

MAGRUDER - Fertilizer Check Sample No. - 200109 Grade 10-20-20

- Pass 1 Results for 84 Labs - - Pass 2 Results for 81 Labs -

Method	AOAC Ref.	Method Code	No. of Labs	Grand Avq.	Std. Dev.	Average Range of Dups	No. of Labs	Grand Avq.	Std. Dev.	Average Range of Dups
Ammoniacal Nitrogen, Other		001.99	4	10.035	0.2290	0.1850	4	10.035	0.2290	0.1850
Nitrate Nitrogen, Other		002.99	2	0.1450	0.0870	0.0100	2	0.1450	0.0870	0.0100
Ammon & Nitrate N, Devarda	892.01	009.10	4	9.9175	0.1386	0.0300	3	9.9067	0.1592	0.0067
Total Nitrogen, Modified Comprehensive	978.02	010.11	10	9.9144	0.1110	0.0421	9	9.9060	0.1116	0.0313
Total Nitrogen, Salicylic	955.04D	010.12	7	10.015	0.0914	0.0351	7	10.015	0.0914	0.0351
Total Nitrogen, Combustion		010.60	46	10.097	0.1189	0.0524	45	10.099	0.1183	0.0487
Total Nitrogen, Other		010.99	6	9.9261	0.1784	0.0770	6	9.9261	0.1784	0.0770
Method Group 010.XX PCT			69	10.047	0.1416	0.0513	67	10.048	0.1422	0.0461
Total Phosphate, Grav Quimociac	962.02	020.10	8	19.648	0.1141	0.0484	8	19.648	0.1141	0.0484
Total Phosphate, Spectrometric	958.01	020.20	17	19.596	0.2043	0.1176	17	19.596	0.2043	0.1176
Total Phosphate, Alka. Quimociac	969.02	020.30	1	19.691	0.0254	0.0359	1	19.691	0.0254	0.0359
Total Phosphate, Automated	978.01	020.40	6	19.623	0.1391	0.0667	6	19.623	0.1391	0.0667
Total Phosphate, ICP		020.50	3	19.777	0.3649	0.3067	3	19.777	0.3649	0.3067
Total Phosphate, Other		020.99	2	19.707	0.0659	0.0112	2	19.707	0.0659	0.0112
Method Group 020.XX PCT			38	19.646	0.2018	0.1075	37	19.648	0.1943	0.0901
Insoluble Phosphate, Grav Quimociac	963.03C	030.10	1	0.0000	0.0000	0.0000	1	0.0000	0.0000	0.0000
Insoluble Phosphate, Spectrometric	963.03C	030.20	1	0.0650	0.0071	0.0100	1	0.0650	0.0071	0.0100
Insoluble Phosphate, Automated	978.01	030.40	3	0.0300	0.0261	0.0333	3	0.0300	0.0261	0.0333
Insoluble Phosphate, Other		030.99	1	0.0250	0.0071	0.0100	1	0.0250	0.0071	0.0100
Method Group 030.XX PCT			6	0.0300	0.0266	0.0200	5	0.0270	0.0231	0.0100
InDir Available Phosphate, Grav Quim	960.02	040.10	1	19.750	0.0990	0.1400	1	19.750	0.0990	0.1400
InDir Available Phosphate, Spectrometri	960.02	040.20	1	19.435	0.1344	0.1900	1	19.435	0.1344	0.1900
InDir Available Phosphate, Automated	960.02	040.40	3	19.560	0.1462	0.0467	3	19.560	0.1462	0.0467
InDir Available Phosphate, Other		040.99	1	19.745	0.0354	0.0500	1	19.745	0.0354	0.0500
Method Group 040.XX PCT			6	19.602	0.1615	0.0867	6	19.602	0.1615	0.0867
Dir Available Phosphate, Grav Quim	960.03E	041.10	16	19.705	0.1924	0.0375	15	19.724	0.1825	0.0287
Dir Available Phosphate, Spectrometric	960.03D	041.20	3	19.263	0.3119	0.1120	3	19.263	0.3119	0.1120
Dir Available Phosphate, Alka. Quim	960.03C	041.30	1	19.690	0.0566	0.0800	1	19.690	0.0566	0.0800
Dir Available Phosphate, Automated	978.01	041.40	4	19.473	0.2268	0.0700	4	19.473	0.2268	0.0700
Dir Available Phosphate, ICP		041.50	9	19.718	0.4416	0.2054	9	19.718	0.4416	0.2054
Dir Available Phosphate, EDTA Extract	993.01	041.60	7	19.443	0.1982	0.0606	7	19.443	0.1982	0.0606
Dir Available Phosphate, Other		041.99	1	20.000	0.2828	0.4000	1	20.000	0.2828	0.4000
Method Group 041.XX PCT			42	19.628	0.3217	0.0962	38	19.610	0.2789	0.0589
Water Soluble Phosphate, Grav Quimociac	962.03	048.10	1	18.915	0.1768	0.2500	1	18.915	0.1768	0.2500
Water Soluble Phosphate, Spectrometric	970.01	048.20	3	18.632	0.2515	0.1900	3	18.632	0.2515	0.1900
Water Soluble Phosphate, Other		048.99	3	19.905	0.8596	0.1300	3	19.905	0.8596	0.1300
Method Group 048.XX PCT			7	19.218	0.8376	0.1729	7	19.218	0.8376	0.1729
Soluble Potash, STPB Oxalate	958.02	050.00	19	20.511	0.2135	0.0906	19	20.511	0.2135	0.0906
Soluble Potash, AA (Oxalate)		050.30	9	20.363	0.2554	0.1903	9	20.363	0.2554	0.1903

