

- Pass 1 Results for 73 Labs - - Pass 2 Results for 71 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	5	8.56	0.25	0.09	5	8.56	0.25	0.09
Ammoniacal Nitrogen, Other		001.99	11	8.69	0.28	0.05	11	8.69	0.28	0.05
Method Group 001.XX PCT			16	8.65	0.27	0.06	16	8.65	0.27	0.06
Nitrate Nitrogen, Other		002.99	3	0.20	0.02	0.01	3	0.20	0.02	0.01
Ammon & Nitrate N, Devarda	892.01	009.10	5	9.11	0.15	0.06	5	9.11	0.15	0.06
Total Nitrogen, Modified Comprehensive	978.02	010.11	9	8.81	0.13	0.05	9	8.81	0.13	0.05
Total Nitrogen, Salicylic	955.04D	010.12	2	9.00	0.09	0.03	2	9.00	0.09	0.03
Total Nitrogen, Raney	970.03	010.16	1	8.57	0.11	0.15	1	8.57	0.11	0.15
Total Nitrogen, Combustion		010.60	45	9.03	0.12	0.07	43	9.02	0.12	0.06
Total Nitrogen, Other		010.99	2	8.92	0.27	0.21	2	8.92	0.27	0.21
Method Group 010.XX PCT			61	8.97	0.17	0.09	57	8.97	0.16	0.06
Total Phosphate, Grav Quimociac	962.02	020.10	5	23.65	0.18	0.13	5	23.65	0.18	0.13
Total Phosphate, Spectrometric	958.01	020.20	18	23.37	0.33	0.13	17	23.37	0.33	0.11
Total Phosphate, Automated	978.01	020.40	9	23.39	0.36	0.30	8	23.43	0.26	0.16
Total Phosphate, ICP		020.50	10	22.98	0.75	0.41	10	22.98	0.75	0.41
Method Group 020.XX PCT			42	23.31	0.50	0.23	39	23.32	0.42	0.18
Insoluble Phosphate, Grav Quimociac	963.03C	030.10	1	0.05	0.00	0.00	1	0.05	0.00	0.00
Insoluble Phosphate, Automated	978.01	030.40	1	0.14	0.01	0.01	1	0.14	0.01	0.01
Insoluble Phosphate, ICP		030.50	1	0.08	0.00	0.01	1	0.08	0.00	0.01
Insoluble Phosphate, Other		030.99	1	0.17	0.02	0.03	1	0.17	0.02	0.03
Method Group 030.XX PCT			4	0.11	0.05	0.01	4	0.11	0.05	0.01
InDir Available Phosphate, Grav Quim	960.02	040.10	1	23.58	0.02	0.03	1	23.58	0.02	0.03
InDir Available Phosphate, Automated	960.02	040.40	1	23.33	0.06	0.09	1	23.33	0.06	0.09
InDir Available Phosphate, ICP		040.50	1	22.07	0.02	0.03	1	22.07	0.02	0.03
InDir Available Phosphate, Other		040.99	2	23.24	0.04	0.06	2	23.24	0.04	0.06
Method Group 040.XX PCT			5	23.09	0.55	0.05	5	23.09	0.55	0.05
Dir Available Phosphate, Grav Quimociac	960.03E	041.10	13	23.36	0.18	0.09	12	23.35	0.18	0.07
Dir Available Phosphate, Spectrometric	960.03D	041.20	4	23.13	0.22	0.08	4	23.13	0.22	0.08
Dir Available Phosphate, Automated	978.01	041.40	5	23.38	0.23	0.10	5	23.38	0.23	0.10
Dir Available Phosphate, ICP		041.50	9	23.25	0.44	0.12	10	23.37	0.56	0.12
Dir Available Phosphate, EDTA Extract	993.01	041.60	9	23.19	0.18	0.18	9	23.19	0.18	0.18
Dir Available Phosphate, Other		041.99	1	23.43	0.06	0.09	1	23.43	0.06	0.09
Method Group 041.XX PCT			41	23.28	0.27	0.12	40	23.28	0.28	0.11
Water Soluble Phosphate, Spectrometric	970.01	048.20	3	21.63	0.76	0.09	3	21.63	0.76	0.09
Soluble Potash, STPB Oxalate	958.02	050.00	12	29.87	0.53	0.20	12	29.87	0.53	0.20
Soluble Potash, STPB Citrate	969.04	050.10	1	29.60	0.18	0.26	1	29.60	0.18	0.26
Soluble Potash, AA (Oxalate)		050.30	7	29.38	0.86	0.26	7	29.38	0.86	0.26
Soluble Potash, AA (Citrate)		050.31	1	29.82	0.03	0.04	1	29.82	0.03	0.04
Soluble Potash, ICP (Oxalate)		050.50	6	29.66	0.72	0.24	6	29.66	0.72	0.24

