

MAGRUDER - Fertilizer Check Sample No. - 200207 Grade 17-17-17

- Pass 1 Results for 77 Labs - - Pass 2 Results for 76 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	7	6.6000	0.2624	0.0829	7	6.6000	0.2624	0.0829
Ammoniacal Nitrogen, Other		001.99	5	6.9150	0.5297	0.1260	5	6.9150	0.5297	0.1260
Method Group 001.XX PCT			12	6.7312	0.4170	0.1008	12	6.7312	0.4170	0.1008
Ammon & Nitrate N, Devarda	892.01	009.10	3	9.8667	4.3722	0.0867	3	9.8667	4.3722	0.0867
Total Nitrogen, Modified Comprehensive	978.02	010.11	12	17.340	0.2086	0.1057	12	17.340	0.2086	0.1057
Total Nitrogen, Salicylic	955.04D	010.12	6	17.307	0.2536	0.0487	5	17.401	0.1332	0.0145
Total Nitrogen, Comprehensive	970.02	010.17	1	17.320	0.2970	0.4200	1	17.320	0.2970	0.4200
Total Nitrogen, Combustion		010.60	44	17.388	0.2145	0.0844	43	17.391	0.2122	0.0734
Total Nitrogen, Other		010.99	4	17.319	0.3955	0.0870	4	17.319	0.3955	0.0870
Method Group 010.XX PCT			67	17.367	0.2297	0.0902	64	17.372	0.2288	0.0740
Total Phosphate, Grav Quimociac	962.02	020.10	10	16.020	0.1909	0.0656	10	16.020	0.1909	0.0656
Total Phosphate, Spectrometric	958.01	020.20	14	16.012	0.2166	0.0500	14	16.012	0.2166	0.0500
Total Phosphate, Alka. Quimociac	969.02	020.30	1	16.154	0.0163	0.0230	1	16.154	0.0163	0.0230
Total Phosphate, Automated	978.01	020.40	8	16.217	0.2426	0.1413	8	16.217	0.2426	0.1413
Total Phosphate, ICP		020.50	4	16.109	0.4655	0.2132	5	16.337	0.6317	0.2006
Total Phosphate, Other		020.99	2	16.030	0.0356	0.0100	2	16.030	0.0356	0.0100
Method Group 020.XX PCT			39	16.071	0.2519	0.0867	38	16.057	0.2361	0.0727
Insoluble Phosphate, Grav Quimociac ...	963.03C	030.10	2	0.0250	0.0300	0.0100	2	0.0250	0.0300	0.0100
Insoluble Phosphate, Spectrometric	963.03C	030.20	1	0.0700	0.0000	0.0000	1	0.0700	0.0000	0.0000
Insoluble Phosphate, Automated	978.01	030.40	3	0.0333	0.0137	0.0133	3	0.0333	0.0137	0.0133
Insoluble Phosphate, Other		030.99	1	0.0150	0.0071	0.0100	1	0.0150	0.0071	0.0100
Method Group 030.XX PCT			7	0.0336	0.0237	0.0100	7	0.0336	0.0237	0.0100
InDir Available Phosphate, Grav Quim ..	960.02	040.10	2	16.203	0.1526	0.0650	2	16.203	0.1526	0.0650
InDir Available Phosphate, Spectrometri	960.02	040.20	2	15.850	0.0216	0.0200	2	15.850	0.0216	0.0200
InDir Available Phosphate, Automated ..	960.02	040.40	2	15.953	0.0802	0.0950	2	15.953	0.0802	0.0950
Method Group 040.XX PCT			6	16.002	0.1793	0.0600	6	16.002	0.1793	0.0600
Dir Available Phosphate, Grav Quim	960.03E	041.10	18	16.123	0.0927	0.0571	17	16.123	0.0915	0.0475
Dir Available Phosphate, Spectrometric	960.03D	041.20	3	16.092	0.1525	0.0233	3	16.092	0.1525	0.0233
Dir Available Phosphate, Alka. Quim ...	960.03C	041.30	1	15.985	0.0212	0.0300	1	15.985	0.0212	0.0300
Dir Available Phosphate, Automated	978.01	041.40	5	16.099	0.1878	0.1500	4	16.074	0.1116	0.0275
Dir Available Phosphate, ICP		041.50	4	16.086	0.2204	0.1175	4	16.086	0.2204	0.1175
Dir Available Phosphate, EDTA Extract .	993.01	041.60	8	16.060	0.2219	0.0931	9	16.005	0.2630	0.0861
Dir Available Phosphate, Other		041.99	2	16.050	0.0416	0.0600	2	16.050	0.0416	0.0600
Method Group 041.XX PCT			42	16.085	0.1634	0.0766	41	16.083	0.1565	0.0629
Water Soluble Phosphate, Spectrometric	970.01	048.20	2	14.615	0.1694	0.0400	2	14.615	0.1694	0.0400
Water Soluble Phosphate, Other		048.99	3	14.077	0.5121	0.0733	3	14.077	0.5121	0.0733
Method Group 048.XX PCT			5	14.292	0.4822	0.0600	5	14.292	0.4822	0.0600
Soluble Potash, STPB Oxalate	958.02	050.00	21	17.913	0.2226	0.0701	19	17.898	0.2256	0.0522
Soluble Potash, STPB Citrate	969.04	050.10	1	18.807	0.0921	0.1303	1	18.807	0.0921	0.1303

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Soluble Potash, AA (Oxalate)		050.30	10	17.396	0.4040	0.2009	10	17.396	0.4040	0.2009
Soluble Potash, AA (Citrate)		050.31	1	18.460	0.3394	0.4800	1	18.460	0.3394	0.4800
Soluble Potash, ICP (Oxalate)		050.50	2	17.825	0.3433	0.3890	2	17.825	0.3433	0.3890
