

- Pass 1 Results for 82 Labs - - Pass 2 Results for 80 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	8	18.26	0.16	0.08	8	18.26	0.16	0.08
Ammoniacal Nitrogen, Other .....		001.99	13	18.23	0.19	0.07	13	18.23	0.19	0.07
Method Group 001.XX PCT			21	18.24	0.17	0.08	21	18.24	0.17	0.08
Ammon & Nitrate N, Devarda .....	892.01	009.10	3	18.20	0.07	0.10	3	18.20	0.07	0.10
Total Nitrogen, Modified Comprehensive	978.02	010.11	8	18.36	0.27	0.05	8	18.36	0.27	0.05
Total Nitrogen, Salicylic .....	955.04D	010.12	5	18.22	0.25	0.01	5	18.22	0.25	0.01
Total Nitrogen, Raney .....	970.03	010.16	1	18.25	0.07	0.10	1	18.25	0.07	0.10
Total Nitrogen, Comprehensive .....	970.02	010.17	1	18.31	0.00	0.00	1	18.31	0.00	0.00
Total Nitrogen, Combustion .....		010.60	44	18.31	0.17	0.08	43	18.31	0.17	0.08
Total Nitrogen, Other .....		010.99	3	18.13	0.15	0.09	3	18.13	0.15	0.09
Method Group 010.XX PCT			62	18.30	0.19	0.07	60	18.30	0.20	0.06
Total Phosphate, Grav Quimociac .....	962.02	020.10	8	46.57	0.28	0.12	8	46.57	0.28	0.12
Total Phosphate, Spectrometric .....	958.01	020.20	17	46.56	0.50	0.22	17	46.56	0.50	0.22
Total Phosphate, Alka Quimociac .....	969.02	020.30	1	46.63	0.04	0.05	1	46.63	0.04	0.05
Total Phosphate, Automated .....	978.01	020.40	9	46.68	0.50	0.15	9	46.68	0.50	0.15
Total Phosphate, ICP .....		020.50	4	46.32	0.99	0.88	3	46.22	0.68	0.19
Method Group 020.XX PCT			39	46.57	0.52	0.25	38	46.57	0.47	0.18
Insoluble Phosphate, Grav Quimociac ...	963.03C	030.10	1	0.10	0.01	0.01	1	0.10	0.01	0.01
Insoluble Phosphate, Spectrometric ....	963.03C	030.20	1	0.03	0.02	0.03	1	0.03	0.02	0.03
Insoluble Phosphate, Automated .....	978.01	030.40	1	0.12	0.03	0.04	1	0.12	0.03	0.04
Method Group 030.XX PCT			3	0.08	0.05	0.03	3	0.08	0.05	0.03
InDir Available Phosphate, Grav Quim ..	960.02	040.10	1	46.77	0.06	0.09	1	46.77	0.06	0.09
InDir Available Phosphate, Spectrometri	960.02	040.20	1	46.85	0.04	0.05	1	46.85	0.04	0.05
InDir Available Phosphate, Automated ..	960.02	040.40	1	46.60	0.16	0.22	1	46.60	0.16	0.22
InDir Available Phosphate, Other .....		040.99	3	46.82	0.27	0.22	3	46.82	0.27	0.22
Method Group 040.XX PCT			6	46.78	0.21	0.17	6	46.78	0.21	0.17
Dir Available Phosphate, Grav Quimociac	960.03E	041.10	17	46.83	0.43	0.21	15	46.80	0.37	0.07
Dir Available Phosphate, Spectrometric	960.03D	041.20	4	46.30	0.36	0.28	4	46.30	0.36	0.28
Dir Available Phosphate, Alka Quim ....	960.03C	041.30	1	46.65	0.04	0.06	1	46.65	0.04	0.06
Dir Available Phosphate, Automated ....	978.01	041.40	5	46.08	0.81	0.10	5	46.08	0.81	0.10
Dir Available Phosphate, ICP .....		041.50	7	46.41	0.66	0.25	6	46.53	0.59	0.10
Dir Available Phosphate, EDTA Extract .	993.01	041.60	13	46.63	0.52	0.24	12	46.65	0.51	0.18
Dir Available Phosphate, Other .....		041.99	1	45.60	0.08	0.12	1	45.60	0.08	0.12
Method Group 041.XX PCT			48	46.56	0.59	0.21	44	46.57	0.56	0.13
Water Soluble Phosphate, Spectrometric	970.01	048.20	3	44.48	0.31	0.34	3	44.48	0.31	0.34
Water Soluble Phosphate, Other .....		048.99	1	44.38	0.08	0.11	1	44.38	0.08	0.11
Method Group 048.XX PCT			4	44.45	0.27	0.29	4	44.45	0.27	0.29
Soluble Potash, STPB Oxalate .....	958.02	050.00	21	60.24	0.67	0.16	20	60.22	0.67	0.13
Soluble Potash, STPB Citrate .....	969.04	050.10	2	59.78	0.13	0.15	2	59.78	0.13	0.15

MAGRUDER - Fertilizer Check Sample No. - 200306 Grade 18-46-0(A) 0-0-60(B)

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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, AA (Oxalate)		050.30	12	60.57	1.09	0.25	11	60.61	1.12	0.19
Soluble Potash, ICP (Oxalate)		050.50	6	60.42	0.98	1.02	6	60.42	0.98	1.02
Soluble Potash, ICP (Citrate)		050.51	6	59.85	0.71	0.29	6	59.85	0.71	0.29
Soluble Potash, Flame (Oxalate)	983.02(a)	050.60	6	60.51	0.43	0.55	6	60.51	0.43	0.55
Soluble Potash, Flame (Citrate)	983.02(b)	050.61	6	60.41	0.82	0.48	6	60.41	0.82	0.48
Soluble Potash, Other		050.99	10	60.58	1.29	0.59	9	60.54	1.09	0.14
Method Group 050.XX PCT			69	60.35	0.90	0.39	66	60.35	0.85	0.27
Free Water, Vacuum Oven	965.08B	060.00	6	1.13	0.08	0.07	6	1.13	0.08	0.07
Acid Soluble Calcium, AA	945.04	101.00	1	1.60	0.00	0.00	1	1.60	0.00	0.00
Acid Soluble Calcium, ICP		101.30	9	1.44	0.16	0.04	8	1.43	0.16	0.02
Method Group 101.XX PCT			10	1.46	0.16	0.04	9	1.45	0.16	0.02
