

- Pass 1 Results for 75 Labs - - Pass 2 Results for 75 Labs -

Method	AOAC Ref.	Method Code	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups
Ammoniacal Nitrogen, MgO Distillation .	920.03	001.10	1	0.12	0.01	0.01	1	0.12	0.01	0.01
Ammoniacal Nitrogen, Other		001.99	5	1.00	1.29	0.03	4	1.23	1.34	0.01
Method Group 001.XX PCT			6	0.85	1.21	0.03	5	1.01	1.28	0.01
Nitrate Nitrogen, Other		002.99	1	0.00	0.00	0.00	1	0.00	0.00	0.00
Nitrogen From Urea, Urease (as N)	959.03	005.00	1	2.89	0.05	0.06	1	2.89	0.05	0.06
Nitrogen From Urea, Other		005.99	2	3.01	0.26	0.02	2	3.01	0.26	0.02
Method Group 005.XX PCT			3	2.97	0.21	0.04	3	2.97	0.21	0.04
Percent Urea, Other		007.99	1	3.06	0.00	0.00	1	3.06	0.00	0.00
Ammon & Nitrate N, Devarda	892.01	009.10	1	3.08	0.01	0.02	1	3.08	0.01	0.02
Total Nitrogen, Modified Comprehensive	978.02	010.11	9	3.19	0.08	0.02	9	3.19	0.08	0.02
Total Nitrogen, Salicylic	955.04D	010.12	5	3.25	0.10	0.05	5	3.25	0.10	0.05
Total Nitrogen, Combustion		010.60	48	3.20	0.13	0.05	46	3.19	0.12	0.04
Total Nitrogen, Other		010.99	3	3.21	0.03	0.05	3	3.21	0.03	0.05
Method Group 010.XX PCT			66	3.21	0.12	0.04	64	3.20	0.12	0.04
Total Phosphate, Grav Quimociac	962.02	020.10	8	6.16	0.20	0.05	8	6.16	0.20	0.05
Total Phosphate, Spectrometric	958.01	020.20	13	6.05	0.12	0.06	12	6.07	0.10	0.05
Total Phosphate, Automated	978.01	020.40	6	6.11	0.14	0.08	5	6.12	0.13	0.03
Total Phosphate, ICP		020.50	9	6.11	0.17	0.15	8	6.13	0.14	0.10
Total Phosphate, Other		020.99	2	6.04	0.40	0.01	2	6.04	0.40	0.01
Method Group 020.XX PCT			38	6.09	0.17	0.08	35	6.10	0.17	0.05
InDir Available Phosphate, Spectrometri	960.02	040.20	1	6.00	0.01	0.02	1	6.00	0.01	0.02
Dir Available Phosphate, Grav Quimociac	960.03E	041.10	13	6.08	0.06	0.04	12	6.08	0.06	0.03
Dir Available Phosphate, Automated	978.01	041.40	3	6.05	0.11	0.03	3	6.05	0.11	0.03
Dir Available Phosphate, ICP		041.50	9	6.02	0.13	0.05	8	6.03	0.13	0.04
Dir Available Phosphate, EDTA Extract .	993.01	041.60	10	6.03	0.17	0.05	9	6.04	0.18	0.04
Method Group 041.XX PCT			36	6.06	0.13	0.05	33	6.07	0.11	0.04
Soluble Potash, STPB Oxalate	958.02	050.00	13	9.07	0.26	0.14	13	9.07	0.26	0.14
Soluble Potash, STPB Citrate	969.04	050.10	2	9.00	0.08	0.07	2	9.00	0.08	0.07
Soluble Potash, AA (Oxalate)		050.30	9	8.84	0.32	0.09	9	8.84	0.32	0.09
Soluble Potash, AA (Citrate)		050.31	1	8.54	0.11	0.15	1	8.54	0.11	0.15
Soluble Potash, ICP (Oxalate)		050.50	7	8.91	0.37	0.13	6	8.96	0.37	0.08
Soluble Potash, ICP (Citrate)		050.51	9	9.20	0.36	0.09	9	9.20	0.36	0.09
Soluble Potash, Flame (Oxalate)	983.02(a)	050.60	7	8.77	0.34	0.05	7	8.77	0.34	0.05
Soluble Potash, Flame (Citrate)	983.02(b)	050.61	9	9.16	0.20	0.10	9	9.16	0.20	0.10
Soluble Potash, Other		050.99	16	8.98	0.19	0.17	15	8.99	0.16	0.12
Method Group 050.XX PCT			74	9.01	0.32	0.12	70	9.02	0.31	0.09
Acid Soluble Calcium, ICP		101.30	8	0.10	0.16	0.01	7	0.07	0.14	0.00
Acid Soluble Magnesium, ICP		121.30	7	0.02	0.05	0.00	6	0.02	0.05	0.00
Sulfur, Gravimetric	980.02a	144.01	6	0.47	0.27	0.04	5	0.43	0.27	0.01

