

- Pass 1 Results for 77 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	3	0.46	0.23	0.07	3	0.46	0.23	0.07
Ammoniacal Nitrogen, Other		001.99	3	0.19	0.07	0.02	3	0.19	0.07	0.02
Method Group 001.XX PCT			6	0.32	0.21	0.04	5	0.24	0.09	0.02
Nitrate Nitrogen, Jones Modified	930.02	002.20	1	0.35	0.00	0.00	1	0.35	0.00	0.00
Nitrate Nitrogen, Other		002.99	4	0.55	0.64	0.30	3	0.41	0.61	0.06
Method Group 002.XX PCT			5	0.51	0.57	0.24	4	0.40	0.52	0.05
Nitrogen From Urea, Other		005.99	1	8.42	0.11	0.16	1	8.42	0.11	0.16
Ammon & Nitrate N, Devarda	892.01	009.10	1	1.70	0.82	1.16	1	1.70	0.82	1.16
Total Nitrogen, Modified Comprehensive	978.02	010.11	4	9.08	0.20	0.04	4	9.08	0.20	0.04
Total Nitrogen, Salicylic	955.04D	010.12	7	9.27	0.20	0.01	7	9.27	0.20	0.01
Total Nitrogen, Comprehensive	970.02	010.17	1	9.47	0.04	0.06	1	9.47	0.04	0.06
Total Nitrogen, Combustion		010.60	46	9.21	0.17	0.11	44	9.20	0.15	0.08
Total Nitrogen, Other		010.99	4	9.18	0.34	0.03	4	9.18	0.34	0.03
Method Group 010.XX PCT			63	9.22	0.20	0.09	58	9.22	0.19	0.06
Total Phosphate, Grav Quimociac	962.02	020.10	7	6.10	0.10	0.10	7	6.10	0.10	0.10
Total Phosphate, Spectrometric	958.01	020.20	14	6.10	0.14	0.06	13	6.09	0.14	0.05
Total Phosphate, Automated	978.01	020.40	7	6.08	0.07	0.02	7	6.08	0.07	0.02
Total Phosphate, ICP		020.50	4	6.05	0.09	0.08	4	6.05	0.09	0.08
Total Phosphate, Other		020.99	3	6.05	0.33	0.09	3	6.05	0.33	0.09
Method Group 020.XX PCT			36	6.09	0.15	0.08	34	6.10	0.12	0.07
Insoluble Phosphate, ICP		030.50	1	0.00	0.00	0.00	1	0.00	0.00	0.00
InDir Available Phosphate, ICP		040.50	1	5.94	0.05	0.07	1	5.94	0.05	0.07
InDir Available Phosphate, Other		040.99	2	6.18	0.18	0.20	2	6.18	0.18	0.20
Method Group 040.XX PCT			3	6.10	0.19	0.15	3	6.10	0.19	0.15
Dir Available Phosphate, Grav Quimociac	960.03E	041.10	10	6.10	0.10	0.05	9	6.09	0.09	0.03
Dir Available Phosphate, Automated	978.01	041.40	2	5.91	0.18	0.15	2	5.91	0.18	0.15
Dir Available Phosphate, ICP		041.50	8	6.03	0.16	0.13	8	6.03	0.16	0.13
Dir Available Phosphate, EDTA Extract .	993.01	041.60	7	6.09	0.06	0.05	7	6.09	0.06	0.05
Dir Available Phosphate, Other		041.99	1	6.40	0.06	0.08	1	6.40	0.06	0.08
Method Group 041.XX PCT			29	6.07	0.14	0.08	27	6.09	0.13	0.07
Water Soluble Phosphate, Grav Quimociac	962.03	048.10	1	4.33	0.18	0.26	1	4.33	0.18	0.26
Water Soluble Phosphate, Spectrometric	970.01	048.20	1	0.19	0.01	0.01	1	0.19	0.01	0.01
Water Soluble Phosphate, ICP		048.50	2	6.19	0.26	0.10	2	6.19	0.26	0.10
Method Group 048.XX PCT			4	4.22	2.63	0.12	4	4.22	2.63	0.12
Soluble Potash, STPB Oxalate	958.02	050.00	13	8.26	0.15	0.07	12	8.26	0.15	0.05
Soluble Potash, STPB Citrate	969.04	050.10	1	8.11	0.03	0.04	1	8.11	0.03	0.04
Soluble Potash, AA (Oxalate)		050.30	6	8.10	0.25	0.16	6	8.10	0.25	0.16
Soluble Potash, AA (Citrate)		050.31	2	8.19	0.20	0.06	2	8.19	0.20	0.06
Soluble Potash, ICP (Oxalate)		050.50	9	8.20	0.27	0.18	9	8.20	0.27	0.18

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Soluble Potash, ICP (Citrate)		050.51	8	8.15	0.14	0.06	8	8.15	0.14	0.06
Soluble Potash, Flame (Oxalate)	983.02(a)	050.60	2	8.05	0.19	0.11	2	8.05	0.19	0.11
Soluble Potash, Flame (Citrate)	983.02(b)	050.61	7	8.28	0.09	0.07	7	8.28	0.09	0.07
Soluble Potash, Other		050.99	14	8.22	0.32	0.18	17	8.17	0.44	0.16
Method Group 050.XX PCT			63	8.21	0.23	0.13	57	8.20	0.18	0.10
Acid Soluble Calcium, ICP		101.30	5	0.36	0.61	0.03	4	0.41	0.68	0.01
Acid Soluble Calcium, Other		101.99	1	0.01	0.00	0.00	1	0.01	0.00	0.00
Method Group 101.XX PCT			6	0.30	0.57	0.03	5	0.33	0.62	0.01
Acid Soluble Magnesium, ICP		121.30	3	0.07	0.08	0.00	3	0.07	0.08	0.00
Water Soluble Magnesium, AA		131.00	1	0.00	0.00	0.00	1	0.00	0.00	0.00
Sulfur, Gravimetric	980.02b	144.02	1	0.04	0.00	0.00	1	0.04	0.00	0.00