Soluble Potash, ICP (Citrate)		050.51	6	18.013	0.3501	0.1467	5	18.126	0.2265	0.0760
Soluble Potash, Flame (Oxalate)	983.02(a)	050.60	6	17.824	0.3226	0.1696	5	17.921	0.2174	0.0915
Soluble Potash, Flame (Citrate)	983.02(b)	050.61	7	17.972	0.2827	0.2814	6	17.981	0.1808	0.1350
Soluble Potash, Other		050.99	13	17.916	0.5911	0.2445	12	17.852	0.5489	0.1783
Method Group 050.XX PCT			69	17.856	0.4619	0.1785	65	17.846	0.4499	0.1345
Free Water, Vacuum Oven	965.08B	060.00	10	0.9340	0.1291	0.0424	9	0.9561	0.1130	0.0300
Free Water, Other		060.99	1	0.8300	0.0424	0.0600	1	0.8300	0.0424	0.0600
Method Group 060.XX PCT			11	0.9246	0.1269	0.0440	10	0.9435	0.1141	0.0330
Acid Soluble Calcium, AA	945.04	101.00	2	2.9875	2.1260	0.1650	2	2.9875	2.1260	0.1650
Acid Soluble Calcium, ICP		101.30	6	4.2421	1.7851	0.1112	5	4.0105	1.8786	0.0574
Method Group 101.XX PCT			8	3.9285	1.8856	0.1246	8	3.9285	1.8856	0.1246
Acid Soluble Magnesium, AA	984.01	121.00	1	0.2930	0.0042	0.0060	1	0.2930	0.0042	0.0060
Acid Soluble Magnesium, ICP		121.30	5	0.2987	0.0178	0.0077	5	0.2987	0.0178	0.0077
Acid Soluble Magnesium, Other		121.99	1	0.2623	0.0088	0.0125	1	0.2623	0.0088	0.0125
Method Group 121.XX PCT			7	0.2927	0.0199	0.0082	7	0.2927	0.0199	0.0082
Sulfur, Gravimetric	980.02a	144.01	3	0.7383	0.0426	0.0033	3	0.7383	0.0426	0.0033
Sulfur, Gravimetric	980.02b	144.02	2	0.7125	0.0171	0.0150	2	0.7125	0.0171	0.0150
Sulfur, Other		144.99	4	0.7616	0.0458	0.0172	4	0.7616	0.0458	0.0172
Method Group 144.XX PCT			9	0.7429	0.0429	0.0121	9	0.7429	0.0429	0.0121
Arsenic, Atomic Absorption		151.00	1	9.1000	0.2828	0.4000	1	9.1000	0.2828	0.4000
Arsenic, ICP		151.30	5	11.563	4.0893	1.8846	5	11.563	4.0893	1.8846
Arsenic, Other		151.99	3	10.235	1.3983	0.4167	3	10.235	1.3983	0.4167
Method Group 151.XX PPM			9	10.847	3.1978	1.2303	8	11.534	2.4185	0.6316
Cadmium, Atomic Absorption		181.00	1	1.0000	0.0000	0.0000	1	1.0000	0.0000	0.0000
Cadmium, ICP		181.30	4	0.2575	0.1525	0.0050	3	0.1900	0.1032	0.0000
Method Group 181.XX PPM			5	0.4060	0.3407	0.0040	4	0.3925	0.3850	0.0000
Water Soluble Chlorine, Titrimetric	928.02	190.00	1	14.395	0.0919	0.1300	1	14.395	0.0919	0.1300
Water Soluble Chlorine, Other		190.99	1	14.035	0.0495	0.0700	1	14.035	0.0495	0.0700
Method Group 190.XX PCT			2	14.215	0.2164	0.1000	2	14.215	0.2164	0.1000
Chromium, Atomic Absorption		191.00	1	20.000	1.4142	2.0000	1	20.000	1.4142	2.0000
Chromium, ICP		191.30	9	17.446	3.5508	2.1089	8	17.258	3.2685	1.1350
Chromium, Other		191.99	1	25.500	0.7071	1.0000	1	25.500	0.7071	1.0000
Method Group 191.XX PPM			11	18.410	4.0187	1.9982	10	18.357	3.9035	1.2080
Acid Soluble Cobalt, AA		202.00	1	5.0000	0.0000	0.0000	1	5.0000	0.0000	0.0000
Acid Soluble Cobalt, ICP	965.11	202.30	9	3.6257	1.0662	0.7106	8	3.6414	1.0123	0.4494
Acid Soluble Cobalt, Other		202.99	2	4.0000	0.8165	1.0000	2	4.0000	0.8165	1.0000

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Method Group 202.XX PPM			12	3.8026	1.0407	0.6996	11	3.8301	0.9950	0.5086
Acid Soluble Copper, Atomic Absorption	975.01	221.00	9	0.0024	0.0005	0.0003	9	0.0024	0.0005	0.0003
Acid Soluble Copper, ICP		221.30	12	0.0023	0.0003	0.0002	12	0.0023	0.0003	0.0002
Acid Soluble Copper, Other		221.99	2	0.0024	0.0002	0.0003	2	0.0024	0.0002	0.0003
Method Group 221.XX PCT			23	0.0023	0.0004	0.0003	21	0.0024	0.0003	0.0002
Acid Soluble Iron, Atomic Absorption	980.01	241.00	2	0.1871	0.0095	0.0099	2	0.1871	0.0095	0.0099
Acid Soluble Iron, ICP		241.30	6	0.1968	0.0177	0.0090	6	0.1968	0.0177	0.0090
Acid Soluble Iron, Other		241.99	1	0.1451	0.0100	0.0142	1	0.1451	0.0100	0.0142
Method Group 241.XX PCT			9	0.1889	0.0223	0.0098	9	0.1889	0.0223	0.0098
Lead, Atomic Absorption		251.00	2	3.7575	1.4352	0.0450	2	3.7575	1.4352	0.0450
Lead, ICP		251.30	5	4.2300	2.1675	0.5400	5	4.2300	2.1675	0.5400
Lead, Other		251.99	2	3.3500	1.3904	0.5700	2	3.3500	1.3904	0.5700
Method Group 251.XX PPM			9	3.9294	1.8251	0.4367	8	3.6081	1.6427	0.2913
