

- Pass 1 Results for 76 Labs - - Pass 2 Results for 74 Labs -

Method	AOAC Ref.	Method Code	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups
Ammoniacal Nitrogen, MgO Distillation	920.03	001.10	2	1.09	0.10	0.04	2	1.09	0.10	0.04
Ammoniacal Nitrogen, Other		001.99	3	1.09	0.19	0.02	3	1.09	0.19	0.02
Method Group 001.XX PCT			5	1.09	0.15	0.03	5	1.09	0.15	0.03
Nitrate Nitrogen, Other		002.99	2	0.00	0.00	0.00	2	0.00	0.00	0.00
Water Insoluble Nitrogen, Meth I	945.01	003.10	3	0.95	0.37	0.25	3	0.95	0.37	0.25
Water Insoluble Nitrogen, Other		003.99	1	0.77	0.01	0.02	1	0.77	0.01	0.02
Method Group 003.XX PCT			4	0.91	0.32	0.19	3	0.87	0.32	0.04
Nitrogen From Urea, Urease (as N)	959.03	005.00	2	17.32	0.14	0.10	2	17.32	0.14	0.10
Nitrogen From Urea, Other		005.99	2	23.04	6.05	2.07	2	23.04	6.05	2.07
Method Group 005.XX PCT			4	20.18	5.01	1.09	4	20.18	5.01	1.09
Percent Urea, Other		007.99	1	17.60	0.00	0.00	1	17.60	0.00	0.00
Ammon & Nitrate N, Devarda	892.01	009.10	1	27.01	0.11	0.16	1	27.01	0.11	0.16
Total Nitrogen, Modified Comprehensive	978.02	010.11	9	31.95	0.24	0.12	8	31.91	0.19	0.05
Total Nitrogen, Salicylic	955.04D	010.12	4	31.99	0.16	0.05	4	31.99	0.16	0.05
Total Nitrogen, Raney	970.03	010.16	2	32.22	0.23	0.20	2	32.22	0.23	0.20
Total Nitrogen, Combustion		010.60	53	32.29	0.30	0.13	49	32.25	0.25	0.11
Total Nitrogen, Other		010.99	2	32.01	0.07	0.03	2	32.01	0.07	0.03
Method Group 010.XX PCT			70	32.22	0.31	0.13	64	32.18	0.26	0.10
Total Phosphate, Spectrometric	958.01	020.20	5	0.11	0.10	0.00	4	0.10	0.11	0.00
Total Phosphate, ICP		020.50	4	0.04	0.04	0.01	4	0.04	0.04	0.01
Total Phosphate, Other		020.99	1	0.00	0.00	0.00	1	0.00	0.00	0.00
Method Group 020.XX PCT			10	0.07	0.08	0.00	8	0.06	0.09	0.00
Dir Available Phosphate, Grav Quimociac	960.03E	041.10	1	0.00	0.00	0.00	1	0.00	0.00	0.00
Dir Available Phosphate, ICP		041.50	4	0.04	0.05	0.00	4	0.04	0.05	0.00
Dir Available Phosphate, EDTA Extract	993.01	041.60	1	0.02	0.00	0.00	1	0.02	0.00	0.00
Method Group 041.XX PCT			6	0.03	0.04	0.00	5	0.03	0.04	0.00
Water Soluble Phosphate, Spectrometric	970.01	048.20	1	0.22	0.04	0.05	1	0.22	0.04	0.05
Soluble Potash, STPB Oxalate	958.02	050.00	11	10.13	0.35	0.08	11	10.13	0.35	0.08
Soluble Potash, AA (Oxalate)		050.30	8	9.92	0.39	0.09	8	9.92	0.39	0.09
Soluble Potash, ICP (Oxalate)		050.50	6	10.11	0.21	0.19	6	10.11	0.21	0.19
Soluble Potash, ICP (Citrate)		050.51	9	10.21	0.34	0.11	8	10.19	0.34	0.06
Soluble Potash, Flame (Oxalate)	983.02(a)	050.60	7	10.25	0.38	0.08	7	10.25	0.38	0.08
Soluble Potash, Flame (Citrate)	983.02(b)	050.61	6	10.20	0.09	0.05	6	10.20	0.09	0.05
Soluble Potash, Other		050.99	18	10.15	0.47	0.15	18	10.15	0.47	0.15
Method Group 050.XX PCT			67	10.14	0.37	0.12	64	10.14	0.38	0.10
Free Water, Vacuum Oven	965.08B	060.00	5	1.21	0.21	0.04	5	1.21	0.21	0.04
Method Group 060.XX PCT			5	1.21	0.21	0.04	5	1.21	0.21	0.04
Acid Soluble Calcium, ICP		101.30	11	0.03	0.02	0.00	10	0.04	0.02	0.00
Acid Soluble Magnesium, ICP		121.30	13	0.06	0.01	0.00	11	0.06	0.01	0.00