Sulfur, Other		144.99	6	0.06	0.04	0.01	5	0.06	0.04	0.00
Method Group 144.XX PCT			7	0.05	0.04	0.01	6	0.05	0.04	0.00
Arsenic, ICP		151.30	1	7.38	0.09	0.13	1	7.38	0.09	0.13
Acid Soluble Boron, Spectrometric	982.01	165.00	1	0.023	0.001	0.001	1	0.023	0.001	0.001
Acid Soluble Boron, Other		165.99	18	0.023	0.003	0.001	18	0.023	0.003	0.001
Method Group 165.XX PCT			19	0.023	0.003	0.001	19	0.023	0.003	0.001
Water Soluble Boron, Other		171.99	1	0.023	0.000	0.000	1	0.023	0.000	0.000
Cadmium, ICP		181.30	2	0.31	0.30	0.02	2	0.31	0.30	0.02
Cadmium, Other		181.99	1	0.00	0.00	0.00	1	0.00	0.00	0.00
Method Group 181.XX PPM			3	0.21	0.28	0.01	3	0.21	0.28	0.01
Water Soluble Chlorine, Titrimetric ...	928.02	190.00	1	0.44	0.01	0.02	1	0.44	0.01	0.02
Chromium, ICP		191.30	3	1.70	0.94	0.05	3	1.70	0.94	0.05
Chromium, Other		191.99	1	0.00	0.00	0.00	1	0.00	0.00	0.00
Method Group 191.XX PPM			4	1.27	1.12	0.04	3	1.12	1.28	0.01
Acid Soluble Cobalt, ICP	965.11	202.30	2	0.27	0.30	0.01	2	0.27	0.30	0.01
Acid Soluble Copper, Atomic Absorption	975.01	221.00	3	0.0402	0.0004	0.0004	3	0.0402	0.0004	0.0004
Acid Soluble Copper, ICP		221.30	22	0.0396	0.0019	0.0011	20	0.0399	0.0014	0.0010
Acid Soluble Copper, Other		221.99	2	0.0428	0.0032	0.0005	2	0.0428	0.0032	0.0005
Method Group 221.XX PCT			29	0.0399	0.0022	0.0012	27	0.0400	0.0021	0.0009
Acid Soluble Iron, Atomic Absorption ..	980.01	241.00	5	0.06	0.01	0.00	4	0.06	0.01	0.00
Acid Soluble Iron, ICP		241.30	20	0.06	0.00	0.00	19	0.06	0.00	0.00
Acid Soluble Iron, Other		241.99	2	0.06	0.01	0.01	2	0.06	0.01	0.01
Method Group 241.XX PCT			27	0.06	0.00	0.00	25	0.06	0.00	0.00
Lead, ICP		251.30	2	0.73	0.49	0.08	2	0.73	0.49	0.08
Acid Soluble Manganese, AA	972.02a	261.00	3	0.055	0.004	0.002	3	0.055	0.004	0.002
Acid Soluble Manganese, ICP	972.02a	261.30	16	0.052	0.002	0.001	16	0.052	0.002	0.001
Acid Soluble Manganese, ICP	972.02b	261.31	2	0.055	0.002	0.001	2	0.055	0.002	0.001
Acid Soluble Manganese, Other		261.99	6	0.053	0.004	0.002	5	0.054	0.003	0.001

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Method Group 261.XX PCT			31	0.053	0.003	0.002	29	0.053	0.003	0.001
Mercury, ICP		281.30	1	6.51	0.04	0.05	1	6.51	0.04	0.05
Mercury, Other		281.99	1	0.00	0.00	0.00	1	0.00	0.00	0.00
Method Group 281.XX PPM			2	3.25	3.76	0.02	2	3.25	3.76	0.02
Molybdenum, Atomic Absorption		289.00	1	2.73	0.78	1.11	1	2.73	0.78	1.11
Molybdenum, ICP		289.30	9	9.52	2.72	0.70	8	10.39	0.94	0.49
Molybdenum, Other		289.99	3	7.33	5.68	0.24	3	7.33	5.68	0.24
Method Group 289.XX PPM			15	8.79	5.45	0.55	14	9.24	5.36	0.42
Nickel, ICP		291.30	2	0.51	0.33	0.03	2	0.51	0.33	0.03
Selenium, ICP		301.30	1	1.49	0.02	0.03	1	1.49	0.02	0.03
Sodium, Other		311.99	4	0.07	0.04	0.01	4	0.07	0.04	0.01
Acid Soluble Zinc, Atomic Absorption ..	975.02	321.00	5	0.053	0.004	0.001	5	0.053	0.004	0.001
Acid Soluble Zinc, ICP		321.30	24	0.051	0.003	0.001	22	0.050	0.002	0.001
Acid Soluble Zinc, Other		321.99	2	0.051	0.001	0.000	2	0.051	0.001	0.000
Method Group 321.XX PCT			33	0.051	0.004	0.001	32	0.051	0.004	0.001
Water Soluble Zinc, ICP		325.30	1	0.058	0.004	0.005	1	0.058	0.004	0.005
Water Soluble Zinc, Other		325.99	1	0.053	0.003	0.004	1	0.053	0.003	0.004
Method Group 325.XX PCT			2	0.055	0.004	0.005	2	0.055	0.004	0.005

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
<u>Meth: 001.10 PCT</u>			<u>Meth: 002.XX PCT</u>			<u>Meth: 010.12 PCT</u>			<u>Meth: 010.60 PCT</u>			<u>Meth: 010.XX PCT</u>		
<u>Ammoniacal Nitrogen</u>			<u>Nitrate Nitrogen</u>			<u>Total Nitrogen</u>			<u>Total Nitrogen</u>			<u>Total Nitrogen</u>		
<u>MgO Distillation</u>			481	1.20	1.56	<u>Salicylic</u>			<u>Combustion</u>			073	9.47 R	2.01
258	0.75	1.29	258	0.95 R	1.44	484	7.37 s	-9.47	049	9.14	-.44	095	9.54	1.68