Acid Soluble Magnesium, AA	984.01	121.00	2	0.81	0.46	0.01	2	0.81	0.46	0.01
Acid Soluble Magnesium, ICP		121.30	10	0.54	0.30	0.01	10	0.54	0.30	0.01
Method Group 121.XX PCT			12	0.58	0.34	0.01	12	0.58	0.34	0.01
Water Soluble Magnesium, AA		131.00	1	0.11	0.01	0.01	1	0.11	0.01	0.01
Sulfur, Gravimetric	980.02a	144.01	2	1.94	0.08	0.12	2	1.94	0.08	0.12
Sulfur, Spectrometric		144.70	1	1.52	0.00	0.00	1	1.52	0.00	0.00
Sulfur, Other		144.99	7	1.71	0.05	0.04	7	1.71	0.05	0.04
Method Group 144.XX PCT			10	1.74	0.13	0.05	9	1.71	0.11	0.04
Arsenic, Atomic Absorption		151.00	1	17.50	0.71	1.00	1	17.50	0.71	1.00
Arsenic, ICP		151.30	7	21.34	9.53	0.93	7	21.34	9.53	0.93
Arsenic, Other		151.99	3	20.30	3.76	1.10	3	20.30	3.76	1.10
Method Group 151.XX PPM			11	20.71	7.81	0.98	10	18.43	2.74	0.88
Acid Soluble Boron, Other		165.99	3	0.025	0.016	0.001	3	0.025	0.016	0.001
Cadmium, Atomic Absorption		181.00	2	27.74	5.49	0.58	2	27.74	5.49	0.58
Cadmium, ICP		181.30	12	26.40	2.06	0.28	11	26.39	2.15	0.21
Cadmium, Other		181.99	4	28.71	3.15	1.94	4	28.71	3.15	1.94
Method Group 181.XX PPM			18	27.06	2.88	0.68	16	27.07	3.00	0.42
Water Soluble Chlorine, Other		190.99	1	0.03	0.00	0.00	1	0.03	0.00	0.00
Chromium, Atomic Absorption		191.00	1	348.50	3.54	5.00	1	348.50	3.54	5.00
Chromium, ICP		191.30	10	290.56	23.21	5.70	10	290.56	23.21	5.70
Chromium, Other		191.99	1	286.50	12.02	17.00	1	286.50	12.02	17.00
Method Group 191.XX PPM			12	295.05	26.91	6.58	12	295.05	26.91	6.58
Acid Soluble Cobalt, ICP	965.11	202.30	12	1.13	0.30	0.14	10	1.07	0.25	0.04
Acid Soluble Cobalt, Other		202.99	2	1.20	0.34	0.30	2	1.20	0.34	0.30
Method Group 202.XX PPM			14	1.14	0.30	0.17	12	1.08	0.25	0.08
Acid Soluble Copper, Atomic Absorption	975.01	221.00	1	0.0040	0.0000	0.0000	1	0.0040	0.0000	0.0000
Acid Soluble Copper, ICP		221.30	6	0.0042	0.0004	0.0002	6	0.0042	0.0004	0.0002
Method Group 221.XX PCT			7	0.0042	0.0004	0.0002	6	0.0042	0.0004	0.0001

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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
Acid Soluble Iron, Atomic Absorption ..	980.01	241.00	2	0.47	0.26	0.00	2	0.47	0.26	0.00
Acid Soluble Iron, ICP .....		241.30	9	0.24	0.01	0.00	8	0.24	0.01	0.00
Acid Soluble Iron, Other .....		241.99	1	0.32	0.02	0.03	1	0.32	0.02	0.03
Method Group 241.XX PCT			12	0.29	0.13	0.01	9	0.24	0.01	0.00
Lead, ICP .....		251.30	5	1.90	0.35	0.06	5	1.90	0.35	0.06
Lead, Other .....		251.99	3	2.07	1.50	0.15	3	2.07	1.50	0.15
Method Group 251.XX PPM			8	1.96	0.91	0.09	7	1.67	0.47	0.05
Acid Soluble Manganese, AA .....	972.02a	261.00	1	0.002	0.000	0.000	1	0.002	0.000	0.000
Acid Soluble Manganese, ICP .....	972.02a	261.30	7	0.002	0.000	0.000	7	0.002	0.000	0.000
Method Group 261.XX PCT			9	0.006	0.009	0.000	8	0.002	0.000	0.000
Water Soluble Manganese, Other .....		271.99	1	0.028	0.001	0.001	1	0.028	0.001	0.001
Mercury, ICP .....		281.30	2	19.42	22.32	0.55	2	19.42	22.32	0.55
Molybdenum, ICP .....		289.30	8	4.06	0.37	0.23	8	4.06	0.37	0.23
Molybdenum, Other .....		289.99	2	4.50	0.58	0.10	2	4.50	0.58	0.10
Method Group 289.XX PPM			10	4.15	0.44	0.20	10	4.15	0.44	0.20
Nickel, Atomic Absorption .....		291.00	1	38.00	1.41	2.00	1	38.00	1.41	2.00
Nickel, ICP .....		291.30	10	42.55	4.14	0.82	9	42.12	4.10	0.58
Nickel, Other .....		291.99	2	41.48	0.99	1.15	2	41.48	0.99	1.15
Method Group 291.XX PPM			13	42.04	3.84	0.96	13	42.04	3.84	0.96
Selenium, ICP .....		301.30	1	0.13	0.01	0.01	1	0.13	0.01	0.01
Selenium, Other .....		301.99	2	0.25	0.06	0.03	2	0.25	0.06	0.03
Method Group 301.XX PPM			3	0.21	0.08	0.02	3	0.21	0.08	0.02
Sodium, Flame Photometric .....	974.01	311.30	1	0.41	0.01	0.01	1	0.41	0.01	0.01
Sodium, Other .....		311.99	4	0.42	0.01	0.01	4	0.42	0.01	0.01
Method Group 311.XX PCT			5	0.42	0.01	0.01	5	0.42	0.01	0.01
Acid Soluble Zinc, Atomic Absorption ..	975.02	321.00	2	0.072	0.039	0.000	2	0.072	0.039	0.000
Acid Soluble Zinc, ICP .....		321.30	8	0.043	0.002	0.001	8	0.043	0.002	0.001
Method Group 321.XX PCT			11	0.045	0.022	0.001	10	0.045	0.023	0.000
Water Soluble Zinc, Atomic Absorption .		325.00	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	Lab	Average*	Index
Meth: 001.10 PCT			Meth: 001.XX PCT			Meth: 010.12 PCT			Meth: 010.60 PCT			Meth: 010.99 PCT		