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Sulfur, Gravimetric	980.02b	144.02	2	0.52	0.07	0.02	2	0.52	0.07	0.02
Sulfur, Other		144.99	21	0.54	0.18	0.02	20	0.53	0.18	0.02
Method Group 144.XX PCT			29	0.52	0.19	0.02	27	0.51	0.20	0.02
Arsenic, ICP		151.30	1	6.37	0.19	0.27	1	6.37	0.19	0.27
Acid Soluble Boron, Spectrometric	982.01	165.00	7	0.023	0.002	0.001	7	0.023	0.002	0.001
Acid Soluble Boron, Other		165.99	20	0.024	0.003	0.001	19	0.024	0.003	0.001
Method Group 165.XX PCT			28	0.024	0.003	0.001	26	0.024	0.003	0.001
Water Soluble Boron, Other		171.99	1	0.022	0.000	0.000	1	0.022	0.000	0.000
Cadmium, ICP		181.30	2	0.05	0.01	0.01	2	0.05	0.01	0.01
Water Soluble Chlorine, Other		190.99	1	0.21	0.01	0.01	1	0.21	0.01	0.01
Chromium, ICP		191.30	3	1.20	0.54	0.07	3	1.20	0.54	0.07
Acid Soluble Cobalt, ICP	965.11	202.30	1	0.08	0.01	0.01	1	0.08	0.01	0.01
Acid Soluble Cobalt, Other		202.99	1	0.12	0.01	0.02	1	0.12	0.01	0.02
Method Group 202.XX PPM			2	0.10	0.03	0.02	2	0.10	0.03	0.02
Acid Soluble Copper, Atomic Absorption	975.01	221.00	11	0.0375	0.0024	0.0006	10	0.0372	0.0023	0.0004
Acid Soluble Copper, ICP		221.30	31	0.0379	0.0023	0.0008	29	0.0380	0.0023	0.0007
Acid Soluble Copper, Other		221.99	2	0.0387	0.0015	0.0002	2	0.0387	0.0015	0.0002
Method Group 221.XX PCT			44	0.0378	0.0023	0.0008	41	0.0378	0.0023	0.0006
Acid Soluble Iron, Atomic Absorption ..	980.01	241.00	9	0.06	0.00	0.00	8	0.06	0.00	0.00
Acid Soluble Iron, ICP		241.30	33	0.06	0.01	0.00	30	0.06	0.01	0.00
Acid Soluble Iron, Other		241.99	2	0.07	0.01	0.00	2	0.07	0.01	0.00
Method Group 241.XX PCT			44	0.06	0.01	0.00	39	0.06	0.00	0.00
Lead, ICP		251.30	2	1.50	1.42	0.17	2	1.50	1.42	0.17
Acid Soluble Manganese, AA	972.02a	261.00	8	0.051	0.002	0.001	8	0.051	0.002	0.001
Acid Soluble Manganese, ICP	972.02a	261.30	30	0.051	0.003	0.001	26	0.051	0.003	0.001
Acid Soluble Manganese, ICP	972.02b	261.31	1	0.055	0.000	0.001	1	0.055	0.000	0.001
Acid Soluble Manganese, Other		261.99	4	0.052	0.005	0.001	4	0.052	0.005	0.001
Method Group 261.XX PCT			43	0.051	0.003	0.001	41	0.052	0.003	0.001
Water Soluble Manganese, ICP	972.03	271.30	1	0.054	0.003	0.004	1	0.054	0.003	0.004
Mercury, ICP		281.30	1	3.71	0.21	0.30	1	3.71	0.21	0.30
Molybdenum, ICP		289.30	14	11.93	1.00	0.39	14	11.93	1.00	0.39
Molybdenum, Other		289.99	1	11.25	0.07	0.10	1	11.25	0.07	0.10
Method Group 289.XX PPM			15	11.88	0.98	0.37	15	11.88	0.98	0.37
Nickel, ICP		291.30	1	0.02	0.00	0.01	1	0.02	0.00	0.01
Selenium, ICP		301.30	1	1.14	0.08	0.11	1	1.14	0.08	0.11
Sodium, Other		311.99	7	0.06	0.04	0.00	6	0.06	0.05	0.00
Acid Soluble Zinc, Atomic Absorption ..	975.02	321.00	10	0.048	0.002	0.001	10	0.048	0.002	0.001
Acid Soluble Zinc, ICP		321.30	32	0.049	0.003	0.001	29	0.049	0.003	0.001
Acid Soluble Zinc, Other		321.99	1	0.060	0.000	0.000	1	0.060	0.000	0.000

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Method	AOAC Ref.	Method Code	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups
Method Group 321.XX PCT			43	0.049	0.003	0.001	39	0.048	0.002	0.001
Water Soluble Zinc, Atomic Absorption .		325.00	1	0.049	0.000	0.000	1	0.049	0.000	0.000
Water Soluble Zinc, ICP		325.30	2	0.049	0.002	0.003	2	0.049	0.002	0.003
Water Soluble Zinc, Other		325.99	1	0.048	0.001	0.002	1	0.048	0.001	0.002
Method Group 325.XX PCT			4	0.049	0.002	0.002	4	0.049	0.002	0.002

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 001.10 PCT Ammoniacal Nitrogen <u>MgO Distillation</u>			Meth: 005.99 PCT Nitrogen From Urea <u>Other</u>			Meth: 010.12 PCT Total Nitrogen <u>Salicylic</u>			Meth: 010.60 PCT Total Nitrogen <u>Combustion</u>			Meth: 010.XX PCT Total Nitrogen <u>102 19.22 s 132.92</u>		
232	0.12	.71	309	2.79	-.87	254	3.38	1.50	025	3.21	.15	390	3.68 s	3.97
						455	3.32	.70	177	3.20	.09	309	3.53	2.69
Meth: 001.99 PCT Ammoniacal Nitrogen <u>Other</u>			Meth: 005.XX PCT Nitrogen From Urea <u>Nitrogen From Urea</u>			Avg 3.25			Avg 3.19			351 3.43 R 2.03		
137	3.13	1.41	444	3.24	1.25	397	3.22	-.36	009	3.15	-.33	043	3.43	1.89
393	1.61	.28	Avg 2.97			185	3.18	-.78	233	3.13	-.47	368	3.42	1.77
Avg 1.23			232	2.89	-.41	117	3.16	-1.01	453	3.14	-.50	073	3.39	1.60
027	0.10	-.84	309	2.79	-.87	Meth: 010.60 PCT Total Nitrogen <u>Combustion</u>			157	3.13	-.52	136	3.37 R	1.58
096	0.10	-.85	Meth: 007.99 PCT Percent Urea <u>Other</u>			102	19.22 s	128.97	034	3.13	-.55	254	3.38	1.53
105	0.05 R	-.88	027	3.06	.00	390	3.68 S	3.94	369	3.12	-.58	027	3.37	1.36
Meth: 001.XX PCT Ammoniacal Nitrogen			Meth: 009.10 PCT Ammon & Nitrate N <u>Devarda</u>			351	3.43 R	2.05	361	3.12	-.63	022	3.35	1.30
137	3.13	1.66	073	3.39	1.63	043	3.43	1.92	040	3.13	-.64	393	3.36	1.27
393	1.61	.47	136	3.37 R	1.61	368	3.42	1.80	018	3.10	-.74	360	3.34	1.16
Avg 1.01			200	3.08	-.71	073	3.39	1.63	055	3.09	-.86	422	3.33	1.06
232	0.12	-.70	Meth: 010.11 PCT Total Nitrogen <u>Modified Comprehensi</u>			027	3.37	1.40	023	3.09	-.86	455	3.32	.94
027	0.10	-.71	309	3.53 s	4.24	022	3.35	1.34	232	3.10	-.89	090	3.31	.86
096	0.10	-.72	090	3.31	1.44	393	3.36	1.32	426	3.09	-.93	007	3.30	.81
105	0.05 R	-.75	114	3.24	.67	360	3.34	1.21	106	3.08	-.98	325	3.30	.77
Meth: 002.99 PCT Nitrate Nitrogen <u>Other</u>			200	3.08	-.71	027	3.37	1.40	377	3.07	-1.01	029	3.29	.73
393	0.00 X	.00	Meth: 005.00 PCT Nitrogen From Urea <u>Urease (as N)</u>			022	3.35	1.34	028	3.05	-1.16	086	3.29	.72
			456	3.22	.36	393	3.36	1.32	096	3.04	-1.22	292	3.29	.69
Meth: 005.99 PCT Nitrogen From Urea <u>Other</u>			090	3.31	1.44	360	3.34	1.21	444	3.02	-1.38	041	3.27	.59
444	3.24	.87	114	3.24	.67	422	3.33	1.11	024	3.02	-1.40	330	3.25	.58
Avg 3.01			416	3.24	.62	007	3.30	.87	230	2.97	-1.78	231	3.27	.57
			105	3.23	.47	325	3.30	.84	131	2.93	-2.15	354	3.24	.40
			456	3.22	.36	029	3.29	.80	234	2.75 S	-3.56	114	3.24	.36
			Avg 3.19			086	3.29	.79	042	2.65 s	-4.38	296	3.24	.33
			460	3.18	-.29	292	3.29	.75	247	1.98 s	-9.79	416	3.24	.31
			211	3.17	-.34	041	3.27	.65	Meth: 010.99 PCT Total Nitrogen <u>Other</u>			255	3.22	.25
			029	3.12	-.94	231	3.27	.64	255	3.22	.65	371	3.23	.25
			260	3.03	-2.04	330	3.25	.62	371	3.23	.52	105	3.23	.23
						354	3.24	.46				397	3.22	.22
						296	3.24	.40				057	3.21	.21
						428	3.20 X	.36				324	3.22	.16
						035	3.20	.33				456	3.22	.16
						057	3.21	.23				291	3.22	.12
						324	3.22	.23				025	3.21	.07
						291	3.22	.19				Avg 3.20		