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Soluble Potash, AA (Citrate) .....		050.31	1	21.300	0.4243	0.6000	1	21.300	0.4243	0.6000
Soluble Potash, ICP (Oxalate) .....		050.50	4	20.331	0.6455	0.2449	4	20.331	0.6455	0.2449
Soluble Potash, ICP (Citrate) .....		050.51	8	20.554	0.4875	0.1238	8	20.554	0.4875	0.1238
Soluble Potash, Flame (Oxalate) .....	983.02(a)	050.60	2	20.338	0.0665	0.0550	2	20.338	0.0665	0.0550
Soluble Potash, Flame (Citrate) .....	983.02(b)	050.61	7	20.594	0.4225	0.1800	6	20.672	0.3813	0.1000
Soluble Potash, Other .....		050.99	14	20.462	0.3997	0.1915	13	20.430	0.3787	0.1401
Method Group 050.XX PCT			67	20.533	0.4254	0.1702	61	20.504	0.3956	0.1181
Free Water, Vacuum Oven .....	965.08B	060.00	4	0.4973	0.1964	0.0352	4	0.4973	0.1964	0.0352
Free Water, Other .....		060.99	2	0.4625	0.0499	0.0450	2	0.4625	0.0499	0.0450
Method Group 060.XX PCT			6	0.4857	0.1598	0.0384	6	0.4857	0.1598	0.0384
Acid Soluble Calcium, ICP .....		101.30	4	0.7230	0.0233	0.0157	4	0.7230	0.0233	0.0157
Acid Soluble Magnesium, AA .....	984.01	121.00	1	0.5900	0.0424	0.0600	1	0.5900	0.0424	0.0600
Acid Soluble Magnesium, ICP .....		121.30	5	0.6129	0.0359	0.0046	5	0.6129	0.0359	0.0046
Acid Soluble Magnesium, Other .....		121.99	1	0.5439	0.0006	0.0008	1	0.5439	0.0006	0.0008
Method Group 121.XX PCT			7	0.5998	0.0407	0.0120	6	0.6014	0.0421	0.0039
Water Soluble Magnesium, Other .....		131.99	1	11.995	0.6293	0.8900	1	11.995	0.6293	0.8900
Sulfur, Gravimetric .....	980.02a	144.01	13	7.2032	0.1383	0.0536	12	7.2093	0.1399	0.0431
Sulfur, Gravimetric .....	980.02b	144.02	1	7.1550	0.0354	0.0500	1	7.1550	0.0354	0.0500
Sulfur, Other .....		144.99	18	7.2146	0.1644	0.0886	17	7.2069	0.1555	0.0659
Method Group 144.XX PCT			32	7.2081	0.1508	0.0732	30	7.1905	0.1268	0.0576
Arsenic, ICP .....		151.30	2	2.4000	2.4262	0.1000	2	2.4000	2.4262	0.1000
Arsenic, Other .....		151.99	3	1.2467	0.9430	0.0733	3	1.2467	0.9430	0.0733
Method Group 151.XX PPM			5	1.7080	1.6766	0.0840	5	1.7080	1.6766	0.0840
Acid Soluble Boron, Other .....		165.99	1	0.0022	0.0003	0.0005	1	0.0022	0.0003	0.0005
Cadmium, Atomic Absorption .....		181.00	2	12.150	0.5802	0.6000	2	12.150	0.5802	0.6000
Cadmium, ICP .....		181.30	9	11.541	0.7563	0.5083	8	11.621	0.6919	0.3469
Cadmium, Other .....		181.99	1	12.000	0.0000	0.0000	1	12.000	0.0000	0.0000
Method Group 181.XX PPM			12	11.680	0.7275	0.4813	11	11.751	0.6627	0.3614
Water Soluble Chlorine, Other .....		190.99	1	15.900	0.0178	0.0252	1	15.900	0.0178	0.0252
Chromium, ICP .....		191.30	5	77.894	22.662	3.4220	5	77.894	22.662	3.4220
Acid Soluble Cobalt, AA .....		202.00	1	6.5000	0.7071	1.0000	1	6.5000	0.7071	1.0000
Acid Soluble Cobalt, ICP .....	965.11	202.30	6	1.6303	1.0859	0.1747	6	1.6303	1.0859	0.1747
Acid Soluble Cobalt, Other .....		202.99	2	0.9750	0.0500	0.0500	2	0.9750	0.0500	0.0500
Method Group 202.XX PPM			9	2.0258	1.8757	0.2387	8	1.4665	0.9753	0.1435
Acid Soluble Copper, Atomic Absorption	975.01	221.00	4	0.0017	0.0008	0.0001	4	0.0017	0.0008	0.0001
Acid Soluble Copper, ICP .....		221.30	11	0.0011	0.0009	0.0001	10	0.0008	0.0003	0.0001
Acid Soluble Copper, Other .....		221.99	1	0.0007	0.0000	0.0000	1	0.0007	0.0000	0.0000
Method Group 221.XX PCT			16	0.0012	0.0009	0.0001	16	0.0012	0.0009	0.0001
Acid Soluble Iron, Atomic Absorption ..	980.01	241.00	1	0.2180	0.0014	0.0020	1	0.2180	0.0014	0.0020