<u>Ammoniacal Nitrogen</u>			<u>Ammoniacal Nitrogen</u>			<u>Total Nitrogen</u>			<u>Total Nitrogen</u>			<u>Total Nitrogen</u>		
<u>MgO Distillation</u>			289 18.34 .56			<u>Salicylic</u>			<u>Combustion</u>			<u>Other</u>		
415	18.50	1.50	416	18.33	.51	137	18.52	1.17	025	18.42	.64	200	18.26	.84
288	18.43	1.08	193	18.31	.44	351	18.49	1.06	037	18.42	.60	368	18.19	.55
416	18.33	.45	105	18.30	.33	Avg	18.22		275	18.35	.47	Avg	18.13	
029	18.30	.21	029	18.30	.29	185	18.16	-.28	324	18.38	.45	420	17.95	-1.22
Avg	18.26		419	18.25	.29	254	18.00	-.89	041	18.39	.45			
351	18.18	-.52	Avg	18.24		102	17.96	-1.07	040	18.38	.44	Meth: 010.XX PCT		
040	18.20	-.76	351	18.18	-.35	Meth: 010.16 PCT			376	18.32	.38	<u>Total Nitrogen</u>		
324	18.13	-.92	200	18.17	-.42	Total Nitrogen			131	18.37	.35	292	19.47 s	5.97
232	18.05	-1.47	376	18.19	-.51	<u>Raney</u>			106	18.37	.33	007	19.03 s	4.43
262	17.40 s	-5.56	040	18.20	-.63	419 18.25 .71			247	18.37	.30	354	18.95 s	3.41
Meth: 001.99 PCT			324	18.13	-.71	Meth: 010.17 PCT			034	18.32	.20	415	18.86	2.85
<u>Ammoniacal Nitrogen</u>			393	18.14	-.75	Total Nitrogen			029	18.34	.19	022	18.58	1.50
<u>Other</u>			232	18.05	-1.20	<u>Comprehensive</u>			Avg	18.31		049	18.54	1.23
096	18.42	1.01	368	18.00	-1.43	405 18.31 .00			142	18.31	-.17	377	18.53	1.17
409	18.40	.91	418	17.77	-2.75	Meth: 010.60 PCT			234	18.29	-.19	028	18.52	1.12
320	18.39	.87	262	17.40 s	-4.84	Total Nitrogen			296	18.26	-.31	137	18.52	1.09
397	18.35	.73	Meth: 009.10 PCT			Combustion			409	18.26	-.35	070	18.50	1.06
289	18.34	.58	Ammon & Nitrate N			292 19.47 s 6.69			325	18.23	-.51	035	18.51	1.04
193	18.31	.47	<u>Devarda</u>			007 19.03 s 4.96			372	18.21	-.60	095	18.50	1.02
105	18.30	.37	391	18.23	1.15	022 18.58 1.63			157	18.16	-.89	288	18.49	.95
419	18.25	.28	392	18.23	.46	049 18.54 1.32			262	18.15	-.99	351	18.49	.94
Avg	18.23		Avg	18.20		377 18.53 1.25			393	18.15	-1.11	211	18.49	.94
200	18.17	-.33	257	18.15	-.98	028 18.52 1.20			027	18.12	-1.18	055	18.47	.87
376	18.19	-.44	Meth: 010.11 PCT			070 18.50 1.13			177	18.09	-1.29	073	18.45	.82
393	18.14	-.65	Total Nitrogen			035 18.51 1.11			233	18.08	-1.36	330	18.35 R	.81
368	18.00	-1.27	<u>Modified Comprehensive</u>			095 18.50 1.08			009	18.08	-1.39	136	18.46	.79
418	17.77	-2.50	415	18.86	1.89	055 18.47 .91			360	18.08	-1.49	023	18.45	.77
Meth: 001.XX PCT			288	18.49	.49	330 18.35 R .89			043	18.04	-1.65	096	18.44	.72
<u>Ammoniacal Nitrogen</u>			211	18.49	.49	073 18.45 .86			369	18.02	-1.81	361	18.43	.66
415	18.50	1.44	105	18.39	.17	136 18.46 .82			086	17.90	-2.43	390	18.32 R	.64
288	18.43	1.07	029	18.36	.11	023 18.45 .80			042	18.00 s	-3.41	025	18.42	.63
096	18.42	1.01	Avg	18.36		096 18.44 .74			389	17.40 s	-5.31	037	18.42	.59
409	18.40	.91	090	18.19	-.64	390 18.32 .72			Meth: 010.99 PCT			105	18.39	.46
320	18.39	.87	322	18.14	-.82	361 18.43 .68			Total Nitrogen			041	18.39	.46
397	18.35	.73	414	17.95 X	-1.52	354 18.95 S 5.40			Other			324	18.38	.45
* X=Excluded from lab performance			S/s=Screened Outlier			R=Duplicate Range too large			A=Analysis beyond 3-s limits			275	18.35	.44
												040	18.38	.44

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 010.XX PCT			Meth: 020.10 PCT			Meth: 020.40 PCT			Meth: 020.XX PCT			Meth: 030.40 PCT		
<u>Total Nitrogen</u>			<u>Total Phosphate</u>			<u>Total Phosphate</u>			<u>Total Phosphate</u>			<u>Insoluble Phosphate</u>		
131	18.37	.37	<u>Grav Quimociac</u>			<u>Automated</u>			320	46.80	.49	<u>Automated</u>		
106	18.37	.35	090	46.86	1.05	042	47.50	1.69	247	46.75	.39	096	0.12	.71
376	18.32	.34	086	46.80	.85	193	46.98	.75	096	46.72	.38	Meth: 030.XX PCT		
029	18.36	.34	095	46.80	.82	035	46.81	.39	288	46.67	.34	<u>Insoluble Phosphate</u>		
247	18.37	.33	105	46.67	.56	320	46.80	.24	105	46.67	.34	096	0.12	.95
029	18.34	.21	414	46.63	.33	096	46.72	.20	409	46.72	.32	090	0.10	.34
034	18.32	.19	Avg	46.57		247	46.75	.15	234	46.71	.31	Avg	0.08	
142	18.31	.16	405	46.39	-.69	409	46.72	.08	418	46.60	.25	247	0.03	-1.22
405	18.31	.04	114	46.34	-.86	Avg	46.68		414	46.63	.20	Meth: 040.10 PCT		
Avg	18.30		157	46.05	-1.83	376	46.05	-1.28	416	46.63	.14	<u>InDir Available Phos</u>		
