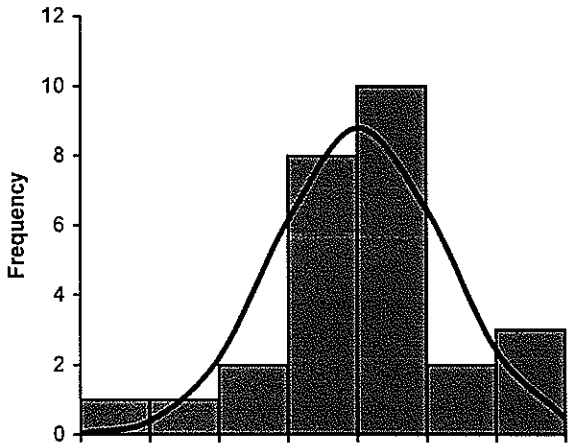
APPENDIX D

STATISTICAL ANALYSES DATA SHEETS

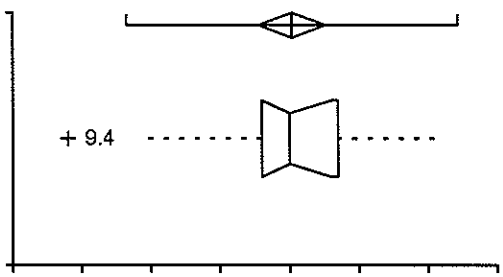
LIQUID SAMPLES

analysed with: Analyse-it + General 1.71

Test	**Continuous summary descriptives**
Variable	pH
Performed by	Marina Grigorova
Date	15 April 2005

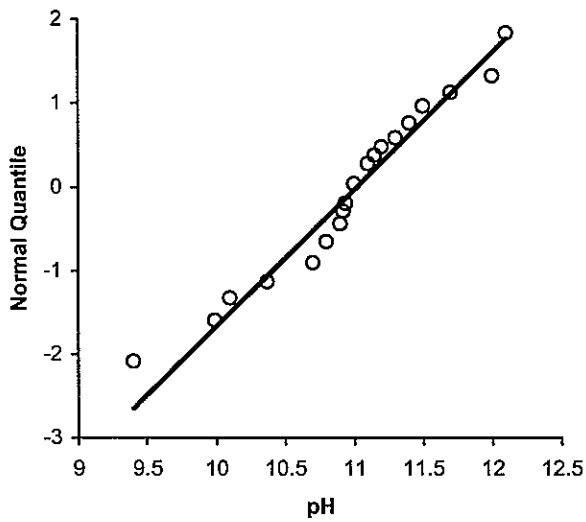


n	27
Mean	11.02
95% CI	10.78 to 11.259
Variance	0.37
SD	0.61
SE	0.1176
CV	6%



Median	11.0
98.1% CI	10.8 11.3
Range	2.7
IQR	0.55

Percentile	
2.5th	-
25th	10.80
50th	11.00
75th	11.35
97.5th	-



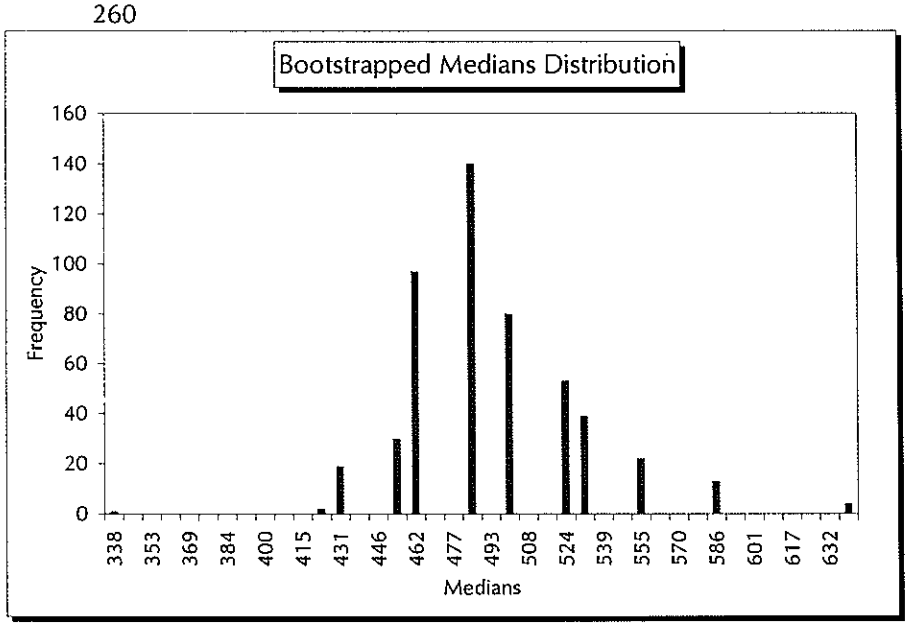
	Coefficient	p
Shapiro-Wilk	0.9484	0.1959
Skewness	-0.4345	0.3124
Kurtosis	1.0901	0.2001

Liquid Hardness
460
520
420
460
480
290
300
550
530
430
640
680
580
500
1,700
1,600
1,700
2,000
740
1,700
450
480
240
280
330
240
260

Counter: 500

Bootstrap Sample Size:	27
Number of Iteration:	500
Mean Median	490.18
Standard Deviation Median	35.97

Median	Frequency
337.8	1
345.5	0
353.3	0
361.0	0
368.8	0
376.5	0
384.3	0
392.0	0
399.8	0
407.5	0
415.3	0
423.0	2
430.8	19
438.5	0
446.3	0
454.0	30
461.8	97
469.5	0
477.3	0
485.0	140
492.8	0
500.5	80
508.3	0
516.0	0
523.8	53
531.5	39
539.3	0
547.0	0
554.8	22
562.5	0
570.3	0
578.0	0
585.8	13
593.5	0
601.3	0
609.0	0
616.8	0
624.5	0
632.3	0
640.0	4

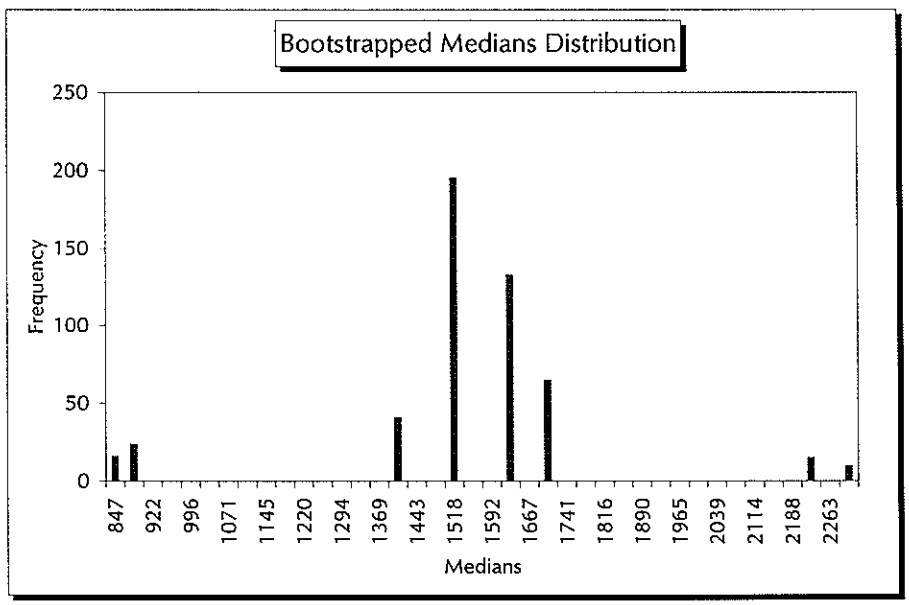


Liquid TDS
790
870
840
810
830
1,700
1,600
2,300
1,600
1,500
2,800
2,300
2,200
1,400
3,900
4,600
3,400
5,400
1,500
4,300
1,500
1,700
740
440
760
690
690

Counter: 500

Bootstrap Sample Size:	27
Number of Iteration:	500
Mean Median	1,529.82
Standard Deviation Median	262.14

Median	Frequency
847.3	16
884.5	24
921.8	0
959.0	0
996.3	0
1033.5	0
1070.8	0
1108.0	0
1145.3	0
1182.5	0
1219.8	0
1257.0	0
1294.3	0
1331.5	0
1368.8	0
1406.0	41
1443.3	0
1480.5	0
1517.8	196
1555.0	0
1592.3	0
1629.5	133
1666.8	0
1704.0	65
1741.3	0
1778.5	0
1815.8	0
1853.0	0
1890.3	0
1927.5	0
1964.8	0
2002.0	0
2039.3	0
2076.5	0
2113.8	0
2151.0	0
2188.3	0
2225.5	15
2262.8	0
2300.0	10

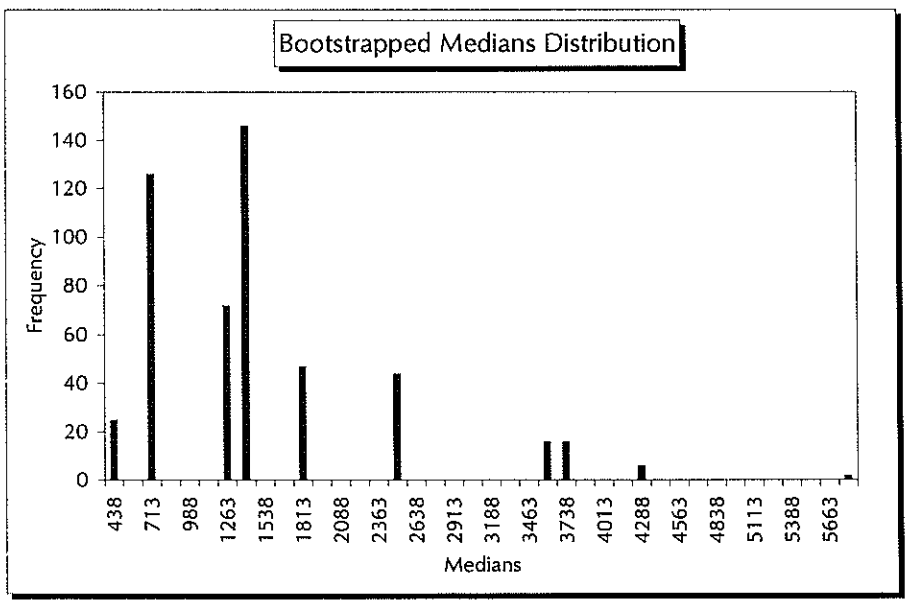


J:\Caltrans\2004-0074 PCC\Report\Bootstrap\LiqTDS.xls

Liquid Alkalinity
3,700
2,400
9,600
3,500
4,200
26,000
30,000
12,000
21,000
14,000
1,300
1,300
650
660
1,700
640
290
390
290
270
1,200
5,800
48
310
300
230
230

Counter:	500
Bootstrap Sample Size:	27
Number of Iteration:	500
Mean Median	1,409.96
Standard Deviation Median	885.00