Avg	0.46		Avg	0.40					483	9.13	-.49	368	9.51	1.49
230	0.35	-.48	230	0.35	-.09	<u>Meth: 010.17 PCT</u>			041	9.13	-.56	325	9.50	1.45
481	0.28	-.78	368	0.03	-.70	<u>Total Nitrogen</u>			233	9.12	-.62	027	9.47	1.30
			450	0.00	-.76	<u>Comprehensive</u>			022	9.20	-.65	131	9.45	1.21
						027	9.47	.71	007	9.20	-.65	354	9.41	.96
<u>Meth: 001.99 PCT</u>			<u>Meth: 005.99 PCT</u>			<u>Meth: 010.60 PCT</u>			<u>Meth: 010.99 PCT</u>			<u>Meth: 010.XX PCT</u>		
<u>Ammoniacal Nitrogen</u>			<u>Nitrogen From Urea</u>			<u>Total Nitrogen</u>			<u>Total Nitrogen</u>			<u>Total Nitrogen</u>		
<u>Other</u>			<u>Other</u>			<u>Combustion</u>			<u>Other</u>			<u>Other</u>		
368	0.25	.98	309	8.42	.71	096	9.73 s	3.44	070	9.10	-.68	028	9.31	.78
096	0.21	.29				073	9.47 R	2.61	247	9.10	-.71	292	9.36	.73
Avg	0.19					095	9.54	2.22	230	9.07	-.86	072	9.32	.73
450	0.11	-1.21				368	9.51	1.98	009	9.07	-.88	351	9.33	.56
						325	9.50	1.93	405	9.07	-.91	035	9.30	.43
<u>Meth: 001.XX PCT</u>						258	1.70	.71	157	9.05	-1.01	040	9.30	.42
<u>Ammoniacal Nitrogen</u>						131	9.45	1.62	472	9.05	-1.05	324	9.30	.42
258	0.75 R	5.94				354	9.41	1.31	234	9.04	-1.08	393	9.30	.40
230	0.35	1.30				037	9.25	1.08	260	9.05	-1.11	397	9.30	.39
481	0.28	.50				028	9.31	1.04	451	9.11	-1.12	162	9.23	.32
368	0.25	.27				292	9.36	1.02	177	9.01	-1.25	102	9.27	.27
Avg	0.24					072	9.32	1.00	377	9.04	-1.40	029	9.26	.26
096	0.21	-.38				035	9.30	.63	106	8.88	-2.11	422	9.25	.23
450	0.11	-1.53				324	9.30	.62	086	8.99 R	-2.36	291	9.25	.19
						040	9.30	.62				136	9.23	.18
						393	9.30	.60	<u>Meth: 010.99 PCT</u>			231	9.25	.17
<u>Meth: 002.20 PCT</u>						102	9.27	.43	<u>Total Nitrogen</u>			185	9.25	.16
<u>Nitrate Nitrogen</u>						162	9.23	.42	<u>Other</u>			Avg	9.22	
<u>Jones Modified</u>						029	9.26	.42	460	9.68	1.46	211	9.20	-.10
230	0.35	.00				422	9.25	.35	Avg	9.18		043	9.20	-.14
						291	9.25	.33	255	9.13	-.15	055	9.18	-.26
						231	9.25	.31	450	9.12	-.19	114	9.20	-.26
						136	9.23	.27	420	8.79	-1.14	444	9.18	-.29
						Avg	9.20		042	8.31 S	-2.59	416	9.16	-.34
						043	9.20	-.11	<u>Meth: 010.XX PCT</u>			390	9.17	-.34
						055	9.18	-.25	<u>Total Nitrogen</u>			090	9.16	-.35
						444	9.18	-.30	096	9.73	2.64	049	9.14	-.42
						390	9.17	-.36	455	9.69	2.43	483	9.13	-.46
									460	9.68	2.37	255	9.13	-.48
												041	9.13	-.52

* 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: 020.20 PCT			Meth: 020.50 PCT			Meth: 020.XX PCT			Meth: 040.99 PCT		
<u>Total Nitrogen</u>			<u>Total Phosphate</u>			<u>Total Phosphate</u>			<u>Total Phosphate</u>			<u>InDir Available Phos</u>		
022	9.20	-.52	<u>Spectrometric</u>			<u>ICP</u>			291	6.12	.14	<u>Other</u>		
007	9.20	-.52	324	6.41	2.27	483	6.50	S 5.66	211	6.10	.01	Avg	6.18	
450	9.12	-.53	309	6.25	s 1.99	390	6.12	.82	Avg	6.10		037	6.06	-.97
233	9.12	-.56	450	6.17	R .97	291	6.12	.67	292	6.10	-.05	Meth: 040.XX PCT		
426	9.15	-.58	169	6.20	.74	Avg	6.05		371	6.10	-.05	<u>InDir Available Phos</u>		
070	9.10	-.61	231	6.19	.67	444	6.05	-.81	035	6.09	-.12	460	6.31	1.11
254	9.10	-.61	481	6.17	.55	255	5.94	-1.31	049	6.09	-.24	Avg	6.10	
247	9.10	-.63	292	6.10	.04	Meth: 020.99 PCT			416	6.07	-.26	037	6.06	-.71
230	9.07	-.75	371	6.10	.04	<u>Total Phosphate</u>			405	6.06	-.39	255	5.94	-.87
117	9.07	-.77	Avg	6.09		<u>Other</u>			177	6.04	-.50	Meth: 041.10 PCT		
009	9.07	-.77	416	6.07	-.19	455	6.31	.78	234	6.09	-.60	<u>Dir Available Phosph</u>		
405	9.07	-.79	405	6.06	-.30	042	6.22	.54	090	6.03	-.72	<u>Grav Quimociac</u>		
157	9.05	-.87	177	6.04	-.40	Avg	6.05		258	6.02	-.74	185	6.24	1.79
472	9.05	-.91	234	6.09	-.50	322	5.64	-1.26	456	6.01	-.76	040	6.20	R 1.59