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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
Soluble Potash, ICP (Citrate)		050.51	7	29.83	0.52	0.42	6	29.93	0.35	0.22
Soluble Potash, Flame (Oxalate)		050.60	5	29.74	0.87	0.34	5	29.74	0.87	0.34
Soluble Potash, Flame (Citrate)	983.02(a)	050.61	9	30.28	0.32	0.16	9	30.28	0.32	0.16
Soluble Potash, Other	983.02(b)	050.99	14	29.75	0.70	0.45	13	29.68	0.55	0.27
Method Group 050.XX PCT			62	29.80	0.67	0.30	60	29.80	0.63	0.23
Free Water, Vacuum Oven	965.08B	060.00	4	1.47	0.36	0.05	4	1.47	0.36	0.05
Free Water, Vacuum Desiccate	965.08A	060.10	1	0.95	0.03	0.04	1	0.95	0.03	0.04
Free Water, Other		060.99	1	6.58	0.04	0.06	1	6.58	0.04	0.06
Method Group 060.XX PCT			6	2.23	2.06	0.05	6	2.23	2.06	0.05
Acid Soluble Calcium, AA	945.04	101.00	1	0.19	0.00	0.00	1	0.19	0.00	0.00
Acid Soluble Calcium, ICP		101.30	10	0.21	0.01	0.01	10	0.21	0.01	0.01
Method Group 101.XX PCT			11	0.20	0.01	0.01	11	0.20	0.01	0.01
Acid Soluble Magnesium, ICP		121.30	12	0.41	0.02	0.01	11	0.41	0.02	0.01
Method Group 121.XX PCT			12	0.41	0.02	0.01	11	0.41	0.02	0.01
Sulfur, Gravimetric	980.02a	144.01	8	0.54	0.04	0.02	7	0.55	0.02	0.01
Sulfur, Gravimetric	980.02b	144.02	1	0.50	0.01	0.01	1	0.50	0.01	0.01
Sulfur, Other		144.99	18	0.53	0.05	0.01	18	0.53	0.05	0.01
Method Group 144.XX PCT			27	0.53	0.05	0.02	25	0.54	0.04	0.01
Arsenic, Atomic Absorption		151.00	1	7.80	0.00	0.00	1	7.80	0.00	0.00
Arsenic, ICP		151.30	7	7.74	3.18	0.83	6	7.04	2.78	0.47
Arsenic, Other		151.99	1	8.50	0.19	0.27	1	8.50	0.19	0.27
Method Group 151.XX PPM			9	7.84	2.79	0.68	7	7.39	2.57	0.11
Acid Soluble Boron, Other		165.99	5	0.016	0.015	0.003	5	0.016	0.015	0.003
Cadmium, Atomic Absorption		181.00	2	2.35	0.46	0.08	2	2.35	0.46	0.08
Cadmium, ICP		181.30	6	1.87	0.14	0.13	6	1.87	0.14	0.13
Cadmium, Other		181.99	1	1.79	0.03	0.04	1	1.79	0.03	0.04
Method Group 181.XX PPM			10	1.90	0.35	0.13	10	1.90	0.35	0.13
Water Soluble Chlorine, Titrimetric	928.02	190.00	7	23.33	0.65	0.09	7	23.33	0.65	0.09
Water Soluble Chlorine, Other		190.99	4	22.74	1.33	0.19	4	22.74	1.33	0.19
Method Group 190.XX PCT			11	23.12	0.97	0.13	11	23.12	0.97	0.13
Chromium, ICP		191.30	12	47.88	9.88	2.54	11	48.21	10.01	1.41
Chromium, Other		191.99	1	61.61	0.71	1.01	1	61.61	0.71	1.01
Method Group 191.XX PPM			13	48.93	10.19	2.42	12	49.33	10.29	1.38
Acid Soluble Cobalt, ICP	965.11	202.30	10	1.86	0.97	0.23	9	1.82	1.00	0.13
Acid Soluble Cobalt, Other		202.99	1	2.84	0.02	0.03	1	2.84	0.02	0.03
Method Group 202.XX PPM			11	1.95	0.97	0.22	10	1.92	1.00	0.12
Acid Soluble Copper, Atomic Absorption	975.01	221.00	1	0.0004	0.0000	0.0000	1	0.0004	0.0000	0.0000
Acid Soluble Copper, ICP		221.30	11	0.0015	0.0021	0.0002	9	0.0010	0.0020	0.0001
Acid Soluble Copper, Other		221.99	1	0.0001	0.0000	0.0000	1	0.0001	0.0000	0.0000

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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 221.XX PCT			13	0.0013	0.0020	0.0002	11	0.0009	0.0018	0.0001
Acid Soluble Iron, Atomic Absorption ..	980.01	241.00	2	0.70	0.01	0.01	2	0.70	0.01	0.01
Acid Soluble Iron, ICP		241.30	11	0.70	0.03	0.02	11	0.70	0.03	0.02
Method Group 241.XX PCT			13	0.70	0.03	0.02	13	0.70	0.03	0.02
Lead, ICP		251.30	6	1.64	1.61	0.44	5	1.47	1.66	0.13
Lead, Other		251.99	1	1.14	0.01	0.01	1	1.14	0.01	0.01
Method Group 251.XX PPM			7	1.57	1.49	0.38	6	1.41	1.50	0.11
Acid Soluble Manganese, AA	972.02a	261.00	1	0.011	0.001	0.001	1	0.011	0.001	0.001
Acid Soluble Manganese, ICP	972.02a	261.30	9	0.013	0.001	0.000	8	0.013	0.001	0.000
Acid Soluble Manganese, Other		261.99	1	0.012	0.000	0.000	1	0.012	0.000	0.000
Method Group 261.XX PCT			11	0.013	0.001	0.000	10	0.013	0.001	0.000
Mercury, ICP		281.30	1	0.00	0.00	0.00	1	0.00	0.00	0.00
Molybdenum, ICP		289.30	12	3.82	0.83	0.32	11	3.79	0.82	0.19
Molybdenum, Other		289.99	2	2.75	3.17	0.04	2	2.75	3.17	0.04
Method Group 289.XX PPM			14	3.67	1.36	0.28	13	3.63	1.39	0.17
Nickel, ICP		291.30	11	8.78	1.37	1.05	10	8.60	1.15	0.77
Nickel, Other		291.99	1	9.47	0.04	0.06	1	9.47	0.04	0.06
Method Group 291.XX PPM			12	8.84	1.33	0.97	10	8.77	1.02	0.46
Selenium, ICP		301.30	3	3.26	3.46	0.39	3	3.26	3.46	0.39
Selenium, Other		301.99	1	2.92	0.28	0.40	1	2.92	0.28	0.40
Method Group 301.XX PPM			4	3.18	2.93	0.39	4	3.18	2.93	0.39
Sodium, Other		311.99	7	0.66	0.09	0.02	7	0.66	0.09	0.02
Acid Soluble Zinc, Atomic Absorption ..	975.02	321.00	2	0.002	0.000	0.000	2	0.002	0.000	0.000
Acid Soluble Zinc, ICP		321.30	17	0.004	0.003	0.001	14	0.003	0.002	0.000
Method Group 321.XX PCT			19	0.003	0.002	0.001	16	0.003	0.002	0.000
Water Soluble Zinc, ICP		325.30	2	0.025	0.028	0.001	2	0.025	0.028	0.001