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Acid Soluble Iron, ICP .....		241.30	5	0.2199	0.0085	0.0029	5	0.2199	0.0085	0.0029
Acid Soluble Iron, Other .....		241.99	1	0.2265	0.0067	0.0095	1	0.2265	0.0067	0.0095
Method Group 241.XX PCT			7	0.2205	0.0077	0.0037	7	0.2205	0.0077	0.0037
Lead, ICP .....		251.30	7	5.4634	2.1095	1.0309	7	5.4634	2.1095	1.0309
Lead, Other .....		251.99	3	5.0800	1.6323	0.6867	3	5.0800	1.6323	0.6867
Method Group 251.XX PPM			10	5.3484	1.9438	0.9276	10	5.3484	1.9438	0.9276
Acid Soluble Manganese, AA .....	972.02a	261.00	1	120.00	0.0000	0.0000	1	120.00	0.0000	0.0000
Acid Soluble Manganese, ICP .....	972.02a	261.30	3	165.12	155.62	1.8333	3	165.12	155.62	1.8333
Acid Soluble Manganese, Other .....		261.99	1	59.500	0.7071	1.0000	1	59.500	0.7071	1.0000
Method Group 261.XX PCT			5	134.97	124.00	1.3000	5	134.97	124.00	1.3000
Mercury, ICP .....		281.30	1	4.8750	0.7707	1.0900	1	4.8750	0.7707	1.0900
Mercury, Other .....		281.99	2	0.0170	0.0196	0.0010	2	0.0170	0.0196	0.0010
Method Group 281.XX PPM			3	1.6363	2.5323	0.3640	3	1.6363	2.5323	0.3640
Molybdenum, ICP .....		289.30	8	2.5755	2.0970	0.3655	7	2.2427	1.9942	0.1420
Molybdenum, Other .....		289.99	2	1.7175	0.3293	0.0550	2	1.7175	0.3293	0.0550
Method Group 289.XX PPM			10	2.4039	1.9008	0.3034	9	2.1260	1.7637	0.1227
Nickel, ICP .....		291.30	9	7.1924	3.5834	0.5832	9	7.1924	3.5834	0.5832
Nickel, Other .....		291.99	1	6.5000	0.7071	1.0000	1	6.5000	0.7071	1.0000
Method Group 291.XX PPM			10	7.1232	3.4002	0.6249	10	7.1232	3.4002	0.6249
Selenium, Atomic Absorption .....		301.00	1	0.1400	0.0707	0.1000	1	0.1400	0.0707	0.1000
Selenium, Other .....		301.99	3	0.3640	0.4932	0.0100	3	0.3640	0.4932	0.0100
Method Group 301.XX PPM			4	0.3080	0.4304	0.0325	4	0.3080	0.4304	0.0325
Sodium, Atomic Absorption .....	983.04	311.00	1	0.4350	0.0071	0.0100	1	0.4350	0.0071	0.0100
Sodium, Other .....		311.99	4	0.4235	0.0166	0.0117	4	0.4235	0.0166	0.0117
Method Group 311.XX PCT			5	0.4258	0.0156	0.0114	5	0.4258	0.0156	0.0114
Acid Soluble Zinc, Atomic Absorption ..	975.02	321.00	4	0.0250	0.0014	0.0006	4	0.0250	0.0014	0.0006
Acid Soluble Zin, ICP .....		321.30	13	0.0283	0.0038	0.0016	12	0.0286	0.0035	0.0009
Acid Soluble Zinc, Other .....		321.99	2	0.0248	0.0003	0.0004	2	0.0248	0.0003	0.0004
Method Group 321.XX PCT			19	0.0273	0.0035	0.0013	18	0.0274	0.0034	0.0008

## Laboratory Averages &amp; Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	
--	Method 001.99	--	--	Method 010.12	--	--	Method 010.60	--	--	Method 010.XX	--	--	Method 010.XX	--	
289	10.285	1.66	137	9.9900	-.27	029	10.020 X	-.66	043	10.275	1.62	233	10.000	-.37	
320	10.035	.11	416	9.9624	-.71	106	10.020	-.68	157	10.265	1.53	029	9.9950	-.38	
Avg	10.035		326	9.8500	-1.81	296	10.010	-.75	325	10.235	1.31	028	9.9950	-.38	
376	9.9650	-.34		--	Method 010.60	--	037	10.010	-.75	389	10.225	1.25	137	9.9900	-.41
193	9.8550	-.79	376	10.708 s	5.15	023	10.045	-.78	402	10.205	1.22	035	9.9850	-.48	
			095	10.685 s	4.96	330	10.000	-.83	409	10.215	1.17	009	9.9750	-.53	
--	Method 002.99	--	292	10.335	2.01	233	10.000	-.85	275	10.175 X	1.03	023	10.045	-.53	
289	0.2200	.87	234	10.320	1.88	035	9.9850	-.98	405	10.185	.99	049	9.9700	-.56	
Avg	0.1450		131	10.305	1.75	009	9.9750	-1.05	025	10.175	.91	414	9.9600	-.64	
288	0.0700	-.86	220	10.295	1.67	041	10.000	-1.07	369	10.165	.82	377	9.9600	-.64	
			043	10.275	1.54	049	9.9700	-1.09	007	10.150	.80	073	9.9900	-.64	
--	Method 009.10	--	157	10.265	1.41	377	9.9600	-1.18	334	10.160	.78	041	10.000	-.66	
392	10.100	1.21	325	10.235	1.15	230	10.010 R	-1.19	390	10.155	.76	416	9.9624	-.66	
030	9.9500 R	.42	402	10.205	1.10	361	9.9450	-1.31	251	10.125	.66	090	9.9550	-.68	
Avg	9.9067		389	10.225	1.09	232	9.9000	-1.69	136	10.110	.52	361	9.9450	-.75	
258	9.8700	-.23	409	10.215	.98	401	9.9000	-1.75	185	10.115	.47	363	9.9450	-.75	
169	9.7500	-.99	275	10.175 X	.90	--	Method 010.99	--	247	10.070	.45	288	9.9400	-.77	
			025	10.175	.68	307	62.310 s	293.63	162	10.100	.36	415	9.9436	-.79	
--	Method 010.11	--	007	10.150	.61	354	10.854 S	5.22	262	10.100	.36	230	10.010 R	-.82	
322	10.578 s	6.03	369	10.165	.56	405	10.185	1.46	351	10.064	.27	381	9.9950 R	-.89	
073	9.9900 R	.98	334	10.160	.52	381	9.9950	.75	096	10.070	.26	232	9.9000	-1.05	
028	9.9950	.80	251	10.125	.52	024	10.015	.52	024	10.085	.26	153	9.8944	-1.08	
029	9.9950	.80	390	10.155	.49	Avg	9.9261		040	10.085	.26	401	9.9000	-1.13	
414	9.9600	.52	136	10.110	.35	153	9.8944	-.18	393	10.075	.26	326	9.8500	-1.40	
415	9.9436	.50	262	10.100	.01	177	9.7775	-.84	360	10.065	.21	177	9.7775	-1.91	
090	9.9550	.49	Avg	10.099		211	9.6900	-1.33	324	10.070	.17	148	9.7200	-2.31	
363	9.9450	.42	024	10.085	-.12	--	Method 010.XX	--	057	10.060	.16	309	9.7000	-2.45	
288	9.9400	.32	040	10.085	-.12	307	62.310 s	367.63	142	10.065	.12	211	9.6900	-2.53	
Avg	9.9060		324	10.070	-.26	354	10.854 s	5.69	Avg	10.048		--	Method 020.10	--	
148	9.7200	-1.67	142	10.065	-.29	376	10.708 s	4.64	028	10.030	-.13	162	20.050 s	3.80	
309	9.7000	-1.85	393	10.075	-.29	095	10.685 s	4.48	327	10.030	-.15	414	19.780	1.16	
			096	10.070	-.35	322	10.578 s	3.73	029	10.020 X	-.20	090	19.750	1.09	
--	Method 010.12	--	360	10.065	-.35	292	10.335	2.02	106	10.020	-.24	300	19.715	.59	
185	10.115	1.09	057	10.060	-.37	234	10.320	1.92	296	10.010	-.27	030	19.650	.44	
162	10.100	.93	247	10.070	-.56	131	10.305	1.81	037	10.010	-.28	030	19.650	.44	
351	10.064	.66	028	10.030	-.58	220	10.295	1.74	024	10.015	-.29	148	19.670	.21	
102	10.025	.40	327	10.030	-.59				102	10.025	-.30	Avg	19.648		
Avg	10.015								330	10.000	-.34	095	19.635	-.33	