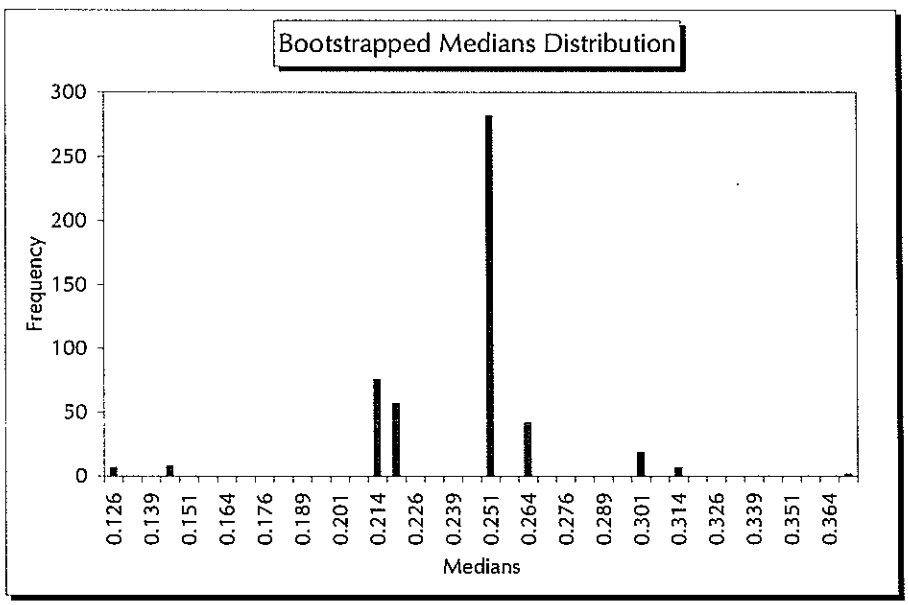
Median	Frequency
437.5	25
575.0	0
712.5	126
850.0	0
987.5	0
1125.0	0
1262.5	72
1400.0	146
1537.5	0
1675.0	0
1812.5	47
1950.0	0
2087.5	0
2225.0	0
2362.5	0
2500.0	44
2637.5	0
2775.0	0
2912.5	0
3050.0	0
3187.5	0
3325.0	0
3462.5	0
3600.0	16
3737.5	16
3875.0	0
4012.5	0
4150.0	0
4287.5	6
4425.0	0
4562.5	0
4700.0	0
4837.5	0
4975.0	0
5112.5	0
5250.0	0
5387.5	0
5525.0	0
5662.5	0
5800.0	2



Liquid
As
0.26
0.31
0.61
0.21
0.25
0.22
0.25
0.30
0.31
0.59
0.21
0.02
0.03
0.03
0.06
3.00
0.81
0.37
0.80
0.14
0.07
0.59
0.12
0.25
0.12
0.25
0.05

Counter:	500
Bootstrap Sample Size:	27
Number of Iteration:	500
Mean Median	0.24
Standard Deviation Median	0.03

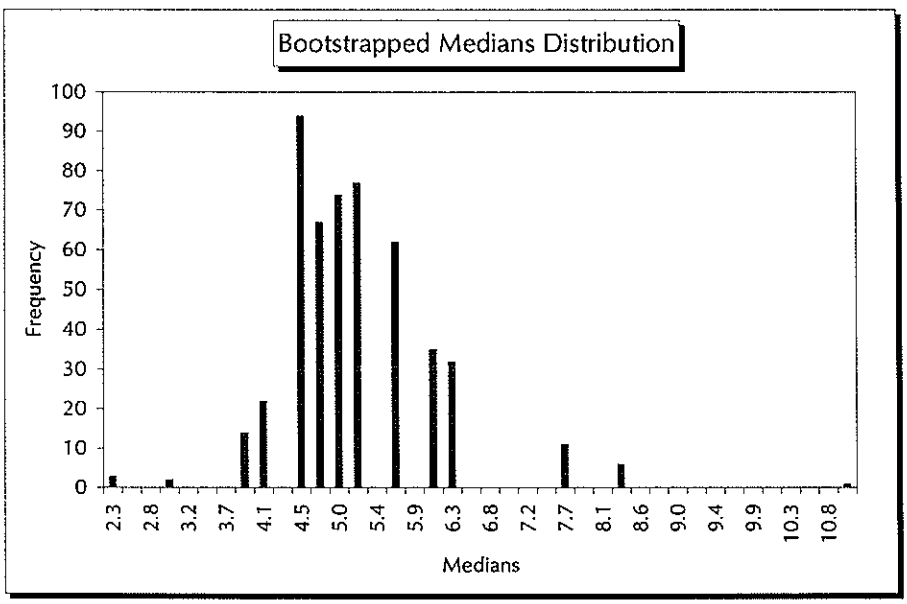
Median	Frequency
0.13	7
0.13	0
0.14	0
0.14	8
0.15	0
0.16	0
0.16	0
0.17	0
0.18	0
0.18	0
0.19	0
0.19	0
0.20	0
0.21	0
0.21	76
0.22	57
0.23	0
0.23	0
0.24	0
0.25	0
0.25	282
0.26	0
0.26	42
0.27	0
0.28	0
0.28	0
0.29	0
0.29	0
0.30	19
0.31	0
0.31	7
0.32	0
0.33	0
0.33	0
0.34	0
0.34	0
0.35	0
0.36	0
0.36	0
0.37	2



Liquid Ba
5.00
6.10
11.00
3.70
4.90
4.50
6.20
7.60
8.20
17.00
4.60
0.29
0.52
0.89
2.10
43.00
13.00
5.50
17.00
1.40
1.00
13.00
4.00
12.00
2.80
4.40
0.12

Counter:	500
Bootstrap Sample Size:	27
Number of Iteration:	500
Mean Median	5.05
Standard Deviation Median	0.89

Median	Frequency
2.32	3
2.54	0
2.77	0
2.99	2
3.21	0
3.43	0
3.66	0
3.88	14
4.10	22
4.32	0
4.55	94
4.77	67
4.99	74
5.21	77
5.44	0
5.66	62
5.88	0
6.11	35
6.33	32
6.55	0
6.77	0
6.99	0
7.22	0
7.44	0
7.66	11
7.88	0
8.11	0
8.33	6
8.55	0
8.77	0
9.00	0
9.22	0
9.44	0
9.66	0
9.89	0
10.11	0
10.33	0
10.55	0
10.78	0
11.00	1

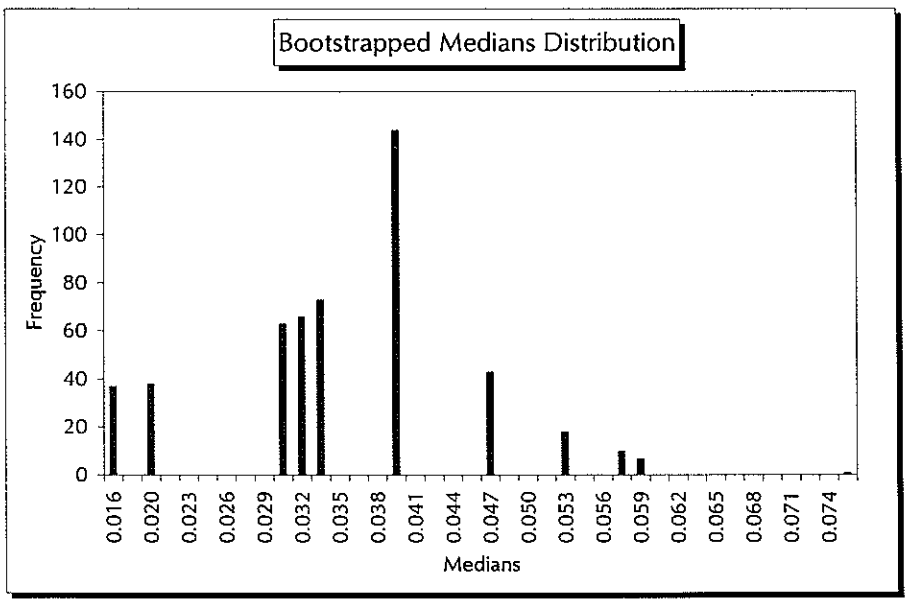


Liquid Cd
<0.015
0.019
0.031
<0.015
<0.015
0.032
0.046
0.052
0.058
0.14
<0.03
<0.003
<0.003
<0.003
<0.0075
<0.38
0.14
<0.075
0.17
<0.015
0.008
0.056
<0.038
<0.075
<0.038
<0.075
<0.015

Counter: 500

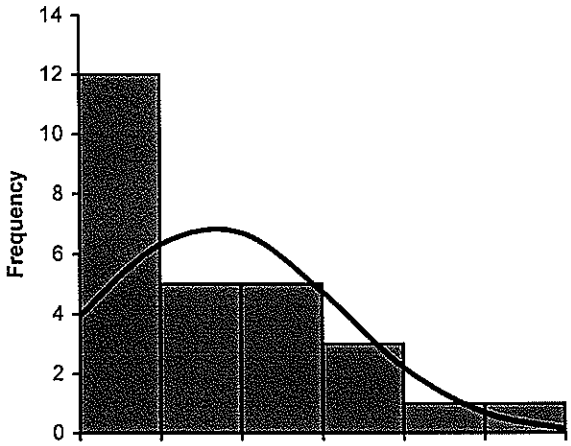
Bootstrap Sample Size:	27
Number of Iteration:	500
Mean Median	0.034
Standard Deviation Median	0.010

Median	Frequency
0.016	37
0.018	0
0.020	38
0.021	0
0.023	0
0.024	0
0.026	0
0.027	0
0.029	0
0.030	63
0.032	66
0.033	73
0.035	0
0.036	0
0.038	0
0.039	144
0.041	0
0.042	0
0.044	0
0.045	0
0.047	43
0.048	0
0.050	0
0.051	0
0.053	18
0.054	0
0.056	0
0.057	10
0.059	7
0.060	0
0.062	0
0.063	0
0.065	0
0.066	0
0.068	0
0.069	0
0.071	0
0.072	0
0.074	0
0.075	1

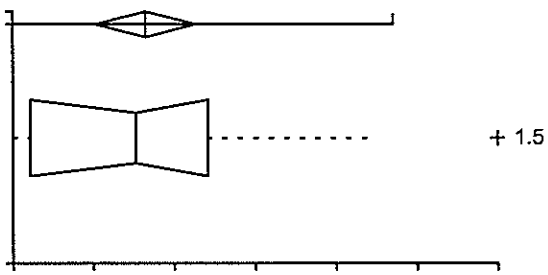


analysed with: Analyse-it + General 1.71

Test	**Continuous summary descriptives**
Variable	Co
Performed by	Marina Grigorova
Date	15 April 2005

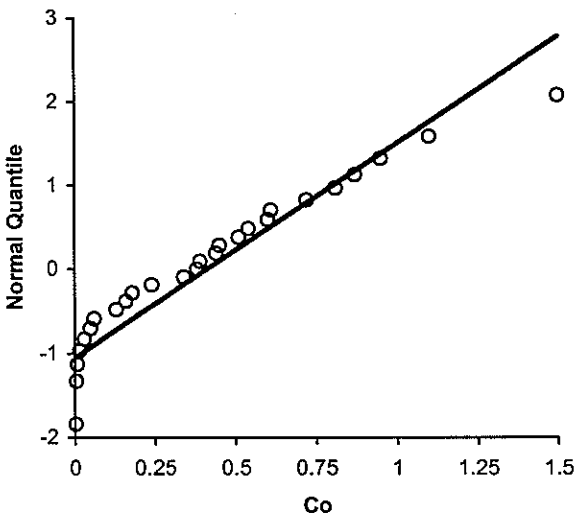


n	27
Mean	0.411
95% CI	0.256 to 0.565
Variance	0.1526
SD	0.3907
SE	0.0752
CV	95%



Median	0.380
98.1% CI	0.061 to 0.6
Range	1.497
IQR	0.55

Percentile	
2.5th	-
25th	0.055
50th	0.380
75th	0.605
97.5th	-



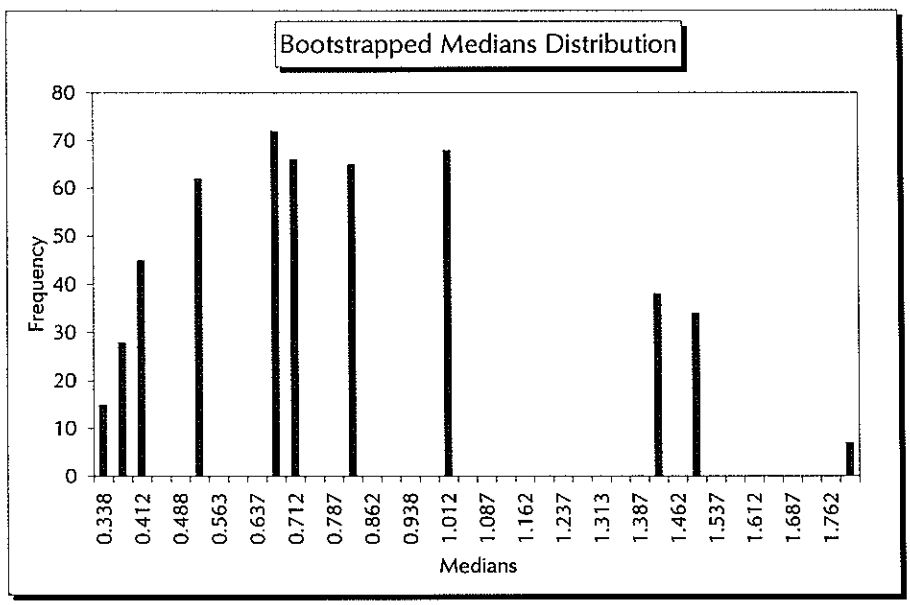
	Coefficient	p
Shapiro-Wilk	0.8983	0.0122
Skewness	1.0119	0.0287
Kurtosis	0.7813	0.3005