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	
Meth: 010.XX PCT												
Total Nitrogen												
262	8.95	-.17										
351	8.93	-.27										
460	8.93	-.31										
024	8.91	-.33										
234	8.92	-.35										
443	8.90	-.42										
368	8.90	-.44										
037	8.95	-.47										
027	8.89	-.52										
325	8.89	-.54										
136	8.88	-.56										
455	8.88	-.60										
029	8.86	-.67										
041	8.87	-.67										
114	8.86	-.71										
090	8.82	-.90										
131	8.82	-.97										
157	8.85	-1.04										
456	8.78	-1.17										
420	8.73	-1.44										
371	8.63	-2.12										
230	8.88 R	-2.25										
309	8.60	-2.27										
419	8.57	-2.52										
095	8.54	-2.65										
072	8.49 s	-2.97										
030	8.82 s	-3.89										
260	8.17 s	-4.93										
Meth: 020.10 PCT												
Total Phosphate												
041	23.70	1.05										
Grav Quimociac												
114	23.77	.78										
057	23.76	.63										
Avg 23.65												
090	23.63	-.14										
105	23.38	-1.54										
Meth: 020.20 PCT												
Total Phosphate												
324	23.90	1.62										
Spectrometric												
406	23.84	1.41										
232	23.76	1.23										
428	23.75	1.15										
363	23.58	.88										
231	23.50	.49										
292	23.44	.34										
169	23.48	.32										
371	23.42	.21										
Avg 23.37												
257	23.30	-.22										
405	23.28	-.30										
309	23.18	-.61										
460	23.14	-.72										
296	23.33 R	-.84										
420	23.00	-1.11										
419	23.00	-1.13										
258	22.96	-1.25										
234	22.84	-1.63										
230	21.05 s	-7.22										
Meth: 020.40 PCT												
Total Phosphate												
027	23.78	1.34										
Automated												
024	23.69	.99										
095	23.57	.75										
096	23.46	.22										
Avg 23.43												
247	23.41	-.23										
105	23.34	-.49										
035	23.21	-.94										
456	23.00	-1.71										
042	23.09 R	-3.00										
Meth: 020.50 PCT												
Total Phosphate												
157	24.40 R	2.73										
ICP												
360	23.81	1.43										
324	23.90	1.39										
406	23.84	1.23										
027	23.78	1.09										
232	23.76	1.08										
114	23.77	1.07										
Avg 23.76												
057	23.76	1.03										
428	23.75	1.02										
041	23.70	.99										
024	23.69	.87										
363	23.58	.78										
090	23.63	.72										
095	23.57	.67										
296	23.33	.65										
Meth: 020.99 PCT												
Total Phosphate												
443	21.28 S	.00										
Other												
455	30.13 S	.00										
Avg 0.00												
Meth: 020.XX PCT												
Total Phosphate												
455	30.13 s	16.15										
Total Phosphate												
157	24.40 R	2.73										
Other												
360	23.81	1.43										
324	23.90	1.39										
406	23.84	1.23										
027	23.78	1.09										
232	23.76	1.08										
114	23.77	1.07										
Avg 23.76												
057	23.76	1.03										
428	23.75	1.02										
041	23.70	.99										
024	23.69	.87										
363	23.58	.78										
090	23.63	.72										
095	23.57	.67										
296	23.33	.65										
Meth: 020.10 PCT												
Total Phosphate												
041	23.70	1.05										
Grav Quimociac												
114	23.77	.78										
057	23.76	.63										
Avg 23.65												
090	23.63	-.14										
105	23.38	-1.54										
Meth: 020.50 PCT												
Total Phosphate												
231	23.50	.48										
Automated												
169	23.48	.37										
292	23.44	.35										
096	23.46	.35										
402	23.47	.34										
371	23.42	.25										
247	23.41	.23										
Avg 23.34												
105	23.38	.18										
Meth: 030.99 PCT												
Total Phosphate												
105	23.38	.18										
Other												
257	23.30	-.06										
405	23.28	-.12										
422	23.20	-.31										
309	23.18	-.36										
035	23.21	-.38										
Meth: 030.XX PCT												
Total Phosphate												
460	23.14	-.45										
Other												
420	23.01	-.75										
419	23.00	-.77										
456	23.00	-.82										
258	22.96	-.86										
234	22.84	-1.16										
368	22.74	-1.38										
Meth: 040.10 PCT												
Total Phosphate												
042	23.09 R	-1.77										
InDir Available Phos												
390	22.60	-1.86										
Grav Quim												
291	22.51	-1.93										
330	22.55	-2.02										
255	22.40	-2.26										
432	22.09 A	-3.02										
443	21.28 s	-4.87										
230	21.05 s	-5.55										
Meth: 040.50 PCT												
Total Phosphate												
090	0.05	.00										
Grav Quimociac												
090	0.05	.00										
Meth: 030.40 PCT												
Total Phosphate												
096	0.14	.71										
Automated												
Meth: 030.50 PCT												
Total Phosphate												
096	0.14	.71										
Automated												
Meth: 040.40 PCT												
Total Phosphate												
096	0.14	.56										
Automated												
Meth: 040.10 PCT												
Total Phosphate												
096	0.14	.56										
Automated												
Meth: 040.40 PCT												
Total Phosphate												
096	0.14	.56										
Automated												
Meth: 040.10 PCT												
Total Phosphate												
096	0.14	.56										
Automated												