\* 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 020.10	--	--	Method 020.50	--	--	Method 020.XX	--	--	Method 030.XX	--	--	Method 041.10	--
157	19.547	-.89	330	20.865 S	3.08	363	19.630	-.11	409	0.0250	-.23	Avg	19.724	
313	19.435	-1.87	389	20.125	.98	327	19.625	-.18	320	0.0250	-.23	040	19.690	-.19
			Avg	19.777		095	19.635	-.19	247	0.0200	-.53	414	19.655	-.40
--	Method 020.20	--	361	19.650	-.35	169	19.570	-.51	090	0.0000	-1.17	177	19.615	-.60
392	20.000	2.03	402	19.555	-1.19	157	19.547	-.53				137	19.600	-.68
232	19.895	1.47				369	19.600	-.57	--	Method 040.10	--	131	19.600	-.68
262	19.760	.81	--	Method 020.99	--	376	19.520	-.69	090	19.750	.71	028	19.560	-.90
324	19.675	.68	381	20.500 S	12.50	106	19.570	-.70				136	19.525	-1.09
362	19.705	.55	153	19.763	.86	193	19.500	-.81	--	Method 040.20	--	405	19.435	-1.59
369	19.600	.49	Avg	19.707		220	19.500	-.92	220	19.435	-.71	326	19.425 R	-1.70
288	19.680	.41	320	19.650	-.87	258	19.480	-.96						
327	19.625	.19				313	19.435	-1.10	--	Method 040.40	--	--	Method 041.20	--
363	19.630	.17	--	Method 020.XX	--	292	19.420	-1.18	409	19.665	.73	363	19.480	.71
Avg	19.596		330	20.865 s	6.42	289	19.405	-1.25	096	19.640	.58	362	19.440	.62
169	19.570	-.32	381	20.500 s	4.53	234	19.300	-1.87	Avg	19.560		Avg	19.263	
376	19.520	-.42	035	20.325 s	3.55	402	19.555 R	-1.99	289	19.375	-1.28	415	18.870	-1.27
106	19.570	-.55	389	20.125	2.48	334	19.210	-2.29						
220	19.500	-.68	162	20.050	2.23	309	17.975 s	-8.61	--	Method 040.99	--	--	Method 041.30	--
258	19.480	-.69	392	20.000	1.88				247	19.745	.71	260	19.690	.71
292	19.420	-.86	232	19.895	1.28	--	Method 030.10	--						
234	19.300	-1.53	414	19.780	.68	090	0.0000	.00	--	Method 040.XX	--	--	Method 041.40	--
334	19.210	-1.92	090	19.750	.64				090	19.750	1.02	025	19.670	.91
309	17.975 s	-7.94	324	19.675	.61	--	Method 030.20	--	247	19.745	.90	029	19.580	.48
			247	19.765	.61	220	0.0650	.71	409	19.665	.40	131	19.515	.20
--	Method 020.30	--	262	19.760	.59				096	19.640	.30	Avg	19.473	
416	19.691	-.71	153	19.763	.59	--	Method 030.40	--	Avg	19.602		049	19.125	-1.55
			096	19.685	.38	096	0.0450	1.46	220	19.435	-1.19			
--	Method 020.40	--	142	19.695	.37	Avg	0.0300		289	19.375	-1.41	--	Method 041.50	--
035	20.325 S	5.14	300	19.715	.34	409	0.0250	-.27				354	20.404	1.65
247	19.765	1.02	362	19.705	.32	247	0.0200	-.54	--	Method 041.10	--	251	20.110	.91
142	19.695	.65	030	19.650	.26				322	21.600 s	10.29	023	20.020	.70
096	19.685	.64	416	19.691	.24	--	Method 030.99	--	296	20.130	2.23	360	19.790	.61
			409	19.690	.22	320	0.0250	-.71	211	19.945	1.23	325	19.740	.07
Avg	19.623		288	19.680	.17				057	19.910	1.03	Avg	19.718	
193	19.500	-.96	148	19.670	.12	--	Method 030.XX	--	233	19.880	.86	361	19.605	-.26
289	19.405	-1.57	361	19.650	.05	096	0.0450 R	1.70	041	19.770	.30	393	19.500	-.50
			320	19.650	.05	220	0.0650	1.66	009	19.770	.25	102	19.290	-.97
			Avg	19.648		Avg	0.0270		029	19.770	.25	007	19.000	-1.69