234	18.29	-.11	313	40.10 s	-22.82	393	45.80	-1.78	142	46.57	.11	<u>Grav Quim</u>		
296	18.26	-.22	Meth: 020.20 PCT			Meth: 020.50 PCT			Avg	46.57		405	46.39	-.41
200	18.26	-.23	<u>Total Phosphate</u>			<u>Total Phosphate</u>			405	46.39	-.41	391	46.33	-.49
409	18.26	-.26	<u>Spectrometric</u>			<u>ICP</u>			391	46.33	-.49	090	46.77	.71
419	18.25	-.37	420	47.61	2.14	368	46.63 R	2.25	114	46.34	-.51	Meth: 040.20 PCT		
325	18.23	-.39	232	47.22	1.33	361	47.07	1.24	369	46.38	-.62	<u>InDir Available Phos</u>		
372	18.21	-.47	362	47.04	.96	Avg	46.22		324	46.24	-.71	<u>Spectrometri</u>		
090	18.19	-.60	257	46.65	.73	389	45.95	-.41	392	46.22	-.75	289	46.85	.71
368	18.19	-.68	397	46.86	.63	393	45.66	-.89	292	46.16	-.88	Meth: 040.40 PCT		
157	18.16	-.72	390	46.76	.49	330	45.85 S	-3.06	157	46.05	-1.10	<u>InDir Available Phos</u>		
185	18.16	-.75	288	46.67	.32	Meth: 020.XX PCT			376	46.05	-1.10	<u>Automated</u>		
262	18.15	-.81	234	46.71	.30	<u>Total Phosphate</u>			372	46.03	-1.15	096 46.60 .71		
322	18.14	-.84	418	46.60	.24	368	46.63 R	3.12	389	45.95	-1.31	Meth: 040.99 PCT		
393	18.15	-.93	142	46.57	.10	420	47.61	2.24	393	45.66	-1.98	<u>InDir Available Phos</u>		
027	18.12	-.98	Avg	46.56		042	47.50	2.00	262	45.55	-2.21	041 47.10 1.11		
177	18.09	-1.08	391	46.33	-.47	232	47.22	1.39	330	45.85 s	-4.60	Avg 46.82		
233	18.08	-1.14	369	46.38	-.59	361	47.07	1.06	313	40.10 s	-13.69	247 46.72 -.40		
009	18.08	-1.16	324	46.24	-.67	362	47.04	1.00	Meth: 030.10 PCT			409 46.63 -1.05		
360	18.08	-1.26	392	46.22	-.71	193	46.98	.99	<u>Insoluble Phosphate</u>					
043	18.04	-1.40	292	46.16	-.83	257	46.65	.76	<u>Grav Quimociac</u>					
254	18.00	-1.54	372	46.03	-1.09	397	46.86	.66	090	0.10	.71			
369	18.02	-1.54	262	45.55	-2.10	090	46.86	.63	Meth: 030.20 PCT					
102	17.96	-1.76	Meth: 020.30 PCT			035	46.81	.60	<u>Insoluble Phosphate</u>					
414	17.95 X	-1.80	<u>Total Phosphate</u>			086	46.80	.51	<u>Spectrometric</u>					
420	17.95	-1.81	<u>Alka Quimociac</u>			390	46.76	.51	Avg 46.78					
086	17.90	-2.08	416	46.63	.71	095	46.80	.50	Meth: 040.XX PCT					
042	18.00 s	-2.98	S/s=Screened Outlier			R=Duplicate Range too large			A=Analysis beyond 3-s limits					
389	17.40 s	-4.63												

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 040.XX PCT			Meth: 041.30 PCT			Meth: 041.60 PCT			Meth: 041.XX PCT			Meth: 048.99 PCT		
<u>InDir Available Phos</u>			Dir Available Phosph			Dir Available Phosph			<u>Dir Available Phosph</u>			Water Soluble Phosph		
090	46.77	-.23	<u>Alka Quim</u>			<u>EDTA Extract</u>			102	46.73	.29	<u>Other</u>		
247	46.72	-.36	260	46.65	.71	177	46.44	-.42	073	46.59	.29	096	44.38	.71
096	46.60	-1.01	Meth: 041.40 PCT			288	46.43	-.45	029	46.70	.24	Avg	44.38	
409	46.63	-1.24	Dir Available Phosph			397	46.50	-.57	260	46.65	.16	275	42.46 S	-24.94
Meth: 041.10 PCT			<u>Automated</u>			105	46.31 R	-1.15	Avg	46.57		Meth: 048.XX PCT		
Dir Available Phosph			034	46.84	.95	377	45.35	-2.53	414	46.51	-.11	<u>Water Soluble Phosph</u>		
<u>Grav Quimociac</u>			029	46.70	.77	Meth: 041.99 PCT			025	46.54	-.12	193	44.55	1.41
254	47.70	2.42	025	46.54	.58	Dir Available Phosph			106	46.50	-.12	247	44.65	.86
296	47.26 R	2.02	Avg	46.08		<u>Other</u>			325	46.46	-.20	Avg	44.45	
211	47.18	1.02	393	45.30	-.96	200	45.60	.71	177	46.44	-.23	096	44.38	-.36
009	47.04	.63	027	45.00	-1.32	Meth: 041.XX PCT			288	46.43	-.26	362	44.24	-.80
131	46.94	.37	Meth: 041.50 PCT			<u>Dir Available Phosph</u>			397	46.50	-.46	275	42.46 s	-7.54
029	46.91	.30	<u>ICP</u>			354	48.68 s	3.78	055	46.29	-.51	Meth: 050.00 PCT		
055	46.90	.27	354	48.68 S	3.63	254	47.70	2.02	137	46.24	-.58	<u>Soluble Potash</u>		
177	46.89	.26	009	47.40	1.47	296	47.26 R	1.62	322	46.13	-.78	<u>STPB Oxalate</u>		
Avg	46.80		360	47.14	1.02	009	47.40	1.48	419	46.15	-.79	095	61.25	1.56
233	46.77	-.10	Avg	46.53		105	46.78 R	1.37	023	46.06	-.97	102	61.18	1.44
040	46.75	-.18	325	46.46	-.12	043	47.33	1.36	105	46.31 R	-.97	391	61.10	1.32
185	46.75	-.20	361	46.30	-.39	095	47.23	1.18	362	45.98	-1.10	418	60.73 R	1.01
102	46.73	-.20	023	46.06	-.86	211	47.18	1.09	393	45.83	-1.32	416	60.73	.76
049	46.63	-.62	393	45.83	-1.18	360	47.14	1.02	200	45.60	-1.72	350	60.70	.72