* 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: 020.10 PCT			Meth: 020.40 PCT			Meth: 020.XX PCT			Meth: 040.20 PCT		
<u>Total Nitrogen</u>			<u>Total Phosphate</u>			<u>Total Phosphate</u>			<u>Total Phosphate</u>			<u>InDir Available Phos Spectrometri</u>		
177	3.20	-.05	057	6.53	1.93	024	5.98	-1.07	428	6.28 X	1.09	300	6.00	.71
460	3.18	-.25	114	6.39	1.18	042	6.06 R	-1.36	422	6.22	.75			
185	3.18	-.26	Avg 6.16						292	6.18	.44			
211	3.17	-.31	157	6.15	-.08	Meth: 020.50 PCT			157	6.15	.34	Meth: 041.10 PCT		
035	3.20	-.33	090	6.12	-.24	<u>Total Phosphate</u>			444	6.14	.33	Dir Available Phosph		
105	3.19	-.35	444	6.07	-.47	<u>ICP</u>			393	6.15	.32	<u>Grav Quimociac</u>		
428	3.20 X	-.38	105	6.06	-.51	426	7.59 s	10.34	234	6.13	.30	254	6.28 s	3.40
009	3.15	-.43	117	5.98	-.92	432	6.94 S	5.71	368	6.11	.22	105	6.13 R	1.47
117	3.16	-.44	041	5.97	-1.00	361	6.38	1.74	090	6.12	.17	055	6.14	1.01
233	3.13	-.57	Meth: 020.20 PCT			422	6.22	.71	096	6.12	.13	211	6.13	.83
453	3.14	-.59	<u>Total Phosphate</u>			444	6.14	.29	Avg	6.10		029	6.13	.75
157	3.13	-.62	<u>Spectrometric</u>			393	6.15	.18	177	6.09	-.09	136	6.12	.71
034	3.13	-.65	428	6.28 X	2.15	Avg	6.13		105	6.08	-.15	296	6.12	.71
369	3.12	-.69	292	6.18	1.08	368	6.11	-.27	232	6.07	-.17	086	6.11	.66
029	3.12	-.70	234	6.13	.74	255	6.01	-1.00	444	6.07	-.23	009	6.09	.60
040	3.13	-.73	177	6.09	.26	291	5.97	-1.14	456	6.07	-.25	185	6.10	.32
361	3.12	-.73	231	6.09	.20	390	6.07	-1.21	105	6.06	-.27	Avg	6.08	
018	3.10	-.85	232	6.07	.18	330	5.95 R	-2.18	200	6.05	-.30	131	6.06	-.49
055	3.09	-.97	Avg	6.07		453	5.49 S	-4.69	371	6.05	-.35	040	6.01	-1.29
023	3.09	-.98	200	6.05	-.18	Meth: 020.99 PCT			309	6.00	-.62	102	6.01	-1.47
232	3.10	-1.00	371	6.05	-.33	<u>Total Phosphate</u>			416	5.99	-.68	260	5.98	-1.80
426	3.09	-1.04	309	6.00	-.69	<u>Other</u>			255	6.01	-.68	Meth: 041.40 PCT		
106	3.08	-1.09	416	5.99	-.79	137	6.39	.87	024	5.98	-.73	Dir Available Phosph		
377	3.07	-1.12	460	5.95	-1.23	Avg	6.04		117	5.98	-.74	<u>Automated</u>		
028	3.05	-1.29	369	5.93	-1.52	455	5.69	-.87	291	5.97	-.78	029	6.17	1.08
096	3.04	-1.35	324	5.84 R	-2.46	Meth: 020.XX PCT			041	5.97	-.84	131	6.06	.14
260	3.03	-1.43	Meth: 020.40 PCT			<u>Total Phosphate</u>			460	5.95	-.94	Avg	6.05	
444	3.02	-1.51	<u>Total Phosphate</u>			035	9.25 s	18.58	390	6.07 R	-.96	027	5.92	-1.14
024	3.02	-1.53	<u>Automated</u>			426	7.59 s	8.81	042	6.06 R	-1.03	025	4.20 S	-16.46
230	2.97	-1.93	035	9.25 s	23.59	432	6.94 s	4.94	369	5.93	-1.10	Meth: 041.50 PCT		
131	2.93	-2.30	247	6.35	1.74	057	6.53	2.55	324	5.84	-1.67	Dir Available Phosph		
234	2.75 s	-3.76	096	6.12	.08	137	6.39	1.71	330	5.95 R	-1.72	<u>ICP</u>		
042	2.65 s	-4.60	Avg	6.12		114	6.39	1.68	455	5.69	-2.42	007	6.28	1.95
247	1.98 s	-10.19	105	6.08	-.33	361	6.38	1.63	453	5.49 s	-3.74	325	6.10	.57
			456	6.07	-.43	247	6.35	1.48				360	6.08	.51
												377	6.03	.40