Liquid
Cr
1.8
2.3
3.4
1.4
1.9
0.37
0.51
0.66
0.71
1.5
0.21
0.071
0.30
0.38
0.17
5.5
1.8
0.98
2.4
0.28
0.16
2.2
0.30
1.5
0.29
0.82
0.070

Counter: 500

Bootstrap Sample Size:	27
Number of Iteration:	500
Mean Median	0.789
Standard Deviation Median	0.357

Median	Frequency
0.338	15
0.375	28
0.412	45
0.450	0
0.488	0
0.525	62
0.563	0
0.600	0
0.637	0
0.675	72
0.712	66
0.750	0
0.787	0
0.825	65
0.862	0
0.900	0
0.938	0
0.975	0
1.012	68
1.050	0
1.087	0
1.125	0
1.162	0
1.200	0
1.237	0
1.275	0
1.313	0
1.350	0
1.387	0
1.425	38
1.462	0
1.500	34
1.537	0
1.575	0
1.612	0
1.650	0
1.687	0
1.725	0
1.762	0
1.800	7

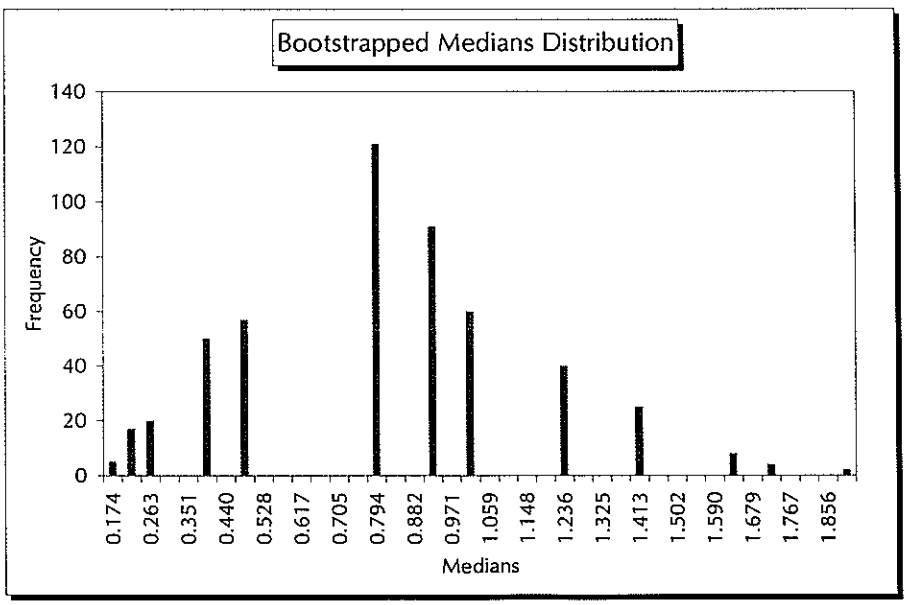


Liquid
Cu
2.2
2.8
3.7
1.7
1.9
0.9
1.2
1.6
1.8
3.8
0.050
0.019
0.014
<0.005
<0.012
2.8
0.78
0.36
1.0
0.13
0.18
1.4
0.23
0.75
0.16
0.48
<0.025

Counter: 500

Bootstrap Sample Size:	27
Number of Iteration:	500
Mean Median	0.790
Standard Deviation Median	0.347

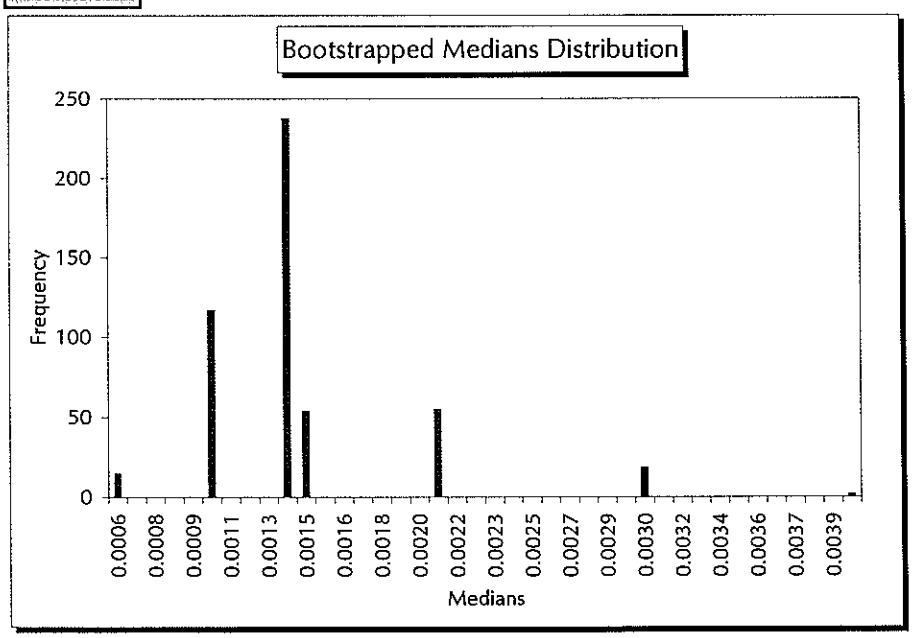
Median	Frequency
0.174	5
0.218	17
0.263	20
0.307	0
0.351	0
0.396	50
0.440	0
0.484	57
0.528	0
0.572	0
0.617	0
0.661	0
0.705	0
0.749	0
0.794	121
0.838	0
0.882	0
0.927	91
0.971	0
1.015	60
1.059	0
1.104	0
1.148	0
1.192	0
1.236	40
1.281	0
1.325	0
1.369	0
1.413	25
1.457	0
1.502	0
1.546	0
1.590	0
1.635	8
1.679	0
1.723	4
1.767	0
1.811	0
1.856	0
1.900	2



Liquid
Hg
0.0013
0.004
0.004
<0.001
<0.001
0.0013
0.003
0.002
0.002
0.003
<0.0002
<0.0002
<0.0002
<0.0002
<0.0005
0.0068
0.0065
0.0014
0.01
<0.0005
<0.20
0.0045
<0.0005
0.0013
<0.0005
<0.001
<0.0002

Counter:	500
Bootstrap Sample Size:	27
Number of Iteration:	500
Mean Median	0.0014
Standard Deviation Median	0.0005

Median	Frequency
0.0006	15
0.0007	0
0.0008	0
0.0009	0
0.0009	0
0.0010	117
0.0011	0
0.0012	0
0.0013	0
0.0014	238
0.0015	54
0.0016	0
0.0016	0
0.0017	0
0.0018	0
0.0019	0
0.0020	0
0.0021	55
0.0022	0
0.0023	0
0.0023	0
0.0024	0
0.0025	0
0.0026	0
0.0027	0
0.0028	0
0.0029	0
0.0030	0
0.0030	19
0.0031	0
0.0032	0
0.0033	0
0.0034	0
0.0035	0
0.0036	0
0.0037	0
0.0037	0
0.0038	0
0.0039	0
0.0040	2

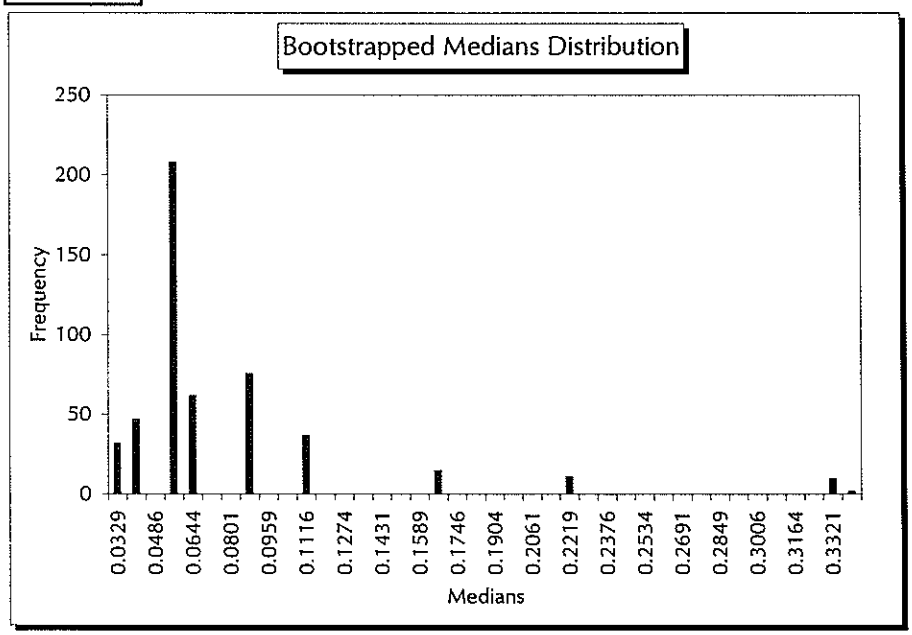


Liquid
Mo
<0.025
<0.025
0.033
<0.025
<0.025
<0.025
<0.025
0.028
<0.025
<0.025
<0.05
0.025
0.084
0.058
0.049
1.3
0.34
0.33
0.34
0.22
<0.054
0.16
0.56
0.94
0.39
0.82
0.11

Counter: 500

Bootstrap Sample Size:	27
Number of Iteration:	500
Mean Median	0.0718
Standard Deviation Median	0.0543

Median	Frequency
0.0329	32
0.0408	47
0.0486	0
0.0565	208
0.0644	62
0.0723	0
0.0801	0
0.0880	76
0.0959	0
0.1038	0
0.1116	37
0.1195	0
0.1274	0
0.1353	0
0.1431	0
0.1510	0
0.1589	0
0.1667	15
0.1746	0
0.1825	0
0.1904	0
0.1982	0
0.2061	0
0.2140	0
0.2219	11
0.2298	0
0.2376	0
0.2455	0
0.2534	0
0.2613	0
0.2691	0
0.2770	0
0.2849	0
0.2928	0
0.3006	0
0.3085	0
0.3164	0
0.3243	0
0.3321	10
0.3400	2

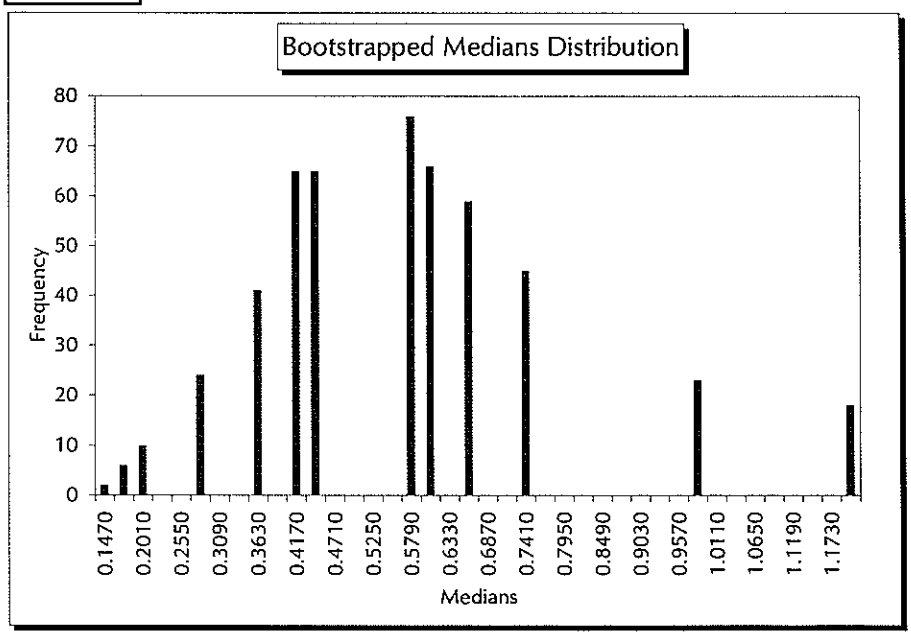


Liquid
Ni
1.4
1.6
2.4
1.2
1.2
0.34
0.44
0.57
0.59
1.2
<0.05
<0.05
0.0089
0.022
0.013
3.3
0.98
0.40
1.4
0.17
0.12
1.6
0.28
0.73
0.19
0.65
<0.025