414	46.51	-.81	007	45.73 R	-1.64	028	47.11	.98	007	45.73 R	-1.79	029	60.54	.48
137	46.24	-1.53	Meth: 041.60 PCT			009	47.04	.83	377	45.35	-2.16	043	60.42	.39
322	46.13	-1.82	Dir Available Phosph			131	46.94	.67	393	45.30	-2.25	372	60.40	.27
105	46.78 R	-2.00	<u>EDTA Extract</u>			029	46.91	.61	027	45.00	-2.78	055	60.33	.19
Meth: 041.20 PCT			043	47.33	1.31	055	46.90	.60	Meth: 048.20 PCT			049	60.29	.14
Dir Available Phosph			095	47.23	1.13	177	46.89	.58	<u>Water Soluble Phosph</u>			211	60.29	.11
<u>Spectrometric</u>			028	47.11	.90	034	46.84	.51	<u>Spectrometric</u>			Avg	60.22	
415	46.79	1.41	351	46.85	.51	351	46.85	.51	193	44.55	1.20	345	60.21	-.03
Avg	46.30		037	46.79	.45	415	46.79	.47	247	44.65	.68	090	60.19	-.05
055	46.29	-.20	296	46.72	.38	037	46.79	.45	Avg	44.48		414	60.03	-.30
419	46.15	-.59	233	46.77	.35	296	46.72	.38	362	44.24	-.78	296	60.00	-.33
362	45.98	-1.06	Avg	46.65		185	46.75	.33				131	59.89	-.56
			106	46.50	-.30	040	46.75	.32				392	59.83	-.58
			073	46.59	-.33	049	46.63	.30				257	59.20	-1.52

\* 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: 050.00 PCT			Meth: 050.50 PCT			Meth: 050.61 PCT			Meth: 050.XX PCT			Meth: 050.XX PCT		
Soluble Potash			Soluble Potash			Soluble Potash			<u>Soluble Potash</u>			<u>Soluble Potash</u>		
<u>STPB Oxalate</u>			<u>ICP (Oxalate)</u>			<u>Flame (Citrate)</u>			391 61.10 .89			322 59.83 -.61		
009 58.61 -2.40			106 60.91 .63			041 59.05 -1.66			106 60.91 .80			392 59.83 -.61		
			Avg 60.42						415 60.98 .79			390 60.21 -.74		
Meth: 050.10 PCT			324 60.18 -.51			Meth: 050.99 PCT			361 61.00 .77			234 59.72 -.74		
Soluble Potash			247 59.96 -.81			Soluble Potash			177 60.99 .76			136 59.72 -.76		
<u>STPB Citrate</u>			419 59.30 -1.16			<u>Other</u>			193 60.95 .73			377 59.70 -.77		
322 59.83 .43						330 60.97 R 2.18			418 60.73 .69			142 59.61 -.89		
Avg 59.78			Meth: 050.51 PCT			360 61.89 1.24			055 60.60 .46			247 59.96 R -.89		
136 59.72 -1.15			Soluble Potash			260 61.74 1.10			416 60.73 .45			023 59.61 -.92		
			<u>ICP (Citrate)</u>			025 61.64 1.00			028 60.71 .43			419 59.35 -1.25		
Meth: 050.30 PCT			361 61.00 1.61			177 60.99 .41			350 60.70 .42			419 59.30 -1.26		
Soluble Potash			393 60.03 .43			275 60.65 X .11			405 60.68 .42			257 59.20 -1.36		
<u>AA (Oxalate)</u>			389 60.00 .21			Avg 60.54			288 60.59 .39			233 59.15 -1.45		
073 65.69 s 4.94			Avg 59.85			325 59.98 -.52			275 60.65 X .36			041 59.05 -1.54		
369 62.45 1.63			377 59.70 -.26			376 59.86 -.63			029 60.54 .23			351 58.80 -1.83		
185 62.10 1.33			023 59.61 -.51			419 59.35 -1.14			043 60.42 .21			027 58.78 -1.84		
397 61.52 .82			368 58.78 -1.54			027 58.78 -1.61			200 60.48 .15			368 58.78 -1.87		
137 61.20 .55						289 56.27 s -4.80			372 60.40 .06			009 58.61 -2.05		
193 60.95 .33			Meth: 050.60 PCT			232 49.11 s -10.49			Avg 60.35			289 56.27 s -5.99		
405 60.68 .12			Soluble Potash						055 60.33 -.06			232 49.11 s -13.26		
Avg 60.61			<u>Flame (Oxalate)</u>			Meth: 050.XX PCT			211 60.29 -.07					
095 60.15 R -.55			415 60.98 1.19			<u>Soluble Potash</u>			049 60.29 -.10			Meth: 060.00 PCT		
157 59.86 -.67			055 60.60 .71			086 67.54 s 8.50			345 60.21 -.16			Free Water		
040 59.85 -.69			288 60.59 .54			073 65.69 s 6.84			090 60.19 -.19			<u>Vacuum Oven</u>		
234 59.72 -.79			Avg 60.51			330 60.97 R 2.86			029 60.11 -.29			362 1.17 1.45		
142 59.61 -.90			200 60.48 -.10			369 62.45 2.48			105 60.24 -.35			247 1.23 1.28		
351 58.80 -1.61			105 60.24 -.90			185 62.10 2.07			414 60.03 -.38			Avg 1.13		
			390 60.21 -1.57			360 61.89 1.82			389 60.00 -.41			361 1.12 -.16		
Meth: 050.31 PCT						260 61.74 1.65			296 60.00 -.42			007 1.11 -.29		
Soluble Potash			Meth: 050.61 PCT			354 60.73 R 1.53			325 59.98 -.44			320 1.10 -.42		
<u>AA (Citrate)</u>			Soluble Potash			025 61.64 1.52			393 60.03 -.48			416 1.05 -1.22		
086 67.54 S .00			<u>Flame (Citrate)</u>			397 61.52 1.40			095 60.15 X -.54					
			007 61.11 1.05			292 61.44 1.30			035 60.25 -.54			Meth: 101.00 PCT		
Meth: 050.50 PCT			034 61.22 1.01			095 61.25 1.09			324 60.18 -.55			Acid Soluble Calcium		
Soluble Potash			028 60.71 .37			007 61.11 1.08			376 59.86 -.57			<u>AA</u>		
<u>ICP (Oxalate)</u>			Avg 60.41			034 61.22 1.05			157 59.86 -.58			193 1.60 .00		