234	9.04	-.93	258	6.02	-.60	Meth: 020.XX PCT			027	6.01	-.77	022	6.20	1.16
451	9.11	R -.93	200	6.00	-.68	<u>Total Phosphate</u>			096	6.00	-.84	055	6.13	.35
260	9.05	-.95	420	5.81	-2.17	422	6.77	s 5.71	200	6.00	-.84	254	6.11	.18
177	9.01	-1.07	397	2.64	s -24.81	426	6.74	s 5.55	157	5.98	-1.27	Avg	6.09	
377	9.04	R -1.17	Meth: 020.40 PCT			432	6.75	s 5.52	255	5.94	-1.41	072	6.08	-.25
106	8.88	-1.75	<u>Total Phosphate</u>			451	6.70	s 5.06	420	5.81	-2.59	009	6.06	-.37
086	8.99	R -1.92	<u>Automated</u>			483	6.50	s 4.14	322	5.64	A -3.92	086	6.05	-.42
420	8.79	-2.24	484	6.19	1.63	324	6.41	2.64	397	2.64	s -29.32	131	6.02	-.85
309	8.77	-2.34	095	6.12	.65	309	6.25	R 2.33	Meth: 030.50 PCT			102	5.95	-1.64
481	8.58	s -3.30	247	6.12	.60	455	6.31	1.83	<u>Insoluble Phosphate</u>			Meth: 041.40 PCT		
042	8.31	s -4.80	035	6.09	.15	042	6.22	1.19	<u>ICP</u>			<u>Dir Available Phosph</u>		
484	7.37	s -9.55	Avg	6.08		450	6.17	1.13	255	0.00	.00	<u>Automated</u>		
Meth: 020.10 PCT			456	6.01	-.95	444	6.17	1.13	Meth: 040.50 PCT			131	6.02	.66
<u>Total Phosphate</u>			027	6.01	-.98	114	6.21	1.07	<u>InDir Available Phos</u>			Avg	5.91	
<u>Grav Quimociac</u>			096	6.00	-1.09	169	6.20	.84	<u>ICP</u>			027	5.79	-1.03
444	6.17	1.32	Meth: 020.50 PCT			484	6.19	.78	255	5.94	.71	072	5.43	S -2.74
114	6.21	1.26	<u>Total Phosphate</u>			231	6.19	.76	Meth: 040.99 PCT			472	0.20	S -32.55
041	6.13	.32	<u>ICP</u>			481	6.17	.61	<u>InDir Available Phos</u>			Meth: 041.40 PCT		
211	6.10	.01	422	6.77	S 7.74	390	6.12	.41	<u>Other</u>			<u>Dir Available Phosph</u>		
Avg	6.10		426	6.74	S 7.53	041	6.13	.28	460	6.31	.75	<u>Automated</u>		
049	6.09	-.29	432	6.75	S 7.50	095	6.12	.20	Meth: 040.99 PCT			<u>Dir Available Phosph</u>		
090	6.03	-.85	451	6.70	S 6.92	247	6.12	.19	<u>InDir Available Phos</u>			<u>Automated</u>		
157	5.98	-1.50	Meth: 020.50 PCT			Meth: 020.50 PCT			<u>Other</u>			<u>Dir Available Phosph</u>		

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

Laboratory Averages & Accuracy Indexes

<u>Lab</u>	<u>Average*</u>	<u>Index</u>	<u>Lab</u>	<u>Average*</u>	<u>Index</u>	<u>Lab</u>	<u>Average*</u>	<u>Index</u>	<u>Lab</u>	<u>Average*</u>	<u>Index</u>	<u>Lab</u>	<u>Average*</u>	<u>Index</u>
Meth: 041.50 PCT			Meth: 041.XX PCT			Meth: 048.50 PCT			Meth: 050.30 PCT			Meth: 050.51 PCT		
<u>Dir Available Phosph</u>			<u>Dir Available Phosph</u>			<u>Water Soluble Phosph</u>			<u>Soluble Potash</u>			<u>Soluble Potash</u>		
<u>ICP</u>			<u>ICP</u>			<u>ICP</u>			<u>AA (Oxalate)</u>			<u>ICP (Citrate)</u>		
325	6.75 s	4.52	022	6.20	.90	444	6.41	.90	185	8.35	1.05	023	8.27	1.08
377	6.20	1.11	073	6.19	.80	Avg	6.19		309	8.25	.87	393	8.23	.62
393	6.20	1.06	029	6.13	.52	393	5.97	-.83	157	8.13	.44	377	8.20	.36
007	6.09	.90	055	6.13	.30	Meth: 048.XX PCT			040	8.15	.30	Avg	8.15	
009	6.08	.35	254	6.11	.18	<u>Water Soluble Phosph</u>			Avg	8.10		007	8.13	-.30
354	6.06	.19	136	6.11	.15	444	6.41	.83	234	8.05	-.24	043	8.12	-.35
Avg	6.03		Avg	6.09		393	5.97	.66	073	7.66	-1.82	009	8.00	-1.06
023	5.86	-1.14	043	6.08	-.10	444	4.33	.06	351	7.08 S	-4.15	096	7.91	-1.71
043	5.87	-1.15	072	6.08	-.16	Avg	4.22		Meth: 050.31 PCT			Meth: 050.60 PCT		
360	5.90	-1.24	009	6.06	-.23	420	0.19	-1.54	<u>Soluble Potash</u>			<u>Soluble Potash</u>		
Meth: 041.60 PCT			354	6.06	-.23	Meth: 050.00 PCT			<u>AA (Citrate)</u>			<u>Flame (Oxalate)</u>		
<u>Dir Available Phosph</u>			086	6.05	-.27	<u>Soluble Potash</u>			254	8.36	.84	169	8.19	.78
<u>EDTA Extract</u>			009	6.08	-.30	<u>STPB Oxalate</u>			Avg	8.19		Avg	8.05	
073	6.19	1.58	028	6.08	-.32	230	9.00 s	5.11	472	8.02	-.89	200	7.90	-.94
029	6.13	1.03	351	6.03	-.42	230	9.00 s	5.11	Meth: 050.50 PCT			Meth: 050.61 PCT		
136	6.11	.25	131	6.02	-.54	258	8.45	1.30	<u>Soluble Potash</u>			<u>Soluble Potash</u>		
