICP</u>			<u>AA</u>		
040	2.14	.07	393	0.22 S	-2.33	220	1.82	-.15	009	496.85	.22	392	0.236	1.42
Avg	2.14					288	1.85	-.16	Avg	489.46		029	0.233	1.25
296	2.13	-.13	Meth: 241.99 PCT			035	1.83	-.17	106	474.00	-.40	037	0.229	1.02
043	2.12	-.15	Acid Soluble Iron			102	1.77	-.26	368	472.59	-.46	289	0.226	.92
095	1.99	-1.12	<u>Other</u>			095	1.81	-.27	232	454.50	-.91	136	0.225	.80
425	1.97	-1.31	362	2.72	.87	320	1.87 R	-.35	105	453.65	-.97	397	0.216	.54
220	1.82	-2.29	Avg	2.33		065	1.56	-.72	296	422.00	-1.75	425	0.220	.45
381	1.49 s	-4.65	234	1.95	-.86	389	1.50	-.79	Meth: 251.99 PPM			028	0.216	.28
193	0.99 s	-8.22	Meth: 241.XX PCT			381	1.49	-.83	Lead			177	0.216	.25
Meth: 241.30 PCT			<u>Acid Soluble Iron</u>			023	1.44	-.92	<u>Other</u>			Avg	0.212	
Acid Soluble Iron			422	3.66 s	3.61	291	1.27	-1.25	376	543.50	.67	105	0.210	-.43
<u>ICP</u>			362	2.72	1.69	368	1.14	-1.54	Avg	526.75		257	0.204	-.71
422	3.66 S	3.25	330	2.43	1.11	193	0.99	-1.85	409	510.00	-1.03	296	0.199	-.83
330	2.43	1.26	009	2.39	1.03	105	0.79	-2.25	Meth: 251.XX PPM			043	0.205	-.97
009	2.39	1.19	136	2.34	.92	247	0.76	-2.31	Lead			193	0.193	-1.15
360	2.30	1.06	360	2.30	.86	300	0.71	-2.41	393	0.22 s	-3.40	055	0.185	-1.59
409	2.27	1.00	055	2.28	.82	Meth: 251.00 PPM			393	817.90 s	8.96	Meth: 261.11 PCT		
157	2.22	.92	409	2.27	.78	Lead			102	549.72	1.55	Acid Soluble Mangane		
423	2.22	.92	029	2.26	.77	<u>Atomic Absorption</u>			376	543.50	1.38	<u>AA</u>		
324	2.17	.83	073	2.23	.75	136	524.00	1.06	247	515.00 R	1.27	073	0.220	.76
057	1.95	.47	157	2.22	.68	040	494.30	.46	136	524.00	.84	040	0.214	.56
320	1.87 R	.44	423	2.22	.68	Avg	494.27		324	505.00	.81	Avg	0.202	
426	1.87 X	.36	105	2.21	.65	193	464.50	-1.08	035	507.50	.78	095	0.172	-1.27
288	1.85	.33	177	2.19	.62	397	218.00 S	-9.81	409	510.00	.71	Meth: 261.30 PCT		
095	1.81	.31	324	2.17	.57	Meth: 251.30 PPM			065	505.00	.68	Acid Soluble Mangane		
035	1.83	.30	028	2.17	.57	Lead			291	517.77	.67	<u>ICP</u>		
102	1.77	.19	289	2.16	.57	<u>ICP</u>			040	494.30	.36	330	0.240	1.87
Avg	1.72		397	2.15	.53	393	817.90 s	8.50	Avg	493.43		057	0.237	1.71
065	1.56	-.25	040	2.14	.52	102	549.72	1.56	106	474.00	-.53	035	0.222	1.06
389	1.50	-.25	296	2.13	.49	247	515.00	1.25	368	472.59	-.59	009	0.210	.64
023	1.44	-.36	043	2.12	.47	324	505.00	.80	193	464.50	-.82	360	0.210	.58
291	1.27	-.62	425	1.97	.23	035	507.50	.78	232	454.50	-1.08	423	0.207	.47
368	1.14	-.86	095	1.99	.22	291	517.77	.73	105	453.65	-1.14	291	0.200	.24
105	0.79	-1.41	234	1.95	.13	065	505.00	.69	296	422.00	-1.97	023	0.201	.13
247	0.76	-1.46	057	1.95	.12	Avg			397	218.00 s	-7.58	A=Analysis beyond 3-s limits		
300	0.71	-1.54	Avg	1.89		* X=Excluded from lab performance			S/s=Screened Outlier			R=Duplicate Range too large		