354 60.73 1.31			029 60.11 -.37			137 61.20 1.04			131 59.89 -.58					
292 61.44 1.05			035 60.25 -.58			102 61.18 .99			040 59.85 -.60					
* 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: 101.30 PCT Acid Soluble Calcium <u>ICP</u>			Meth: 121.30 PCT Acid Soluble Magnesi <u>ICP</u>			Meth: 144.70 PCT Sulfur <u>Spectrometric</u>			Meth: 151.30 PPM Arsenic <u>ICP</u>			Meth: 165.99 PCT Acid Soluble Boron <u>Other</u>		
035	1.65	1.36	Avg	0.54		393	1.52	.00	368	43.42	2.32	288	0.033	.48
361	1.59	.99	035	0.45	-.28				Avg	21.34		Avg	0.025	
320	1.55 R	.97	131	0.41	-.44	Meth: 144.99 PCT			376	20.50	-.10	232	0.004	-1.28
102	1.45	.20	102	0.40	-.45	<u>Other</u>			247	18.50	-.30	Meth: 181.00 PPM Cadmium		
131	1.45	.11	247	0.40	-.45	029	10.65 s	162.96	232	17.95	-.36	<u>Atomic Absorption</u>		
247	1.44	.08	361	0.40	-.45	193	1.77	1.25	102	17.80	-.37	233	32.48	.87
288	1.43	.06	320	0.39	-.50	247	1.76	.86	037	16.70	-.49	Avg	27.74	
Avg	1.43		288	0.38	-.52	009	1.74	.83	106	14.50	-.72	193	23.00	-.86
009	1.32	-.67	009	0.35	-.61	376	1.72	.56	Meth: 151.99 PPM Arsenic			Meth: 181.30 PPM Cadmium		
037	1.09	-2.04	Meth: 121.XX PCT <u>Acid Soluble Magnesi</u>			361	1.72	.10	040	24.94	1.24	<u>ICP</u>		
Meth: 101.XX PCT <u>Acid Soluble Calcium</u>			393	1.30	2.11	Avg	1.71		Avg	20.30		376	30.35	1.85
035	1.65	1.25	029	1.21	1.87	389	1.67	-.92	035	1.63	-1.53	102	29.06	1.25
193	1.60	.93	037	0.90	.93	Meth: 144.XX PCT <u>Sulfur</u>			136	18.95	-.36	106	28.00	.75
320	1.55 R	.88	Avg	0.58		029	10.65 s	82.33	409	17.00	-.91	247	26.50 R	.24
361	1.59	.87	035	0.45	-.38	102	1.95 R	2.39	Meth: 151.XX PPM <u>Arsenic</u>			009	26.55	.08
102	1.45	.13	193	0.41	-.51	288	1.92	1.90	369	106.00 s	31.99	232	26.40	.05
Avg	1.45		131	0.41	-.52	193	1.77	.62	368	43.42 A	9.13	Avg	26.39	
131	1.45	-.03	102	0.40	-.53	247	1.76	.42	040	24.94	2.38	288	26.30	-.06
247	1.44	-.04	247	0.40	-.54	009	1.74	.41	376	20.50	.77	419	26.00	-.18
009 1.32 -.79			361	0.40	-.54	376	1.72	.28	136	18.95	.21	035	25.70	-.32
037 1.09 -2.16			320	0.39	-.59	361	1.72	.05	247	18.50	.18	368	25.33	-.50
Meth: 121.00 PCT Acid Soluble Magnesi <u>AA</u>			288	0.38	-.60	Avg	1.71		Avg	18.43		393	24.36	-.95
029	1.21	.87	009	0.35	-.68	389	1.67	-.48	232	17.95	-.22	037	22.30	-1.91
Avg	0.81		Meth: 131.00 PCT Water Soluble Magnes <u>AA</u>			035	1.63	-.78	102	17.80	-.27	324	1.35 s	-11.67
193	0.41	-.87	193	0.11	-.71	393	1.52	-1.79	233	17.50	-.39	Meth: 181.99 PPM Cadmium		
Meth: 121.30 PCT Acid Soluble Magnesi <u>ICP</u>			Meth: 144.01 PCT Sulfur <u>Gravimetric</u>			Meth: 151.00 PPM Arsenic <u>Atomic Absorption</u>			247	18.50	.18	106	14.50	-1.45
393	1.30	2.51	102	1.95	1.18	369	106.00 S	125.23	Meth: 165.99 PCT Acid Soluble Boron			136	33.30	1.47
037	0.90	1.19	Avg	1.94		233	17.50	.71	Avg	27.50	-.42	Avg	28.71	
* X=Excluded from lab performance			288	1.92	-.32	Avg	17.50		009	0.038	.80	040	27.99	-.53
			S/s=Screened Outlier									362	26.05	-.94
												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: 181.XX PPM			Meth: 191.30 PPM			Meth: 202.30 PPM			Meth: 221.00 PCT			Meth: 241.30 PCT		
<u>Cadmium</u>			Chromium			Acid Soluble Cobalt			Acid Soluble Copper			Acid Soluble Iron		
136	33.30	2.08	<u>ICP</u>			<u>ICP</u>			<u>Atomic Absorption</u>			<u>ICP</u>		
233	32.48	1.81	419	291.00	.05	009	1.20	.54	029	0.0068 S	.00	037	0.90 s	72.00
376	30.35	1.10	Avg	290.56		Avg	1.07		193	0.0040	.00	361	0.26	1.95
102	29.06	.67	288	290.00	-.05	102	1.06	-.08	Avg	0.0040		102	0.25 R	1.35
040	27.99 R	.59	102	289.80	-.26	320	1.00	-.26	Meth: 221.30 PCT			320	0.25	.77
106	28.00	.31	393	276.89	-.67	288	0.90	-.66	Acid Soluble Copper			131	0.24	.48
409	27.50	.22	324	264.50	-1.13	037	0.81	-1.02	<u>ICP</u>			Avg 0.24		
Avg	27.07		037	252.95	-1.62	419	0.80	-1.06	009	0.0046	.93	247	0.24	-.25
009	26.55	-.17	Meth: 191.99 PPM			Meth: 202.99 PPM			035	0.0046	.90	035	0.24	-.31
232	26.40	-.23	Chromium			Acid Soluble Cobalt			102	0.0044	.89	009	0.24	-.57
247	26.50	-.25	<u>Other</u>			<u>Other</u>			232	0.0044	.30	232	0.23	-1.53
288	26.30	-.26	409	286.50	.71	193	1.40	1.07	Avg	0.0042		Meth: 241.99 PCT		
419	26.00	-.36	Meth: 191.XX PPM			Avg 1.20			288	0.0038	-1.14	Acid Soluble Iron		