Avg	6.09		131	6.02	-.58	049	8.27 R	1.06	<u>ICP (Oxalate)</u>			<u>Flame (Citrate)</u>		
043	6.08	-.24	106	6.02	-.59	072	8.40	1.04	422	10.30 s	7.94	029	8.56 s	3.98
028	6.08	-.67	102	5.95	-1.17	022	8.40	.95	426	8.52	1.30	028	8.43	1.57
351	6.03	-.91	024	5.92	-1.48	090	8.34	.58	086	8.42	.88	095	8.33	.81
106	6.02	-1.24	043	5.87	-1.88	009	8.34	.56	055	8.36	.63	024	8.31	.31
024	5.92 s	-3.05	023	5.86	-1.89	416	8.32	.40	292	8.36	.60	Avg	8.28	
Meth: 041.99 PCT			360	5.90 R	-1.92	055	8.28	.39	106	8.32	.48	131	8.24	-.47
<u>Dir Available Phosph</u>			027	5.79 R	-2.62	Avg	8.26		Avg	8.20		035	8.22	-.80
<u>Other</u>			072	5.43 s	-5.28	211	8.26	-.01	390	8.05	-.58	456	8.18	-1.06
230	6.40	.71	472	0.20 s	-46.97	231	8.18	-.70	354	7.95	-1.07	037	8.27	-1.14
Meth: 041.XX PCT			Meth: 048.10 PCT			Meth: 050.10 PCT			Meth: 050.51 PCT			Meth: 050.99 PCT		
<u>Dir Available Phosph</u>			<u>Water Soluble Phosph</u>			<u>Soluble Potash</u>			<u>Soluble Potash</u>			<u>Soluble Potash</u>		
<u>Grav Quimociac</u>			<u>Grav Quimociac</u>			<u>STPB Citrate</u>			<u>ICP (Citrate)</u>			<u>Other</u>		
325	6.75 s	5.30	444	4.33	.71	102	7.48 s	-5.40	432	9.45 s	9.26	322	9.30 S	2.56
230	6.40	2.51	Meth: 048.20 PCT			Meth: 050.10 PCT			483	8.72 S	4.61	325	9.00 S	1.88
185	6.24	1.36	<u>Water Soluble Phosph</u>			<u>Soluble Potash</u>			291	8.32	1.25	451	8.90	1.66
040	6.20	1.20	<u>Spectrometric</u>			<u>STPB Citrate</u>			Meth: 050.99 PCT			<u>Soluble Potash</u>		
007	6.09	1.04	420	0.19	.71	Meth: 050.10 PCT			<u>Other</u>			<u>Soluble Potash</u>		
377	6.20	.98	Meth: 048.20 PCT			<u>Soluble Potash</u>			322			9.30 S 2.56		
			<u>Water Soluble Phosph</u>			<u>Soluble Potash</u>			325			9.00 S 1.88		
			<u>Spectrometric</u>			<u>STPB Citrate</u>			432			9.45 s 9.26		
			420 0.19 .71			444 8.11 .71			483			8.72 S 4.61		
									291			8.32 1.25		
												450 8.73 1.34		

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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: 101.XX PCT			Meth: 144.XX PCT		
<u>Soluble Potash</u>			<u>Soluble Potash</u>			<u>Soluble Potash</u>			<u>Acid Soluble Calcium</u>			<u>Sulfur</u>		
<u>Other</u>			254	8.36	.90	472	8.02	-1.03	483	0.16 R	-.29	422	0.11	1.41
027	8.34	.43	185	8.35	.89	009	8.00	-1.06	354	0.13	-.33	354	0.10	1.27
177	8.33	.36	292	8.36	.88	114	8.01	-1.08	484	0.01	-.51	483	0.06 R	.66
043	8.26	.22	309	8.25	.87	072	8.00	-1.10	102	0.00	-.53	Avg 0.05		
368	8.18	.15	090	8.34	.81	131	8.00	-1.20	086	0.00	-.53	292	0.04	-.35
247	8.22	.11	095	8.33	.81	484	8.05 R	-1.53	Meth: 121.30 PCT			102	0.03	-.73
405	8.21	.08	009	8.34	.80	354	7.95	-1.54	Acid Soluble Magnesi			086	0.02	-.78
Avg	8.22		177	8.33	.73	096	7.91	-1.56	<u>ICP</u>			009	0.02	-.82
481	8.11	-.18	106	8.32	.71	200	7.90	-1.70	422	0.17	1.26	Meth: 151.30 PPM		
072	8.00	-.40	291	8.32	.71	360	7.93	-1.73	Avg	0.07		Arsenic		
131	8.00	-.45	037	8.27	.69	324	7.95 R	-1.91	354	0.04	-.37	<u>ICP</u>		
484	8.05	-.61	416	8.32	.68	444	7.87	-1.93	102	0.00	-.88	393	7.38	.71
360	7.93	-.67	023	8.27	.64	042	7.82 R	-2.57	Meth: 131.00 PCT			Meth: 165.00 PCT		
042	7.82	-1.02	024	8.31	.63	073	7.66	-2.95	Water Soluble Magnes			Acid Soluble Boron		
455	7.45 S	-1.64	055	8.28	.53	102	7.48 s	-3.96	<u>AA</u>			<u>Spectrometric</u>		
460	7.40 S	-1.75	043	8.26	.42	455	7.45 s	-4.08	484	0.00	.00	481	0.023	.71
Meth: 050.XX PCT			211	8.26	.35	460	7.40 s	-4.35	Meth: 144.02 PCT			Meth: 165.99 PCT		
<u>Soluble Potash</u>			035	8.22	.26	351	7.08 s	-6.09	Sulfur			Acid Soluble Boron		
422	10.30 s	11.55	131	8.24	.25	Meth: 101.30 PCT			<u>Gravimetric</u>			<u>Other</u>		
432	9.45 s	6.86	393	8.23	.23	Acid Soluble Calcium			292	0.04	.00	255	0.036 s	3.95