- Pass 1 Results for 76 Labs - - Pass 2 Results for 74 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
Sulfur, Other		144.99	8	4.30	0.49	0.06	8	4.30	0.49	0.06
Arsenic, Atomic Absorption		151.00	1	0.15	0.01	0.02	1	0.15	0.01	0.02
Arsenic, ICP		151.30	4	0.67	0.64	0.16	3	0.80	0.69	0.01
Method Group 151.XX PPM			5	0.57	0.61	0.13	4	0.64	0.65	0.02
Acid Soluble Boron, Other		165.99	5	0.005	0.006	0.000	4	0.006	0.007	0.000
Cadmium, Atomic Absorption		181.00	1	0.03	0.04	0.06	1	0.03	0.04	0.06
Cadmium, ICP		181.30	6	0.22	0.30	0.02	6	0.22	0.30	0.02
Method Group 181.XX PPM			7	0.19	0.28	0.02	7	0.19	0.28	0.02
Chromium, ICP		191.30	11	22.18	3.55	1.14	11	22.18	3.55	1.14
Chromium, Other		191.99	1	9.31	0.25	0.35	1	9.31	0.25	0.35
Method Group 191.XX PPM			12	21.11	4.97	1.07	11	21.16	5.17	0.84
Acid Soluble Cobalt, AA		202.00	1	16.50	0.71	1.00	1	16.50	0.71	1.00
Acid Soluble Cobalt, ICP	965.11	202.30	11	8.79	3.70	0.56	10	8.53	3.77	0.43
Acid Soluble Cobalt, Other		202.99	1	5.41	0.07	0.10	1	5.41	0.07	0.10
Method Group 202.XX PPM			13	9.13	4.13	0.56	12	8.93	4.24	0.45
Acid Soluble Copper, ICP		221.30	13	0.0008	0.0007	0.0002	12	0.0007	0.0005	0.0002
Acid Soluble Copper, Other		221.99	1	0.0009	0.0001	0.0001	1	0.0009	0.0001	0.0001
Method Group 221.XX PCT			16	0.0016	0.0023	0.0002	15	0.0015	0.0023	0.0002
Acid Soluble Iron, Atomic Absorption	980.01	241.00	1	1.00	0.18	0.26	1	1.00	0.18	0.26
Acid Soluble Iron, ICP		241.30	11	2.05	0.32	0.12	10	2.06	0.32	0.09
Method Group 241.XX PCT			12	1.96	0.43	0.14	12	1.96	0.43	0.14
Lead, Atomic Absorption		251.00	1	6.00	1.41	2.00	1	6.00	1.41	2.00
Lead, ICP		251.30	6	2.36	1.59	0.46	6	2.36	1.59	0.46
Method Group 251.XX PPM			7	2.88	2.01	0.68	7	2.88	2.01	0.68
Acid Soluble Manganese, ICP	972.02a	261.30	10	1.807	2.957	0.107	9	1.286	2.620	0.008
Acid Soluble Manganese, Other		261.99	1	3.365	0.205	0.290	1	3.365	0.205	0.290
Method Group 261.XX PCT			11	1.949	2.850	0.124	10	1.494	2.560	0.036
Mercury, ICP		281.30	2	0.51	0.59	0.02	2	0.51	0.59	0.02
Molybdenum, ICP		289.30	7	1.58	0.77	0.36	7	1.58	0.77	0.36
Molybdenum, Other		289.99	1	0.79	0.03	0.04	1	0.79	0.03	0.04
Method Group 289.XX PPM			8	1.48	0.77	0.32	8	1.48	0.77	0.32
Nickel, Atomic Absorption		291.00	1	17.00	0.00	0.00	1	17.00	0.00	0.00
Nickel, ICP		291.30	10	12.35	1.95	0.52	9	12.50	1.99	0.39
Nickel, Other		291.99	1	4.10	0.42	0.60	1	4.10	0.42	0.60
Method Group 291.XX PPM			12	12.05	3.30	0.48	11	12.15	3.42	0.37
Selenium, ICP		301.30	2	0.00	0.00	0.00	2	0.00	0.00	0.00
Sodium, Other		311.99	7	0.04	0.03	0.00	6	0.03	0.02	0.00
Acid Soluble Zinc, Atomic Absorption	975.02	321.00	2	0.049	0.054	0.002	2	0.049	0.054	0.002
Acid Soluble Zinc, ICP		321.30	14	0.002	0.003	0.000	11	0.001	0.001	0.000