Acid Soluble Manganese, AA	972.02a	261.00	2	0.0203	0.0009	0.0011	2	0.0203	0.0009	0.0011
Acid Soluble Manganese, ICP	972.02a	261.30	6	0.0199	0.0025	0.0010	5	0.0207	0.0017	0.0003
Acid Soluble Manganese, Other		261.99	1	0.0181	0.0011	0.0015	1	0.0181	0.0011	0.0015
Method Group 261.XX PCT			9	0.0198	0.0022	0.0010	8	0.0203	0.0017	0.0007
Mercury, Other		281.99	2	0.0225	0.0050	0.0050	2	0.0225	0.0050	0.0050
Molybdenum, ICP		289.30	8	1.6843	0.6202	0.3153	8	1.6843	0.6202	0.3153
Molybdenum, Other		289.99	2	1.8250	0.4031	0.3500	2	1.8250	0.4031	0.3500
Method Group 289.XX PPM			10	1.7124	0.5768	0.3223	10	1.7124	0.5768	0.3223
Nickel, Atomic Absorption		291.00	1	9.5500	0.0707	0.1000	1	9.5500	0.0707	0.1000
Nickel, ICP		291.30	4	10.264	0.5567	0.0758	4	10.264	0.5567	0.0758
Nickel, Other		291.99	1	6.3450	0.1626	0.2300	1	6.3450	0.1626	0.2300
Method Group 291.XX PPM			7	9.3217	1.5403	0.3476	6	9.4920	1.5605	0.1055
Selenium, ICP		301.30	3	9.4833	8.1433	0.9000	3	9.4833	8.1433	0.9000
Selenium, Other		301.99	4	0.1368	0.0858	0.0200	4	0.1368	0.0858	0.0200
Method Group 301.XX PPM			7	4.1424	6.9677	0.3971	6	3.6412	7.4381	0.1800
Sodium, Other		311.99	5	0.3914	0.0354	0.0118	5	0.3914	0.0354	0.0118
Acid Soluble Zinc, Atomic Absorption	975.02	321.00	6	0.0029	0.0011	0.0001	5	0.0026	0.0008	0.0000
Acid Soluble Zinc, ICP		321.30	12	0.0021	0.0009	0.0004	11	0.0021	0.0009	0.0003
Acid Soluble Zinc, Other		321.99	3	0.0024	0.0005	0.0001	3	0.0024	0.0005	0.0001
Method Group 321.XX PCT			22	0.0027	0.0019	0.0003	20	0.0024	0.0010	0.0002

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 001.10	--	--	Method 010.11	--	--	Method 010.60	--	--	Method 010.99	--	--	Method 010.XX	--
288	6.9300	1.28	322	17.807	2.27	330	17.480	.71	320	17.940	1.58	023	17.410	.17
220	6.8050	.81	090	17.540	1.03	247	17.525	.63	Avg	17.319		416	17.397	.13
090	6.7100	.42	029	17.460	.58	025	17.520	.63	419	17.200	-.30	137	17.400	.12
029	6.6750	.29	114	17.380	.43	049	17.520	.61	177	17.139	-.49	Avg	17.372	
Avg	6.6000		288	17.370	.41	028	17.510	.58	105	16.995	-.83	409	17.360	-.10
040	6.6000	-.38	028	17.410	.34	106	17.490	.55	--	Method 010.XX	--	040	17.330	-.20
395	6.2650	-1.28	Avg	17.340		027	17.453	.29	320	17.940	2.50	131	17.335	-.22
324	6.2150	-1.47	105	17.240	-.52	157	17.445	.27	095	17.915	2.38	029	17.320	-.23
			405	17.225	-.55	034	17.415	.24	322	17.807	1.93	096	17.325	-.23
--	Method 001.99	--	414	17.225	-.59	372	17.435	.21	057	17.770	1.82	389	17.300	-.31
363	7.5250	1.16	363	17.205	-1.02	055	17.425	.20	275	17.680	1.38	233	17.295	-.34
418	7.5050	1.14	395	17.125	-1.03	231	17.415	.14	102	17.632	1.14	351	17.294	-.34
Avg	6.9150		211	17.090	-1.21	136	17.410	.13	232	17.620	1.09	288	17.370	-.35
193	6.6300	-.55	309	16.140 s	-5.84	023	17.410	.10	262	17.600	1.00	415	17.280	-.40
247	6.5400	-.71				Avg	17.391		324	17.550	.89	024	17.295	-.41
409	6.3750	-1.02	--	Method 010.12	--	409	17.360	-.17	142	17.570	.87	296	17.250	-.55
			102	17.632	1.74	040	17.330	-.30	090	17.540	.81	325	17.240	-.58
--	Method 001.XX	--	Avg	17.401		131	17.335	-.31	220	17.540	.81	105	17.240	-.60
363	7.5250	1.91	137	17.400	.00	096	17.325	-.33	009	17.530	.80	405	17.225	-.64
418	7.5050	1.88	416	17.397	-.11	029	17.320	-.33	360	17.540	.74	234	17.225	-.66
288	6.9300	.50	351	17.294	-.80	389	17.300	-.43	330	17.480	.71	414	17.225	-.67
220	6.8050	.22	415	17.280	-.91	233	17.295	-.45	247	17.525	.67	419	17.200	-.75
Avg	6.7312		185	16.840 R	-4.29	086	17.375	-.50	025	17.520	.66	390	17.215	-.80
090	6.7100	-.06				024	17.295	-.52	049	17.520	.65	220	17.320 R	-.95
029	6.6750	-.14	--	Method 010.17	--	296	17.250	-.68	028	17.510	.62	361	17.145	-1.00
193	6.6300	-.30	220	17.320	.71	325	17.240	-.71	106	17.490	.58	363	17.205 R	-1.02
040	6.6000	-.40				234	17.225	-.80	086	17.375	.46	177	17.139	-1.06
247	6.5400	-.46	--	Method 010.60	--	390	17.215	-.94	029	17.460	.39	395	17.125	-1.08
409	6.3750	-.86	095	17.915	2.47	361	17.145	-1.16	027	17.453	.36	043	17.120	-1.10