Counter: 500

Bootstrap Sample Size:	27
Number of Iteration:	500
Mean Median	0.5520
Standard Deviation Median	0.2118

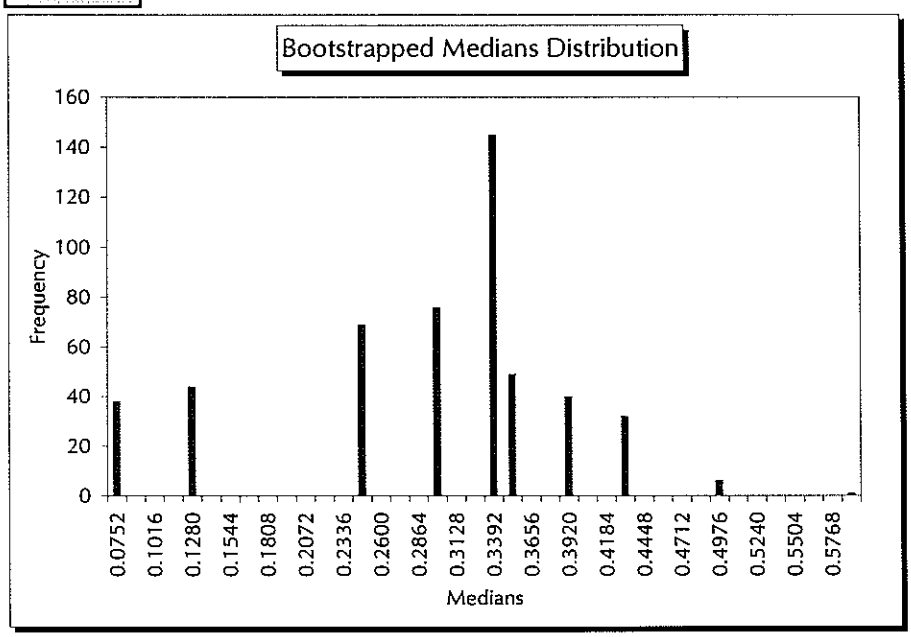
Median	Frequency
0.1470	2
0.1740	6
0.2010	10
0.2280	0
0.2550	0
0.2820	24
0.3090	0
0.3360	0
0.3630	41
0.3900	0
0.4170	65
0.4440	65
0.4710	0
0.4980	0
0.5250	0
0.5520	0
0.5790	76
0.6060	66
0.6330	0
0.6600	59
0.6870	0
0.7140	0
0.7410	45
0.7680	0
0.7950	0
0.8220	0
0.8490	0
0.8760	0
0.9030	0
0.9300	0
0.9570	0
0.9840	23
1.0110	0
1.0380	0
1.0650	0
1.0920	0
1.1190	0
1.1460	0
1.1730	0
1.2000	18



Liquid
Pb
0.33
0.43
0.59
0.24
0.33
0.29
0.43
0.60
0.72
1.6
<0.05
<0.005
<0.005
<0.005
<0.012
2.4
0.35
0.38
0.79
<0.025
0.038
0.49
<0.062
1.3
<0.062
<0.12
<0.025

Counter:	500
Bootstrap Sample Size:	27
Number of Iteration:	500
Mean Median	0.2875
Standard Deviation Median	0.1012

Median	Frequency
0.0752	38
0.0884	0
0.1016	0
0.1148	0
0.1280	44
0.1412	0
0.1544	0
0.1676	0
0.1808	0
0.1940	0
0.2072	0
0.2204	0
0.2336	0
0.2468	69
0.2600	0
0.2732	0
0.2864	0
0.2996	76
0.3128	0
0.3260	0
0.3392	145
0.3524	49
0.3656	0
0.3788	0
0.3920	40
0.4052	0
0.4184	0
0.4316	32
0.4448	0
0.4580	0
0.4712	0
0.4844	0
0.4976	6
0.5108	0
0.5240	0
0.5372	0
0.5504	0
0.5636	0
0.5768	0
0.5900	1

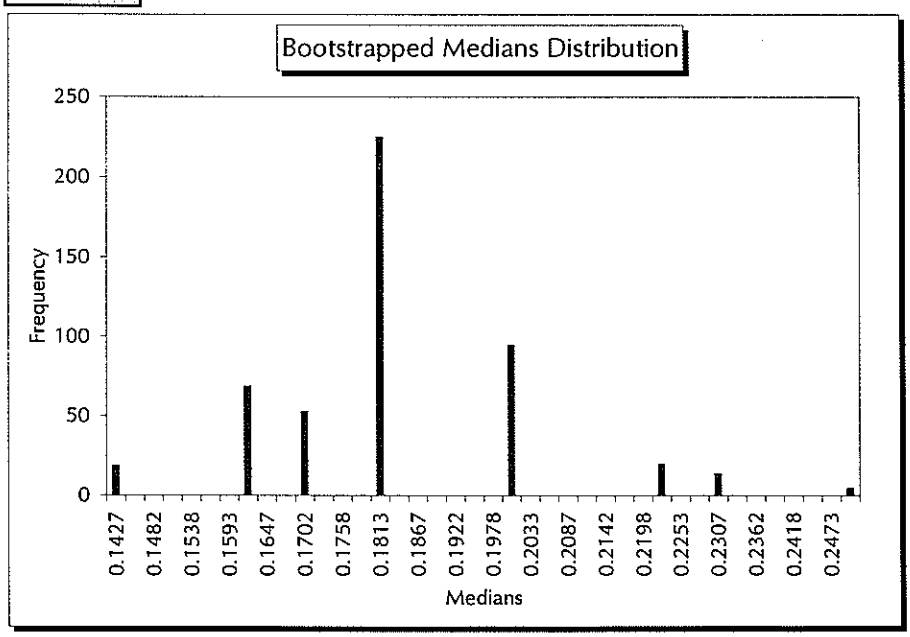


Liquid Se
0.16
0.20
0.18
0.16
0.18
0.14
0.17
0.20
0.22
0.18
0.23
0.026
0.018
0.035
0.050
2.2
0.43
0.42
0.62
0.14
0.034
0.48
0.42
<0.25
0.14
<0.25
<0.050

Counter: 500

Bootstrap Sample Size:	27
Number of Iteration:	500
Mean Median	0.1822
Standard Deviation Median	0.0195

Median	Frequency
0.1427	19
0.1455	0
0.1482	0
0.1510	0
0.1538	0
0.1565	0
0.1593	0
0.1620	69
0.1647	0
0.1675	0
0.1702	53
0.1730	0
0.1758	0
0.1785	0
0.1813	225
0.1840	0
0.1867	0
0.1895	0
0.1922	0
0.1950	0
0.1978	0
0.2005	95
0.2033	0
0.2060	0
0.2087	0
0.2115	0
0.2142	0
0.2170	0
0.2198	0
0.2225	20
0.2253	0
0.2280	0
0.2307	14
0.2335	0
0.2362	0
0.2390	0
0.2418	0
0.2445	0
0.2473	0
0.2500	5

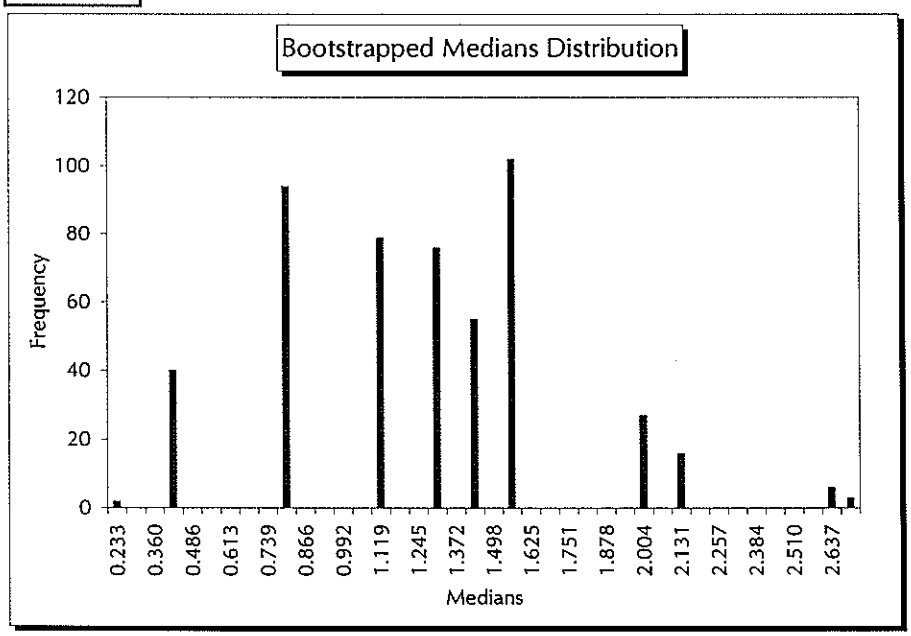


Liquid
V
2.6
3.4
5.0
2.1
2.8
0.77
1.1
1.4
1.5
3.1
0.11
0.0072
0.016
0.03
0.022
7.1
2.0
0.80
2.7
0.17
0.38
4.7
0.40
1.5
0.36
1.3
0.048

Counter: 500

Bootstrap Sample Size:	27
Number of Iteration:	500
Mean Median	1.2340
Standard Deviation Median	0.4596

Median	Frequency
0.233	2
0.296	0
0.360	0
0.423	40
0.486	0
0.549	0
0.613	0
0.676	0
0.739	0
0.803	94
0.866	0
0.929	0
0.992	0
1.056	0
1.119	79
1.182	0
1.245	0
1.308	76
1.372	0
1.435	55
1.498	0
1.561	102
1.625	0
1.688	0
1.751	0
1.814	0
1.878	0
1.941	0
2.004	27
2.067	0
2.131	16
2.194	0
2.257	0
2.320	0
2.384	0
2.447	0
2.510	0
2.573	0
2.637	6
2.700	3

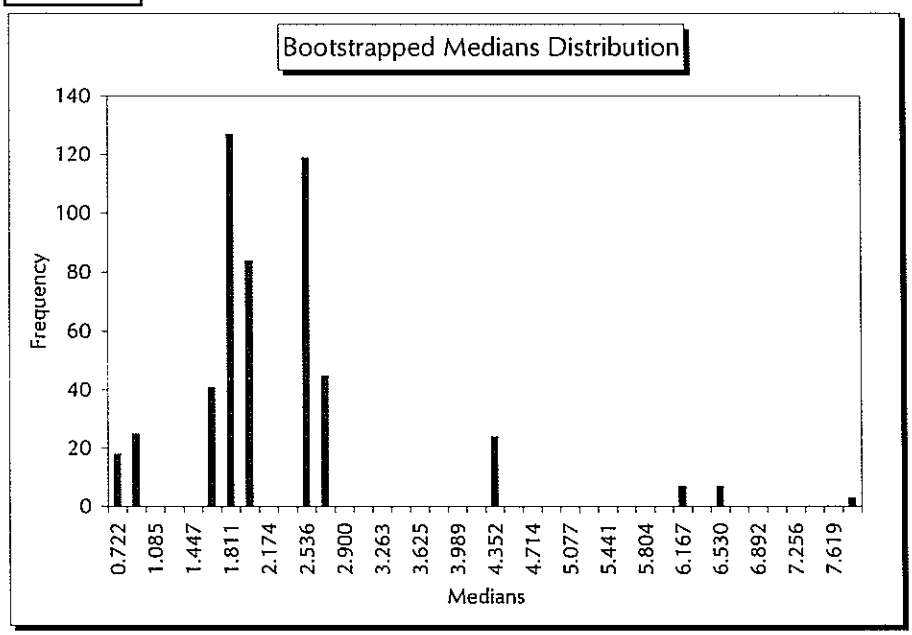


Liquid
Zn
2.5
2.5
4.2
1.6
1.8
6.4
8.3
13
15
33
0.87
0.022
0.011
0.033
0.08
16
7.8
2.6
9.3
0.60
0.54
6.1
0.62
1.9
0.43
1.8
0.062