- Pass 1 Results for 76 Labs - - Pass 2 Results for 74 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
Method Group 321.XX PCT			17	0.013	0.031	0.000	15	0.008	0.025	0.000
Water Soluble Zinc, ICP .....		325.30	1	0.001	0.000	0.000	1	0.001	0.000	0.000

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 001.10 PCT			Meth: 003.99 PCT			Meth: 009.10 PCT			Meth: 010.60 PCT		
Ammoniacal Nitrogen			Water Insoluble Nitr			Ammon & Nitrate N			Total Nitrogen		
MgO Distillation			Other			Devarda			Combustion		
456	1.18	.88	027	0.77	.71	030	27.01	.71	157	32.25	-.61
Avg	1.09								262	32.10	-.62
232	1.01	-.85	Meth: 003.XX PCT			Meth: 010.11 PCT			040	32.10	-.71
			Water Insoluble Nitr			Total Nitrogen			043	32.16	-.75
Meth: 001.99 PCT			232	1.27	1.25	Modified Comprehensi			023	32.04	-.87
Ammoniacal Nitrogen			029	1.01	1.11	114	33.35 s	7.64	443	32.09	-.87
Other			Avg	0.87		456	32.28 R	2.60	234	32.02	-.96
393	8.71	40.45	027	0.77	-.33	090	32.06	.81	423	32.02	-.98
096	1.33	1.28	090	0.59	-.91	460	32.05	.79	354	32.01	-.99
Avg	1.09		Meth: 005.00 PCT			470	32.06	.77	307	31.95	-1.25
027	0.99	-.55	Nitrogen From Urea			415	32.01	.54	402	31.95	-1.25
420	0.95	-.74	Urease (as N)			416	31.99 X	.42	009	31.95	-1.32
			169	17.42	.97	Avg	31.91		426	31.94	-1.45
Meth: 001.XX PCT			Avg	17.32		211	31.90	-.08	041	32.21	R -1.55
Ammoniacal Nitrogen			232	17.22	-.75	309	31.63	-1.52	095	31.81	-1.80
393	8.71	50.38	Meth: 005.99 PCT			260	31.60	-1.68	406	31.77	-1.97
096	1.33	1.59	Nitrogen From Urea								
456	1.18	.58	Other			Meth: 010.12 PCT			Meth: 010.99 PCT		
Avg	1.09		309	28.16	.88	Total Nitrogen			Total Nitrogen		
232	1.01	-.53	Avg	23.04		Salicylic			Other		
027	0.99	-.70	029	17.93	-.85	351	32.16	1.11	420	32.07	.85
420	0.95	-.94	Meth: 005.XX PCT			470	32.03	.34	Avg	32.01	
			Nitrogen From Urea			185	32.00	.21	371	31.95	-.88
Meth: 002.99 PCT			Other			Avg	31.99				
Nitrate Nitrogen			309	28.16	1.62	455	31.76	-1.45	Meth: 010.XX PCT		
Other			Avg	20.18					Total Nitrogen		
232	0.00	.87	029	17.93	-.46	Meth: 010.16 PCT			114	33.35 s	4.42
Avg	0.00		169	17.42	-.55	Total Nitrogen			428	33.15 A	3.68
027	0.00	-.87	232	17.22	-.59	Raney			360	33.08 A	3.45
Meth: 003.10 PCT			Meth: 007.99 PCT			419	32.40	.87	102	32.76	2.21
Water Insoluble Nitr			Percent Urea			Avg	32.22		177	32.70	1.97
Meth I			Other			300	32.05	-.87	368	32.67	1.87
029	1.01	.89	419	17.60	.00				422	32.65	1.77
232	1.27	.85				Meth: 010.60 PCT			232	32.61	1.62
Avg	0.95					Total Nitrogen			007	32.60	1.58
090	0.59	-.99				Combustion			055	32.50 R	1.53
						428	33.15 A	3.63	096	32.57	1.47