035	25.70	-.46	Chromium			409 1.00 - .59			247	0.0038	-1.29	<u>Other</u>		
362	26.05 R	-.54	193	348.50	1.99	Meth: 202.XX PPM			037	0.0001 S	-10.70	362 0.32 .71		
368	25.33	-.58	389	335.00	1.50	Acid Soluble Cobalt			Meth: 221.XX PCT			Meth: 241.XX PCT		
393	24.36	-.90	035	317.00	.82	<u>Acid Soluble Cobalt</u>			Acid Soluble Copper			<u>Acid Soluble Iron</u>		
193	23.00	-1.36	Avg	295.05		106	1.50 R	2.28	029	0.0068 s	7.11	037	0.90 s	76.39
037	22.30	-1.59	009	295.00	-.04	193	1.40 R	1.72	009	0.0046	1.16	029	0.69 A	52.50
324	1.35 s	-8.57	247	293.50	-.06	247	1.45	1.46	035	0.0046	1.12	362	0.32 R	8.70
Meth: 190.99 PCT			419	291.00	-.16	324	1.35	1.44	102	0.0044 R	1.04	361	0.26	2.10
Water Soluble Chlori			288	290.00	-.19	368	1.39	1.19	232	0.0044	.50	102	0.25 R	1.45
<u>Other</u>			102	289.80	-.30	376	1.30	.88	Avg	0.0042		320	0.25	.84
288	0.03	.00	409	286.50	-.45	009	1.20	.46	193	0.0040	-.48	131	0.24	.52
Meth: 191.00 PPM			393	276.89	-.73	Avg	1.08		288	0.0038	-1.02	Avg	0.24	
Chromium			324	264.50	-1.14	102	1.06	-.12	247	0.0038	-1.18	247	0.24	-.24
<u>Atomic Absorption</u>			037	252.95	-1.57	409	1.00	-.33	037	0.0001 s	-11.12	288	0.24	-.24
193	348.50	.71	Meth: 202.30 PPM			320	1.00	-.33	Meth: 241.00 PCT			193	0.24	-.24
Meth: 191.30 PPM			Acid Soluble Cobalt			288	0.90	-.73	Acid Soluble Iron			035	0.24	-.30
Chromium			<u>ICP</u>			037	0.81	-1.07	<u>Atomic Absorption</u>			009	0.24	-.57
<u>ICP</u>			106	1.50 R	2.36	419	0.80	-1.12	029	0.69	.87	232	0.23	-1.59
389	335.00	1.93	247	1.45	1.55	393	0.76	-1.31	Avg	0.47				
035	317.00	1.14	324	1.35 R	1.51				193	0.24	-.87			
009	295.00	.20	368	1.39	1.28									
247	293.50	.13	376	1.30	.96									

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
Meth: 251.00 PPM			Meth: 261.00 PCT			Meth: 281.30 PPM			Meth: 289.XX PPM			Meth: 291.XX PPM		
Lead			Acid Soluble Mangane			Mercury			<u>Molybdenum</u>			<u>Nickel</u>		
<u>Atomic Absorption</u>			<u>AA</u>			<u>ICP</u>			419 4.00 - .34			102 46.31 1.11		
193 7.00 S .00			193 0.002 .00			040 38.75 .87			040 4.00 -.41			247 45.50 .91		
			Avg 0.002			Avg 19.42			102 4.11 -.45			232 43.00 .25		
Meth: 251.30 PPM			Meth: 261.30 PCT			376 0.09 -.87			232 3.95 -.47			009 42.80 .20		
Lead			Acid Soluble Mangane						389 3.75 -1.07			Avg 42.04		
<u>ICP</u>			<u>ICP</u>			Meth: 289.30 PPM			037 3.50 -1.49			035 41.95 -.05		
376 2.25 1.05			037 0.031 s 189.56			Molybdenum						409 41.00 -.38		
389 2.20 .88			035 0.003 1.14			<u>ICP</u>			Meth: 291.00 PPM			419 40.00 -.53		
419 2.00 .30			102 0.003 1.14			393 22.98 s 69.49			Nickel			393 39.89 -.57		
Avg 1.90			232 0.003 1.14			324 12.00 s 30.51			<u>Atomic Absorption</u>			193 38.00 -1.08		
037 1.58 -.93			Avg 0.002			368 8.52 s 12.34			193 38.00 .71			037 36.60 -1.42		
247 1.45 -1.29			247 0.002 -.34			247 4.55 1.33						324 36.50 -1.45		
			288 4.40 1.22			288 4.40 1.22			Meth: 291.30 PPM					
Meth: 251.99 PPM			009 0.002 -.69			102 4.11 .54			Nickel			Meth: 301.30 PPM		
Lead			288 0.002 -.94			009 4.25 .53			<u>ICP</u>			Selenium		
<u>Other</u>			320 0.002 -1.07			Avg 4.06			376 48.45 1.55			<u>ICP</u>		
136 4.00 1.29						419 4.00 -.17			389 46.50 R 1.13			376 0.13 .71		
Avg 2.07			Meth: 261.XX PCT			232 3.95 -.33			102 46.31 1.02					
040 1.22 -.57			Acid Soluble Mangane			389 3.75 -1.08			247 45.50 .83			Meth: 301.99 PPM		
409 1.00 -.72			029 0.119 s 553.02			037 3.50 -1.54			232 43.00 .22			Selenium		
			037 0.031 R 135.52						009 42.80 .17			<u>Other</u>		
Meth: 251.XX PPM			035 0.003 1.04			Meth: 289.99 PPM			Avg 42.12			296 0.29 .89		
Lead			102 0.003 1.04			Molybdenum			419 40.00 -.52			Avg 0.25		
193 7.00 s 11.31			232 0.003 1.04			<u>Other</u>			393 39.89 -.55			040 0.20 -.84		
136 4.00 R 4.96			247 0.002 .32			409 5.00 .86			037 36.60 -1.35					
376 2.25 1.24			Avg 0.002			Avg 4.50			324 36.50 -1.37			Meth: 301.XX PPM		
389 2.20 1.12			009 0.002 -.23			040 4.00 -.87						Selenium		
419 2.00 .70			288 0.002 -.40						Meth: 291.99 PPM			296 0.29 1.16		
Avg 1.67			320 0.002 -.49			Meth: 289.XX PPM			Nickel			Avg 0.21		
037 1.58 -.22			193 0.002 -1.91			<u>Molybdenum</u>			<u>Other</u>			040 0.20 -.15		
247 1.45 -.48						393 22.98 s 58.18			035 41.95 .50			376 0.13 -1.06		