322	9.30 s	6.05	247	8.22	.15	<u>ICP</u>			Meth: 144.99 PCT			354	0.030	2.19
230	9.00 s	4.44	405	8.21	.10	422	1.51	1.61	Sulfur			042	0.028	1.58
325	9.00 s	4.40	377	8.20	.03	Avg	0.41		<u>Other</u>			483	0.027	1.22
451	8.90 A	3.86	Avg	8.20		483	0.16 R	-.38	422	0.11	1.23	090	0.025	.64
255	8.67 s	3.40	169	8.19	-.06	354	0.13	-.42	354	0.10	1.10	096	0.025	.58
483	8.72 s	3.32	456	8.18	-.10	102	0.00	-.60	483	0.06 R	.59	360	0.025	.46
450	8.73 A	3.10	231	8.18	-.32	086	0.00	-.60	Avg 0.06			368	0.023	.41
029	8.56 R	2.41	368	8.18	-.35	Meth: 101.99 PCT			102	0.03	-.73	433	0.024	.32
426	8.52	1.91	040	8.15	-.37	Acid Soluble Calcium			086	0.02	-.78	Avg	0.023	
258	8.45	1.40	007	8.13	-.43	<u>Other</u>			009	0.02	-.81	230	0.023	-.12
086	8.42	1.30	043	8.12	-.47	484	0.01	.00	Meth: 144.99 PCT			450	0.023	-.20
028	8.43	1.28	444	8.11	-.48	Meth: 101.XX PCT			Sulfur			324	0.022	-.31
072	8.40	1.18	397	8.11	-.48	Acid Soluble Calcium			<u>Other</u>			258	0.023	-.32
022	8.40	1.12	481	8.11	-.55	<u>Acid Soluble Calcium</u>			422	1.51	1.89	086	0.022	-.36
049	8.27	.93	157	8.13	-.69	Avg			0.33			231	0.020	-1.01
055	8.36	.93	136	8.05	-.80									
027	8.34	.92	390	8.05	-.83									
			234	8.05	-.83									

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 165.99 PCT			Meth: 181.30 PPM			Meth: 191.XX PPM			Meth: 221.30 PCT			Meth: 221.XX PCT		
Acid Soluble Boron			Cadmium			Chromium			Acid Soluble Copper			Acid Soluble Copper		
<u>Other</u>			<u>ICP</u>			<u>ICP</u>			<u>ICP</u>			<u>ICP</u>		
422	0.020	-1.01	393	0.57	.87	393	2.74	1.26	090	0.0400	.70	433	0.0404	.19
444	0.020	-1.18	Avg	0.31		035	1.72 R	.47	433	0.0404	.36	043	0.0401	.03
043	0.019	-1.35	102	0.05	-.86	Avg	1.12		231	0.0400	.08	Avg	0.0400	
472	0.019	-1.37	Meth: 181.99 PPM			102	0.63	-.38	422	0.0400	.08	231	0.0400	-.01
Meth: 165.XX PCT			Cadmium			Meth: 202.30 PPM			Avg			481		
Acid Soluble Boron			<u>Other</u>			Acid Soluble Cobalt			022			481		
255	0.036 s	4.06	484	0.00	.00	<u>ICP</u>			472			422		
354	0.030	2.26	Meth: 181.XX PPM			393	0.53	.87	360			484		
042	0.028	1.63	<u>Cadmium</u>			Avg	0.27		255			043		
483	0.027	1.26	393	0.57	1.29	Meth: 221.00 PCT			131			231		
090	0.025	.67	Avg	0.21		Acid Soluble Copper			086			481		
096	0.025	.61	102	0.05	-.56	<u>Atomic Absorption</u>			027			422		
360	0.025	.48	484	0.00	-.72	028	0.0429 s	6.89	035			484		
368	0.023	.42	Meth: 190.00 PCT			397	0.0405	1.47	Meth: 221.99 PCT			027		
433	0.024	.34	Water Soluble Chlori			Avg	0.0402		Acid Soluble Copper			258		
Avg	0.023		<u>Titrimetric</u>			043	0.0401	-.35	<u>Other</u>			035		
230	0.023	-.12	422	0.44	.71	481	0.0400	-.46	042			Meth: 241.00 PCT		
450	0.023	-.20	Meth: 191.30 PPM			258	0.0370 s	-10.88	484			Acid Soluble Iron		
481	0.023	-.26	Chromium			Meth: 221.30 PCT			Meth: 221.XX PCT			<u>Atomic Absorption</u>		
324	0.022	-.30	<u>ICP</u>			Acid Soluble Copper			Acid Soluble Copper			258		
258	0.023	-.33	393	2.74	1.11	<u>ICP</u>			393			043		
086	0.022	-.36	035	1.72	.07	393	0.0738 s	23.48	324			028		
422	0.020	-1.03	Avg	1.70		324	0.0492 s	6.43	483			397		
231	0.020	-1.03	102	0.63	-1.13	483	0.0454 s	4.15	042			Avg		
444	0.020	-1.20	Meth: 191.99 PPM			230	0.0420	1.49	028			481		
043	0.019	-1.37	Chromium			444	0.0400 R	1.39	230			0.05		
472	0.019	-1.39	<u>Other</u>			009	0.0416	1.30	009			-1.56		
Meth: 171.99 PCT			484			368	0.0399	1.23	450			Meth: 241.30 PCT		
Water Soluble Boron			.00			450	0.0405	1.12	247			Acid Soluble Iron		
<u>Other</u>						247	0.0413	.95	390			<u>ICP</u>		
027	0.023	.00				390	0.0411	.91	037			393		
						037	0.0411	.81	102			354		
						102	0.0410	.77	397			422		
												324		
												0.07		
												0.12 s		
												0.11 s		
												0.08 s		
												2.74		