* 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: 040.99 PCT											
InDir Available Phos											
Other											
405	23.25	.43									
Avg	23.24										
247	23.24	-1.15									
Meth: 040.XX PCT											
InDir Available Phos											
090	23.58	.87									
096	23.33	.43									
405	23.25	.28									
247	23.24	.28									
Avg	23.09										
255	22.07	-1.84									
Meth: 041.10 PCT											
Dir Available Phosph											
Grav Quimociac											
254	23.65	1.63									
057	23.45	1.10									
260	23.54	1.04									
136	23.48	.81									
086	23.46	.63									
009	23.45	.53									
105	23.36	.23									
Avg	23.35										
040	23.32	-.38									
072	23.28	-.50									
177	23.30	-.55									
055	23.23	-.77									
131	23.20	-.86									
102	22.98	-2.08									
Meth: 041.20 PCT											
Dir Available Phosph											
Spectrometric											
262	22.99	-.69									
419	22.95	-.87									
Meth: 041.40 PCT											
Dir Available Phosph											
Automated											
095	23.71	1.46									
027	23.51	.66									
Avg	23.38										
131	23.21	-.74									
029	23.28	-.79									
072	23.18	-.87									
Meth: 041.50 PCT											
Dir Available Phosph											
ICP											
009	24.46	1.96									
325	23.90	.97									
055	23.61	.44									
360	23.57	.36									
043	23.45	.17									
Avg	23.25										
393	23.16	-.37									
377	23.15	-.39									
354	23.17	-.40									
007	22.73	-1.18									
291	22.48	-1.59									
Meth: 041.60 PCT											
Dir Available Phosph											
EDTA Extract											
105	23.42	1.30									
043	23.34	1.00									
397	23.29	.96									
037	23.20	.08									
Avg	23.19										
057	23.19	-.11									
Meth: 041.60 PCT											
Dir Available Phosph											
Spectrometric											
030	23.46	1.50									
Avg	23.13										
363	23.13	-.16									
Meth: 041.60 PCT											
Dir Available Phosph											
EDTA Extract											
024	23.02	-.96									
073	23.08	-1.01									
177	23.00	-1.06									
262	22.99	-1.08									
102	22.98	-1.10									
419	22.95	-1.22									
007	22.73	-2.09									
291	22.48	-2.91									
230	18.80	s -20.01									
351	4.09	s -69.72									
Meth: 048.20 PCT											
Water Soluble Phosph											
Spectrometric											
420	22.61	1.29									
Avg	21.63										
096	21.17	-.61									
363	21.11	-.68									
Meth: 050.00 PCT											
Soluble Potash											
AA (Citrate)											
254	29.82	.71									
Meth: 050.10 PCT											
Soluble Potash											
STPB Citrate											
300	29.60	-.71									
Meth: 050.30 PCT											
Soluble Potash											
AA (Oxalate)											
428	33.86	s 5.24									
262	30.43	1.29									
234	30.31	1.11									
136	29.70	.39									
040	29.56	.22									
Avg	29.38										
043	29.06	-.43									
351	28.41	-1.13									
073	28.18	-1.40									
Meth: 050.31 PCT											
Soluble Potash											
AA (Citrate)											
254	29.82	.71									
Meth: 050.00 PCT											
Soluble Potash											
STPB Oxalate											
009	30.76	1.67									
257	30.40	1.02									
114	30.14	.73									