\* 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																
<u>Total Nitrogen</u>																
041	32.21 R	1.45	460	32.05	-.54											
325	32.55	1.40	023	32.04	-.55											
034	32.54	1.38	470	32.03	-.60											
456	32.28 R	1.27	043	32.16	-.62											
330	32.50	1.26	300	32.05	-.64											
324	32.50	1.20	443	32.09	-.64											
029	32.43	1.08	234	32.02	-.64											
233	32.35 R	1.02	415	32.01	-.66											
419	32.40	.90	354	32.01	-.66											
136	32.41	.84	423	32.02	-.67											
275	32.37	.74	185	32.00	-.71											
157	32.25	.62	416	31.99 X	-.76											
049	32.33	.54	371	31.95	-.89											
291	32.32	.52	307	31.95	-.91											
296	32.30	.48	402	31.95	-.91											
035	32.25	.37	009	31.95	-1.00											
028	32.27	.33	211	31.90	-1.10											
230	32.25	.31	426	31.94	-1.14											
292	32.27	.31	095	31.81	-1.42											
247	32.21	.30	406	31.77	-1.59											
393	32.24	.23	455	31.76	-1.61											
086	32.19	.17	309	31.63	-2.13											
231	32.22	.12	260	31.60	-2.23											
450	32.20	.06														
Avg	32.18		Meth: 020.20 PCT													
420	32.17	-.13	<u>Total Phosphate</u>													
131	32.17	-.15	<u>Spectrometric</u>													
027	32.17	-.15	428	0.21	.98											
351	32.16	-.17	420	0.20	.89											
024	32.13	-.21	324	0.12 R	.19											
377	32.14	-.23	Avg	0.10												
451	32.15	-.23	460	0.00	-.93											
037	32.18	-.29	450	0.00	-.93											
262	32.10	-.32														
420	32.07	-.44	Meth: 020.40 PCT													
040	32.10	-.44	<u>Total Phosphate</u>													
090	32.06	-.49	<u>Automated</u>													
470	32.06	-.49	042	32.34 S	.00											
Meth: 010.50 PCT																
<u>Dir Available Phosph</u>																
231	10.09	-.26	393	0.02 X	-.27											
102	9.63	-1.46	377	0.01	-.55											
114	9.45	-2.02	325	0.00	-.77											
230	8.73 S	-4.09														
Meth: 050.30 PCT																
<u>Soluble Potash</u>																
<u>STPB Oxalate</u>																
185	11.98 s	5.31														
040	10.31	1.00														
136	10.26	.87														
234	10.12	.60														
043	10.12	.50														
262	9.98	.14														
Avg	9.92															
419	9.83	-.35														
351	9.67	-.63														
428	9.08	-2.14														
Meth: 050.50 PCT																
<u>Soluble Potash</u>																
<u>ICP (Oxalate)</u>																
292	10.40	1.37														
422	10.21	.71														
Avg	10.11															
354	10.03	-.39														
420	10.03	-.42														
157	10.09	-1.05														
426	9.92	-1.30														
324	8.32 S	-8.66														
Meth: 050.51 PCT																
<u>Soluble Potash</u>																
<u>ICP (Citrate)</u>																
007	10.77	1.70														
009	10.62	1.27														
432	10.41 R	.99														