\* 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 041.60	--	--	Method 041.XX	--	--	Method 048.XX	--	--	Method 050.30	--	--	Method 050.61	--
296	20.175 s	3.70	131	19.600	-.05	275	20.390 X	1.41	073	20.710	1.40	030	21.300	1.65
351	19.614	.87	029	19.580	-.11	Avg	19.218		234	20.505	.95	035	20.750	.40
095	19.545	.61	028	19.560	-.18	414	18.915	-.39	137	20.540	.71	025	20.765	.27
028	19.550	.57	043	19.545	-.24	247	18.850	-.45	405	20.445	.69	Avg	20.672	
043	19.545	.51	028	19.550	-.26	363	18.805	-.49	136	20.415	.21	028	20.595	-.20
177	19.515	.37	136	19.525	-.31	362	18.695	-.63	Avg	20.363		029	20.525	-.38
Avg	19.443		095	19.545	-.33	193	18.350	-1.04	142	20.250	-.45	049	20.095	-1.54
288	19.285	-.80	177	19.515	-.35	--	Method 050.00	--	262	20.325	-.59	041	20.130 R	-1.66
377	19.050	-2.00	131	19.515	-.35	095	21.655 s	5.38	040	20.115	-1.26	--	Method 050.99	--
--	Method 041.99	--	393	19.500	-.40	131	21.370 s	4.12	351	19.959	-1.58	360	21.265	2.21
401	20.000	.71	363	19.480	-.50	009	20.995	2.27	--	Method 050.31	--	330	20.870 R	1.62
--	Method 041.XX	--	405	19.435	-.64	057	20.740	1.08	233	21.300	.71	325	20.775	.91
322	21.600 s	7.13	326	19.425	-.73	211	20.695	.90	--	Method 050.51	--	376	20.695	.74
354	20.404 R	2.97	102	19.290	-1.16	414	20.695	.87	390	21.000 X	1.18	232	20.695	.70
296	20.175	2.03	288	19.285	-1.17	043	20.565	.68	354	20.601	.42	363	20.545	.32
296	20.130	1.86	049	19.125	-1.75	345	20.630	.56	Avg	20.331		Avg	20.430	
251	20.110	1.81	377	19.050	-2.02	350	20.570	.34	177	20.385	-.23	220	20.330	-.31
401	20.000 R	1.57	007	19.000 R	-2.30	220	20.515	.26	324	20.285	-.07	220	20.330	-.31
023	20.020	1.48	415	18.870	-2.66	326	20.530	.25	402	19.440	-1.39	381	20.405	-.39
211	19.945	1.21	--	Method 048.10	--	029	20.540	.14	--	Method 050.51	--	260	20.230	-.53
360	19.790 R	1.13	414	18.915	.71	Avg	20.511		389	21.250	1.43	401	20.300	-.86
057	19.910	1.08	--	Method 048.20	--	028	20.510	-.19	023	21.185	1.29	153	20.085	-.91
233	19.880	.97	247	18.850	.94	296	20.455	-.37	251	20.890	.73	247	20.040	-1.03
041	19.770	.58	362	18.695	.45	090	20.450	-.43	Avg	20.554		369	19.845	-1.56
029	19.770	.57	Avg	18.632		416	20.425	-.54	393	20.520	-.09	275	18.640 S	-4.73
009	19.770	.57	193	18.350	-1.19	162	20.370	-.66	361	20.380	-.36	193	17.650 s	-7.34
325	19.740	.47	--	Method 048.99	--	258	20.370	-.74	007	20.100	-.95	096	16.615 s	-10.08
260	19.690	.32	148	20.520	.72	300	20.350	-.86	102	20.060	-1.01	--	Method 050.XX	--
025	19.670	.30	275	20.390 X	.59	392	20.325	-.88	377	20.050	-1.08	157	21.792 s	5.10
040	19.690	.29	Avg	19.905		327	19.970	-2.53	--	Method 050.60	--	322	22.249 s	4.41
414	19.655	.18	363	18.805	-1.28	--	Method 050.10	--	288	20.380	.64	095	21.655	2.92
351	19.614	.08	--	Method 048.XX	--	322	22.249 S	.00	Avg	20.338		095	21.330 R	2.30
177	19.615	.02	148	20.520	1.55	--	Method 050.30	--	289	20.295	-1.04	131	21.370	2.24
Avg	19.610		--	Method 048.XX	--	157	21.792 s	8.27	415	18.071 S	-34.19	233	21.300 R	2.15
361	19.605	-.03	095	21.330 s	4.07	095	21.330 s	4.07	309	17.775 S	-38.52	030	21.300	2.01
137	19.600	-.04										360	21.265	1.93