* 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: 050.50 PCT											
Soluble Potash											
ICP (Oxalate)											
157	33.50 S	5.37									
292	32.72 S	4.33									
324	30.70	1.51									
422	30.45	1.10									
Avg	29.66										
055	29.51	-.28									
390	29.20	-.65									
354	29.13	-.75									
419	28.95	-.98									
Meth: 050.61 PCT											
Soluble Potash											
Flame (Citrate)											
029	30.29	.34									
131	30.36	.26									
024	30.30	.17									
Avg	30.28										
037	30.22	-.18									
041	30.23	-.37									
057	30.02	-.88									
035	29.70	-1.87									
030	27.08 s	-9.95									
Meth: 050.99 PCT											
Soluble Potash											
Other											
255	33.16 S	6.31									
042	30.67 R	3.10									
027	30.60	1.74									
260	30.41	1.38									
177	30.34	1.21									
131	29.69	.68									
086	29.92	.45									
360	29.89	.44									
Avg	29.68										
402	29.64	-.19									
325	29.45	-.49									
072	29.30	-.68									
232	29.38	-.73									
247	29.17	-.92									
368	29.16	-.93									
371	28.85	-1.51									
420	27.18 S	-4.53									
330	25.00 s	-8.50									
455	23.13 s	-11.87									
Meth: 050.60 PCT											
Soluble Potash											
Flame (Oxalate)											
309	30.73	1.14									
406	30.59	.98									
Avg	29.74										
443	29.54	-.55									
169	29.11	-.74									
460	28.75	-1.18									
Meth: 050.61 PCT											
Soluble Potash											
Flame (Citrate)											
095	30.83	1.72									
456	30.56	.92									
Meth: 050.51 PCT											
Soluble Potash											
ICP (Citrate)											
377	30.34	1.19									
393	30.17	.69									
043	29.94	.47									
291	30.00	.27									
Avg	29.93										
432	29.68	-1.17									
009	29.44	-1.40									
007	29.23 R	-3.08									
Meth: 050.60 PCT											
Soluble Potash											
Flame (Oxalate)											
309	30.73	1.14									
406	30.59	.98									
Avg	29.74										
443	29.54	-.55									
169	29.11	-.74									
460	28.75	-1.18									
Meth: 050.61 PCT											
Soluble Potash											
Flame (Citrate)											
095	30.83	1.72									
456	30.56	.92									
Meth: 050.51 PCT											
Soluble Potash											
ICP (Citrate)											
377	30.34	1.19									
393	30.17	.69									
043	29.94	.47									
291	30.00	.27									
Avg	29.93										
432	29.68	-1.17									
009	29.44	-1.40									
007	29.23 R	-3.08									
Meth: 050.60 PCT											
Soluble Potash											
Flame (Oxalate)											
309	30.73	1.14									
406	30.59	.98									
Avg	29.74										
443	29.54	-.55									
169	29.11	-.74									
460	28.75	-1.18									
Meth: 050.61 PCT											
Soluble Potash											
Flame (Citrate)											
095	30.83	1.72									
456	30.56	.92									
Meth: 050.51 PCT											
Soluble Potash											
ICP (Citrate)											
377	30.34	1.19									
393	30.17	.69									
043	29.94	.47									
291	30.00	.27									
Avg	29.93										
432	29.68	-1.17									
009	29.44	-1.40									
007	29.23 R	-3.08									
Meth: 050.60 PCT											
Soluble Potash											
Flame (Oxalate)											
309	30.73	1.14									
406	30.59	.98									
Avg	29.74										
443	29.54	-.55									
169	29.11	-.74									
460	28.75	-1.18									
Meth: 050.61 PCT											
Soluble Potash											
Flame (Citrate)											
095	30.83	1.72									
456	30.56	.92									
Meth: 050.51 PCT											
Soluble Potash											
ICP (Citrate)											
377	30.34	1.19									
393	30.17	.69									
043	29.94	.47									
291	30.00	.27									
Avg	29.93										
432	29.68	-1.17									
009	29.44	-1.40									
007	29.23 R	-3.08									
Meth: 050.60 PCT											
Soluble Potash											
Flame (Oxalate)											
309	30.73	1.14									
406	30.59	.98									
Avg	29.74										
443	29.54	-.55									
169	29.11	-.74									
460	28.75	-1.18									
Meth: 050.61 PCT											
Soluble Potash											
Flame (Citrate)											
095	30.83	1.72									
456	30.56	.92									
Meth: 050.51 PCT											
Soluble Potash											
ICP (Citrate)											
377	30.34	1.19									
393	30.17	.69									
043	29.94	.47									
291	30.00	.27									
Avg	29.93										
432	29.68	-1.17									
009	29.44	-1.40									
007	29.23 R	-3.08									
Meth: 050.60 PCT											
Soluble Potash											
Flame (Oxalate)											
309	30.73	1.14									
406	30.59	.98									
Avg	29.74										
443	29.54	-.55									
169	29.11	-.74		</							

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 101.30 PCT											
Acid Soluble Calcium											
ICP											
009	0.21	.16									
Avg	0.21										
035	0.20	-.11									
057	0.20	-.45									
102	0.20	-.51									
390	0.20	-.76									
247	0.20	-.86									
291	0.19	-1.08									
354	0.00 S	-15.51									
Meth: 101.XX PCT											
Acid Soluble Calcium											
232	3.90 s	270.69									
422	0.73 s	38.60									
096	0.24	2.35									
363	0.21	.88									
131	0.21	.76									
009	0.21	.25									
035	0.20	.09									
Avg	0.20										
057	0.20	-.32									
102	0.20	-.36									
390	0.20	-.61									
247	0.20	-.71									
291	0.19	-.91									
105	0.19	-1.28									
354	0.00 s	-14.71									
Meth: 121.00 PCT											
Acid Soluble Magnesi											
AA											
105	0.33 S	.00									
Meth: 121.30 PCT											
Acid Soluble Magnesi											
ICP											
419	1.63 s	44.59									
232	1.54 s	66.06									
Meth: 121.XX PCT											
Acid Soluble Magnesi											
232	1.54 s	66.06									
247	0.43	1.14									
009	0.42 R	1.14									
363	0.43	.97									
131	0.42	.70									
102	0.42	.65									
390	0.42	.45									
096	0.42	.39									
Avg	0.41										
035	0.41	-.33									
057	0.40	-.59									
354	0.40	-.64									
422	0.40	-.85									
291	0.37	-2.32									
Meth: 121.XX PCT											
Acid Soluble Magnesi											
232	1.54 s	66.06									
247	0.43	1.14									
009	0.42 R	1.14									
363	0.43	.97									
131	0.42	.70									
102	0.42	.65									
390	0.42	.45									
096	0.42	.39									
Avg	0.41										
035	0.41	-.33									
057	0.40	-.59									
354	0.40	-.64									
422	0.40	-.85									
291	0.37	-2.32									
Meth: 144.01 PCT											
Sulfur											
ICP											
247	0.43	1.14									
009	0.42 R	1.14									
363	0.43	.97									
131	0.42	.70									
102	0.42	.65									
390	0.42	.45									
096	0.42	.39									
Avg	0.41										
035	0.41	-.33									
057	0.40	-.59									
354	0.40	-.64									
422	0.40	-.85									
291	0.37	-2.32									
Meth: 144.02 PCT											
Sulfur											
Gravimetric											
292	0.50	.71									
Meth: 144.99 PCT											
Sulfur											
Other											
232	3.90 s	64.82									
360	2.98 s	47.32									
131	1.24 s	13.51									
169	0.65	2.33									
057	0.58	.90									
422	0.58	.66									
102	0.57	.49									
029	0.56	.41									
037	0.56	.49									
368	0.54	.48									
028	0.56	.39									
419	0.56	.39									
363	0.55	.30									
324	0.55	.24									
095	0.55	.22									
096	0.55	.16									
Avg	0.54										
231	0.54	-.06									
247	0.54	-.06									
009	0.54	-.23									
230	0.54	-.29									
296	0.53	-.50									
035	0.52	-.61									
255	0.51	-.92									
363	0.51	-1.09									
291	0.50	-1.32									
292	0.50	-1.32									
027	0.50	-1.32									
354	0.49	-1.51									
Meth: 151.30 PPM											
Arsenic											
ICP											
390	12.20 s	2.44									
368	12.00 R	1.87									
009	10.10	1.10									
037	9.08	.74									
102	7.72	.25									
Avg	7.04										
247	6.64	-.14									
230	6.82	-.42									
393	1.86	-1.87									
Meth: 151.99 PPM											
Arsenic											
Other											
231	8.50	.71									
Meth: 151.XX PPM											
Arsenic											
390	12.20 s	2.54									
368	12.00 R	1.89									
009	10.10	1.06									
037	9.08	.66									
231	8.50	.44									
136	7.80	.16									
102	7.72	.14									
Avg	7.39										
247	6.64	-.29									
230	6.82 R	-.50									