395	6.2650	-1.12	057	17.770	1.88	043	17.120	-1.28	114	17.380	.35	211	17.090	-1.24
324	6.2150	-1.24	275	17.680	1.40	073	17.290 R	-1.40	157	17.445	.33	073	17.290 R	-1.27
			232	17.620	1.09	018	17.050	-1.62	034	17.435	.28	018	17.050	-1.42
--	Method 009.10	--	262	17.600	.99	007	17.000	-1.84	034	17.415	.27	007	17.000	-1.62
030	15.500	1.29	324	17.550	.89	041	16.940	-2.17	055	17.425	.26	105	16.995	-1.66
Avg	9.8667		142	17.570	.85	035	16.905	-2.30	231	17.415	.20	041	16.940	-1.94
391	7.3500	-.58	220	17.540	.80	377	9.6800 s	-36.34	136	17.410	.19	035	16.905	-2.05
257	6.7500	-.71	009	17.530	.78				028	17.410	.17	185	16.840	-2.37
			360	17.540	.71							309	16.140 s	-5.46

* 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
--	Method 010.XX	--	--	Method 020.40	--	--	Method 020.XX	--	--	Method 030.20	--	--	Method 040.XX	--
377	9.6800 s	-33.62	042	16.655	1.88	372	16.175	.51	220	0.0700	.00	090	16.330	1.83
			105	16.470	1.11	105	16.170	.48	363	0.3800 S	.00	405	16.075	.48
			Avg	16.217		389	16.100	.46	Avg	0.0700		Avg	16.002	
--	Method 020.10	--	142	16.175	-.20	030	16.150	.45				409	15.995	-.42
090	16.330	1.63	193	16.200	-.42	416	16.154	.41	--	Method 030.40	--	096	15.910	-.52
105	16.170	.79	035	16.180	-.44	418	16.130	.37	247	0.0450	1.39	363	15.865	-.77
			247	16.095	-.51	102	16.099	.32	Avg	0.0333		220	15.835	-.93
102	16.099	.54	409	16.020	-.88	405	16.125	.32	096	0.0300	-.24			
414	16.115	.53	096	15.940	-1.14	414	16.115	.29	409	0.0250	-.71	--	Method 041.10	--
114	16.060	.24				247	16.095	.19				137	16.680 s	6.09
Avg	16.020		--	Method 020.50	--	114	16.060	.09	--	Method 030.99	--	296	16.375	2.77
313	15.910	-.61	360	17.245 S	1.44	257	16.060	.09	320	0.0150	.71	105	16.200	.90
043	15.905	-.67	330	16.570	.61	234	16.060	.09				055	16.195	.88
157	15.792	-1.20	Avg	16.109		320	16.060	.04	--	Method 030.XX	--	136	16.195	.83
095	15.690	-1.73	361	16.295	-.07	Avg	16.057		363	0.3800 s	14.60	057	16.145	.55
			389	16.100	-.41	419	16.000	-.24	220	0.0700	1.54	041	16.170	.52
--	Method 020.20	--	157	15.473	-1.37	409	16.020	-.37	405	0.0500	.81	040	16.135	.30
415	17.250 s	5.72				231	15.950	-.50	247	0.0450	.79	Avg	16.123	
262	16.900 S	4.13	--	Method 020.99	--	096	15.940	-.50	Avg	0.0336		028	16.115	-.29
391	16.350	1.58	320	16.060	.89	220	15.905	-.65	096	0.0300	-.15	029	16.080	-.48
363	16.240	1.05	Avg	16.030		313	15.910	-.65	409	0.0250	-.42	009	16.105	-.53
232	16.215	.94	419	16.000	-.84	043	15.905	-.69	320	0.0150	-.81	233	16.075	-.55
372	16.175	.76				288	15.820	-1.01	090	0.0000	-1.41	049	16.065	-.63
030	16.150	.68	--	Method 020.XX	--	157	15.792	-1.13				086	16.065	-.69
418	16.130	.59	415	17.250 s	5.05	390	15.790	-1.14	--	Method 040.10	--	177	16.058	-.78
234	16.060	.24	360	17.245 s	5.04	324	15.700	-1.51	090	16.330	.85	211	16.080	-.81
257	16.060	.24	262	16.900 s	3.59	095	15.690	-1.56	Avg	16.203		102	16.035	-.96
Avg	16.012		042	16.655	2.59	420	15.625	-1.83	405	16.075	-.89	185	16.120 R	-1.20
231	15.950	-.37	330	16.570 R	2.54	157	15.473	-2.48				131	15.995	-1.40
220	15.905	-.50	105	16.470	1.79	395	15.160 s	-3.80	--	Method 040.20	--	322	15.692 s	-4.71
288	15.820	-.89	391	16.350	1.26	309	15.125 s	-3.95	363	15.865	.98			
390	15.790	-1.04	090	16.330	1.16				Avg	15.850		--	Method 041.20	--
324	15.700	-1.44	361	16.295	1.01	--	Method 030.10	--	220	15.835	-.73	362	16.280	1.24
420	15.625	-1.79	363	16.240	.77	405	0.0500	.90				Avg	16.092	
395	15.160 S	-3.94	193	16.200	.74	Avg	0.0250		--	Method 040.40	--	055	16.045	-.32
309	15.125 S	-4.10	232	16.215	.67	090	0.0000	-.83	409	15.995	1.08	106	15.950	-.93
			035	16.180	.67				Avg	15.953				
--	Method 020.30	--	142	16.175	.51				096	15.910	-.59			
416	16.154	-.71												

* 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
--	Method 041.30	--	--	Method 041.XX	--	--	Method 041.XX	--	--	Method 050.00	--	--	Method 050.50	--
260	15.985	.71	023	16.690 s	3.97	131	15.995	-.60	211	18.055	.70	157	17.944	.35