Counter: 500

Bootstrap Sample Size:	27
Number of Iteration:	500
Mean Median	2.2251
Standard Deviation Median	1.0693

Median	Frequency
0.722	18
0.903	25
1.085	0
1.266	0
1.447	0
1.629	41
1.811	127
1.992	84
2.174	0
2.355	0
2.536	119
2.718	45
2.900	0
3.081	0
3.263	0
3.444	0
3.625	0
3.807	0
3.989	0
4.170	0
4.352	24
4.533	0
4.714	0
4.896	0
5.077	0
5.259	0
5.441	0
5.622	0
5.804	0
5.985	0
6.167	7
6.348	0
6.530	7
6.711	0
6.892	0
7.074	0
7.256	0
7.437	0
7.619	0
7.800	3

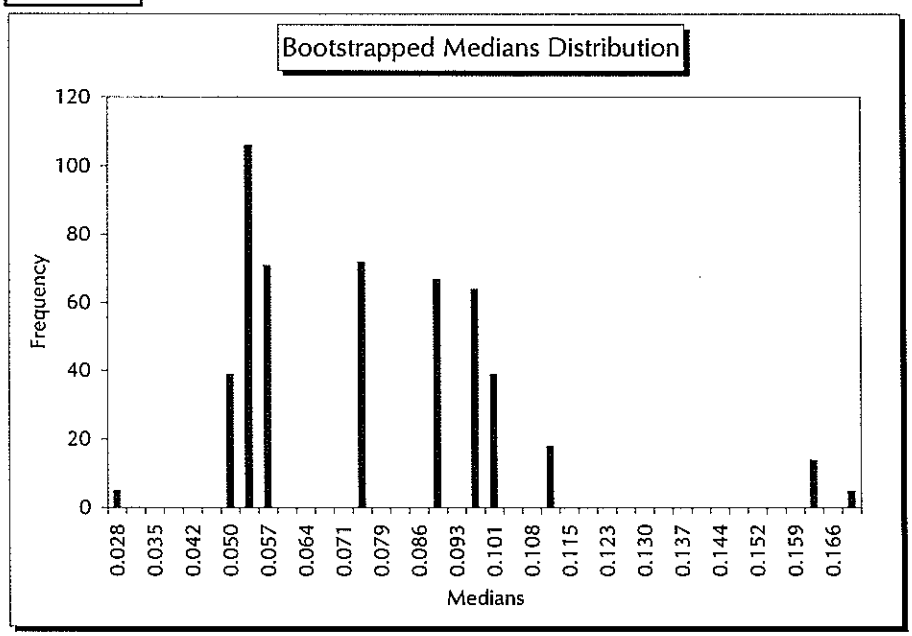


Liquid Cr (VI)
0.014
0.1
0.17
0.19
0.023
0.01
<0.01
0.097
0.018
0.024
0.024
0.11
0.18
0.16
0.089
0.21
0.30
0.17
0.20
0.075
<0.050
<0.05
0.055
0.48
0.047
0.046
0.046

Counter: 500

Bootstrap Sample Size:	27
Number of Iteration:	500
Mean Median	0.0754
Standard Deviation Median	0.0275

Median	Frequency
0.028	5
0.031	0
0.035	0
0.039	0
0.042	0
0.046	0
0.050	39
0.053	106
0.057	71
0.060	0
0.064	0
0.068	0
0.071	0
0.075	72
0.079	0
0.082	0
0.086	0
0.090	67
0.093	0
0.097	64
0.101	39
0.104	0
0.108	0
0.112	18
0.115	0
0.119	0
0.123	0
0.126	0
0.130	0
0.134	0
0.137	0
0.141	0
0.144	0
0.148	0
0.152	0
0.155	0
0.159	0
0.163	14
0.166	0
0.170	5

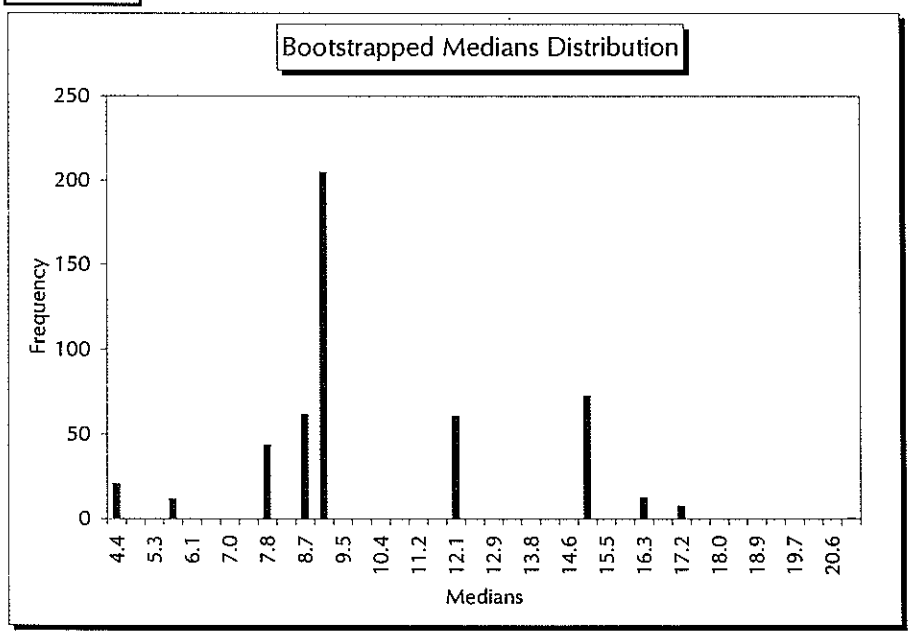


Liquid
O&G
<4.0
<4.0
<4.0
<4.0
<4.0
52
29
28
21
35
51
17
15
8.4
16
12
9.0
15
<7.7
8.8
22
<4.3
5.3
<9.1
4.4
4.0
<4.0

Counter: 500

Bootstrap Sample Size:	27
Number of Iteration:	500
Mean Median	10.09
Standard Deviation Median	3.04

Median	Frequency
4.43	21
4.85	0
5.28	0
5.70	12
6.13	0
6.55	0
6.97	0
7.40	0
7.83	44
8.25	0
8.68	62
9.10	205
9.53	0
9.95	0
10.38	0
10.80	0
11.23	0
11.65	0
12.07	61
12.50	0
12.93	0
13.35	0
13.78	0
14.20	0
14.63	0
15.05	73
15.48	0
15.90	0
16.33	13
16.75	0
17.18	8
17.60	0
18.02	0
18.45	0
18.88	0
19.30	0
19.73	0
20.15	0
20.58	0
21.00	1

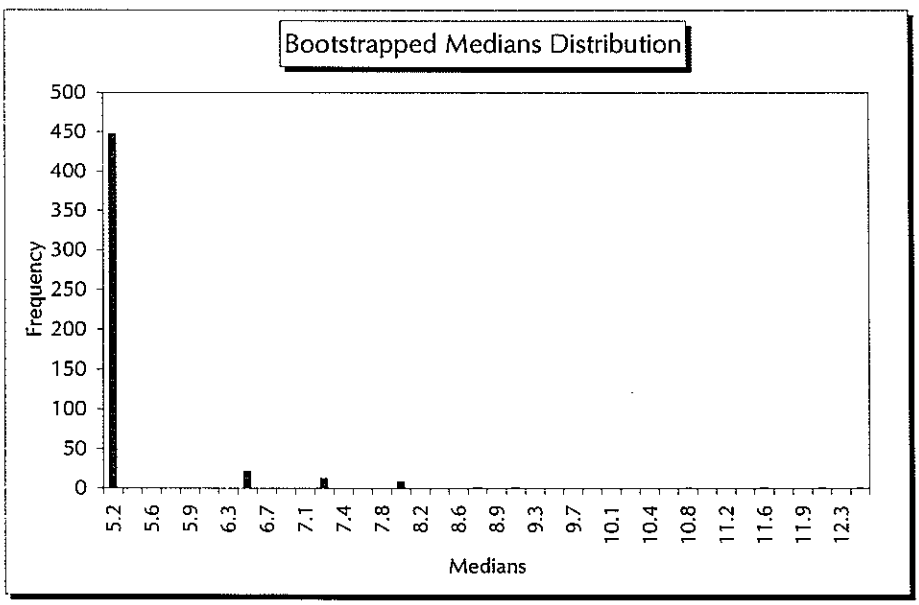


Liquid
Chloroform
13
12
<5
9.4
8
<5
<5
<5
<5
<5
<5
<5
<5
11
<5
<5
<5
<5
<5
<5
<5
<5
<5
<5
<5

Counter: 500

Bootstrap Sample Size:	25
Number of Iteration:	500
Mean Median	5.26
Standard Deviation Median	0.89

Median	Frequency
5.2	448
5.4	0
5.6	0
5.8	0
5.9	0
6.1	0
6.3	0
6.5	22
6.7	0
6.9	0
7.1	0
7.3	13
7.4	0
7.6	0
7.8	0
8.0	9
8.2	0
8.4	0
8.6	0
8.8	2
8.9	0
9.1	2
9.3	0
9.5	0
9.7	0
9.9	0
10.1	0
10.3	0
10.4	0
10.6	0
10.8	1
11.0	0
11.2	0
11.4	0
11.6	1
11.8	0
11.9	0
12.1	1
12.3	0
12.5	1

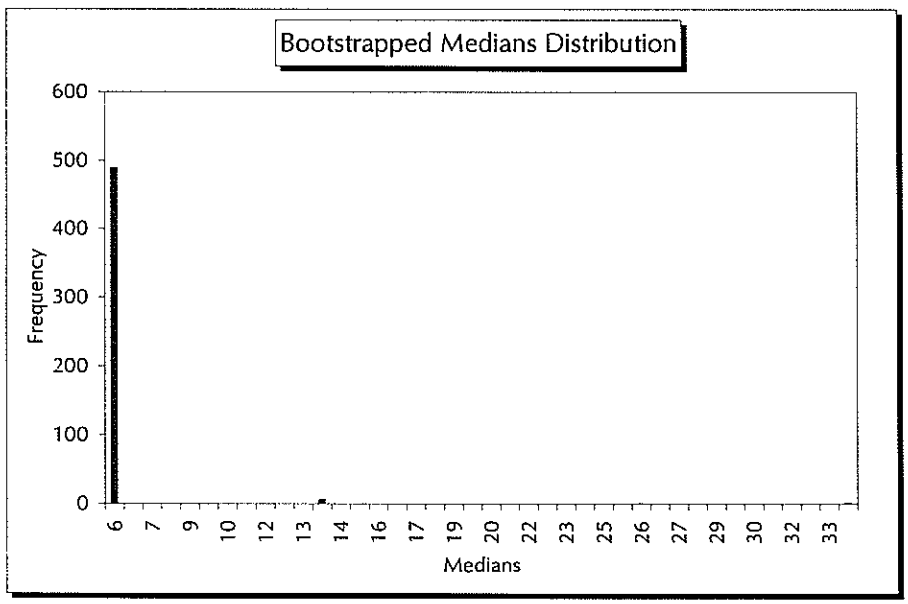


Liquid
1,2,4-TMB
180
190
46
200
180
<5
<5
<5
<5
<5
22
<5
<5
<5
<5
<5
<5
<5
<5
<5
<50
<5
<5
<5
<5
<5