* 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: 151.XX PPM														
<u>Arsenic</u>														
393	1.86	-2.15										Meth: 202.XX PPM		
<u>Acid Soluble Boron</u>														
354	0.038	1.45										<u>Acid Soluble Cobalt</u>		
009	0.025	.60										102	2.53	.60
Avg	0.016											035	2.16	.28
422	0.015	-.35										057	2.17	.27
363	0.003	-.89										419	2.00	.08
232	0.001	-1.06										Avg	1.92	
Meth: 181.00 PPM														
<u>Cadmium</u>														
363	2.75	.86										232	1.76	-.19
Avg	2.35											247	0.23	-1.70
136	1.95	-.87										422	0.00	-1.92
Meth: 181.30 PPM														
<u>Atomic Absorption</u>														
043	0.0004	.00										Meth: 221.00 PCT		
428	0.1265	S .00										<u>Acid Soluble Copper</u>		
Avg	0.0004											<u>Atomic Absorption</u>		
Meth: 190.00 PCT														
<u>Water Soluble Chlori</u>														
037	57.55	.94										043	0.0004	.00
009	54.70	.66										428	0.1265	S .00
368	54.10	.59										Avg	0.0004	
419	52.50	.43										Meth: 221.30 PCT		
029	23.77	.67										<u>Acid Soluble Copper</u>		
057	23.36	.12										ICP		
028	23.37	.10										324	0.0065	2.71
Avg	23.33											354	0.0045	R 1.73
043	22.50	-1.28										422	0.0025	R .76
102	22.35	-1.52										232	0.0012	.08
Meth: 190.99 PCT														
<u>Water Soluble Chlori</u>														
393	30.83	-1.74										Avg	0.0010	
232	25.70	-2.25										402	0.0007	-.19
Meth: 191.99 PPM														
<u>Chromium</u>														
397	24.66	1.44										095	0.0003	-.37
460	23.00	.21										419	0.0003	-.37
Avg	22.74											433	0.0001	-.45
368	21.87	-.67										057	0.0001	-.46
419	21.45	-.97										230	0.0001	-.47
Meth: 181.99 PPM														
<u>Cadmium</u>														
231	1.79	.71										368	0.0001	-.48
Meth: 191.00 PCT														
<u>Water Soluble Chlori</u>														
397	24.66	1.60										Meth: 202.99 PPM		
422	24.08	1.00										<u>Acid Soluble Cobalt</u>		
Meth: 191.99 PPM														
<u>Chromium</u>														
231	61.61	1.20										231	0.0001	-.71
037	57.55	.81										Other		
009	54.70	.53										Meth: 202.99 PPM		
Meth: 191.99 PPM														
<u>Chromium</u>														
231	61.61	1.20										<u>Acid Soluble Cobalt</u>		
037	57.55	.81										231	2.84	.71
009	54.70	.53										Other		
Meth: 191.99 PPM														
<u>Chromium</u>														
231	61.61	1.20										Meth: 202.99 PPM		
037	57.55	.81										<u>Acid Soluble Cobalt</u>		
009	54.70	.53										231	2.84	.71
Meth: 191.99 PPM														
<u>Chromium</u>														
231	61.61	1.20										231	2.84	.71
037	57.55	.81										Other		
009	54.70	.53										Meth: 202.99 PPM		
Meth: 191.99 PPM														
<u>Chromium</u>														
231	61.61	1.20										<u>Acid Soluble Cobalt</u>		
037	57.55	.81										231	2.84	.71
009	54.70	.53										Other		