			137	16.680 s	3.82	260	15.985	-.63	220	18.045	.65	Avg	17.825	
--	Method 041.40	--	007	16.650 s	3.75	029	15.975	-.69	057	17.930	.42	106	17.705	-1.17
105	16.200 R	3.08	105	16.200 R	2.18	106	15.950	-.85	009	17.985	.40	324	16.555 S	-3.80
025	16.235	1.45	296	16.375	1.88	095	15.835	-1.67	416	17.981	.38			
027	16.090	.17	296	16.365	1.81	009	15.770	-2.14	350	17.960	.28	--	Method 050.51	--
Avg	16.074		073	16.310	1.49	288	15.695	-2.48	414	17.915	.17	023	18.495	1.65
131	15.995	-.77	362	16.280	1.26	322	15.692	-2.50	029	17.900	.04	009	18.210	.39
029	15.975	-.89	361	16.265	1.17	377	15.565 s	-3.31	090	17.900	.04	Avg	18.126	
			360	16.200	.99	351	11.947 s	-26.43	Avg	17.898		389	18.050	-.40
--	Method 041.50	--	025	16.235	.97				055	17.820	-.35	361	17.970	-.69
023	16.690 S	2.80	105	16.200	.77	--	Method 048.20	--	049	17.815	-.39	377	17.905	-.98
007	16.650 S	2.65	055	16.195	.75	362	14.760	.87	372	17.720	-.80	007	17.450 R	-3.18
361	16.265	.81	185	16.120	.74	Avg	14.615		418	17.655	-1.12			
360	16.200	.69	136	16.195	.74	363	14.470	-.86	296	17.460	-1.98	--	Method 050.60	--
325	16.110	.12	018	16.100	.65				131	17.360	-2.39	055	18.105	.85
Avg	16.086		041	16.170	.56	--	Method 048.99	--	391	16.700 s	-5.31	288	18.065	.67
009	15.770	-1.53	057	16.145	.49	096	14.420	.67				105	17.940	.42
			040	16.135	.37	247	14.390	.61	--	Method 050.10	--	029	17.950	.16
--	Method 041.60	--	009	16.105	.32	Avg	14.077		322	18.807	-.71	Avg	17.921	
296	16.365	1.37	028	16.115	.26	275	13.420 X	-1.29				415	17.545	-1.77
073	16.310	1.17	325	16.110	.19				--	Method 050.30	--	390	17.340 R	-2.97
018	16.100	.52	043	16.095	.09	--	Method 048.XX	--	234	18.050	1.62			
043	16.095	.34	027	16.090	.08	362	14.760	.97	262	17.800	1.25	--	Method 050.61	--
177	16.034	.30	Avg	16.083		363	14.470	.37	142	17.700	.76	025	18.240	1.45
028	16.050	.17	029	16.080	-.07	096	14.420	.27	040	17.450	.42	035	18.025	.79
Avg	16.060		233	16.075	-.11	247	14.390	.20	185	17.450	.39	028	18.070	.51
095	15.835	-.72	049	16.065	-.12	Avg	14.292		405	17.535	.37	Avg	17.981	
288	15.695	-1.18	086	16.065	-.20	275	13.420 X	-1.82	Avg	17.396		018	17.950	-.32
377	15.565 S	-1.68	247	16.050	-.22				073	17.065	-.89	105	17.800	-1.05
351	11.947 s	-15.44	028	16.050	-.22	--	Method 050.00	--	095	17.040	-.93	030	17.800	-1.14
			177	16.058	-.24	193	18.600 s	3.23	137	16.990	-1.01	041	17.920 R	-3.23
--	Method 041.99	--	055	16.045	-.26	102	18.254	1.58	351	16.883	-1.27			
419	16.050	1.20	102	16.035	-.30	257	18.180	1.25	309	16.150 S	-3.09	--	Method 050.99	--
247	16.050	.24	419	16.050	-.38	043	18.080 R	.96				330	18.680 R	1.78
Avg	16.050		211	16.080	-.38	028	18.085	.83	--	Method 050.31	--	360	18.715	1.60
			177	16.034	-.56	231	18.030 R	.79	086	18.460	-.71	395	18.705	1.56
			131	15.995	-.56	345	18.050	.72				325	18.210	.74

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 050.99	--	--	Method 050.XX	--	--	Method 050.XX	--	--	Method 101.00	--	--	Method 121.XX	--
177	18.101	.45	042	18.000	.41	362	17.110 X	-1.67	105	4.8250	.87	131	0.3245	1.61
042	18.000	.33	363	17.995	.33	073	17.065	-1.76	Avg	2.9875		247	0.3050	.67
363	17.995	.26	009	17.985	.31	095	17.040	-1.81	086	1.1500	-.86	102	0.2994	.34
247	17.875	.05	416	17.981	.30	137	16.990	-1.90				105	0.2930	.15
Avg	17.852		105	17.940	.29	351	16.883	-2.14	--	Method 101.30	--	Avg	0.2927	
275	17.635	-.52	361	17.970	.28	391	16.700	-2.55	035	5.4000 R	.75	035	0.2890	-.40
260	17.515	-.66	057	17.930	.27	324	16.555 s	-2.94	361	5.3600	.72	009	0.2757	-.86
419	17.200	-1.19	018	17.950	.26	309	16.150 s	-3.77	131	4.8050	.43	320	0.2623	-1.56
232	17.165	-1.26	350	17.960	.25				247	4.7800	.41			
362	17.110 X	-1.38	029	17.950	.24	--	Method 060.00	--	009	4.6255	.33	--	Method 144.01	--
			157	17.944	.22	105	1.1550	1.77	Avg	4.0105		105	0.7850	1.10
--	Method 050.XX	--	414	17.915	.17	414	1.0350 X	.70	102	0.4821	-1.88	288	0.7400	.04
330	18.680 R	2.18	377	17.905	.14	193	1.0200	.59				Avg	0.7383	