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 041.50 PCT			Meth: 041.XX PCT			Meth: 050.00 PCT			Meth: 050.31 PCT			Meth: 050.60 PCT		
<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>			<u>Soluble Potash</u>			<u>Soluble Potash</u>			<u>Soluble Potash</u>		
<u>ICP</u>			<u>STPB Oxalate</u>			<u>STPB Oxalate</u>			<u>AA (Citrate)</u>			<u>Flame (Oxalate)</u>		
Avg	6.03		055	6.14	.62	009	9.40	1.33	254	8.54	.71	055	8.83	.19
393	6.01	-.20	211	6.13	.52	114	9.29	1.00				Avg	8.77	
023	5.98	-.37	029	6.13	.48	029	9.09	.10	Meth: 050.50 PCT			200	8.37	-1.21
043	5.90	-1.03	136	6.12	.45	231	9.08	.06	<u>Soluble Potash</u>			309	8.21	-1.70
009	5.93 R	-1.07	296	6.12	.45	Avg 9.07			<u>ICP (Oxalate)</u>			Meth: 050.61 PCT		
354	5.87	-1.31	086	6.11	.42	211	9.06	-.05	426	10.43 s	4.01	<u>Soluble Potash</u>		
			360	6.08	.41	090	9.03	-.14	324	9.42	1.26	<u>Flame (Citrate)</u>		
			018	6.09	.34	057	9.02	-.26	354	9.07	.32	028	9.56	2.15
			009	6.09	.34	055	8.97	-.37	106	9.05	.27	456	9.25	.52
Meth: 041.60 PCT			325	6.10	.26	043	8.89	-.90	292	9.06	.27	025	9.23	.34
<u>Dir Available Phosph</u>			185	6.10	.25	230	8.90	-1.09	Avg	8.96		041	9.20	.33
<u>EDTA Extract</u>			Avg	6.07		416	8.77	-1.15	444	8.90	-.18	024	9.19	.18
034	6.29	1.43	351	6.07	-.09	102	8.77	-1.25	390	8.63 R	-1.07	Avg	9.16	
105	6.18	.81	073	6.06	-.15	Meth: 050.10 PCT			422	8.25	-1.90	105	9.06	-.51
296	6.15	.61	131	6.06	-.15	<u>Soluble Potash</u>			Meth: 050.51 PCT			029	9.07	-.77
018	6.09	.34	131	6.06	-.22	<u>STPB Citrate</u>			<u>Soluble Potash</u>			018	8.96	-1.02
351	6.07	.18	377	6.03	-.60	117	9.06	.95	<u>ICP (Citrate)</u>			034	8.93	-1.21
073	6.06	.15	393	6.01	-.61	Avg	9.00		361	9.72	1.44	035	6.02 s	-16.05
Avg	6.04		040	6.01	-.62	300	8.94	-.77	432	9.66	1.31	Meth: 050.99 PCT		
106	5.97	-.37	102	6.01	-.73	Meth: 050.30 PCT			007	9.39	.57	<u>Soluble Potash</u>		
043	6.00 R	-.54	023	5.98	-.81	<u>Soluble Potash</u>			009	9.38	.52	<u>Other</u>		
231	5.85	-1.06	260	5.98	-.89	<u>AA (Oxalate)</u>			453	9.24	.35	137	9.75 s	4.86
028	5.68	-2.00	106	5.97	-.94	369	9.45	1.93	Avg	9.20		325	9.20	1.33
397	0.39 s	-31.25	043	6.00 R	-1.06	234	9.13	.94	291	8.93	-.76	086	9.02	1.22
			027	5.92	-1.39	040	8.98	.63	023	8.91	-.81	455	9.17	1.16
			009	5.93 R	-1.55	136	8.90	.19	043	8.82	-1.06	027	9.16	1.12
			043	5.90	-1.58	Avg	8.84		377	8.75	-1.27	177	9.13	.94
			354	5.87	-1.90	351	8.77	-.19	393	7.42 s	-4.97	131	9.00	.40
			231	5.85	-2.08	043	8.73	-.33	Meth: 050.60 PCT			371	9.01	.28
			028	5.68 A	-3.63	073	8.64	-.64	<u>Soluble Potash</u>			247	9.02	.27
			025	4.20 s	-17.07	428	8.52 X	-1.01	<u>Flame (Oxalate)</u>			Avg	8.99	
			230	1.73 s	-39.62	185	8.40	-1.37	105	9.11	.99	397	8.96	-.43
			397	0.39 s	-51.75	Meth: 050.00 PCT			131	9.02	.73	368	8.89	-.68
			<u>Soluble Potash</u>			<u>Soluble Potash</u>			157	8.99	.68	360	8.91	-.73
			<u>STPB Oxalate</u>			<u>STPB Oxalate</u>			460	8.90	.37	255	8.97	-.73
			444	9.59	2.15									

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

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 050.99 PCT			Meth: 050.XX PCT			Meth: 050.XX PCT			Meth: 144.01 PCT			Meth: 144.99 PCT		
Soluble Potash			Soluble Potash			Soluble Potash			Sulfur			Sulfur		
<u>Other</u>			<u>Other</u>			<u>Other</u>			<u>Gravimetric</u>			<u>Other</u>		
232	8.84	-.97	057	9.02	.16	042	8.90 R	-1.41	200	13.71 s	48.64	137	0.28	-1.41
260	8.79	-1.29	105	9.06	.14	390	8.63 R	-1.43	105	0.69 R	.99	096	0.28	-1.41
330	8.80	-1.77	292	9.06	.12	254	8.54	-1.56	324	0.67	.90	086	0.21	-1.79
042	8.90 R	-2.79	211	9.06	.12	428	8.52 X	-1.61	296	0.64	.77	230	0.03	-2.79
			090	9.03	.05	185	8.40	-1.97	028	0.60	.64			
			131	9.02	.03	200	8.37	-2.07	Avg	0.43				
			Avg	9.02		422	8.25	-2.44	444	0.12	-1.14	Meth: 144.XX PCT		
Meth: 050.XX PCT			247			309			057			<u>Sulfur</u>		
<u>Soluble Potash</u>			371			393			057			200		
426	10.43 s	4.53	055	8.97	-.15	035	6.02 s	-9.57				105	0.69 R	.95
137	9.75	2.34	018	8.96	-.19				Meth: 144.02 PCT			422	0.68	.85
361	9.72	2.22	131	9.00	-.20	Meth: 101.30 PCT			Sulfur			324	0.67	.81
432	9.66	2.07	157	8.99	-.24	Acid Soluble Calcium			<u>Gravimetric</u>			037	0.66	.76
444	9.59	1.92	300	8.94	-.25	<u>ICP</u>			292	0.58	.86	393	0.66 X	.75
028	9.56	1.78	397	8.96	-.26	422	0.39	2.34	Avg	0.52		330	0.65 R	.74
369	9.45	1.39	291	8.93	-.29	041	0.36 R	2.18	043	0.46	-.87	351	0.65	.69
324	9.42	1.30	034	8.93	-.32	Avg	0.07		Meth: 144.99 PCT			102	0.64	.67
009	9.40	1.24	023	8.91	-.36	393	0.06	-.07	Sulfur			027	0.64	.65
007	9.39	1.20	460	8.90	-.37	096	0.01	-.42	<u>Other</u>			009	0.64	.63
009	9.38	1.16	255	8.97	-.39	086	0.01	-.44	422	0.68	.81	296	0.64	.63
114	9.29	.96	136	8.90	-.39	292	0.01	-.45	037	0.66	.71	368	0.63	.61
453	9.24	.81	444	8.90	-.40	009	0.00	-.48	330	0.65 R	.70	232	0.63	.57
456	9.25	.76	368	8.89	-.42	102	0.00	-.48	393	0.66 X	.70	360	0.63	.57
025	9.23	.66	360	8.91	-.43	Meth: 121.30 PCT			351	0.65	.63	117	0.62	.52
086	9.02	.60	040	8.98	-.44	Acid Soluble Magnesi			102	0.64	.61	028	0.60	.45
041	9.20	.59	232	8.84	-.57	<u>ICP</u>			027	0.64	.59	390	0.60	.43
325	9.20	.58	055	8.83	-.60	422	0.13	2.12	009	0.64	.58	453	0.60	.43
024	9.19	.55	043	8.89	-.63	Avg	0.02		368	0.63	.55	255	0.59	.39
455	9.17	.49	043	8.82	-.64	027	0.02	-.12	232	0.63	.51	292	0.58	.34
027	9.16	.47	260	8.79	-.73	393	0.01 R	-.25	360	0.63	.50	291	0.55	.19
029	9.07	.44	351	8.77	-.77	086	0.00	-.49	117	0.62	.45	Avg	0.51	
234	9.13	.39	416	8.77	-.79	102	0.00	-.50	390	0.60	.36	035	0.48	-.15
177	9.13	.38	230	8.90 R	-.82	292	0.00	-.50	453	0.60	.36	043	0.46	-.30
105	9.11	.30	377	8.75	-.87	041	0.00	-.50	255	0.59	.31	137	0.28	-1.18
029	9.09	.23	102	8.77	-.88				291	0.55	.09	096	0.28	-1.19
117	9.06	.21	043	8.73	-.92				Avg	0.53		086	0.21	-1.53
354	9.07	.21	330	8.80 R	-.94				035	0.48	-.28	444	0.12	-2.02
231	9.08	.20	073	8.64	-1.23							057	0.11	-2.07
106	9.05	.16												