Counter: 500

Bootstrap Sample Size:	26
Number of Iteration:	500
Mean Median	5.276
Standard Deviation Median	2.269

Median	Frequency
5.72	490
6.45	0
7.18	0
7.90	0
8.63	0
9.35	0
10.07	0
10.80	0
11.53	0
12.25	0
12.98	0
13.70	7
14.43	0
15.15	0
15.88	0
16.60	0
17.33	0
18.05	0
18.77	0
19.50	0
20.23	0
20.95	0
21.68	0
22.40	0
23.13	0
23.85	0
24.58	0
25.30	0
26.03	1
26.75	0
27.48	0
28.20	0
28.93	0
29.65	0
30.38	0
31.10	0
31.83	0
32.55	0
33.28	0
34.00	2

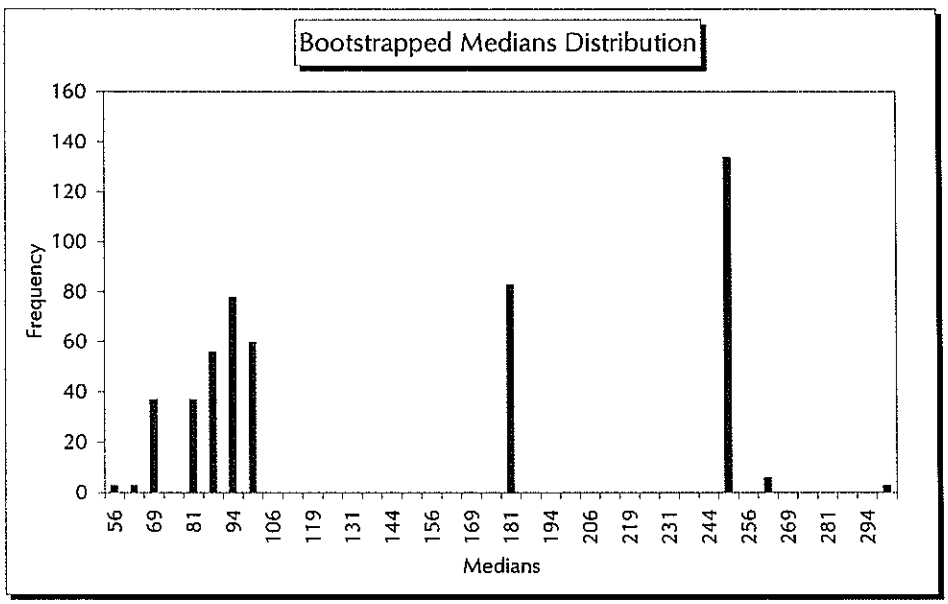


Liquid
Benzoic Acid
<60
<65
<65
<100
<65
260
300
310
350
360
<50
<50
<50
<50
<50
<91
<81
<620
<50
<710
180
83
<250
<300
<250
<250
<250

Counter: 500

Bootstrap Sample Size:	27
Number of Iteration:	500
Mean Median	148.8
Standard Deviation Median	73.9

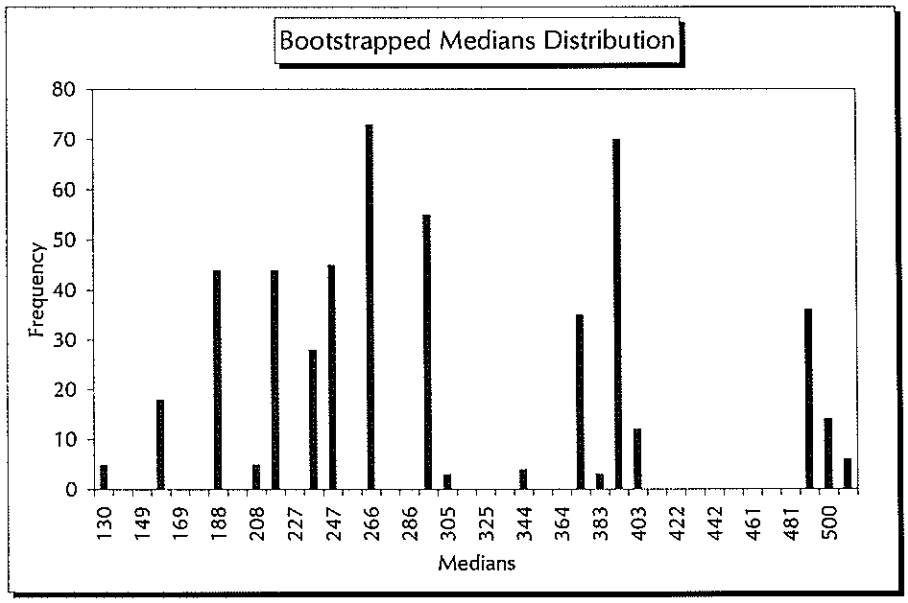
Median	Frequency
56.3	3
62.5	3
68.8	37
75.0	0
81.3	37
87.5	56
93.8	78
100.0	60
106.3	0
112.5	0
118.8	0
125.0	0
131.3	0
137.5	0
143.8	0
150.0	0
156.3	0
162.5	0
168.8	0
175.0	0
181.3	83
187.5	0
193.8	0
200.0	0
206.3	0
212.5	0
218.8	0
225.0	0
231.3	0
237.5	0
243.8	0
250.0	134
256.3	0
262.5	6
268.8	0
275.0	0
281.3	0
287.5	0
293.8	0
300.0	3



Liquid
TOC
180
510
240
490
290
120

Counter: 500

Bootstrap Sample Size:	6
Number of Iteration:	500
Mean Median	300.23
Standard Deviation Median	99.68

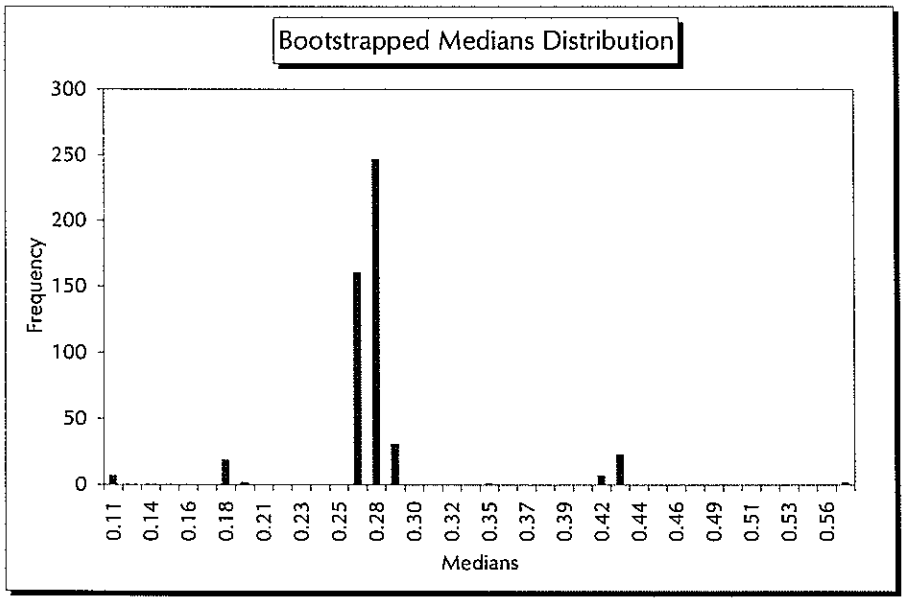


Median	Frequency
129.8	5
139.5	0
149.3	0
159.0	18
168.8	0
178.5	0
188.3	44
198.0	0
207.8	5
217.5	44
227.3	0
237.0	28
246.8	45
256.5	0
266.3	73
276.0	0
285.8	0
295.5	55
305.3	3
315.0	0
324.8	0
334.5	0
344.3	4
354.0	0
363.8	0
373.5	35
383.3	3
393.0	70
402.8	12
412.5	0
422.3	0
432.0	0
441.8	0
451.5	0
461.3	0
471.0	0
480.8	0
490.5	36
500.3	14
510.0	6

Liquid Phenols
0.10
0.27
0.57
0.26
0.26
0.28

Counter: 500

Bootstrap Sample Size:	6
Number of Iteration:	500
Mean Median	0.271
Standard Deviation Median	0.050

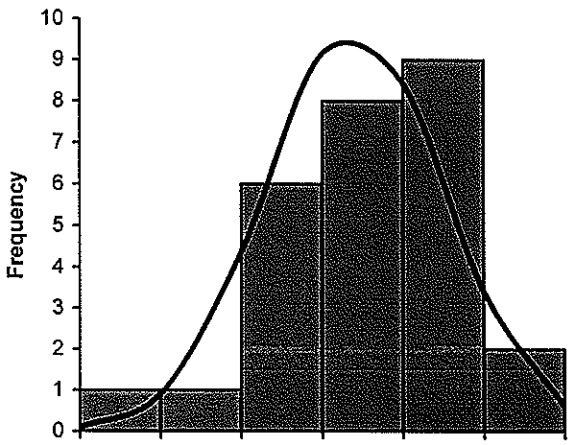


Median	Frequency
0.11	7
0.12	0
0.14	0
0.15	0
0.16	0
0.17	0
0.18	19
0.19	2
0.21	0
0.22	0
0.23	0
0.24	0
0.25	0
0.26	161
0.28	247
0.29	31
0.30	0
0.31	0
0.32	0
0.33	0
0.35	1
0.36	0
0.37	0
0.38	0
0.39	0
0.41	0
0.42	7
0.43	23
0.44	0
0.45	0
0.46	0
0.48	0
0.49	0
0.50	0
0.51	0
0.52	0
0.53	0
0.55	0
0.56	0
0.57	2

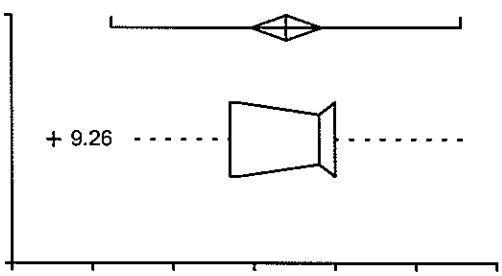
SLURRY SAMPLES

analysed with: Analyse-it + General 1.71

Test	**Continuous summary descriptives**
Variable	pH
Performed by	mgrigorova
Date	28 April 2005

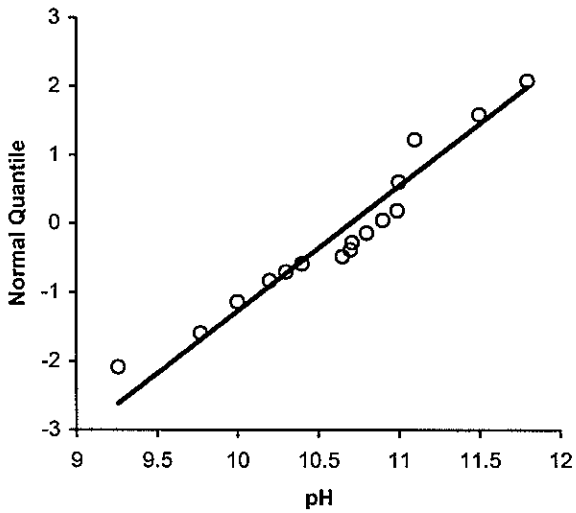


n	27
Mean	10.70
95% CI	10.48 to 10.92
Variance	0.304
SD	0.551
SE	0.106
CV	5%



Median	10.90
98.1% CI	10.40 to 11.00
Range	2.5
IQR	0.6

Percentile	
2.5th	-
25th	10.35
50th	10.90
75th	11.00
97.5th	-



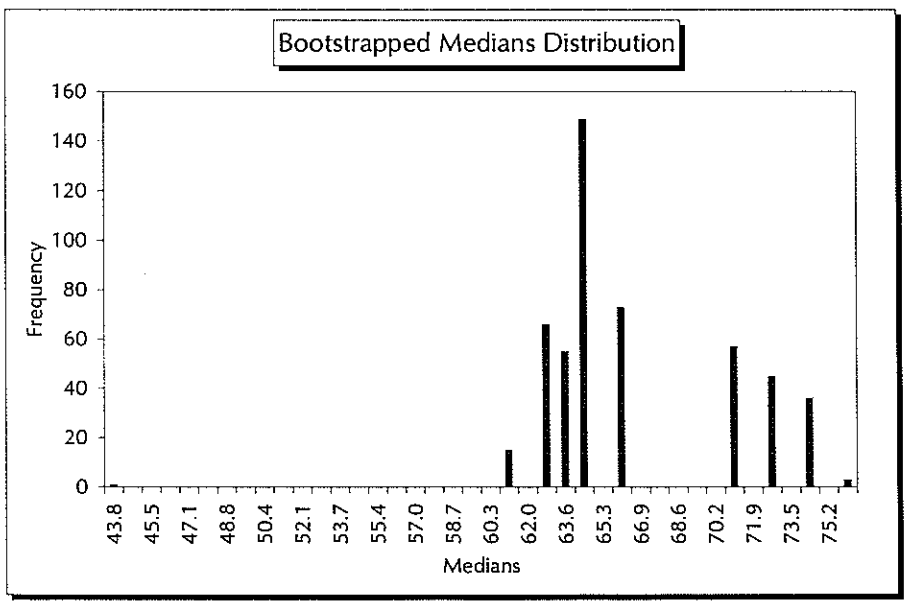
	Coefficient	p
Shapiro-Wilk	0.9205	0.0405
Skewness	-0.6989	0.1143
Kurtosis	0.7446	0.3154