322	18.807	2.14	029	17.900	.12	247	0.9700	.12	--	Method 101.XX	--	193	0.6900	-1.13
360	18.715	1.96	090	17.900	.12	096	0.9600	.09	035	5.4000	.79			
395	18.705	1.92	247	17.875	.07	361	0.9600	.03	361	5.3600	.76	--	Method 144.02	--
193	18.600	1.73	Avg	17.846		Avg	0.9561		105	4.8250	.48	361	0.7250	.79
086	18.460	1.47	055	17.820	-.06	363	0.8700	-.78	131	4.8050	.47	Avg	0.7125	
023	18.495	1.45	049	17.815	-.09	362	0.8800	-.86	247	4.7800	.45	086	0.7000	-.94
041	17.920 R	1.30	105	17.800	-.17	007	0.7550	-1.78	009	4.6255	.37			
325	18.210	.91	030	17.800	-.24	416	0.7351 R	-2.07	Avg	3.9285		--	Method 144.99	--
102	18.254	.91	372	17.720	-.28				086	1.1500	-1.47	035	0.8255	1.45
025	18.240	.88	142	17.700	-.33	--	Method 060.99	--	102	0.4821	-1.83	247	0.7650	.13
009	18.210	.81	418	17.655	-.45	320	0.8300	-.71				Avg	0.7616	
257	18.180	.74	275	17.635	-.62				--	Method 121.00	--	102	0.7444	-.38
043	18.080	.58	262	17.800 R	-.67	--	Method 060.XX	--	105	0.2930	.71	009	0.7114	-1.11
055	18.105	.58	415	17.545	-.69	105	1.1550	1.86						
177	18.101	.57	405	17.535	-.70	414	1.0350 X	.80	--	Method 121.30	--	--	Method 144.XX	--
028	18.085	.53	260	17.515	-.79	193	1.0200	.69	131	0.3245	1.47	035	0.8255	1.97
028	18.070	.50	296	17.460	-.88	247	0.9700	.23	247	0.3050	.45	105	0.7850	.99
035	18.025	.50	106	17.705 R	-.91	096	0.9600	.17	102	0.2994	.05	247	0.7650	.53
231	18.030	.49	185	17.450	-.94	361	0.9600	.14	Avg	0.2987		102	0.7444	.08
288	18.065	.49	040	17.450	-.95	Avg	0.9435		035	0.2890	-.67	Avg	0.7429	
345	18.050	.47	007	17.450	-1.04	363	0.8700	-.67	009	0.2757	-1.30	288	0.7400	-.07
389	18.050	.47	131	17.360	-1.08	362	0.8800	-.77				361	0.7250	-.43
234	18.050	.47	390	17.340	-1.29	320	0.8300	-1.03	--	Method 121.99	--	009	0.7114	-.76
211	18.055	.47	419	17.200	-1.44	007	0.7550	-1.65	320	0.2623	.71	086	0.7000	-1.03
220	18.045	.44	232	17.165	-1.52	416	0.7351 R	-1.95				193	0.6900	-1.23

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 151.00	--	--	Method 181.XX	--	--	Method 191.XX	--	--	Method 202.XX	--	--	Method 221.30	--
136	9.1000	-.71	220	1.0000	1.58	035	18.950 R	1.28	389	4.5000	.67	247	0.0002 s	-6.70
			389	0.4600 R	.18	009	22.260	1.01	247	4.5000	.67			
			Avg	0.3925		389	22.000	.97	Avg	3.8301		--	Method 221.99	--
288	16.000	1.09	157	0.3000	-.24	220	20.000	.49	102	3.5710	-.29	106	0.0024	1.08
419	13.800	.67	419	0.2000	-.50	Avg	18.357		320	3.5000	-.60	Avg	0.0024	
102	11.666	.04	247	0.0700	-.84	157	17.300	-.27	040	3.3000	-.61	409	0.0023	-.58
Avg	11.563					102	17.015	-.35	232	2.8600	-.98			
247	11.000	-.14	--	Method 190.00	--	247	15.500	-.73	324	2.7000	-1.34	--	Method 221.XX	--
232	5.3500	-1.69	105	14.395	.71	288	15.500	-.74	288	2.5000	-1.43	086	0.0063 s	11.37
						419	15.300	-.95	419	3.5000 R	-1.45	419	0.0031	1.94
--	Method 151.99	--	--	Method 190.99	--	232	13.190	-1.32				234	0.0030	1.79
409	12.000	1.26	009	14.035	.71				--	Method 221.00	--	105	0.0025 R	1.49
Avg	10.235					--	Method 202.00	--	086	0.0063 s	7.28	029	0.0028	1.21
220	9.4000	-.66	--	Method 190.XX	--	220	5.0000	.00	234	0.0030	1.14	073	0.0028	1.15
040	9.3050	-.68	105	14.395	.88				105	0.0025	.95	233	0.0026	.87
			Avg	14.215		--	Method 202.30	--	029	0.0028	.77	102	0.0026	.85
--	Method 151.XX	--	009	14.035	-.85	009	11.275 s	7.54	073	0.0028	.73	106	0.0024	.58
288	16.000	1.85				106	5.2000	1.54	233	0.0026	.56	040	0.0025	.35
419	13.800	1.15	--	Method 191.00	--	247	4.5000	.85	Avg	0.0024		288	0.0025	.25
409	12.000	.19	220	20.000	.71	389	4.5000	.85	043	0.0024	-.11	Avg	0.0024	
102	11.666	.07				Avg	3.6414		028	0.0022	-.34	043	0.0024	-.17
Avg	11.534		--	Method 191.30	--	102	3.5710	-.14	095	0.0018	-1.08	409	0.0023	-.37
247	11.000	-.22	035	18.950 R	1.60	040	3.3000	-.45	390	0.0015	-1.88	389	0.0023	-.40
220	9.4000	-.90	009	22.260	1.54	232	2.8600	-.78				035	0.0023	-.40
040	9.3050	-.93	389	22.000	1.48	324	2.7000	-1.16	--	Method 221.30	--	028	0.0022	-.52