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.XX PCT			Meth: 261.XX PCT			Meth: 281.XX PPM			Meth: 289.99 PPM		
<u>Acid Soluble Manganese</u>			<u>Acid Soluble Manganese</u>			<u>Acid Soluble Manganese</u>			<u>Mercury</u>			<u>Molybdenum</u>		
ICP			330	0.240	1.79	300	0.180	-1.19	376	4.87	1.47	Other		
Avg	0.198		057	0.237	1.62	389	0.174	-1.49	409	3.50 R	.58	409	50.00	.00
102	0.198	-.07	392	0.236	1.61	095	0.172	-1.59	232	3.42	.39			
422	0.192	-.27	029	0.233	1.46	105	0.169	-1.77	291	3.03	.10	Meth: 289.XX PPM		
232	0.184	-.62	037	0.229	1.26	320	0.163	-2.05	040	2.91	.03	<u>Molybdenum</u>		
426	0.182	-.72	289	0.226	1.15	393	0.120 s	-4.18	Avg	2.90		393	92.42 s	11.19
300	0.180	-.80	136	0.225	1.08	065	0.115 s	-6.51	296	2.65	-.24	409	50.00	1.57
389	0.174	-1.06	106	0.215	.93				193	0.54	-1.77	422	49.94	1.56
368	0.195 R	-1.10	035	0.222	.90	Meth: 271.00 PCT			Meth: 289.00 PPM			291	47.79	1.09
105	0.169	-1.31	425	0.220	.80	Water Soluble Mangan			Molybdenum			040	46.05	.70
320	0.163	-1.56	073	0.220	.79	<u>Atomic Abs</u>			<u>Atomic Absorption</u>			247	46.00	.69
065	0.115 s	-5.63	043	0.205	.75	193	0.084	.71	040	46.05	.86	368	44.80	.46
			397	0.216	.75				Avg	43.30		009	44.10	.27
			028	0.216	.62	Meth: 281.00 PPM			296	40.55	-.87	Avg	42.89	
			177	0.216	.61	Mercury			Meth: 289.30 PPM			102	40.89	-.44
			040	0.214	.56	<u>Atomic Absorption</u>			Molybdenum			296	40.55	-.54
			009	0.210	.49	232	3.42	.82	393	92.42 s	11.59	065	41.75	-.54
			105	0.210	.48	040	2.91	.45	422	49.94	1.74	324	39.85	-.68
			360	0.210	.39	Avg	2.29		291	47.79	1.26	288	39.95	-.73
			324	0.210	.30	193	0.54	-1.27	324	39.85	-.54	232	38.90	-.88
			423	0.207	.29				296	2.65	-.83	106	38.50	-.98
			Avg	0.204		Meth: 281.30 PPM			426	3.78 s	-8.65	105	35.60 R	-1.79
			023	0.201	-.19	Mercury			247	46.00	.85	035	34.25	-1.91
			247	0.200	-.20	<u>ICP</u>			368	44.80	.61	426	3.78 s	-8.65
			095	0.200	-.28	376	4.87	1.27	009	44.10	.43	Meth: 291.00 PPM		
			291	0.200	-.32	Avg	3.51		Avg	42.23		Nickel		
			102	0.198	-.33	291	3.03	-.46	102	40.89	-.30	<u>Atomic Absorption</u>		
			296	0.199	-.35	296	2.65	-.83	065	41.75	-.50	136 1810.0 .71		
			257	0.204	-.42	Meth: 281.99 PPM			324	39.85	-.54	Meth: 291.30 PPM		
			220	0.200	-.54	Mercury			288	39.95	-.62	Nickel		
			193	0.193	-.57	<u>Other</u>			232	38.90	-.75	<u>ICP</u>		
			288	0.194	-.59	409	3.50	.71	106	38.50	-.85	324 1801.0 R 1.25		
			422	0.192	-.60				105	35.60 R	-1.70	040 1818.2 1.17		
			055	0.185	-.94				035	34.25	-1.81	105 1745.0 .94		
			381	0.185	-.98				426	3.78 s	-8.70	065 1701.5 .85		
			232	0.184	-.99							247 1700.0 .80		
			426	0.182	-1.10									
			409	0.180	-1.19									

\* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 291.30 PPM Nickel			Meth: 291.XX PPM Nickel			Meth: 311.00 PCT Sodium			Meth: 321.00 PCT Acid Soluble Zinc			Meth: 321.30 PCT Acid Soluble Zinc		
<u>ICP</u>			<u>ICP</u>			<u>Atomic Absorption</u>			<u>Atomic Absorption</u>			<u>ICP</u>		
102	1692.5	.80	106	802.00	-2.14	193	0.44	.71	136	0.425	2.14	422	0.335	-.34
296	1535.0	.35	Meth: 301.00 PPM Selenium			Meth: 311.30 PCT Sodium			193	0.406	1.59	393	0.330	-.47
232	1502.0	.18	<u>Atomic Absorption</u>			<u>Flame Photometric</u>			037	0.377 R	1.45	009	0.334 R	-.82
Avg	1445.9		040	201.73	.71	320	0.41	.71	040	0.395	1.32	426	0.319	-.85
291	1444.0	-.01	Meth: 301.30 PPM Selenium			Meth: 311.99 PCT Sodium			095	0.377	.75	095	0.318	-.86
368	1411.6	-.14	<u>ICP</u>			<u>Other</u>			055	0.365	.53	105	0.316	-.93
376	1372.0	-.25	232	263.50	.67	422	0.53 s	6.37	029	0.363	.43	300	0.315	-.96
009	1207.5	-.75	009	261.80	.49	009	0.45	1.11	028	0.358	.20	288	0.312	-1.04
393	866.03	-1.84	Avg	256.76		102	0.45	1.09	381	0.355	.18	065	0.315	-1.06
106	802.00	-2.02	296	253.00	-.36	247	0.44	.73	Avg	0.351		320	0.298	-1.51
Meth: 291.99 PPM Nickel			106	249.00	-.86	Avg	0.43		177	0.349	-.10	232	0.298	-1.52
<u>Other</u>			065	256.50	-1.72	232	0.43	-.48	289	0.336	-.47	368	0.235 s	-4.22
035	2047.5	.87	368	86.59 s	-15.82	409	0.42	-.55	157	0.331	-.63	Meth: 321.99 PCT Acid Soluble Zinc		
Avg	1938.7		Meth: 301.99 PPM Selenium			423	0.42	-.82	397	0.329	-.65	<u>Other</u>		
409	1830.0	-.86	<u>Other</u>			288	0.41	-1.54	392	0.329	-.67	247	0.360	.86
Meth: 291.XX PPM Nickel			409	245.00	.71	035	0.41 R	-1.63	043	0.318	-.97	Avg	0.318	
035	2047.5	1.52	Meth: 301.XX PPM Selenium			Meth: 311.XX PCT Sodium			073	0.316	-1.11	257	0.310	-1.18
324	1801.0 R	.95	065	256.50	.92	422	0.53 s	6.36	220	0.310	-1.22	409	0.275	-.87
409	1830.0	.88	232	263.50	.73	009	0.45	1.17	Meth: 321.30 PCT Acid Soluble Zinc			Meth: 321.XX PCT Acid Soluble Zinc		
040	1818.2	.85	009	261.80	.65	102	0.45	1.16	<u>ICP</u>			136	0.425	2.37
136	1810.0	.83	232	263.50	.73	247	0.44	.80	035	0.404	1.97	193	0.406	1.81
105	1745.0	.63	009	261.80	.65	193	0.44	.58	330	0.390	1.50	035	0.404	1.79
065	1701.5	.57	296	253.00	.26	232	0.43	.47	057	0.387	1.46	037	0.377 R	1.59
102	1692.5	.51	106	249.00	.23	Avg	0.43		102	0.384	1.32	040	0.395	1.52
247	1700.0	.50	Avg	247.22		409	0.42	-.46	423	0.372	.89	330	0.390	1.35
296	1535.0	.19	409	245.00	-.67	423	0.42	-.72	389	0.366	.68	057	0.387	1.32
Avg	1530.3		040	201.73	-2.03	320	0.41	-1.34	023	0.361	.55	102	0.384	1.19
232	1502.0	-.09	368	86.59 s	-7.12	288	0.41	-1.44	292	0.355	.37	095	0.377	.94
291	1444.0	-.25	Meth: 301.99 PPM Selenium			035	0.41 R	-1.56	106	0.355	.37	423	0.372	.79
368	1411.6	-.36	<u>Other</u>			Meth: 321.00 PCT Acid Soluble Zinc			360	0.355	.37	055	0.365	.68
376	1372.0	-.47	<u>ICP</u>			<u>ICP</u>			291	0.345	.26	389	0.366	.59
009	1207.5	-.95	035	2047.5	1.52	009	0.45	1.17	296	0.350	.20	029	0.363	.57
393	866.03	-1.97	324	1801.0 R	.95	102	0.45	1.16	324	0.345	.16	023	0.361	.48
* X=Excluded from lab performance			409	1830.0	.88	247	0.44	.80	Avg	0.344		247	0.360	.43
S/s=Screened Outlier			040	1818.2	.85	Avg	0.43		A=Analysis beyond 3-s limits					
R=Duplicate Range too large			136	1810.0	.83	409	0.42	-.46						
			105	1745.0	.63	423	0.42	-.72						