* 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.XX PCT											
<u>Acid Soluble Copper</u>											
428	0.1265 s	68.35									
324	0.0065	3.04									
354	0.0045 R	1.97									
422	0.0025 R	.91									
232	0.0012	.16									
Meth: 241.30 PCT											
<u>Acid Soluble Iron</u>											
232	0.05 s	-19.30									
Meth: 241.XX PCT											
<u>Acid Soluble Iron</u>											
354	0.75	1.84									
035	0.75	1.82									
422	0.71	.83									
131	0.70	.33									
390	0.71	.29									
096	0.71	.26									
363	0.70	.17									
Avg	0.70										
247	0.69	-.28									
105	0.69	-.36									
057	0.69	-.66									
009	0.67	-.78									
291	0.67	-1.10									
102	0.65	-1.54									
232	0.05 s	-20.92									
363	0.70	.63									
Meth: 241.00 PCT											
<u>Acid Soluble Iron</u>											
363	0.70	.63									
Avg	0.70										
105	0.69	-1.05									
Meth: 241.30 PCT											
<u>Acid Soluble Iron</u>											
354	0.75	1.69									
035	0.75	1.67									
422	0.71	.77									
131	0.70	.30									
390	0.71	.26									
096	0.71	.24									
Avg	0.70										
247	0.69	-.26									
057	0.69	-.61									
009	0.67	-.73									
291	0.67	-1.02									
102	0.65	-1.43									
Meth: 251.00 PCT											
<u>Acid Soluble Manganese</u>											
422	0.020 s	5.39									
247	0.014	1.18									
009	0.014	.68									
096	0.014	.56									
035	0.013	.46									
131	0.013 R	.40									
102	0.013	.10									
Avg	0.013										
057	0.013	-.17									
354	0.012	-.65									
419	0.010	-2.16									
232	0.003 s	-7.29									
433	0.22	-.75									
Meth: 261.00 PCT											
<u>Acid Soluble Manganese</u>											
422	0.012	-.63									
363	0.012	-.88									
105	0.011 R	-1.88									
419	0.010	-2.24									
232	0.003 s	-7.69									
057	0.013	-.13									
354	0.012	-.63									
363	0.012	-.88									
105	0.011 R	-1.88									
419	0.010	-2.24									
232	0.003 s	-7.69									
057	0.013	-.13									
354	0.012	-.63									
363	0.012	-.88									
105	0.011 R	-1.88									
419	0.010	-2.24									
232	0.003 s	-7.69									
057	0.013	-.13									
354	0.012	-.63									
363	0.012	-.88									
105	0.011 R	-1.88									
419	0.010	-2.24									
232	0.003 s	-7.69									
057	0.013	-.13									
354	0.012	-.63									
363	0.012	-.88									
105	0.011 R	-1.88									
419	0.010	-2.24									
232	0.003 s	-7.69									
057	0.013	-.13									
354	0.012	-.63									
363	0.012	-.88									
105	0.011 R	-1.88									
419	0.010	-2.24									
232	0.003 s	-7.69									
057	0.013	-.13									
354	0.012	-.63									
363	0.012	-.88									
105	0.011 R	-1.88									
419	0.010	-2.24									
232	0.003 s	-7.69									
057	0.013	-.13									
354	0.012	-.63									
363	0.012	-.88									
105	0.011 R	-1.88									
419	0.010	-2.24									
232	0.003 s	-7.69									
057	0.013	-.13									
354	0.012	-.63									
363	0.012	-.88									
105	0.011 R	-1.88									
419	0.010	-2.24									
232	0.003 s	-7.69									
057	0.013	-.13									
354	0.012	-.63									
363	0.012	-.88									
105	0.011 R	-1.88									
419	0.010	-2.24									
232	0.003 s	-7.69									
057	0.013	-.13									
354	0.012	-.63									
363	0.012	-.88									
105	0.011 R	-1.88									
419	0.010	-2.24									
232	0.003 s	-7.69									
057	0.013	-.13									
354	0.012	-.63									
363	0.012	-.88									
105	0.011 R	-1.88									
419	0.010	-2.24									
232	0.003 s	-7.69									
057	0.013	-.13									
354	0.012	-.63									
363	0.012	-.88									
105	0.011 R	-1.88									
419	0.010	-2.24									
232	0.003 s	-7.69									
057	0.013	-.13									
354	0.012	-.63									
363	0.012	-.88									
105	0.011 R	-1.88									
419	0.010	-2.24									
232	0.003 s	-7.69									
057	0.013	-.13									
354	0.012	-.63									
363	0.012	-.88									
105	0.011 R	-1.88									
419	0.010	-2.24									
232	0.003 s	-7.69									
057	0.013	-.13									
354	0.012	-.63									
363	0.012	-.88									
105	0.011 R	-1.88									
419	0.010	-2.24									
232	0.003 s	-7.69									
057	0.013	-.13									
354	0.012	-.63									
363	0.012	-.88									
105	0.011 R	-1.88									
419	0.010	-2.24									
232	0.003 s	-7.69									
057	0.013	-.13									
354	0.012	-.63									
363	0.012	-.88									
105	0.011 R	-1.88									
419	0.010	-2.24									
232	0.003 s	-7.69									
057	0.013	-.13									
354	0.012	-.63									
363	0.012	-.88									
105	0.011 R	-1.88									
419	0.010	-2.24									
232	0.003 s	-7.69									
057	0.013	-.13									
354	0.012	-.63									
363	0.012	-.88									
105	0.011 R	-1.88									
419	0.010	-2.24									
232	0.003 s	-7.69									
057	0.013	-.13									
354	0.012	-.63									
363	0.012	-.88									
105	0.011 R	-1.88									
419	0.010	-2.24									
232	0.003 s	-7.69									
057	0.013	-.13									
354	0.012	-.63									
363	0.012	-.88									
105	0.011 R	-1.88									
419	0.010	-2.24									
232	0.003 s	-7.69									
057	0.013	-.13									
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354	0.012	-.63									
363	0.012	-.88									
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419	0.010	-2.24									
232	0.003 s	-7.69									
057	0.013	-.13									
354	0.012	-.63									
363	0.012	-.88									
105	0.011 R	-1.88									
419	0.010	-2.24									

Laboratory Averages & Accuracy Indexes

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

Meth: 291.30 PPM

Nickel	
ICP	
096	9.50
037	9.90
419	9.35
009	9.20
368	8.70
Avg	8.60
102	8.51
393	8.38
247	7.81
027	6.92
230	7.78

Meth: 301.30 PPM

Selenium	
ICP	
393	7.72
Avg	3.26
368	1.05
232	1.02
Meth: 301.99 PPM	
Selenium	
Other	
231	2.92

Meth: 321.30 PCT

Acid Soluble Zinc	
ICP	
422	0.020 s
368	0.010 R
232	0.010
255	0.006 R
037	0.003
433	0.003
Avg	0.003
324	0.003
402	0.003
095	0.003
096	0.003
009	0.002
354	0.003
057	0.002
027	0.002
419	0.003 R
102	0.002
230	0.002
363	0.002

Meth: 321.XX PCT

Acid Soluble Zinc	
ICP	
354	0.003
027	0.002
043	0.002
105	0.002
102	0.002
363	0.002
230	0.002