136	9.1000	-1.01	157	17.300	.01	288	2.5000	-1.23	419	0.0031	2.30	330	0.0022	-.52
232	5.3500 R	-2.84	Avg	17.258		419	3.5000 R	-1.39	102	0.0026	1.10	009	0.0021	-.77
			102	17.015	-.10				040	0.0025	.54	057	0.0023	-.91
--	Method 181.00	--	247	15.500	-.54	--	Method 202.99	--	288	0.0025	.44	157	0.0021	-.97
220	1.0000	.00	288	15.500	-.56	409	4.5000	.87	Avg	0.0023		232	0.0021	-.97
			419	15.300	-.88	Avg	4.0000		035	0.0023	-.27	324	0.0020	-1.24
--	Method 181.30	--	232	13.190	-1.25	320	3.5000	-.87	389	0.0023	-.27	095	0.0018	-1.68
389	0.4600 R	2.62							330	0.0022	-.38			
157	0.3000	1.07	--	Method 191.99	--	--	Method 202.XX	--	009	0.0021	-.67	247	0.0002 s	-6.34
419	0.2000	.10	409	25.500	.71	009	11.275 s	7.48						
Avg	0.1900					106	5.2000	1.38	157	0.0021	-.86	--	Method 241.00	--
247	0.0700	-1.16	--	Method 191.XX	--	220	5.0000	1.18	057	0.0023	-.94	086	0.1923	.55
			409	25.500	1.83	409	4.5000	.84	324	0.0020	-1.19	Avg	0.1871	

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 241.00	--	--	Method 251.30	--	--	Method 261.XX	--	--	Method 289.XX	--	--	Method 301.99	--
105	0.1820	-1.09	157	1.6000	-1.21	035	0.2150 s	116.83	247	1.9000	.33	220	0.2500	1.32
						131	0.0236	2.00	Avg	1.7124		296	0.1720	.45
--	Method 241.30	--	--	Method 251.99	--	247	0.0213	.61	232	1.6650	-.18	Avg	0.1368	
131	0.2270	1.75	409	4.5000	.90	086	0.0206	.22	409	1.5500	-.29	040	0.0700	-.79
247	0.2050	.54	Avg	3.3500		Avg	0.0203		102	1.2893	-.73	131	0.0550	-.97
Avg	0.1968		040	2.2000	-.83	057	0.0199	-.24	157	1.2350	-.83			
057	0.1913	-.35				102	0.0196	-.45	288	0.7500	-1.72	--	Method 301.XX	--
035	0.1950	-.57	--	Method 251.XX	--	105	0.0200	-.62				288	19.500	2.13
102	0.1861	-.62	419	33.100 s	17.96	009	0.0192	-.65	--	Method 291.00	--	419	7.1500 R	.49
009	0.1765	-1.15	324	6.5000 R	1.83	320	0.0181	-1.42	220	9.5500	-.71	Avg	3.6412	
			288	6.5000	1.79	232	0.0161 R	-2.78				247	1.8000	-.25
--	Method 241.99	--	220	5.0000	.85				--	Method 291.30	--	220	0.2500	-.46
320	0.1451	.71	409	4.5000	.62	--	Method 281.99	--	247	11.000	1.32	296	0.1720	-.47
			389	4.0500	.27	040	0.0250	1.12	102	10.292	.13	040	0.0700	-.48
--	Method 241.XX	--	Avg	3.6081		Avg	0.0225		Avg	10.264		131	0.0550	-.48
131	0.2270	1.74	136	2.5150	-.67	220	0.0200	-.50	009	10.230	-.14			
247	0.2050	.76	247	2.5000	-.67				157	9.5350	-1.31	--	Method 311.99	--
035	0.1950	.53	040	2.2000	-.86	--	Method 289.30	--	324	8.3000 s	-3.88	102	0.4460	1.55
057	0.1913	.17	157	1.6000	-1.22	057	2.5000	1.54				035	0.4095	.58
086	0.1923	.16				009	2.3850	1.13	--	Method 291.99	--	Avg	0.3914	
Avg	0.1889		--	Method 261.00	--	324	1.7500	.57	035	6.3450	-.71	247	0.3800	-.32
102	0.1861	-.16	086	0.0206	.37	247	1.9000	.35				009	0.3672	-.70
105	0.1820	-.51	Avg	0.0203		Avg	1.6843		--	Method 291.XX	--	320	0.3545	-1.09
009	0.1765	-.56	105	0.0200	-1.17	232	1.6650	-.16	247	11.000	.97			
320	0.1451	-1.99				102	1.2893	-.64	102	10.292	.51	--	Method 321.00	--
			--	Method 261.30	--	157	1.2350	-.72	009	10.230	.48	086	0.0217 S	23.67
--	Method 251.00	--	035	0.2150 s	113.78	288	0.7500	-1.56	220	9.5500	.05	043	0.0158 S	16.32
220	5.0000	.87	131	0.0236	1.70				157	9.5350	.03	233	0.0046 R	2.54
Avg	3.7575		247	0.0213	.34	--	Method 289.99	--	Avg	9.4920		029	0.0040	1.71
136	2.5150	-.87	Avg	0.0207		220	2.1000	1.01	324	8.3000 R	-.96	028	0.0029	.36
			057	0.0199	-.48	Avg	1.8250		035	6.3450	-2.02	Avg	0.0026	
--	Method 251.30	--	102	0.0196	-.68	409	1.5500	-.69				095	0.0020	-.69
419	33.100 S	13.32	009	0.0192	-.88				--	Method 301.30	--	234	0.0020	-.69
324	6.5000	1.11	232	0.0161 R	-2.95	--	Method 289.XX	--	288	19.500	1.23	105	0.0020	-.69
288	6.5000	1.07				057	2.5000	1.62	Avg	9.4833				
Avg	4.2300		--	Method 261.99	--	009	2.3850	1.17	419	7.1500	-.30	--	Method 321.30	--
389	4.0500	-.09	320	0.0181	.71	220	2.1000	.85	247	1.8000	-.94	057	0.0175 s	17.29
247	2.5000	-.80				324	1.7500	.61				009	0.0101 s	8.97

* 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>