## Laboratory Averages &amp; 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

028	0.358	.36
381	0.355	.32
292	0.355	.32
106	0.355	.32
360	0.355	.31
296	0.350	.16
177	0.349	.11
Avg	0.346	
324	0.345	-.15
291	0.345	-.24
289	0.336	-.33
422	0.335	-.34
393	0.330	-.46
157	0.331	-.51
397	0.329	-.51
392	0.329	-.53
009	0.334	-.77
426	0.319	-.82
095	0.318	-.82
043	0.318	-.84
105	0.316	-.89
300	0.315	-.92
073	0.316	-.99
288	0.312	-1.00
065	0.315	-1.01
257	0.310	-1.06
220	0.310	-1.10
320	0.298	-1.43
232	0.298	-1.43
409	0.275	-2.10
368	0.235 s	-3.93

Meth: 325.00 PCT

Water Soluble Zinc

Atomic Absorption

193	0.122	.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	8	0.00	0.89	0.50	060.XX	10	0.00	1.02	0.08
001.99	13	0.00	0.96	0.33	101.30	13	- 0.09	0.99	0.37
001.XX	21	0.00	0.92	0.41	101.XX	15	- 0.07	1.00	0.27
009.10	2	0.00	1.20	0.17	121.00	19	0.23	1.38	0.35
009.XX	2	0.00	1.20	0.17	121.30	26	0.52	1.97	0.41
010.11	7	0.58	1.79	0.79	121.99	2	3.65	5.16	0.50
010.12	4	0.23	1.02	0.09	121.XX	46	1.38	5.36	0.42
010.60	55	0.05	1.35	0.59	131.00	2	0.00	1.21	0.12
010.99	8	0.00	0.90	0.47	131.XX	3	0.00	1.11	0.13
010.XX	72	0.14	1.15	0.53	144.01	15	- 0.43	2.69	0.67
020.10	11	- 0.35	1.48	0.30	144.99	18	- 0.84	3.97	0.19
020.20	20	0.14	1.05	0.46	144.XX	35	- 0.55	4.45	0.30
020.40	7	0.11	0.98	0.39	151.00	2	0.00	1.19	0.21
020.50	9	0.00	0.99	0.26	151.30	10	0.00	1.02	0.15
020.XX	46	0.06	1.15	0.41	151.XX	13	0.00	1.01	0.16
030.10	3	0.00	1.11	0.08	165.00	11	- 0.017	0.955	0.294
030.40	2	0.00	1.19	0.21	165.99	14	0.221	1.264	0.410
030.XX	6	- 0.10	0.97	0.17	165.XX	25	0.117	1.185	0.353
040.10	3	0.00	1.04	0.34	181.00	5	0.00	0.96	0.40
040.20	2	0.00	0.88	0.60	181.30	14	0.00	0.97	0.29
040.99	2	0.00	1.05	0.45	181.99	2	0.00	0.65	0.74