Meth: 291.99 PPM

Nickel	
Other	
231	9.47

Meth: 301.XX PPM

Selenium	
ICP	
393	7.72
Avg	3.18
231	2.92
368	1.05
232	1.02

Meth: 325.30 PCT

Water Soluble Zinc	
ICP	
393	0.049
Avg	0.025
247	0.001

Meth: 321.XX PCT

Acid Soluble Zinc	
ICP	
428	0.240 s
422	0.020 s
368	0.010 R
232	0.010
255	0.006 R
419	0.003 R
037	0.003
433	0.003
Avg	0.003
402	0.003
324	0.003
095	0.003
096	0.003
009	0.002
354	0.003
057	0.002
027	0.002
419	0.003 R
102	0.002
230	0.002
363	0.002

Meth: 291.XX PPM

Nickel	
Other	
232	13.90 s
390	10.66 s
035	10.57 R
096	9.50
037	9.90
231	9.47
419	9.35
009	9.20
Avg	8.77
368	8.70
102	8.51
393	8.38
247	7.81
027	6.92
230	7.78 R

Meth: 311.99 PCT

Sodium	
Other	
102	0.72
422	0.72
363	0.72
009	0.69
Avg	0.66
057	0.65
035	0.65
232	0.46

Meth: 321.XX PCT

Acid Soluble Zinc	
ICP	
428	0.240 s
422	0.020 s
368	0.010 R
232	0.010
255	0.006 R
419	0.003 R
037	0.003
433	0.003
Avg	0.003
402	0.003
324	0.003
095	0.003
096	0.003
009	0.002
354	0.003
057	0.002
027	0.002
419	0.003 R
102	0.002
230	0.002
363	0.002

Meth: 321.XX PCT

Acid Soluble Zinc	
ICP	
428	0.240 s
422	0.020 s
368	0.010 R
232	0.010
255	0.006 R
419	0.003 R
037	0.003
433	0.003
Avg	0.003
402	0.003
324	0.003
095	0.003
096	0.003
009	0.002
354	0.003
057	0.002
027	0.002
419	0.003 R
102	0.002
230	0.002
363	0.002

* 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	5	0.00	1.04	0.20	060.XX	6	0.00	1.05	0.01
001.99	11	0.00	1.02	0.12	101.30	13	23.65	78.83	0.49
001.XX	16	0.00	1.01	0.14	101.XX	14	21.04	72.74	0.46
002.99	3	0.00	0.92	0.52	121.30	13	5.14	18.33	0.33
002.XX	3	0.00	0.92	0.52	121.XX	14	4.44	17.80	0.32
009.10	5	0.00	1.03	0.22	144.01	10	5.39	14.31	0.77
009.XX	5	0.00	1.03	0.22	144.99	21	5.97	17.13	0.98
010.11	10	- 0.51	1.87	0.30	144.XX	29	6.73	21.39	3.15
010.12	2	0.00	1.20	0.18	151.30	8	0.46	1.21	0.61
010.60	48	- 0.01	1.30	0.62	151.XX	10	0.34	1.16	0.59
010.99	4	- 0.50	0.94	1.22	165.99	5	0.000	1.040	0.184
010.XX	62	- 0.06	1.23	0.69	165.XX	5	0.000	1.040	0.184
020.10	5	0.00	0.90	0.50	181.00	2	0.00	1.22	0.09
020.20	19	- 0.38	1.86	0.48	181.30	8	1.21	5.21	0.71
020.40	9	- 0.14	1.01	0.96	181.XX	11	0.46	1.80	0.24
020.50	10	0.00	0.96	0.34	190.00	7	0.00	1.04	0.08
020.99	2	0.00	0.00	0.00	190.99	4	0.00	1.08	0.07
020.XX	44	0.11	2.91	0.47	190.XX	11	0.00	1.02	0.08
030.XX	4	0.00	1.06	0.17	191.30	12	- 0.03	0.98	0.23
040.99	2	0.00	0.10	0.86	191.XX	13	- 0.04	0.98	0.22
040.XX	5	0.00	1.06	0.05	202.30	10	0.04	0.98	0.20
041.10	13	0.04	0.96	0.36	202.XX	11	0.03	0.97	0.19
041.20	4	0.00	1.06	0.19	221.00	2	0.0000	0.0000	0.0000
041.40	5	0.00	1.00	0.33	221.30	11	0.2210	1.0676	0.1082
041.50	10	0.00	1.02	0.13	221.XX	14	5.0583	18.146	1.8407
041.60	10	- 10.60	33.54	0.60	241.00	2	0.00	0.86	0.62
041.99	2	- 36.34	51.39	35.56	241.30	12	- 1.61	5.64	0.40
041.XX	35	- 2.44	12.07	2.02	241.XX	14	- 1.49	5.66	0.41
048.20	3	0.00	1.12	0.07	251.30	6	0.10	0.98	0.25
048.XX	3	0.00	1.12	0.07	251.XX	8	1.18	3.18	0.26
050.00	13	- 0.60	2.35	0.29	261.30	11	- 0.143	2.991	0.090
050.30	8	0.65	2.08	0.22	261.XX	13	- 0.288	2.948	0.143
050.50	8	1.20	2.40	0.41	289.30	13	0.04	0.93	1.37
050.51	7	- 0.28	1.14	0.97	289.99	2	0.00	1.22	0.01
050.60	5	0.00	1.02	0.26	289.XX	15	0.04	0.95	0.76
050.61	10	- 0.99	3.28	0.30	291.30	13	0.62	1.53	1.07
050.99	18	- 0.93	4.00	0.68	291.XX	14	0.55	1.66	1.17
050.XX	64	- 0.14	2.60	0.47	301.30	3	0.00	1.12	0.06
060.00	4	0.00	1.08	0.07	301.XX	4	0.00	1.08	0.07

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
311.99	7	0.00	1.03	0.11					
311.XX	7	0.00	1.03	0.11					
321.00	3	792.00	1371.7	44.171					
321.30	18	0.756	2.337	0.233					
321.XX	21	6.777	27.806	0.929					
325.30	2	0.000	1.224	0.025					