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

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
<u>Meth: 144.XX PCT</u>			<u>Meth: 165.99 PCT</u>			<u>Meth: 165.XX PCT</u>			<u>Meth: 202.30 PPM</u>			<u>Meth: 221.30 PCT</u>		
<u>Sulfur</u>			<u>Acid Soluble Boron</u>			<u>Acid Soluble Boron</u>			<u>Acid Soluble Cobalt</u>			<u>Acid Soluble Copper</u>		
230	0.03	-2.45	<u>Other</u>			232	0.023	-.39	<u>ICP</u>			<u>ICP</u>		
			368	0.023	-.24	230	0.023	-.43	102	0.08	-.71	117	0.0399	.94
<u>Meth: 151.30 PPM</u>			255	0.023	-.37	009	0.024	-.48	<u>Meth: 202.99 PPM</u>			027	0.0400	.88
<u>Arsenic</u>			232	0.023	-.40	444	0.023	-.52	<u>Acid Soluble Cobalt</u>			231	0.0400	.88
<u>ICP</u>			230	0.023	-.43	453	0.022	-.67	<u>Other</u>			422	0.0400	.88
393	6.37 X	.71	009	0.024	-.44	291	0.022	-.86	<u>Meth: 202.XX PPM</u>			292	0.0400	.88
<u>Meth: 165.00 PCT</u>			444	0.023	-.52	433	0.021	-1.15	<u>Acid Soluble Cobalt</u>			432	0.0400	.88
<u>Acid Soluble Boron</u>			453	0.022	-.65	292	0.020	-1.37	<u>Other</u>			102	0.0396	.72
<u>Spectrometric</u>			291	0.022	-.82	043	0.017	-2.41	<u>Meth: 202.XX PPM</u>			090	0.0395	.70
055	0.026 s	2.41	433	0.021	-1.08	<u>Meth: 171.99 PCT</u>			<u>Acid Soluble Cobalt</u>			086	0.0387	.58
028	0.025	1.09	043	0.017	-2.21	<u>Water Soluble Boron</u>			<u>Avg</u>			255	0.0382	.47
023	0.025	.69	<u>Meth: 165.XX PCT</u>			<u>Other</u>			<u>Meth: 221.00 PCT</u>			354	0.0380	.44
397	0.024	.68	<u>Acid Soluble Boron</u>			<u>Meth: 181.30 PPM</u>			<u>Acid Soluble Copper</u>			037	0.0390	.44
393	0.024	.13	432	0.285 s	91.72	<u>Cadmium</u>			<u>Atomic Absorption</u>			230	0.0389	.42
428	0.024 X	.12	300	0.140 s	40.78	<u>ICP</u>			<u>Meth: 221.00 PCT</u>			444	0.0385	.31
Avg	0.023		200	0.105 s	28.54	<u>Meth: 181.30 PPM</u>			<u>Acid Soluble Copper</u>			232	0.0385	.23
057	0.023	-.33	354	0.054 s	10.57	<u>Cadmium</u>			<u>Atomic Absorption</u>			368	0.0384	.19
292	0.020	-2.06	106	0.030	2.14	<u>ICP</u>			<u>Meth: 221.00 PCT</u>			Avg	0.0380	
<u>Meth: 165.99 PCT</u>			137	0.030	2.14	<u>Meth: 190.99 PCT</u>			<u>Acid Soluble Copper</u>			131	0.0377	-.16
<u>Acid Soluble Boron</u>			422	0.025 R	1.80	<u>Water Soluble Chlori</u>			<u>Atomic Absorption</u>			360	0.0375	-.31
<u>Other</u>			042	0.028	1.48	<u>Other</u>			<u>Meth: 221.00 PCT</u>			324	0.0373	-.33
432	0.285 s	82.19	055	0.026 R	1.35	<u>Meth: 190.99 PCT</u>			<u>Acid Soluble Copper</u>			057	0.0368	-.51
300	0.140 s	36.51	086	0.027	1.28	<u>Water Soluble Chlori</u>			<u>Atomic Absorption</u>			393	0.0363	-.76
200	0.105 s	25.54	360	0.026	.74	<u>Other</u>			<u>Meth: 221.30 PCT</u>			390	0.0375 R	-.76
354	0.054 S	9.43	028	0.025	.52	<u>Meth: 191.30 PPM</u>			<u>Acid Soluble Copper</u>			035	0.0360	-.88
106	0.030	1.87	397	0.024	.35	<u>Chromium</u>			<u>Atomic Absorption</u>			023	0.0365 R	-.93
137	0.030	1.87	090	0.025	.27	<u>ICP</u>			<u>Meth: 221.30 PCT</u>			433	0.0353	-1.22
422	0.025 R	1.60	023	0.025	.27	<u>Meth: 191.30 PPM</u>			<u>Acid Soluble Copper</u>			022	0.0350	-1.31
042	0.028	1.28	324	0.025	.27	<u>Chromium</u>			<u>Atomic Absorption</u>			453	0.0345	-1.55
086	0.027	1.10	Avg	0.024		<u>Meth: 191.30 PPM</u>			<u>Meth: 221.30 PCT</u>			042	0.0335	-1.99
360	0.026	.61	428	0.024 X	-.09	<u>Chromium</u>			<u>Acid Soluble Copper</u>			291	0.0325	-2.42
090	0.025	.21	393	0.024	-.10	<u>ICP</u>			<u>Meth: 221.30 PCT</u>			106	0.0350 s	-2.56
324	0.025	.19	117	0.024	-.15	<u>Meth: 191.30 PPM</u>			<u>Acid Soluble Copper</u>			<u>Meth: 221.99 PCT</u>		
Avg	0.024		040	0.024	-.15	<u>Chromium</u>			<u>Atomic Absorption</u>			<u>Acid Soluble Copper</u>		
040	0.024	-.17	368	0.023	-.22	<u>Meth: 191.30 PPM</u>			<u>Meth: 221.99 PCT</u>			<u>Other</u>		
117	0.024	-.18	057	0.023	-.25	<u>Chromium</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
			255	0.023	-.36	<u>ICP</u>			<u>Meth: 221.99 PCT</u>			<u>Other</u>		
						<u>Meth: 191.30 PPM</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Chromium</u>			<u>Meth: 221.99 PCT</u>			<u>Other</u>		
						<u>ICP</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Meth: 191.30 PPM</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Chromium</u>			<u>Meth: 221.99 PCT</u>			<u>Other</u>		
						<u>ICP</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Meth: 191.30 PPM</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Chromium</u>			<u>Meth: 221.99 PCT</u>			<u>Other</u>		
						<u>ICP</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Meth: 191.30 PPM</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Chromium</u>			<u>Meth: 221.99 PCT</u>			<u>Other</u>		
						<u>ICP</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Meth: 191.30 PPM</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Chromium</u>			<u>Meth: 221.99 PCT</u>			<u>Other</u>		
						<u>ICP</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Meth: 191.30 PPM</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Chromium</u>			<u>Meth: 221.99 PCT</u>			<u>Other</u>		
						<u>ICP</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Meth: 191.30 PPM</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Chromium</u>			<u>Meth: 221.99 PCT</u>			<u>Other</u>		
						<u>ICP</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Meth: 191.30 PPM</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Chromium</u>			<u>Meth: 221.99 PCT</u>			<u>Other</u>		
						<u>ICP</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Meth: 191.30 PPM</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Chromium</u>			<u>Meth: 221.99 PCT</u>			<u>Other</u>		
						<u>ICP</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Meth: 191.30 PPM</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Chromium</u>			<u>Meth: 221.99 PCT</u>			<u>Other</u>		
						<u>ICP</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Meth: 191.30 PPM</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Chromium</u>			<u>Meth: 221.99 PCT</u>			<u>Other</u>		
						<u>ICP</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Meth: 191.30 PPM</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Chromium</u>			<u>Meth: 221.99 PCT</u>			<u>Other</u>		
						<u>ICP</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Meth: 191.30 PPM</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Chromium</u>			<u>Meth: 221.99 PCT</u>			<u>Other</u>		
						<u>ICP</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Meth: 191.30 PPM</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Chromium</u>			<u>Meth: 221.99 PCT</u>			<u>Other</u>		
						<u>ICP</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Meth: 191.30 PPM</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Chromium</u>			<u>Meth: 221.99 PCT</u>			<u>Other</u>		
						<u>ICP</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Meth: 191.30 PPM</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Chromium</u>			<u>Meth: 221.99 PCT</u>			<u>Other</u>		
						<u>ICP</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Meth: 191.30 PPM</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Chromium</u>			<u>Meth: 221.99 PCT</u>			<u>Other</u>		
						<u>ICP</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Meth: 191.30 PPM</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Chromium</u>			<u>Meth: 221.99 PCT</u>			<u>Other</u>		
						<u>ICP</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Meth: 191.30 PPM</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Chromium</u>			<u>Meth: 221.99 PCT</u>			<u>Other</u>		
						<u>ICP</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Meth: 191.30 PPM</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Chromium</u>			<u>Meth: 221.99 PCT</u>			<u>Other</u>		
						<u>ICP</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Meth: 191.30 PPM</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Chromium</u>			<u>Meth: 221.99 PCT</u>			<u>Other</u>		
						<u>ICP</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Meth: 191.30 PPM</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Chromium</u>			<u>Meth: 221.99 PCT</u>			<u>Other</u>		
						<u>ICP</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Meth: 191.30 PPM</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Chromium</u>			<u>Meth: 221.99 PCT</u>			<u>Other</u>		
						<u>ICP</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Meth: 191.30 PPM</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Chromium</u>			<u>Meth: 221.99 PCT</u>			<u>Other</u>		
						<u>ICP</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Meth: 191.30 PPM</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Chromium</u>			<u>Meth: 221.99 PCT</u>			<u>Other</u>		
						<u>ICP</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Meth: 191.30 PPM</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Chromium</u>			<u>Meth: 221.99 PCT</u>			<u>Other</u>		
						<u>ICP</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Meth: 191.30 PPM</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Chromium</u>			<u>Meth: 221.99 PCT</u>			<u>Other</u>		
						<u>ICP</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Meth: 191.30 PPM</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Chromium</u>			<u>Meth: 221.99 PCT</u>			<u>Other</u>		
						<u>ICP</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Meth: 191.30 PPM</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Chromium</u>			<u>Meth: 221.99 PCT</u>			<u>Other</u>		
						<u>ICP</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Meth: 191.30 PPM</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Chromium</u>			<u>Meth: 221.99 PCT</u>			<u>Other</u>		
						<u>ICP</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Meth: 191.30 PPM</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Chromium</u>			<u>Meth: 221.99 PCT</u>			<u>Other</u>		
						<u>ICP</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Meth: 191.30 PPM</u>			<u>Acid Soluble Copper</u>			<u>Other</u>		
						<u>Chromium</u>			<u>Meth: 221.99 PCT</u>					