\* 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: 050.51 PCT														
Soluble Potash														
ICP (Citrate)			177	10.40	.69	157	10.09 R	-.59	121.30 PCT			Free Water		
023	10.20	.22	292	10.40	.68	393	9.91	-.61	443	10.31 s	42.86	443	10.31 s	42.86
291	10.20	.07	325	10.35	.57	030	9.91	-.71	363	1.45	1.13	363	1.45	1.13
Avg	10.19		040	10.31	.46	042	9.87	-.73	096	1.42	.99	096	1.42	.99
377	10.15	-.18	041	10.30	.43	450	9.87	-.73	Avg	1.21		Avg	1.21	
393	9.91	-.81	211	10.30	.41	426	9.92	-.77	007	1.15	-.34	007	1.15	-.34
423	9.84	-1.03	422	10.21	.35	423	9.84	-.80	456	1.12	-.41	456	1.12	-.41
043	9.82	-1.09	402	10.27	.34	043	9.82	-.86	416	0.91 X	-1.40	416	0.91 X	-1.40
Meth: 050.99 PCT														
Soluble Potash														
Other			136	10.26	.32	419	9.83	-.86	Meth: 101.30 PCT					
260	10.68	1.18	049	10.23	.26	351	9.67	-1.24	Acid Soluble Calcium					
330	10.65	1.07	024	10.23	.26	102	9.63	-1.35	ICP					
363	10.60	.95	034	10.23	.25	451	9.56	-1.58	422	1.02 s	43.28	422	1.02 s	43.28
275	10.51 X	.78	023	10.20	.25	114	9.45	-1.87	363	0.08	2.07	363	0.08	2.07
177	10.40	.53	232	10.20	.23	307	9.44	-1.91	393	0.05	.54	393	0.05	.54
325	10.35	.44	360	10.21	.19	428	9.08	-2.80	035	0.04	.36	035	0.04	.36
402	10.27	.25	291	10.20	.17	368	9.40 s	-2.82	096	0.04	.21	096	0.04	.21
232	10.20	.17	131	10.20	.16	455	9.06	-2.87	423	0.04	.17	423	0.04	.17
360	10.21	.13	377	10.15	.14	230	8.73 s	-3.76	Avg	0.04		Avg	0.04	
Avg	10.15		456	10.18	.12	324	8.32 s	-4.84	102	0.03	-.06	102	0.03	-.06
247	10.08	-.15	470	10.17	.08	Meth: 060.00 PCT								
371	10.05	-.25	Avg	10.14		Free Water								
131	10.10	-.44	043	10.12	-.09	Vacuum Oven								
Avg	10.25		090	10.09	-.15	363	1.45	1.13	009	0.03 R	-.27	009	0.03 R	-.27
470	10.17	-.20	247	10.08	-.16	096	1.42	.99	354	0.00	-1.51	354	0.00	-1.51
460	10.05	-.54	471	10.08	-.16	Avg	1.21		041	0.00	-1.55	041	0.00	-1.55
169	10.05	-.55	470	10.08	-.17	Meth: 121.30 PCT								
309	9.94	-.82	231	10.09	-.25	Acid Soluble Magnesi								
415	9.94	-.82	460	10.05	-.27	ICP								
Meth: 050.61 PCT														
Soluble Potash														
Flame (Citrate)			035	10.06	-.28	416	0.91 X	-1.40	422	0.27 s	34.53	422	0.27 s	34.53
029	10.57 s	4.69	371	10.05	-.29	Meth: 060.99 PCT								
041	10.30	1.19	169	10.05	-.29	Free Water								
024	10.23	.61	354	10.03	-.29	Other								
034	10.23	.40	420	10.03	-.30	443	10.31 S	.00	363	0.07	2.34	363	0.07	2.34
131	10.20	.12	234	10.12	-.32	Meth: 050.99 PCT								
Avg	10.20		262	9.98	-.44	Soluble Potash								
456	10.18	-.32	309	9.94	-.53	Other								
035	10.06	-1.85	415	9.94	-.54	027	10.86	1.53	131	0.06	-.05	131	0.06	-.05
030	9.91 s	-3.74	009	10.43	.78	Meth: 050.99 PCT								
Meth: 050.99 PCT														
Soluble Potash														
Other			131	10.10 R	-.54	Other								
027	10.86	1.53	131	10.10 R	-.54	443								
* 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
Meth:	121.30 PCT		Meth:	151.XX PPM		Meth:	181.XX PPM		Meth:	191.XX PPM	
Acid Soluble Magnesi			Arsenic			Cadmium			Chromium		
ICP			Avg	0.64		363	0.03		232	16.75	
232	0.06	-0.43	368	0.30 R	-0.69	368	0.02	-0.62	231	9.31	-2.29
393	0.05	-0.59	136	0.15	-0.74	450	0.00	-0.68			
307	0.05	-0.87	450	0.00	-0.97				Meth:	202.00 PPM	
096	0.06 R	-0.92				Meth:	191.30 PPM		Acid Soluble Cobalt		
354	0.05	-1.74				Chromium			AA		
			Meth:	165.99 PCT		ICP			136	16.50	.71
			Acid Soluble Boron			035	25.70	1.02			
			Other			368	25.60	1.02			
Meth:	144.99 PCT		354	0.016	1.54	419	25.50	.95			
Sulfur			Avg	0.006		450	25.00	.79			
Other			363	0.006	-0.05	009	24.65	.71			
423	4.88	1.16	423	0.002	-0.66	393	23.95	.50			
354	4.71	.83	232	0.001 R	-0.69	Avg	22.18				
363	4.63	.66	422	0.001	-0.83	102	20.75	-0.43			
232	4.48	.37				037	20.53	-0.69			
422	4.40	.20				027	18.07	-1.16			
Avg	4.30		Meth:	181.00 PPM		096	17.50	-1.33			
009	4.24	-0.21	Cadmium			232	16.75	-1.53			
393	3.65 X	-1.34	Atomic Absorption								
035	3.45	-1.74	363	0.03	.71						
Meth:	151.00 PPM		Meth:	181.30 PPM		Meth:	191.99 PPM				
Arsenic			Cadmium			Chromium					
Atomic Absorption			ICP			Other					
136	0.15	-0.71	232	0.78	1.90	231	9.31	.71			
			009	0.39	.58						
			Avg	0.22							
Meth:	151.30 PPM		419	0.07	-0.51						
Arsenic			393	0.06	-0.55						
ICP			368	0.02	-0.68						
393	1.53	1.07	450	0.00	-0.74						
232	0.87	.10									
Avg	0.80										
368	0.30 R	-0.85	Meth:	181.XX PPM							
450	0.00	-1.16	Cadmium								
			232	0.78	2.09						
			009	0.39	.71						
			Avg	0.19							
Meth:	151.XX PPM		419	0.07	-0.44						
Arsenic			393	0.06	-0.49						
393	1.53	1.37									
232	0.87	.35									