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 241.30 PCT			Meth: 241.XX PCT			Meth: 261.00 PCT			Meth: 261.31 PCT			Meth: 261.XX PCT		
Acid Soluble Iron			Acid Soluble Iron			Acid Soluble Manganese			Acid Soluble Manganese			Acid Soluble Manganese		
<u>ICP</u>			<u>ICP</u>			<u>AA</u>			<u>ICP</u>			<u>ICP</u>		
390	0.06	1.40	390	0.06	1.06	397	0.068 S	3.06	230	0.054	-.81	444	0.052	-.36
102	0.06	.93	042	0.06	.95	028	0.059	1.16				360	0.051	-.48
090	0.06	.82	102	0.06	.81	043	0.055	.08				035	0.051	-.62
022	0.06	.70	090	0.06	.72	Avg	0.055		Meth: 261.99 PCT			022	0.051	-.64
255	0.06	.46	022	0.06	.65	481	0.050	-1.07	Acid Soluble Manganese			231	0.050	-.79
009	0.06	.25	043	0.06	.60	258	0.047 S	-2.01	<u>Other</u>			481	0.050	-.79
230	0.06	.21	255	0.06	.47				042	0.059	1.53	484	0.050	-.79
Avg	0.06		028	0.06	.33	Meth: 261.30 PCT			037	0.055	.31	422	0.050	-.79
095	0.06	-.11	230	0.06	.32	Acid Soluble Manganese			255	0.054	.20	086	0.050	-.99
433	0.06	-.33	009	0.06	.29	<u>ICP</u>			Avg	0.054		258	0.047 s	-2.11
360	0.06	-.37	095	0.06	.13	450	0.055 s	3.69	027	0.052	-.69	483	0.046	-2.13
096	0.06	-.37	Avg	0.06		354	0.055 s	3.55	484	0.050	-1.24	472	0.046	-2.22
444	0.06	-.58	096	0.06	-.04	368	0.057 s	3.42	483	0.046 R	-2.55			
035	0.06	-.73	360	0.06	-.04	096	0.055	1.55	Meth: 261.XX PCT			Meth: 281.30 PPM		
131	0.06	-.76	433	0.06	-.06	090	0.054	1.21	Acid Soluble Manganese			Mercury		
027	0.06	-.82	444	0.06	-.20	390	0.054	1.20	397	0.068 s	4.58	<u>ICP</u>		
368	0.06	-.85	397	0.06	-.20	009	0.054	.97	028	0.059	2.05	393	6.51	-.71
086	0.06	-1.29	035	0.06	-.29	102	0.053	.60	042	0.059	1.97	Meth: 281.99 PPM		
472	0.06	-1.32	131	0.06	-.33	247	0.053	.60	450	0.055 R	1.79	Mercury		
231	0.06 R	-2.86	027	0.06	-.37	131	0.052	.56	354	0.055 R	1.71	<u>Other</u>		
483	0.05 S	-3.68	368	0.06	-.44	433	0.053	.37	368	0.057	1.57	484	0.00	.00
450	0.05 S	-4.77	086	0.06	-.70	095	0.052	.05	324	0.056	1.13	Meth: 281.XX PPM		
			472	0.06	-.71	Avg	0.052		037	0.055	.74	Mercury		
			484	0.06 R	-1.72	444	0.052	-.44	043	0.055	.70	<u>ICP</u>		
			231	0.06 R	-1.72	360	0.051	-.63	096	0.055	.61	393	6.51	.87
			483	0.05 s	-2.25	035	0.051	-.91	255	0.054	.52	Avg	3.25	
			481	0.05	-2.44	022	0.051	-.96	390	0.054	.45	484	0.00	-.87
			450	0.05 s	-2.91	231	0.050	-1.24	090	0.054	.44	Meth: 289.00 PPM		
						422	0.050	-1.24	230	0.054	.37	Molybdenum		
						086	0.050	-1.65	009	0.054	.32	<u>Atomic Absorption</u>		
						472	0.046 s	-4.09	247	0.053	.13	481	2.73	.71
									102	0.053	.13	Meth: 289.30 PPM		
									433	0.053	.06	Molybdenum		
									Avg	0.053		<u>ICP</u>		
									095	0.052	-.15	393 21.52 s 11.86		
									131	0.052	-.27			
									027	0.052	-.35			

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
<u>Meth: 289.30 PPM</u>			<u>Meth: 289.XX PPM</u>			<u>Meth: 321.30 PCT</u>			<u>Meth: 321.XX PCT</u>			<u>Meth: 325.30 PCT</u>		
<u>Molybdenum</u>			<u>Molybdenum</u>			<u>Acid Soluble Zinc</u>			<u>Acid Soluble Zinc</u>			<u>Water Soluble Zinc</u>		
<u>ICP</u>			<u>ICP</u>			<u>ICP</u>			<u>ICP</u>			<u>ICP</u>		
433	11.15	.81	484	0.00	-1.72	422	0.060 s	5.11	354	0.060	2.40	393	0.058	.71
230	11.00	.69	<u>Meth: 291.30 PPM</u>			483	0.058 A	4.33	422	0.060	2.40	<u>Meth: 325.99 PCT</u>		
037	10.95	.61	<u>Nickel</u>			368	0.052 R	2.67	483	0.058	1.99	<u>Water Soluble Zinc</u>		
095	10.88	.53	<u>ICP</u>			324	0.054	1.93	368	0.052 R	1.36	<u>Other</u>		
086	10.82	.51	393	0.79	.87	450	0.053	1.79	450	0.053	.71	450 0.053 .71		
Avg	10.39		Avg	0.51		102	0.053	1.22	324	0.054	.69			
368	10.30	-.10	102	0.22	-.86	096	0.052	.78	258	0.053	.51			
035	9.12	-1.44	<u>Meth: 301.30 PPM</u>			037	0.052	.72	102	0.053	.32	<u>Meth: 325.XX PCT</u>		
009	8.90	-1.83	<u>Selenium</u>			009	0.051	.51	037	0.052	.14	<u>Water Soluble Zinc</u>		