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 221.99 PCT			Meth: 221.XX PCT			Meth: 241.30 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>		
<u>Other</u>			<u>ICP</u>			<u>Other</u>			<u>Other</u>			<u>Other</u>		
114	0.0375	-.87	360	0.0375	-.26	292	0.08 R	2.50	137	0.07	.86	009	0.06	-.36
			324	0.0373	-.27	426	0.07	2.29	Avg	0.07		371	0.06	-.42
			057	0.0368	-.44	432	0.07	1.31	397	0.06	-.87	041	0.06	-.42
Meth: 221.XX PCT			393	0.0363	-.69	390	0.07 R	1.31	Meth: 241.XX PCT			393	0.06	-.47
<u>Acid Soluble Copper</u>			390	0.0375 R	-.75	106	0.07 R	1.04	<u>Acid Soluble Iron</u>			023	0.06	-.56
300	0.1350 s	42.92	035	0.0360	-.81	037	0.07	1.00	300	0.36 s	80.12	397	0.06	-.57
330	0.1000 s	27.42	397	0.0360	-.81	086	0.07	.68	330	0.10 s	10.09	428	0.06 X	-.69
426	0.0464 s	3.79	023	0.0365 R	-.88	247	0.06	.31	354	0.08 s	4.72	096	0.06	-.69
009	0.0415	1.63	433	0.0353	-1.16	230	0.06	.28	422	0.08 A	4.70	055	0.06	-.69
041	0.0410	1.40	022	0.0350	-1.25	057	0.06	.25	292	0.08 R	3.61	231	0.06	-.69
028	0.0401 R	1.15	460	0.0346	-1.44	117	0.06	.24	426	0.07	3.34	034	0.06	-.69
117	0.0399	1.00	453	0.0345	-1.49	360	0.06	.12	137	0.07	2.01	035	0.06	-.71
292	0.0400	.96	042	0.0335	-1.92	090	0.06	.10	432	0.07	2.01	460	0.06	-.76
027	0.0400	.96	291	0.0325	-2.36	114	0.06	.04	390	0.07 R	1.95	255	0.06	-1.15
137	0.0400	.96	106	0.0350 s	-2.53	Avg			037	0.07 R	1.54	042	0.06	-1.16
422	0.0400	.96	043	0.0321	-2.55	102	0.06	-.06	106	0.07 R	1.50	433	0.06	-1.60
231	0.0400	.96	Meth: 241.00 PCT			368	0.06	-.14	086	0.07	1.12	291	0.05	-2.17
432	0.0400	.96	<u>Acid Soluble Iron</u>			444	0.06	-.20	324	0.07	1.11	027	0.00 s	-16.49
102	0.0396	.80	<u>Atomic Absorption</u>			131	0.06	-.22	247	0.06	.64	Meth: 251.30 PPM		
200	0.0395	.77	351	0.06	1.52	009	0.06	-.32	230	0.06	.57	<u>Lead</u>		
428	0.0395 X	.77	043	0.06	1.24	453	0.06	-.34	117	0.06	.52	<u>ICP</u>		
090	0.0395	.77	296	0.06 R	1.06	232	0.06	-.35	057	0.06	.43	393	2.73	.87
086	0.0387	.63	028	0.06	.86	041	0.06	-.48	351	0.06	.42	Avg	1.50	
037	0.0390	.51	Avg	0.06		023	0.06	-.48	360	0.06	.39	102	0.28	-.87
230	0.0389	.49	371	0.06	-.24	022	0.06	-.48	296	0.06	.29	Meth: 261.00 PCT		
255	0.0382	.48	034	0.06	-.81	393	0.06	-.51	090	0.06	.29	<u>Acid Soluble Manganese</u>		
354	0.0380	.45	428	0.06 X	-.81	231	0.06	-.67	043	0.06	.29	<u>AA</u>		
351	0.0387	.39	055	0.06	-.81	096	0.06	-.67	114	0.06	.26	351	0.055	1.34
444	0.0385	.37	460	0.06	-.96	035	0.06	-.68	102	0.06	.18	055	0.054	1.08
232	0.0385	.29	Meth: 241.30 PCT			255	0.06	-1.01	028	0.06	.11	028	0.052	.73
368	0.0384	.25	<u>Acid Soluble Iron</u>			042	0.06	-1.01	368	0.06	.04	043	0.052	.43
371	0.0380	.07	<u>ICP</u>			433	0.06	-1.34	Avg	0.06		Avg	0.051	
296	0.0380	.07	300	0.36 s	58.77	291	0.05	-1.77	131	0.06	-.11	397	0.051	-.44
034	0.0380	.07	330	0.10 s	7.25	027	0.00 s	-12.30	444	0.06	-.14	296	0.051	-.45
Avg	0.0378		354	0.08 s	3.31				232	0.06	-.27	034	0.050	-.83
131	0.0377	-.10	422	0.08	3.29				453	0.06	-.31	460	0.048	-1.66
114	0.0375	-.18												
055	0.0375	-.26												