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

## Laboratory Averages &amp; Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 050.XX	--	--	Method 050.XX	--	--	Method 060.99	--	--	Method 121.XX	--	--	Method 144.99	--
389	21.250	1.89	258	20.370	-.38	363	0.4950	.66	Avg	0.6014		401	7.3050	.67
023	21.185	1.72	405	20.445	-.42	Avg	0.4625		009	0.5882	-.33	324	7.3000	.60
390	21.000 R	1.55	381	20.405	-.44	320	0.4300	-1.03	035	0.5745	-.65	233	7.2700	.41
330	20.870 R	1.43	300	20.350	-.45	--	Method 060.XX	--	193	0.5900 R	-.76	247	7.2600	.39
009	20.995	1.24	392	20.325	-.46	416	0.7493	1.66	320	0.5439	-1.37	Avg	7.2069	
251	20.890	1.02	220	20.330	-.47	193	0.5800	.60	--	Method 131.99	--	057	7.1850	-.17
035	20.750	.70	289	20.295	-.55	363	0.4950	.07	040	11.995	-.71	040	7.1700	-.27
325	20.775	.69	324	20.285	-.55	Avg	0.4857		--	Method 144.01	--	177	7.1650	-.27
025	20.765	.67	262	20.325	-.58	320	0.4300	-.43	251	7.7300 s	3.75	029	7.1550 X	-.34
057	20.740	.60	142	20.250	-.64	362	0.3900 X	-.60	416	7.5127	2.20	023	7.1625	-.37
073	20.710	.56	260	20.230	-.69	361	0.2700	-1.35	095	7.3500	1.01	376	7.1500	-.49
376	20.695	.54	401	20.300 R	-.92	--	Method 101.30	--	416	7.5127	2.20	275	7.1200 X	-.72
211	20.695	.50	007	20.100	-1.05	009	0.7478	1.16	095	7.3500	1.01	028	7.0800	-.88
234	20.505	.49	153	20.085	-1.06	247	0.7365	.58	043	7.2850	.55	360	7.0550	-1.19
232	20.695	.49	049	20.095	-1.07	Avg	0.7230		296	7.2800	.53	096	6.8900	-2.04
414	20.695	.49	040	20.115	-1.11	102	0.7031	-.89	351	7.2195	.10	354	6.7050 S	-3.36
043	20.565	.37	102	20.060	-1.12	102	0.7031	-.89	Avg	7.2093		409	6.0600 s	-7.37
345	20.630	.32	247	20.040	-1.18	035	0.7045	-1.01	405	7.1800	-.22	131	5.8975 s	-8.42
354	20.601	.25	377	20.050	-1.21	--	Method 121.00	--	102	7.1822	-.23	--	Method 144.XX	--
028	20.595	.23	041	20.130 R	-1.26	193	0.5900	-.71	157	7.1522	-.41	035	7.9150 s	6.23
350	20.570	.19	327	19.970	-1.35	--	Method 121.30	--	262	7.1850	-.50	251	7.7300 s	4.28
326	20.530	.14	351	19.959	-1.38	131	0.6733	1.68	137	7.1200	-.64	330	7.6000 A	3.28
220	20.515	.14	369	19.845	-1.68	247	0.6161	.09	220	7.1300 R	-.86	416	7.5127	2.58
363	20.545	.14	402	19.440	-2.70	Avg	0.6129		193	7.0900	-.86	009	7.3449 R	2.23
137	20.540	.14	275	18.640 s	-4.72	102	0.6126	-.03	327	6.9550	-1.83	095	7.3500	1.26
028	20.510	.10	415	18.071 s	-6.17	009	0.5882	-.70	--	Method 144.02	--	288	7.3450	1.22
029	20.540	.09	309	17.775 s	-6.90	035	0.5745	-1.08	292	7.1550	.71	300	7.3050	.97
393	20.520	.09	193	17.650 s	-7.22	--	Method 121.99	--	--	Method 144.50	--	401	7.3050	.94
029	20.525	.05	096	16.615 s	-9.84	320	0.5439	-.71	289	2.8200 S	.00	324	7.3000	.87
Avg	20.504		--	Method 060.00	--	--	Method 121.XX	--	--	Method 144.99	--	043	7.2850	.76
296	20.455	-.19	416	0.7493	1.29	131	0.6733	1.71	035	7.9150 s	4.98	296	7.2800	.72
090	20.450	-.22	193	0.5800	.43	247	0.6161	.35	--	Method 144.99	--	233	7.2700	.63
136	20.415	-.23	Avg	0.4973		102	0.6126	.27	009	7.3449 R	1.76	247	7.2600	.60
416	20.425	-.28	362	0.3900 X	-.55	--	Method 121.99	--	330	7.6000	2.57	351	7.2195	.24
288	20.380	-.31	361	0.2700	-1.16	131	0.6733	1.71	009	7.3449 R	1.76	Avg	7.1905	
361	20.380	-.31	--	Method 060.00	--	247	0.6161	.35	288	7.3450	.89	405	7.1800	-.11
162	20.370	-.34	--	Method 121.00	--	102	0.6126	.27	300	7.3050	.69	057	7.1850	-.13
177	20.385	-.36	--	Method 121.30	--	--	Method 121.99	--	--	Method 144.99	--	--	Method 144.99	--

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

## Laboratory Averages &amp; Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 144.XX	--	--	Method 151.XX	--	--	Method 181.XX	--	--	Method 202.XX	--	--	Method 221.XX	--
102	7.1822	-.15	Avg	1.7080		102	11.221	-.81	009	2.0300	.59	324	0.0038	2.86
177	7.1650	-.20	409	1.0000	-.42	009	11.095	-.99	Avg	1.4665		029	0.0030	2.02
040	7.1700	-.23	040	0.3400	-.82	232	10.600	-1.84	096	1.3000	-.17	106	0.0013	.13
029	7.1550 X	-.28	096	0.3000	-.84	324	10.900 R	-1.87	102	1.0570	-.42	193	0.0013	.09
157	7.1522	-.30							409	1.0000	-.48	Avg	0.0012	
292	7.1550	-.34	--	Method 165.99	--	--	Method 190.99	--	320	0.9500	-.53	330	0.0011	-.10
023	7.1625	-.36	009	0.0022	.71	009	15.900	.71	389	0.8500	-.63	028	0.0011	-.16
376	7.1500	-.51							040	0.7950 X	-.70	102	0.0009	-.28
262	7.1850	-.51	--	Method 181.00	--	--	Method 191.30	--				009	0.0009	-.34
137	7.1200	-.56	193	12.500	1.05	035	95.050	.77	--	Method 221.00	--	040	0.0009	-.37
275	7.1200 X	-.78	Avg	12.150		009	90.335	.56	029	0.0030	1.61	389	0.0009	-.38
193	7.0900	-.81	300	11.800	-.63	057	86.250	.37	Avg	0.0017		035	0.0009	-.38
220	7.1300	-.86				102	81.833	.17	106	0.0013	-.42	232	0.0008	-.40
028	7.0800	-.96	--	Method 181.30	--	Avg	77.894		193	0.0013	-.48	247	0.0008	-.42
360	7.0550	-1.35	389	12.500	1.46	247	36.000	-1.85	028	0.0011	-.72	096	0.0008	-.43
327	6.9550	-1.88	376	12.450	1.25							409	0.0007	-.54
096	6.8900	-2.37	096	12.000	.55	--	Method 202.00	--	--	Method 221.30	--	402	0.0000	-1.32
354	6.7050 s	-4.00	Avg	11.621		106	6.5000	.71	057	0.0040 s	15.24			
409	6.0600 s	-8.92	035	11.600	-.15				354	0.0040 S	11.72	--	Method 241.00	--
131	5.8975 s	-10.20	057	11.500	-.17	--	Method 202.30	--	324	0.0038 A	10.32	193	0.2180	.71
289	2.8200 s	-34.48	102	11.221	-.59	324	10.900 S	8.58	330	0.0011	1.07			
			009	11.095	-.76	247	3.7500	1.97	102	0.0009	.53	--	Method 241.30	--
			232	10.600	-1.58	009	2.0300	.38	009	0.0009	.36	035	0.2335 S	2.62
--	Method 151.30	--	324	10.900 R	-1.67	Avg	1.6303		232	0.0008	.32	131	0.2346	1.76
009	947.88 S	389.69				096	1.3000	-.30	035	0.0009	.27	102	0.2204	.08
247	4.5000	.87	--	Method 181.99	--	102	1.0570	-.53	389	0.0009	.27	Avg	0.2199	
Avg	2.4000		409	12.000	.00	389	0.8500	-.72	040	0.0009	.21	247	0.2180	-.25
096	0.3000	-.87				040	0.7950 X	-.77	247	0.0008	.07	009	0.2139	-.75
			--	Method 181.99	--				096	0.0008	.03	057	0.2126	-.88
--	Method 151.99	--	--	Method 181.XX	--	--	Method 202.99	--	Avg	0.0008				
376	2.4000	1.23	193	12.500	1.36				402	0.0000	-2.76	--	Method 241.99	--
Avg	1.2467		389	12.500	1.36	409	1.0000	.50				320	0.2265	.71
409	1.0000	-.26	376	12.450	1.12	Avg	0.9750		--	Method 221.99	--			
040	0.3400	-.96	096	12.000	.38	320	0.9500	-1.12	409	0.0007	.00	--	Method 241.XX	--
			409	12.000	.38							035	0.2335 s	2.81
--	Method 151.XX	--	300	11.800	.17	--	Method 202.XX	--	--	Method 221.XX	--	131	0.2346	1.84
009	947.88 s	564.34	Avg	11.751		324	10.900 s	9.72	057	0.0040 s	4.56	320	0.2265	.98
247	4.5000	1.67	035	11.600	-.27	106	6.5000 R	5.19	354	0.0040 s	3.33	Avg	0.2205	
376	2.4000	.42	057	11.500	-.38	247	3.7500	2.36						