--	Method 321.30	--	--	Method 321.XX	--									
035	0.0034	1.43	234	0.0020	-.41									
389	0.0031	1.03	105	0.0020	-.41									
419	0.0022 R	.95	095	0.0020	-.41									
040	0.0028	.93	320	0.0019	-.59									
324	0.0028	.72	288	0.0018	-.77									
330	0.0022	.24	419	0.0022 R	-.93									
232	0.0023	.19	157	0.0014	-1.11									
102	0.0022	.12	106	0.0009	-1.54									
Avg	0.0021		247	0.0006	-1.88									
288	0.0018	-.58												
157	0.0014	-.89												
106	0.0009	-1.35												
247	0.0006	-1.72												
--	Method 321.99	--												
409	0.0030	1.16												
Avg	0.0024													
220	0.0023	-.13												
320	0.0019	-1.07												
--	Method 321.XX	--												
086	0.0217 s	20.27												
057	0.0175 s	15.85												
043	0.0158 s	14.03												
009	0.0101 A	8.09												
233	0.0046	2.33												
029	0.0040	1.63												
035	0.0034	1.05												
389	0.0031	.69												
040	0.0028	.65												
409	0.0030	.58												
028	0.0029	.48												
324	0.0028	.40												
Avg	0.0024													
232	0.0023	-.10												
220	0.0023	-.10												
102	0.0022	-.17												
330	0.0022	-.29												

* 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	7	0.0000	1.02	0.20	050.61	7	-0.0481	0.86	1.28
001.99	5	0.0000	1.05	0.14	050.99	13	0.1160	1.04	0.33
001.XX	12	0.0000	1.01	0.15	050.XX	66	-0.1000	1.15	0.34
009.10	3	0.0000	1.12	0.01	060.00	10	-0.1956	1.13	0.29
009.XX	3	0.0000	1.12	0.01	060.XX	11	-0.1660	1.10	0.28
010.11	13	-0.4425	1.84	0.42	101.00	2	0.0000	1.22	0.05
010.12	6	-0.7017	1.96	0.34	101.30	6	0.1233	1.00	0.05
010.60	45	-0.8181	5.50	0.31	101.XX	8	0.0000	1.03	0.05
010.99	4	0.0000	1.07	0.13	121.30	5	0.0000	1.02	0.25
010.XX	65	-0.6142	4.32	0.33	121.XX	7	0.0000	1.01	0.23
020.10	10	0.0000	1.01	0.19	144.01	3	0.0000	1.11	0.07
020.20	18	0.0992	2.36	0.17	144.02	2	0.0000	1.04	0.46
020.40	8	0.0000	0.97	0.33	144.99	4	0.0000	1.05	0.23
020.50	5	0.0000	1.03	0.24	144.XX	9	0.0000	1.01	0.19
020.99	2	0.0000	1.19	0.20	151.30	5	0.0000	0.98	0.37
020.XX	42	0.2086	1.75	0.32	151.99	3	0.0000	1.09	0.19
030.10	2	0.0000	1.18	0.24	151.XX	9	-0.2841	1.27	0.48
030.20	2	0.0000	0.00	0.00	181.30	4	0.6544	1.60	0.05
030.40	3	0.0000	0.76	0.67	181.XX	5	0.0351	0.94	0.01
030.XX	8	1.8247	5.24	0.32	190.XX	2	0.0000	1.18	0.24
040.10	2	0.0000	1.18	0.23	191.30	9	0.0575	0.95	0.56
040.20	2	0.0000	0.98	0.52	191.XX	11	0.0138	0.95	0.44
040.40	2	0.0000	0.75	0.68	202.30	10	0.7402	2.54	0.53
040.XX	6	0.0000	1.02	0.21	202.99	2	0.0000	0.87	0.61
041.10	20	0.0674	1.97	0.40	202.XX	13	0.5500	2.26	0.51
041.20	3	0.0000	1.11	0.08	221.00	10	0.7253	2.45	0.48
041.40	5	0.2262	1.05	1.29	221.30	13	-0.5154	2.06	0.37
041.50	6	0.8829	1.57	0.47	221.99	2	0.0000	0.37	0.83
041.60	10	-1.5435	4.97	0.20	221.XX	25	0.1116	2.83	0.55
041.99	2	0.0000	0.00	0.87	241.00	2	0.0000	0.77	0.68
041.XX	39	-0.4721	4.51	0.45	241.30	6	0.0000	0.99	0.31
048.20	2	0.0000	1.21	0.13	241.XX	9	0.0000	0.99	0.27
048.99	3	0.0000	1.11	0.10	251.00	2	0.0000	1.22	0.02
048.XX	5	0.0000	1.06	0.09	251.30	6	2.2200	5.52	0.23
050.00	23	-0.0354	1.61	0.29	251.99	2	0.0000	1.17	0.26
050.30	11	-0.2804	1.31	0.32	251.XX	10	1.9714	5.71	0.26
050.50	3	-1.2326	2.16	0.82	261.00	2	0.0000	0.51	0.79
050.51	6	-0.4975	1.53	0.48	261.30	7	15.8681	43.20	0.51
050.60	6	-0.4454	1.42	0.58	261.XX	10	11.4318	37.05	0.50

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
281.99	2	0.0000	0.71	0.71					
281.XX	2	0.0000	0.71	0.71					
289.30	8	0.0000	0.95	0.38					
289.99	2	0.0000	0.96	0.53					
289.XX	10	0.0000	0.94	0.40					
291.30	5	-0.7057	1.83	0.73					
291.XX	7	-0.1091	1.00	0.22					
301.30	3	0.0000	1.11	0.07					
301.99	4	0.0000	1.07	0.14					
301.XX	7	0.0674	0.97	0.05					
311.99	5	0.0000	1.04	0.20					
311.XX	5	0.0000	1.04	0.20					
321.00	8	5.3050	9.33	0.61					
321.30	14	1.8744	5.10	0.46					
321.99	3	0.0000	1.10	0.18					
321.XX	24	2.4226	5.89	0.41					