255	2.54 R	-8.47	<u>ICP</u>			022	0.051	.41	096	0.052	.07	393 0.058 .91		
422	0.00 s	-11.08	393	1.49	.71	090	0.051	.41	Avg	0.051		Avg 0.055		
<u>Meth: 289.99 PPM</u>			<u>Meth: 311.99 PCT</u>			247	0.051	.41	042	0.051	-.13	450 0.053 -.82		
<u>Molybdenum</u>			<u>Sodium</u>			360	0.051	.30	090	0.051	-.13			
<u>Other</u>			<u>Other</u>			Avg	0.050		247	0.051	-.13			
231	11.21	.68	354	0.12	1.19	095	0.050	-.04	022	0.051	-.14			
042	10.78	.61	422	0.10	.65	231	0.050	-.11	360	0.051	-.31			
Avg	7.33		Avg	0.07		292	0.050	-.11	009	0.051	-.37			
484	0.00	-1.29	102	0.04	-.86	390	0.050	-.30	028	0.051	-.37			
<u>Meth: 289.XX PPM</u>			009	0.04	-.96	230	0.050	-.37	095	0.050	-.37			
<u>Molybdenum</u>			<u>Meth: 321.00 PCT</u>			433	0.049	-.47	481	0.050	-.42			
393	21.52	2.29	<u>Acid Soluble Zinc</u>			255	0.050	-.63	292	0.050	-.42			
231	11.21	.37	<u>Atomic Absorption</u>			027	0.049	-.82	484	0.050	-.42			
433	11.15	.36	397	0.060	1.77	131	0.049	-.88	231	0.050	-.42			
230	11.00	.33	Avg	0.053		086	0.048	-1.26	390	0.050	-.48			
037	10.95	.32	258	0.053	-.36	444	0.047	-1.68	255	0.050	-.49			
095	10.88	.31	028	0.051	-.44	472	0.047	-2.09	230	0.050	-.55			
086	10.82	.30	481	0.050	-.62	<u>Meth: 321.99 PCT</u>			433	0.049	-.60			
042	10.78	.29	043	0.049	-.81	<u>Acid Soluble Zinc</u>			043	0.049	-.65			
368	10.30	.20	460	0.036 s	-4.09	<u>Other</u>			027	0.049	-.75			
Avg	9.24		<u>Meth: 321.30 PCT</u>			042	0.051	.87	131	0.049	-.83			
035	9.12	-.09	<u>Acid Soluble Zinc</u>			Avg	0.051		086	0.048	-1.03			
009	8.90	-.17	<u>ICP</u>			484	0.050	-.87	444	0.047	-1.26			
481	2.73	-1.22	354	0.060 s	5.11				472	0.047	-1.46			
255	2.54 R	-1.27							460	0.036 s	-4.50			
422	0.00	-1.72												

* 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	3	0.00	1.09	0.19	144.XX	7	0.02	0.96	0.25
001.99	3	0.00	1.10	0.18	165.99	19	0.208	1.320	0.220
001.XX	6	0.98	2.58	0.38	165.XX	20	0.203	1.322	0.223
002.99	4	0.22	1.01	0.41	181.30	2	0.00	1.22	0.05
002.XX	5	0.21	1.05	0.44	181.XX	3	0.00	1.12	0.04
010.11	4	0.00	1.07	0.14	191.30	3	0.00	1.12	0.04
010.12	9	- 1.43	3.34	0.13	191.XX	4	0.12	0.94	0.02
010.60	47	0.08	1.08	0.54	202.30	2	0.00	1.22	0.02
010.99	5	- 0.51	1.47	0.25	202.XX	2	0.00	1.22	0.02
010.XX	66	- 0.28	1.66	0.39	221.00	5	- 0.257	5.1787	3.4846
020.10	7	0.00	0.79	0.62	221.30	25	1.1892	5.0111	0.6280
020.20	16	- 1.45	6.30	0.51	221.99	2	0.0000	1.2147	0.1104
020.40	7	0.00	1.02	0.17	221.XX	32	0.6743	3.0952	0.4674
020.50	9	3.81	3.76	1.17	241.00	5	0.20	1.03	0.73
020.99	3	0.00	1.10	0.17	241.30	25	1.43	5.84	1.06
020.XX	41	- 0.17	5.08	0.62	241.99	2	0.00	0.96	0.54
040.99	2	0.00	0.94	0.56	241.XX	32	0.84	3.45	0.74
040.XX	3	0.00	0.97	0.45	251.30	2	0.00	1.22	0.08
041.10	10	0.12	0.99	0.45	251.XX	2	0.00	1.22	0.08
041.40	4	- 8.82	15.88	0.41	261.00	5	0.256	1.892	0.503
041.50	9	0.50	1.72	0.49	261.30	20	0.118	1.531	1.126
041.60	8	- 0.35	1.29	0.63	261.31	2	0.000	1.126	0.341
041.XX	28	- 1.66	9.01	0.70	261.99	6	- 0.399	1.351	0.391
048.50	2	0.00	1.18	0.24	261.XX	33	0.127	1.250	0.537
048.XX	3	- 0.15	1.21	0.23	281.XX	2	0.000	1.225	0.005
050.00	15	- 0.02	2.15	0.45	289.30	11	- 0.69	5.78	0.51
050.30	7	- 0.59	1.80	0.35	289.99	3	0.00	1.12	0.03
050.31	2	0.00	1.19	0.19	289.XX	15	- 0.08	1.03	0.08
050.50	10	0.79	2.65	0.47	291.30	2	0.00	1.22	0.06
050.51	10	1.33	3.18	0.76	291.XX	2	0.00	1.22	0.06
050.60	2	0.00	1.10	0.38	311.99	4	0.00	1.07	0.10
050.61	8	0.36	1.31	1.08	311.XX	4	0.00	1.07	0.10
050.99	19	0.20	1.12	0.32	321.00	6	- 0.682	1.908	0.207
050.XX	68	0.38	2.51	0.64	321.30	26	0.592	1.795	0.618
101.30	5	- 0.07	0.95	0.04	321.99	2	0.000	1.225	0.000
101.XX	6	- 0.05	0.96	0.04	321.XX	34	- 0.129	1.229	0.309
121.30	3	0.00	1.12	0.04					
121.XX	3	0.00	1.12	0.04					
144.99	6	0.01	0.95	0.25					