\* 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 241.XX	--	--	Method 261.30	--	--	Method 289.30	--	--	Method 291.XX	--	--	Method 311.XX	--
102	0.2204	-.05	247	366.00	1.29	102	1.2490	-.50	376	9.9500	.83	009	0.4463	1.46
193	0.2180	-.35	Avg	165.12		096	1.0000	-.62	057	8.4500	.48	193	0.4350	.67
247	0.2180	-.35	102	66.850	-.63				Avg	7.1232		Avg	0.4258	
009	0.2139	-.90	057	62.500	-.66	--	Method 289.99	--	102	6.7465	-.12	035	0.4200	-.54
057	0.2126	-1.05				409	2.0000	.86	009	6.7450	-.14	320	0.4198	-.57
			--	Method 261.99	--	Avg	1.7175		409	6.5000	-.23	247	0.4080	-1.14
--	Method 251.30	--	320	59.500	.71	040	1.4350	-.87	096	6.0000	-.33			
324	8.7500	1.60							232	5.7500	-.42	--	Method 321.00	--
035	7.1000	1.04	--	Method 261.XX	--	--	Method 289.XX	--	035	5.1400	-.61	106	0.0265	1.02
232	6.0000 X	.54	247	366.00	1.86	247	6.9000	2.71	324	1.3000	-1.71	028	0.0261	.77
Avg	5.4634		Avg	134.97		009	4.9050 R	1.67				Avg	0.0250	
247	5.1500	-.16	193	120.00	-.12	Avg	2.1260		--	Method 301.00	--	095	0.0241	-.76
389	5.0000	-.22	102	66.850	-.55	409	2.0000	-.07	131	0.1400	-.71	193	0.0235	-1.13
096	3.3500	-1.00	057	62.500	-.58	057	1.9000	-.14						
102	2.8940	-1.22	320	59.500	-.61	324	1.6500	-.28	--	Method 301.99	--	--	Method 321.30	--
						389	1.5000	-.35	409	1.0000	1.29	096	2.8250 s	798.31
--	Method 251.99	--	--	Method 281.30	--	232	1.5000	-.36	Avg	0.3640		057	0.0360	2.10
376	7.1000	1.27	040	4.8750 X	.71	040	1.4350	-.39	376	0.0720	-.59	040	0.0344	1.66
Avg	5.0800					102	1.2490	-.50	040	0.0200 X	-.70	376	0.0300	.70
040	4.1400	-.66	--	Method 281.99	--	096	1.0000	-.64				023	0.0295	.29
409	4.0000	-.66	376	0.0340	.87				--	Method 301.XX	--	Avg	0.0286	
			Avg	0.0170		--	Method 291.30	--	409	1.0000	1.61	330	0.0284	-.15
--	Method 251.XX	--	040	0.0000 X	-.87	247	14.650	2.08	Avg	0.3080		354	0.0280	-.17
324	8.7500	1.79				376	9.9500	.77	131	0.1400	-.41	009	0.0276	-.29
035	7.1000	1.18	--	Method 281.XX	--	057	8.4500	.44	376	0.0720	-.55	035	0.0268	-.52
376	7.1000	.94	040	4.8750 X	1.30	Avg	7.1924		040	0.0200 X	-.67	102	0.0268	-.54
232	6.0000 X	.61	Avg	1.6363		102	6.7465	-.13				389	0.0265	-.62
Avg	5.3484		376	0.0340	-.63	009	6.7450	-.15	--	Method 311.00	--	131	0.0258	-.82
247	5.1500	-.13	040	0.0000 X	-.65	096	6.0000	-.33	193	0.4350	.71	232	0.0237	-1.42
389	5.0000	-.18				232	5.7500	-.41				251	0.0250 R	-1.76
040	4.1400	-.68	--	Method 289.30	--	035	5.1400	-.59	--	Method 311.99	--	402	0.0140 S	-4.18
409	4.0000	-.69	247	6.9000	2.34	324	1.3000	-1.64	009	0.4463	1.50	247	0.0066 S	-6.27
096	3.3500	-1.03	009	4.9050 R	1.42				Avg	0.4235		324	0.0007 S	-7.95
102	2.8940	-1.26	Avg	2.2427		--	Method 291.99	--	035	0.4200	-.42			
			057	1.9000	-.18	409	6.5000	.71	320	0.4198	-.45	--	Method 321.99	--
--	Method 261.00	--	324	1.6500	-.31				247	0.4080	-.94	320	0.0250	1.04
193	120.00	.00	389	1.5000	-.37	--	Method 291.XX	--				Avg	0.0248	
			232	1.5000	-.38	247	14.650	2.21				409	0.0246	-.65