\* 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
Meth: 221.99 PCT											
Acid Soluble Copper											
Other											
231	0.0009	-.71									
Meth: 221.XX PCT											
Acid Soluble Copper											
043	1.0009 s	430.06									
428	0.1145 s	48.74									
422	0.0080	2.78									
324	0.0064	2.10									
354	0.0025 R	.47									
Avg	0.0015										
095	0.0013	-.10									
035	0.0014	-.10									
419	0.0012	-.17									
433	0.0010	-.22									
450	0.0010	-.23									
231	0.0009	-.30									
102	0.0007	-.36									
009	0.0004	-.47									
363	0.0004	-.52									
368	0.0003	-.55									
402	0.0002	-.58									
041	0.0000	-.66									
157	0.0000	-.66									
Meth: 241.00 PCT											
Acid Soluble Iron											
Atomic Absorption											
363	1.00	.71									
Meth: 241.30 PCT											
Acid Soluble Iron											
ICP											
354	2.44	1.17									
035	2.28	.66									
009	2.24	.55									
422	2.24	.54									
096	2.21	.47									
Meth: 241.30 PCT											
Acid Soluble Iron											
ICP											
035	5.07	1.71									
419	3.20	.61									
393	2.37	.01									
Avg	2.36	.54									
096	2.21	.47									
Meth: 241.30 PCT											
Acid Soluble Iron											
ICP											
035	5.07	1.71									
419	3.20	.61									
393	2.37	.01									
Avg	2.36	.54									
096	2.21	.47									
Meth: 241.30 PCT											
Acid Soluble Iron											
ICP											
035	5.07	1.71									
419	3.20	.61									
393	2.37	.01									
Avg	2.36	.54									
096	2.21	.47									
Meth: 241.30 PCT											
Acid Soluble Iron											
ICP											
035	5.07	1.71									
419	3.20	.61									
393	2.37	.01									
Avg	2.36	.54									
096	2.21	.47									
Meth: 241.30 PCT											
Acid Soluble Iron											
ICP											
035	5.07	1.71									
419	3.20	.61									
393	2.37	.01									
Avg	2.36	.54									
096	2.21	.47									
Meth: 241.30 PCT											
Acid Soluble Iron											
ICP											
035	5.07	1.71									
419	3.20	.61									
393	2.37	.01									
Avg	2.36	.54									
096	2.21	.47									
Meth: 241.30 PCT											
Acid Soluble Iron											
ICP											
035	5.07	1.71									
419	3.20	.61									
393	2.37	.01									
Avg	2.36	.54									
096	2.21	.47									
Meth: 241.30 PCT											
Acid Soluble Iron											
ICP											
035	5.07	1.71									
419	3.20	.61									
393	2.37	.01									
Avg	2.36	.54									
096	2.21	.47									
Meth: 241.30 PCT											
Acid Soluble Iron											
ICP											
035	5.07	1.71									
419	3.20	.61									
393	2.37	.01									
Avg	2.36	.54									
096	2.21	.47									
Meth: 241.30 PCT											
Acid Soluble Iron											
ICP											
035	5.07	1.71									
419	3.20	.61									
393	2.37	.01									
Avg	2.36	.54									
096	2.21	.47									
Meth: 241.30 PCT											
Acid Soluble Iron											
ICP											
035	5.07	1.71									
419	3.20	.61									
393	2.37	.01									
Avg	2.36	.54									
096	2.21	.47									
Meth: 241.30 PCT											
Acid Soluble Iron											
ICP											
035	5.07	1.71									
419	3.20	.61									
393	2.37	.01									
Avg	2.36	.54									
096	2.21	.47									
Meth: 241.30 PCT											
Acid Soluble Iron											
ICP											
035	5.07	1.71									
419	3.20	.61									
393	2.37	.01									
Avg	2.36	.54									
096	2.21	.47									
Meth: 241.30 PCT											
Acid Soluble Iron											
ICP											
035	5.07	1.71									
419	3.20	.61									
393	2.37	.01									
Avg	2.36	.54									
096	2.21	.47									
Meth: 241.30 PCT											
Acid Soluble Iron											
ICP											
035	5.07	1.71									
419	3.20	.61									
393	2.37	.01									
Avg	2.36	.54									
096	2.21	.47									
Meth: 241.30 PCT											
Acid Soluble Iron											
ICP											
035	5.07	1.71									
419	3.20	.61									
393	2.37	.01									
Avg	2.36	.54									
096	2.21	.47									
Meth: 241.30 PCT											
Acid Soluble Iron											
ICP											
035	5.07	1.71									
419	3.20	.61									
393	2.37	.01									
Avg	2.36	.54									
096	2.21	.47									
Meth: 241.30 PCT											
Acid Soluble Iron											
ICP											
035	5.07	1.71									
419	3.20	.61									
393	2.37	.01									
Avg	2.36	.54									
096	2.21	.47									
Meth: 241.30 PCT											
Acid Soluble Iron											
ICP											
035	5.07	1.71									
419	3.20	.61									
393	2.37	.01									