040 1.22 -.96			Meth: 271.99 PCT			324 12.00 s 25.47			Avg 41.48					
409 1.00 -1.42			Water Soluble Mangan			368 8.52 s 10.17			409 41.00 -1.12			Meth: 311.30 PCT		
			<u>Other</u>			409 5.00 1.93						Sodium		
Meth: 261.00 PCT			029 0.028 .71			247 4.55 .92			Meth: 291.XX PPM			<u>Flame Photometric</u>		
Acid Soluble Mangane						288 4.40 .89			Nickel			320 0.41 .71		
<u>AA</u>						009 4.25 .25			376 48.45 1.68					
029 0.119 S .00						Avg 4.15			389 46.50 1.22					

\* 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: 311.99 PCT			Meth: 321.XX PCT											
Sodium			<u>Acid Soluble Zinc</u>											
<u>Other</u>			393	0.340 s	12.66									
102	0.43	1.39	029	0.106	2.60									
009	0.42	.29	Avg	0.045										
Avg	0.42		102	0.045	-.04									
288	0.41	-.81	131	0.044	-.06									
035	0.41	-.92	288	0.044	-.07									
			035	0.043	-.10									
			009	0.043	-.11									
Meth: 311.XX PCT			247	0.043	-.11									
Sodium			232	0.040	-.22									
102	0.43	1.55	320	0.040 R	-.22									
009	0.42	.51	193	0.038	-.32									
Avg	0.42		037	0.008	-1.59									
288	0.41	-.55	Meth: 325.00 PCT											
035	0.41	-.75	Water Soluble Zinc											
320	0.41	-.99	<u>Atomic Absorption</u>											
Meth: 321.00 PCT			193	0.001	.00									
Acid Soluble Zinc														
<u>Atomic Absorption</u>														
029	0.106	.87												
Avg	0.072													
193	0.038	-.87												
Meth: 321.30 PCT														
Acid Soluble Zinc														
<u>ICP</u>														
393	0.340 s	185.59												
102	0.045	1.16												
131	0.044	.88												
288	0.044	.68												
035	0.043	.30												
247	0.043	.16												
009	0.043	.08												
Avg	0.043													
232	0.040	-1.49												
320	0.040	-1.60												
037	0.008 s	-21.44												

\* 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	9	- 0.62	2.07	0.32	101.XX	10	0.06	0.99	0.21
001.99	13	0.00	0.99	0.24	121.00	2	0.00	1.22	0.01
001.XX	22	- 0.22	1.40	0.27	121.30	10	0.00	1.03	0.02
009.10	3	0.00	0.61	0.77	121.XX	12	0.00	1.02	0.01
009.XX	3	0.00	0.61	0.77	144.01	2	0.00	0.29	0.84
010.11	8	0.00	1.03	0.10	144.99	8	20.37	57.62	0.45
010.12	5	0.00	1.06	0.04	144.XX	11	7.69	24.78	0.34
010.60	48	0.08	1.67	0.66	151.00	2	62.58	88.50	3.04
010.99	4	1.33	2.79	0.59	151.30	7	0.00	1.04	0.06
010.XX	66	0.11	1.47	0.51	151.99	3	0.00	1.10	0.17
020.10	9	- 2.53	7.66	0.29	151.XX	12	3.42	9.41	0.37
020.20	17	0.00	0.97	0.29	165.99	3	0.000	1.115	0.067
020.40	9	0.00	1.01	0.22	165.XX	3	0.000	1.115	0.067
020.50	5	0.01	0.87	1.67	181.00	2	0.00	1.22	0.07
020.XX	40	- 0.33	2.36	0.88	181.30	13	- 0.89	3.37	0.10
030.XX	3	0.00	1.05	0.31	181.99	4	0.00	1.01	0.34
040.99	3	0.00	0.94	0.49	181.XX	19	- 0.45	2.17	0.18
040.XX	6	0.00	0.89	0.51	191.30	10	0.00	1.01	0.16
041.10	17	0.07	0.99	0.63	191.XX	12	0.00	1.01	0.16
041.20	4	0.00	0.97	0.41	202.30	12	0.24	1.08	0.56
041.40	5	0.00	1.06	0.07	202.99	2	0.00	0.84	0.63
041.50	8	0.29	1.68	0.36	202.XX	14	0.21	1.04	0.60
041.60	13	- 0.05	0.97	0.33	221.00	2	0.0000	0.0000	0.0000
041.XX	42	0.06	1.13	0.35	221.30	7	- 1.528	4.1387	0.3424
048.20	3	0.00	0.69	0.72	221.XX	9	- 0.376	4.7246	0.3223
048.99	2	- 12.34	17.45	2.55	241.00	2	0.00	1.22	0.00
048.XX	5	- 1.49	3.39	0.80	241.30	10	7.29	22.76	0.42
050.00	21	0.04	0.99	0.20	241.XX	13	10.64	24.49	0.62
050.10	2	0.00	0.59	0.76	251.30	5	0.00	1.05	0.12
050.30	13	0.32	1.57	0.57	251.99	3	0.00	1.11	0.08
050.50	6	0.00	0.78	0.64	251.XX	9	1.81	4.02	0.16
050.51	6	0.00	1.01	0.25	261.00	2	0.000	0.000	0.000
050.60	6	0.00	0.65	0.75	261.30	8	23.694	67.021	0.717
050.61	6	0.00	0.97	0.36	261.XX	10	68.853	175.37	0.457
050.99	12	- 1.17	3.27	1.02	281.30	2	0.00	1.22	0.02
050.XX	69	- 0.03	2.34	0.70	281.XX	2	0.00	1.22	0.02
060.00	6	0.00	0.78	0.64	289.30	11	7.70	16.07	15.62
060.XX	6	0.00	0.78	0.64	289.99	2	0.00	1.21	0.12
101.30	9	0.08	1.00	0.22	289.XX	13	5.43	12.49	12.06

## 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
291.30	10	0.11	1.03	0.14					
291.99	2	0.00	0.68	0.72					
291.XX	13	0.00	1.01	0.17					
301.99	2	0.00	1.16	0.27					
301.XX	3	0.00	1.10	0.17					
311.99	4	0.00	0.91	0.50					
311.XX	5	0.00	0.93	0.46					
321.00	2	0.000	1.225	0.000					
321.30	10	16.416	59.831	0.265					
321.XX	12	1.037	3.776	0.017					