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

## Laboratory Averages &amp; 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.XX	--											
096	2.8250	s	824.13											
057	0.0360		2.52											
040	0.0344		2.07											
376	0.0300		.97											
023	0.0295		.64											
330	0.0284		.31											
354	0.0280		.18											
009	0.0276		.06											
Avg	0.0274													
035	0.0268		-.19											
102	0.0268		-.24											
106	0.0265		-.26											
389	0.0265		-.30											
028	0.0261		-.39											
131	0.0258		-.49											
320	0.0250		-.71											
409	0.0246		-.82											
095	0.0241		-.99											
232	0.0237		-1.11											
193	0.0235		-1.15											
251	0.0250	R	-1.63											
402	0.0140	s	-3.95											
247	0.0066	s	-6.11											
324	0.0007	s	-7.85											

\* 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
001.99	4	0.0000	0.80	0.63	060.99	2	0.0000	0.92	0.57
001.XX	4	0.0000	0.80	0.63	060.XX	6	0.0000	1.04	0.14
002.99	2	0.0000	1.22	0.08	101.30	4	0.0000	0.97	0.41
002.XX	2	0.0000	1.22	0.08	101.XX	4	0.0000	0.97	0.41
009.10	4	0.0680	0.92	0.16	121.30	5	0.0000	1.06	0.08
009.XX	4	0.0680	0.92	0.16	121.XX	7	-0.0387	0.96	0.28
010.11	11	0.6163	2.02	0.26	144.01	14	0.2254	1.37	0.28
010.12	7	0.0000	1.00	0.26	144.99	22	-0.6173	2.79	0.63
010.60	48	0.1948	1.39	0.30	144.XX	38	-1.1317	6.21	0.62
010.99	8	37.3543	103.57	0.34	151.30	3	129.8962	224.99	0.21
010.XX	71	5.4369	43.62	0.27	151.99	3	0.0000	1.12	0.06
020.10	9	0.3919	1.49	0.54	151.XX	6	94.0569	230.39	0.22
020.20	18	-0.4409	2.09	0.34	181.00	2	0.0000	0.85	0.62
020.40	7	0.7206	2.11	0.46	181.30	9	-0.1157	0.96	0.55
020.50	4	0.7457	1.64	0.65	181.XX	12	-0.1071	0.97	0.54
020.99	3	4.0149	7.01	1.93	191.30	5	0.0000	1.06	0.09
020.XX	42	0.1199	2.08	0.51	191.XX	5	0.0000	1.06	0.09
030.40	3	0.0000	0.51	0.81	202.30	7	1.2195	3.36	0.33
030.XX	6	0.1298	0.97	0.66	202.99	2	0.0000	0.71	0.71
040.40	3	0.0000	1.10	0.17	202.XX	10	1.4834	3.43	0.35
040.XX	6	0.0000	0.99	0.32	221.00	4	0.0000	1.08	0.04
041.10	17	0.5085	2.72	0.16	221.30	13	2.5119	4.86	3.04
041.20	3	0.0000	1.09	0.19	221.XX	18	0.3479	1.39	0.83
041.40	4	0.0000	1.06	0.18	241.30	6	0.2682	1.14	0.86
041.50	9	0.0000	0.97	0.32	241.XX	8	0.2091	1.09	0.85
041.60	8	0.4614	1.61	0.18	251.30	7	0.0000	0.97	0.35
041.XX	38	0.2159	1.62	0.30	251.99	3	0.0000	1.07	0.26
048.20	3	0.0000	1.02	0.38	251.XX	10	0.0000	0.96	0.34
048.99	3	0.0000	1.11	0.10	261.30	3	0.0000	1.12	0.01
					261.XX	5	0.0000	1.06	0.01
050.00	21	0.4470	1.70	0.33	281.99	2	0.0000	1.22	0.04
050.30	11	0.8530	2.10	1.94	281.XX	2	-0.1582	0.67	0.69
050.50	4	0.0000	1.03	0.29	289.30	8	0.1669	1.07	0.18
050.51	8	0.0000	1.02	0.16	289.99	2	0.0000	1.21	0.12
050.60	4	-18.1494	21.04	1.45	289.XX	10	0.1576	1.09	0.18
050.61	7	-0.2029	1.08	0.37	291.30	9	0.0000	1.02	0.11
050.99	17	-1.2345	3.21	0.38	291.XX	10	0.0000	1.02	0.12
050.XX	70	-0.3545	2.22	0.57	301.99	3	0.0000	1.12	0.01
060.00	4	0.0000	1.07	0.10	301.XX	4	0.0000	1.08	0.06

## Method Evaluation - Z Values Based on 1 Reports

<u>Method Code</u>	<u>Number Of Labs</u>	<u>Avg Bias of Labs</u>	<u>Std Dev of Biases</u>	<u>Std Dev Within Labs</u>	<u>Method Code</u>	<u>Number Of Labs</u>	<u>Avg Bias of Labs</u>	<u>Std Dev of Biases</u>	<u>Std Dev Within Labs</u>
311.99	4	0.0000	0.98	0.40					
311.XX	5	0.0000	0.96	0.41					
321.00	4	0.0000	1.04	0.26					
321.30	17	45.8000	193.86	5.21					
321.99	2	0.0000	0.82	0.65					
321.XX	22	36.6383	175.84	4.72					