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

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 261.30 PCT			Meth: 261.31 PCT			Meth: 261.XX PCT			Meth: 289.30 PPM			Meth: 289.XX PPM		
Acid Soluble Manganese			Acid Soluble Manganese			Acid Soluble Manganese			Molybdenum			Molybdenum		
<u>ICP</u>			<u>ICP</u>			<u>Avg</u>			<u>ICP</u>			<u>ICP</u>		
300	0.290 s	85.53	324	0.055	.71	131	0.051	-.05	393	14.03	2.10	433	10.82	-1.08
330	0.100 s	17.45	Avg	0.055		247	0.051	-.23	230	12.75	.83	444	10.00	-1.91
292	0.075 s	8.68	230	0.038 S	-48.66	057	0.051	-.25	009	12.65	.80	Meth: 291.30 PPM		
041	0.058	2.40	Meth: 261.99 PCT			296	0.051	-.36	255	12.68	.75	Nickel		
426	0.058	2.32	Acid Soluble Manganese			397	0.051	-.36	035	12.45	.69	<u>ICP</u>		
009	0.056 R	1.69	<u>Other</u>			102	0.050	-.42	037	12.33	.41	393	0.02	.71
117	0.054	.88	137	0.060	1.46	422	0.050	-.48	Avg	11.93				
114	0.054	.84	255	0.053	.15	231	0.050	-.48	086	11.91	-.08	Meth: 301.30 PPM		
090	0.054	.81	Avg	0.052		432	0.050	-.48	232	11.65	-.31	Selenium		
390	0.051 R	.66	393	0.049	-.58	444	0.050	-.48	057	11.45	-.50	<u>ICP</u>		
027	0.053	.61	042	0.048	-1.00	106	0.050	-.48	102	11.30	-.64	393	1.14 X	.71
368	0.053	.61	Meth: 261.XX PCT			453	0.050	-.58	368	11.45	-.65			
354	0.053	.46	Acid Soluble Manganese			035	0.050	-.58	291	11.50	-.66	Meth: 311.99 PCT		
232	0.052	.34	300	0.290 s	76.35	390	0.051 R	-.59	433	10.82	-1.11	Sodium		
037	0.052	.28	330	0.100 s	15.52	022	0.050	-.66	444	10.00	-1.92	<u>Other</u>		
360	0.052	.25	292	0.075 s	7.69	034	0.050	-.66	Meth: 289.99 PPM			422	0.16	2.14
131	0.051	.02	137	0.060	2.72	393	0.049	-.66	Molybdenum			Avg	0.06	
Avg	0.051		041	0.058	2.08	460	0.048	-1.29	<u>Other</u>			086	0.05 R	-.21
057	0.051	-.21	426	0.058	2.01	086	0.048	-1.31	117	11.25	.71	057	0.05	-.35
247	0.051	-.21	009	0.056	1.44	042	0.048	-1.37	Meth: 289.XX PPM			102	0.04	-.40
102	0.050	-.40	351	0.055	.99	096	0.047	-1.40	Molybdenum			232	0.04	-.43
422	0.050	-.47	324	0.055	.96	023	0.047 R	-1.58	393	14.03	2.19	292	0.04	-.46
231	0.050	-.47	055	0.054	.80	433	0.047	-1.64	230	12.75	.90	009	0.04	-.50
432	0.050	-.47	117	0.054	.72	291	0.046	-1.93	009	12.65	.86	Meth: 321.00 PCT		
444	0.050	-.47	114	0.054	.68	230	0.038 s	-5.89	255	12.68	.81	Acid Soluble Zinc		
106	0.050	-.47	090	0.054	.66	Meth: 271.30 PCT			035	12.45	.74	<u>Atomic Absorption</u>		
035	0.050	-.58	028	0.052	.54	Water Soluble Mangan			037	12.33	.47	028	0.050	1.35
453	0.050	-.59	368	0.053	.48	<u>ICP</u>			086	11.91	.08	351	0.050	1.10
022	0.050	-.67	027	0.053	.48	157	0.054	.71	Avg	11.88		460	0.049	.81
086	0.048	-1.40	255	0.053	.48	Meth: 281.30 PPM			232	11.65	-.28	200	0.049	.44
096	0.047	-1.49	354	0.053	.35	Mercury			057	11.45	-.46	296	0.048	.15
023	0.047 R	-1.70	043	0.052	.30	<u>ICP</u>			102	11.30	-.61	Avg	0.048	
433	0.047 R	-1.77	232	0.052	.25	393	3.71	.71	368	11.45	-.63	040	0.048	-.68
291	0.046	-2.09	037	0.052	.18				291	11.50	-.64	371	0.048	-.68
			360	0.052	.16				117	11.25	-.64	043	0.046	-.83
												397	0.046	-1.01