Slurry
Ba
72
28
34
62
41
110
76
64
120
110
61
66
74
61
63
41
81
71
64
62
74
61
140
150
130
42
43

Counter: 500

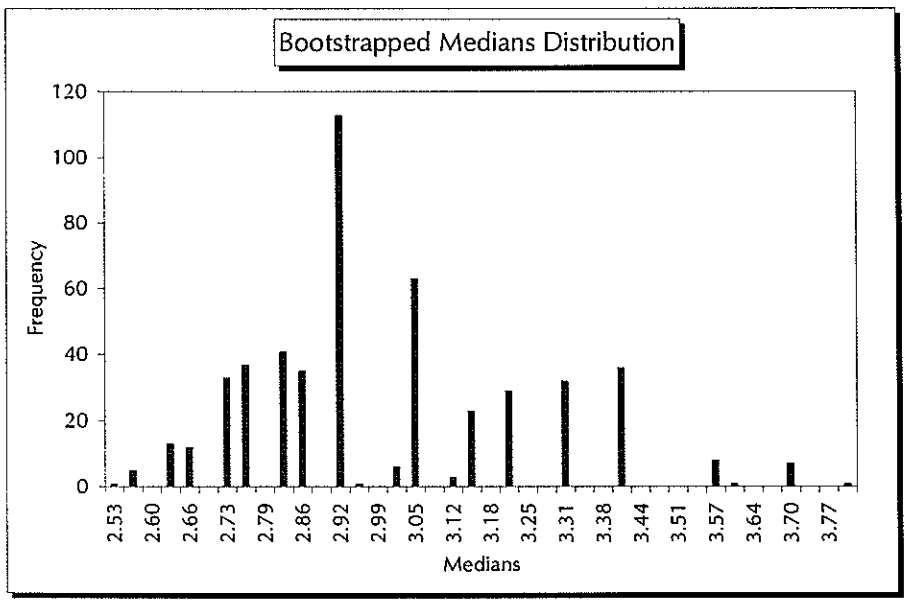
Bootstrap Sample Size:	27
Number of Iteration:	500
Mean Median	66.10
Standard Deviation Median	4.17

Median	Frequency
43.83	1
44.65	0
45.47	0
46.30	0
47.13	0
47.95	0
48.78	0
49.60	0
50.42	0
51.25	0
52.08	0
52.90	0
53.72	0
54.55	0
55.38	0
56.20	0
57.03	0
57.85	0
58.67	0
59.50	0
60.33	0
61.15	15
61.97	0
62.80	66
63.63	55
64.45	149
65.28	0
66.10	73
66.93	0
67.75	0
68.57	0
69.40	0
70.22	0
71.05	57
71.88	0
72.70	45
73.53	0
74.35	36
75.18	0
76.00	3



Slurry
Cobalt
4.2
2.9
2.6
2.5
2.8
2.3
1.6
2.6
2.9
2.7
2.3
4.0
3.8
3.4
6.8
3.2
3.7
3.4

Counter:	500
Bootstrap Sample Size:	18
Number of Iteration:	500
Mean Median	2.983
Standard Deviation Median	0.249



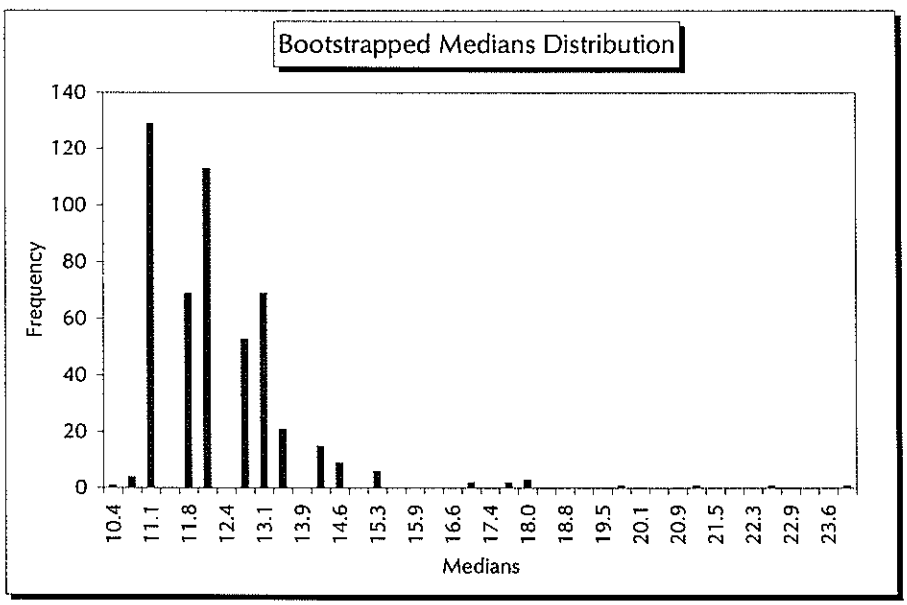
Median	Frequency
2.53	1
2.57	5
2.60	0
2.63	13
2.66	12
2.69	0
2.73	33
2.76	37
2.79	0
2.83	41
2.86	35
2.89	0
2.92	113
2.95	1
2.99	0
3.02	6
3.05	63
3.09	0
3.12	3
3.15	23
3.18	0
3.21	29
3.25	0
3.28	0
3.31	32
3.35	0
3.38	0
3.41	36
3.44	0
3.47	0
3.51	0
3.54	0
3.57	8
3.61	1
3.64	0
3.67	0
3.70	7
3.73	0
3.77	0
3.80	1

Slurry
Cr
67
25
21
30
24
12
13
14
15
11
5.8
11
11
11
8.4
10
10
9.2
25
8.4
12
13

Counter: 500

Bootstrap Sample Size:	22
Number of Iteration:	500
Mean Median	12.2
Standard Deviation Median	1.4

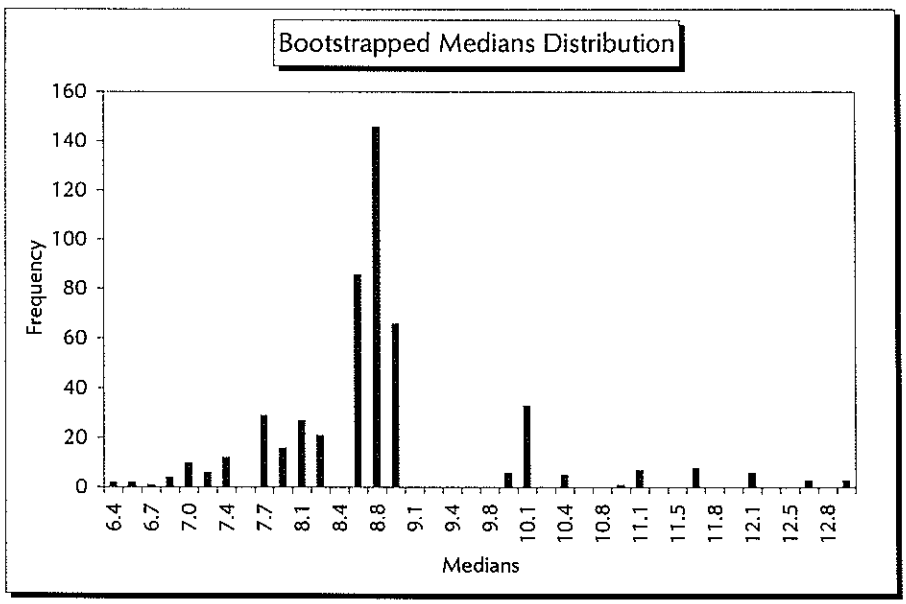
Median	Frequency
10.35	1
10.70	4
11.05	129
11.40	0
11.75	69
12.10	113
12.45	0
12.80	53
13.15	69
13.50	21
13.85	0
14.20	15
14.55	9
14.90	0
15.25	6
15.60	0
15.95	0
16.30	0
16.65	0
17.00	2
17.35	0
17.70	2
18.05	3
18.40	0
18.75	0
19.10	0
19.45	0
19.80	1
20.15	0
20.50	0
20.85	0
21.20	1
21.55	0
21.90	0
22.25	0
22.60	1
22.95	0
23.30	0
23.65	0
24.00	1



Slurry
Cu
45
30
33
13
8.9
7.6
17
6.8
3.6
6.2
8.6
6.0
5.5
11
8.9
8.6
12.0
7.0
8.5
6.5

Counter: 500

Bootstrap Sample Size:	20
Number of Iteration:	500
Mean Median	8.691
Standard Deviation Median	1.026

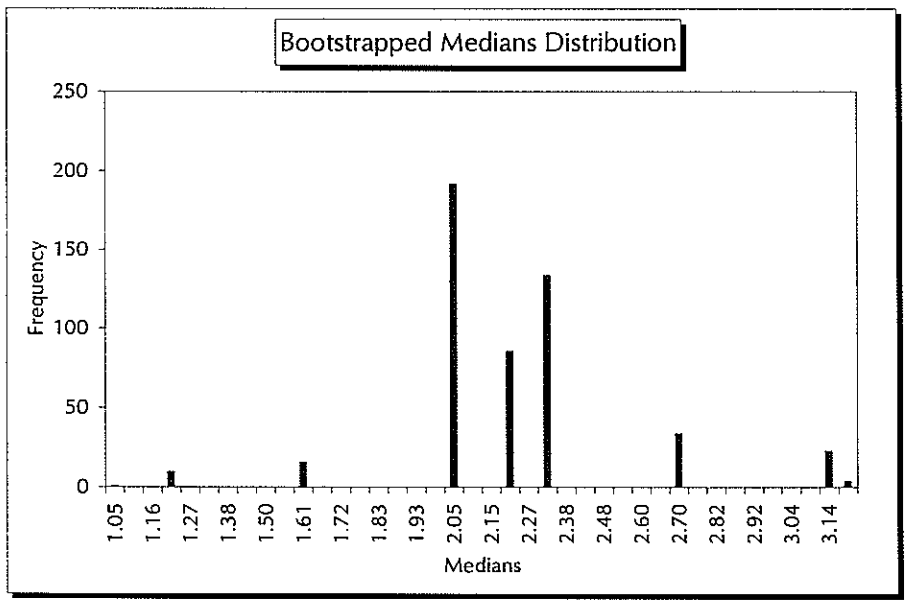


Median	Frequency
6.37	2
6.54	2
6.71	1
6.88	4
7.05	10
7.22	6
7.39	12
7.56	0
7.73	29
7.90	16
8.07	27
8.24	21
8.41	0
8.58	86
8.75	146
8.92	66
9.09	0
9.26	0
9.43	0
9.60	0
9.77	0
9.94	6
10.11	33
10.28	0
10.45	5
10.62	0
10.79	0
10.96	1
11.13	7
11.30	0
11.47	0
11.64	8
11.81	0
11.98	0
12.15	6
12.32	0
12.49	0
12.66	3
12.83	0
13.00	3