040.XX	9	0.10	0.99	0.48	181.XX	21	- 0.03	0.95	0.53
041.10	19	- 0.07	1.04	0.65	190.00	2	0.00	1.22	0.05
041.20	5	1.22	2.84	0.48	190.99	2	0.00	0.97	0.53
041.40	4	0.00	1.05	0.21	190.XX	4	0.00	1.04	0.24
041.50	11	- 0.21	1.64	1.06	191.30	12	0.00	0.99	0.26
041.60	13	- 0.76	2.18	0.56	191.XX	13	0.00	0.97	0.30
041.XX	43	0.09	1.74	0.72	202.30	15	- 1.44	3.91	0.20
048.20	5	0.00	0.93	0.46	202.XX	17	- 1.28	3.72	0.23
048.XX	6	3.14	7.73	1.55	221.00	16	0.0544	0.9804	0.2807
050.00	21	- 0.17	1.24	0.28	221.30	20	0.4119	2.0116	0.5530
050.30	10	0.00	1.02	0.14	221.99	2	0.0000	0.0000	0.8660
050.50	7	0.00	0.50	0.85	221.XX	36	0.1682	1.4409	0.4623
050.51	11	- 0.50	1.54	0.29	241.00	17	- 0.71	2.41	0.40
050.60	6	0.00	0.99	0.33	241.30	24	0.15	1.17	0.10
050.61	7	0.78	2.22	0.45	241.99	2	0.00	1.22	0.06
050.99	17	0.75	2.10	0.80	241.XX	41	0.02	1.21	0.26
050.XX	74	- 0.04	1.57	0.47	251.00	4	- 2.45	4.98	0.27
060.00	9	0.00	1.03	0.09	251.30	13	0.65	2.50	0.48

## 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
251.99	2	0.00	0.93	0.56					
251.XX	19	0.10	2.89	0.45					
261.00	16	0.000	0.934	0.389					
261.11	3	0.000	1.101	0.157					
261.30	18	- 0.214	1.284	1.042					
261.31	4	0.000	0.777	0.650					
261.99	3	0.000	0.953	0.477					
261.XX	43	- 0.174	1.290	0.818					
281.00	3	0.00	1.12	0.02					
281.30	3	0.00	1.11	0.11					
281.XX	7	0.06	0.97	0.15					
289.00	2	0.00	1.20	0.16					
289.30	15	0.08	3.94	0.65					
289.XX	18	0.04	3.53	0.59					
291.30	14	0.08	1.01	0.21					
291.99	2	0.00	1.17	0.26					
291.XX	17	0.05	0.99	0.18					
301.30	6	- 2.63	6.47	0.79					
301.XX	8	- 0.89	2.66	0.41					
311.99	9	0.60	2.35	0.50					
311.XX	11	0.50	2.14	0.52					
321.00	18	0.041	0.974	0.369					
321.30	25	- 0.155	1.174	0.539					
321.99	2	0.000	1.221	0.072					
321.XX	44	- 0.055	1.078	0.467					