Laboratory Averages & Accuracy Indexes

Lab Average\* Index Lab Average\* Index Lab Average\* Index Lab Average\* Index

Meth: 291.XX PPM

Nickel	Lab	Average*	Index
136	17.00	1.42	
450	16.00	1.13	
035	14.45	.68	
009	13.60	.46	
368	12.50	.11	
Avg	12.15		
419	12.00	-.04	
102	12.05	-.11	
049	11.78	-.13	
393	11.25	-.26	
037	11.01 R	-.42	
232	8.88	-.95	
231	4.10	-2.35	

Meth: 301.30 PPM

Selenium	Lab	Average*	Index
ICP			
368	0.95 s	.00	
393	0.00 X	.00	
450	0.00	.00	
Avg	0.00		

Meth: 311.99 PCT

Sodium	Lab	Average*	Index
Other			
422	0.09 R	3.08	
363	0.07	1.99	
307	0.04	.36	
Avg	0.03		
232	0.02	-.53	
102	0.02	-.53	
009	0.02	-.62	
035	0.02	-.67	

Meth: 321.00 PCT

Acid Soluble Zinc	Lab	Average*	Index
Atomic Absorption			
428	0.095	.87	

Meth: 321.00 PCT

Acid Soluble Zinc	Lab	Average*	Index
Atomic Absorption			
Avg	0.049		
043	0.003	-.87	
Meth: 321.30 PCT			
Acid Soluble Zinc			
ICP			
096	5.500 s	4880.79	
041	1.500 s	1353.11	
330	0.100 s	84.78	
422	0.010 A	7.72	
095	0.004	2.37	
324	0.003 R	1.89	
035	0.003 R	1.50	
354	0.003	1.36	
433	0.002	.65	
Avg	0.001		
231	0.001	-.26	
402	0.001	-.29	
009	0.000	-.49	
450	0.000	-.50	
363	0.000	-.58	
102	0.000	-.67	
232	0.000	-.68	
419	0.000	-.85	