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

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 321.00 PCT			Meth: 321.30 PCT			Meth: 321.XX PCT			Meth: 325.99 PCT					
Acid Soluble Zinc			Acid Soluble Zinc			Acid Soluble Zinc			Water Soluble Zinc					
<u>Atomic Absorption</u>			<u>ICP</u>			<u>ICP</u>			<u>Other</u>					
055	0.044	-1.72	368	0.046	-.98	255	0.049	.42	453	0.048	.71			
			041	0.046	-1.25	035	0.049	.36						
			096	0.045	-1.26	037	0.048	.35						
Meth: 321.30 PCT			023			200			Meth: 325.XX PCT					
Acid Soluble Zinc			023			247			<u>Water Soluble Zinc</u>					
<u>ICP</u>			291			Avg			393					
300	0.270	s 87.61	230	0.039	s -6.47	324	0.048	-.14	428	0.049	X .16			
330	0.100	s 20.33	Meth: 321.99 PCT			042	0.048	-.16	Avg	0.049				
426	0.060	S 4.35	Acid Soluble Zinc			296	0.048	-.16	453	0.048	-.79			
086	0.058	s 4.28	<u>Other</u>			232	0.048	-.21	157	0.049	-1.59			
106	0.055	R 3.21	137	0.060	.00	117	0.048	-.36						
114	0.053	1.81	Meth: 321.XX PCT			453	0.048	-.43						
009	0.053	1.75	Acid Soluble Zinc			131	0.047	-.46						
057	0.052	R 1.54	300	0.270	s 89.66	371	0.048	-.70						
090	0.051	.94	330	0.100	s 20.88	040	0.048	-.70						
022	0.051	.94	137	0.060	A 4.70	433	0.046	-.85						
444	0.051	.77	426	0.060	s 4.55	390	0.048	R -.87						
231	0.050	.54	086	0.058	s 4.46	368	0.046	-.90						
360	0.050	.54	106	0.055	R 3.36	043	0.046	-1.03						
422	0.050	.54	114	0.053	1.95	041	0.046	-1.18						
292	0.050	.54	009	0.053	1.88	397	0.046	-1.18						
432	0.050	.54	057	0.052	R 1.66	096	0.045	-1.19						
027	0.050	.54	022	0.051	1.06	055	0.044	-1.82						
102	0.050	.52	090	0.051	1.06	023	0.044	-1.82						
354	0.049	.42	028	0.050	.96	291	0.042	-2.79						
255	0.049	.33	444	0.051	.88	230	0.039	s -6.55						
035	0.049	.27	351	0.050	.70	Meth: 325.00 PCT								
247	0.049	.06	292	0.050	.65	Water Soluble Zinc								
Avg	0.049		360	0.050	.65	<u>Atomic Absorption</u>								
324	0.048	-.18	422	0.050	.65	428	0.049	X .00						
232	0.048	-.24	027	0.050	.65	Meth: 325.30 PCT								
042	0.048	-.25	432	0.050	.65	Water Soluble Zinc								
037	0.048	-.34	231	0.050	.65	<u>ICP</u>								
117	0.048	-.40	102	0.050	.63	393	0.050	.33						
453	0.048	-.47	354	0.049	.48	Avg	0.049							
131	0.047	-.54	460	0.049	.44	157	0.049	-1.18						
390	0.048	R -.87												
433	0.046	-.93												

* 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
001.99	5	- 0.18	1.01	0.02	165.XX	32	5.390	18.042	0.604
001.XX	6	- 0.13	1.00	0.02	181.30	2	0.00	1.04	0.46
005.99	2	0.00	1.22	0.04	181.XX	2	0.00	1.04	0.46
005.XX	3	0.00	1.11	0.10	191.30	3	0.00	1.11	0.11
010.11	10	0.42	1.64	0.19	191.XX	3	0.00	1.11	0.11
010.12	5	0.00	0.99	0.35	202.XX	2	0.00	1.14	0.32
010.60	53	2.24	17.85	0.26	221.00	11	0.1149	1.0380	0.2126
010.99	3	0.00	0.62	0.76	221.30	35	2.0366	8.4945	0.5892
010.XX	69	1.76	16.12	0.27	221.99	2	0.0000	1.2205	0.0718
020.10	8	0.00	1.02	0.17	221.XX	48	1.5216	7.3427	0.5160
020.20	13	- 0.17	1.11	0.42	241.00	9	0.10	1.01	0.20
020.40	7	3.31	8.99	0.55	241.30	37	1.64	10.00	0.36
020.50	12	0.85	3.79	0.75	241.99	2	0.00	1.22	0.06
020.99	2	0.00	1.22	0.02	241.XX	48	1.87	11.96	0.43
020.XX	40	0.69	3.49	0.42	251.30	2	0.00	1.22	0.06
041.10	14	0.29	1.25	0.51	251.XX	2	0.00	1.22	0.06
041.40	4	- 4.11	8.28	0.24	261.00	8	0.000	0.955	0.373
041.50	9	- 0.09	0.99	0.29	261.30	33	3.330	15.164	0.408
041.60	11	- 2.86	9.46	0.20	261.31	2	- 19.09	27.000	21.339
041.XX	33	- 3.46	11.44	0.31	261.99	4	0.000	1.064	0.159
050.00	13	0.00	0.93	0.40	261.XX	47	1.994	11.420	0.686
050.10	2	0.00	1.03	0.46	289.30	14	0.00	0.98	0.25
050.30	9	0.00	1.01	0.18	289.XX	15	0.00	0.98	0.25
050.50	8	0.38	1.72	0.29	311.99	7	- 0.03	0.96	0.03
050.51	10	- 0.50	1.84	0.15	311.XX	7	- 0.03	0.96	0.03
050.60	7	0.00	1.04	0.10	321.00	10	0.000	0.936	0.402
050.61	10	- 1.61	5.16	0.33	321.30	37	3.130	14.727	1.040
050.99	17	0.25	1.44	0.84	321.XX	48	2.581	13.266	0.947
050.XX	69	- 0.20	1.71	0.33	325.30	2	0.000	0.327	0.835
101.30	8	0.27	1.23	0.13	325.XX	3	0.158	0.316	0.931
101.XX	8	0.27	1.23	0.13					
121.30	7	- 0.04	0.96	0.00					
121.XX	7	- 0.04	0.96	0.00					
144.01	7	7.08	18.35	0.12					
144.02	2	0.00	1.20	0.17					
144.99	21	0.03	1.00	0.09					
144.XX	30	2.29	12.27	0.11					
165.00	8	0.152	0.991	0.810					
165.99	24	6.413	18.482	0.574					