Meth: 321.XX PCT

Acid Soluble Zinc	Lab	Average*	Index
Acid Soluble Zinc			
354	0.003	-.24	
433	0.002	-.27	
231	0.001	-.31	
402	0.001	-.31	
009	0.000	-.32	
450	0.000	-.32	
363	0.000	-.32	
102	0.000	-.33	
232	0.000	-.33	
419	0.000	-.34	

Meth: 325.30 PCT

Water Soluble Zinc	Lab	Average*	Index
ICP			
393	0.001	.00	

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

## Method Evaluation - Z Values Based on 1 Reports

Method Code	Number Of Labs	Avg Bias of Labs	Std Dev of Biases	Std Dev Within Labs	Method Code	Number Of Labs	Avg Bias of Labs	Std Dev of Biases	Std Dev Within Labs
001.10	2	0.00	1.19	0.20	165.99	5	- 0.138	0.985	0.024
001.99	4	10.11	20.25	0.11	165.XX	5	- 0.138	0.985	0.024
001.XX	6	8.40	20.59	0.13	181.30	6	0.00	1.05	0.03
002.99	2	0.00	1.22	0.00	181.XX	7	0.00	1.04	0.05
002.XX	2	0.00	1.22	0.00	191.30	11	0.00	1.00	0.22
003.10	3	0.00	0.93	0.51	191.XX	12	- 0.01	0.97	0.14
003.XX	4	0.10	0.93	0.52	202.30	11	0.07	1.00	0.11
005.00	2	0.00	1.05	0.45	202.XX	13	0.05	0.99	0.09
005.99	2	0.00	1.20	0.19	221.00	2	0.0000	0.0000	0.0000
005.XX	4	0.00	1.06	0.16	221.30	15	1.9788	4.6970	0.3728
010.11	10	0.96	2.59	0.57	221.XX	18	26.616	101.33	0.8149
010.12	4	0.00	1.06	0.18	241.30	11	- 0.04	0.96	0.27
010.16	2	0.00	1.06	0.43	241.XX	12	0.00	1.00	0.21
010.60	53	0.15	1.15	0.39	251.30	6	0.00	1.02	0.21
010.99	2	0.00	1.18	0.22	251.XX	7	0.00	1.01	0.24
010.XX	69	0.21	1.23	0.37	261.30	10	0.199	1.158	0.060
020.20	5	0.03	0.94	0.04	261.XX	11	0.178	1.139	0.061
020.50	4	0.00	1.07	0.12	281.30	2	0.00	1.22	0.02
020.XX	11	33.65	111.17	0.20	281.XX	2	0.00	1.22	0.02
041.50	5	43.41	97.06	1.15	289.30	7	0.00	0.98	0.34
041.XX	7	34.62	91.90	1.09	289.99	2	157.60	222.88	8.14
050.00	12	- 0.34	1.52	0.18	289.XX	9	1.19	3.69	0.33
050.30	9	0.59	2.00	0.28	291.30	10	- 0.08	0.99	0.19
050.50	7	- 1.23	3.35	0.59	291.XX	12	- 0.03	0.98	0.10
050.51	9	0.07	0.99	0.27	301.30	3	0.00	0.00	0.00
050.60	7	0.00	1.03	0.15	301.XX	3	0.00	0.00	0.00
050.61	8	0.13	2.22	0.93	311.99	7	0.43	1.49	0.20
050.99	19	- 0.08	1.03	0.42	311.XX	7	0.43	1.49	0.20
050.XX	67	- 0.09	1.37	0.35	321.00	2	0.000	1.224	0.022
060.00	5	0.00	1.05	0.11	321.30	17	358.11	1163.1	328.37
060.XX	6	7.14	17.52	0.10	321.XX	19	14.858	51.394	14.495
101.30	12	3.59	12.53	0.13					
101.XX	12	3.59	12.53	0.13					
121.30	14	2.52	9.26	0.32					
121.XX	14	2.52	9.26	0.32					
144.99	8	0.00	1.03	0.08					
144.XX	8	0.00	1.03	0.08					
151.30	4	- 0.18	0.98	0.22					
151.XX	5	- 0.10	0.96	0.21					