Slurry
Mo
23
2.3
3.4
2.3
2.0
2.7
3.6
3.1
2.2
3.2
2.0
3.1
2.0
1.6
<1.0
1.2
<1.0
<1.0
<1.0

Counter: 500

Bootstrap Sample Size:	19
Number of Iteration:	500
Mean Median	2.192
Standard Deviation Median	0.339

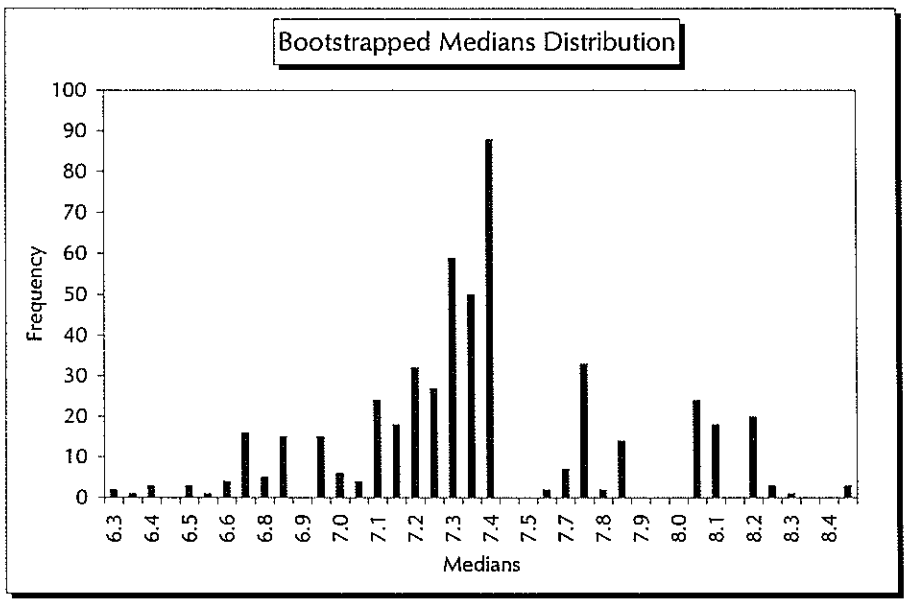


Median	Frequency
1.05	1
1.11	0
1.16	0
1.22	10
1.27	0
1.33	0
1.38	0
1.44	0
1.50	0
1.55	0
1.61	16
1.66	0
1.72	0
1.77	0
1.83	0
1.88	0
1.93	0
1.99	0
2.05	192
2.10	0
2.15	0
2.21	86
2.27	0
2.32	134
2.38	0
2.43	0
2.48	0
2.54	0
2.60	0
2.65	0
2.70	34
2.76	0
2.82	0
2.87	0
2.92	0
2.98	0
3.04	0
3.09	0
3.14	23
3.20	4

Slurry
Ni
30
13
23
8.2
7.4
7.3
8.2
6.4
4.1
7.4
8.0
6.9
6.1
8.7
8.3
6.0
7.2
4.9
6.7
6.6

Counter: 500

Bootstrap Sample Size:	20
Number of Iteration:	500
Mean Median	7.374
Standard Deviation Median	0.409

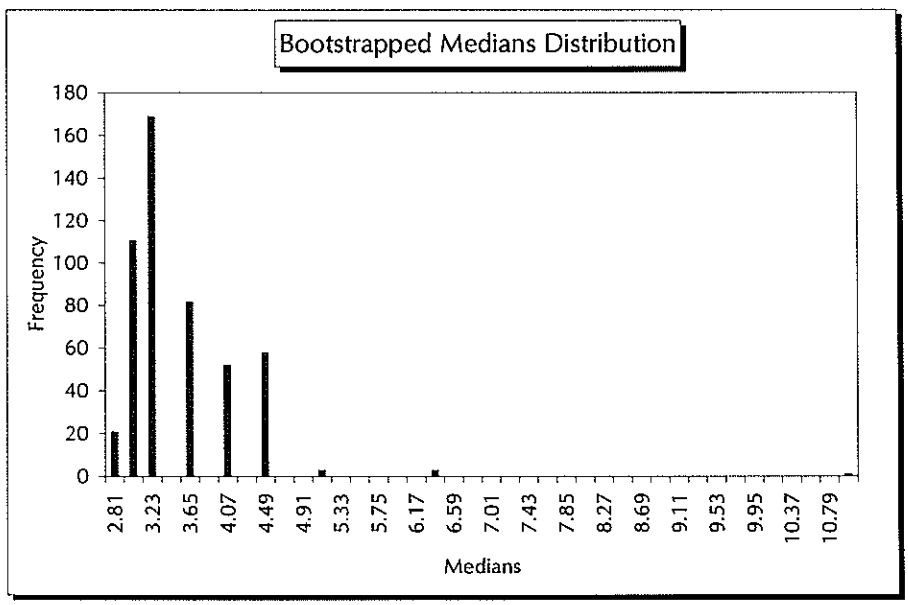


Median	Frequency
6.31	2
6.36	1
6.42	3
6.47	0
6.53	3
6.59	1
6.64	4
6.70	16
6.76	5
6.81	15
6.87	0
6.93	15
6.98	6
7.04	4
7.09	24
7.15	18
7.21	32
7.26	27
7.32	59
7.38	50
7.43	88
7.49	0
7.54	0
7.60	2
7.66	7
7.71	33
7.77	2
7.82	14
7.88	0
7.94	0
7.99	0
8.05	24
8.11	18
8.16	0
8.22	20
8.27	3
8.33	1
8.39	0
8.44	0
8.50	3

Slurry
Pb
4.3
23
3.9
3.1
2.9
4.4
2.2
3.0
3.1
6.2
11
5.1
2.7
2.0
3.5
68
1.9
2.7
2.6

Counter: 500

Bootstrap Sample Size:	19
Number of Iteration:	500
Mean Median	3.389
Standard Deviation Median	0.633

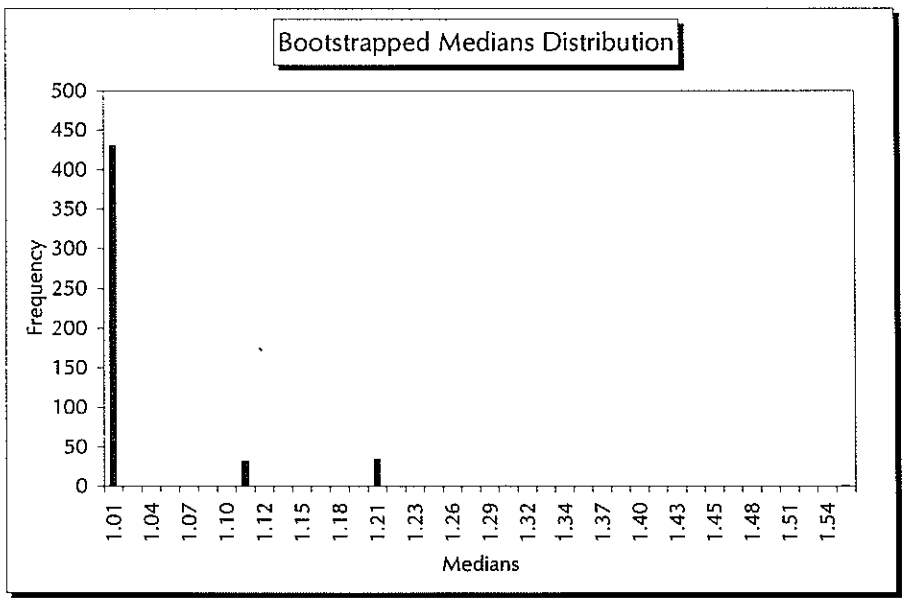


Median	Frequency
2.81	21
3.02	111
3.23	169
3.44	0
3.65	82
3.86	0
4.07	52
4.28	0
4.49	58
4.70	0
4.91	0
5.12	3
5.33	0
5.54	0
5.75	0
5.96	0
6.17	0
6.38	3
6.59	0
6.80	0
7.01	0
7.22	0
7.43	0
7.64	0
7.85	0
8.06	0
8.27	0
8.48	0
8.69	0
8.90	0
9.11	0
9.32	0
9.53	0
9.74	0
9.95	0
10.16	0
10.37	0
10.58	0
10.79	0
11.00	1

Slurry
Se
<1.0
<1.0
<1.0
<1.0
<1.0
<1.0
1.2
1.7
2.3
<1.0
<1.0
<1.0
<1.0
1.4
1.5
<1.0
<1.0
1.2

Counter: 500

Bootstrap Sample Size:	18
Number of Iteration:	500
Mean Median	1.022
Standard Deviation Median	0.061



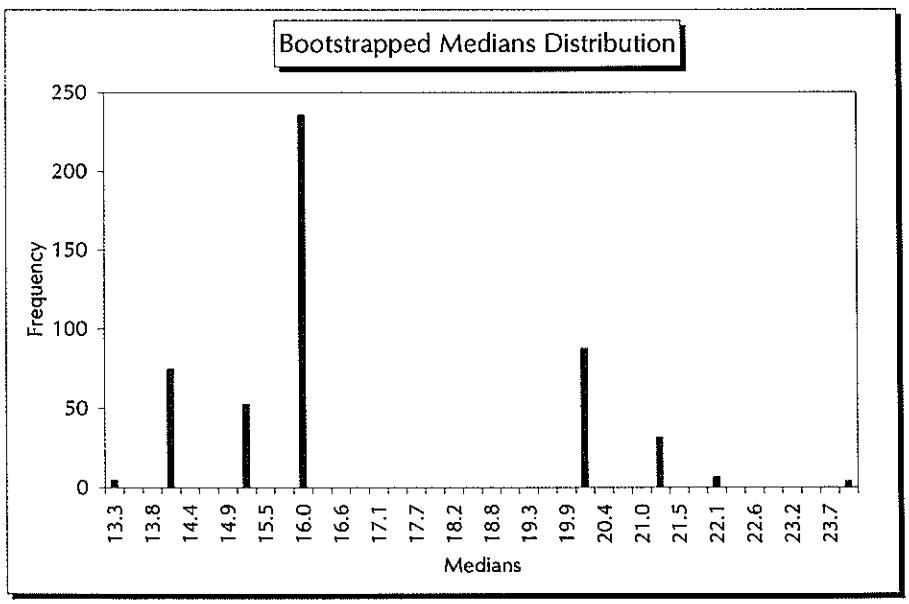
Median	Frequency
1.01	431
1.03	0
1.04	0
1.05	0
1.07	0
1.08	0
1.10	0
1.11	32
1.12	0
1.14	0
1.15	0
1.16	0
1.18	0
1.19	0
1.21	35
1.22	0
1.23	0
1.25	0
1.26	0
1.27	0
1.29	0
1.30	1
1.32	0
1.33	0
1.34	0
1.36	0
1.37	0
1.38	0
1.40	0
1.41	0
1.43	0
1.44	0
1.45	0
1.47	0
1.48	0
1.50	0
1.51	0
1.52	0
1.54	0
1.55	1

Slurry
V
53
29
24
39
35
26
<20
<20
21
25
13
13
14
15
11
6.8
14
14
13
10
22
21
13
16
12
16
16

Counter: 500

Bootstrap Sample Size:	27
Number of Iteration:	500
Mean Median	16.74
Standard Deviation Median	2.39

Median	Frequency
13.27	5
13.55	0
13.82	0
14.10	75
14.38	0
14.65	0
14.93	0
15.20	53
15.48	0
15.75	0
16.02	236
16.30	0
16.58	0
16.85	0
17.13	0
17.40	0
17.67	0
17.95	0
18.23	0
18.50	0
18.77	0
19.05	0
19.33	0
19.60	0
19.88	0
20.15	88
20.42	0
20.70	0
20.98	0
21.25	32
21.52	0
21.80	0
22.08	7
22.35	0
22.63	0
22.90	0
23.18	0
23.45	0
23.73	0
24.00	4

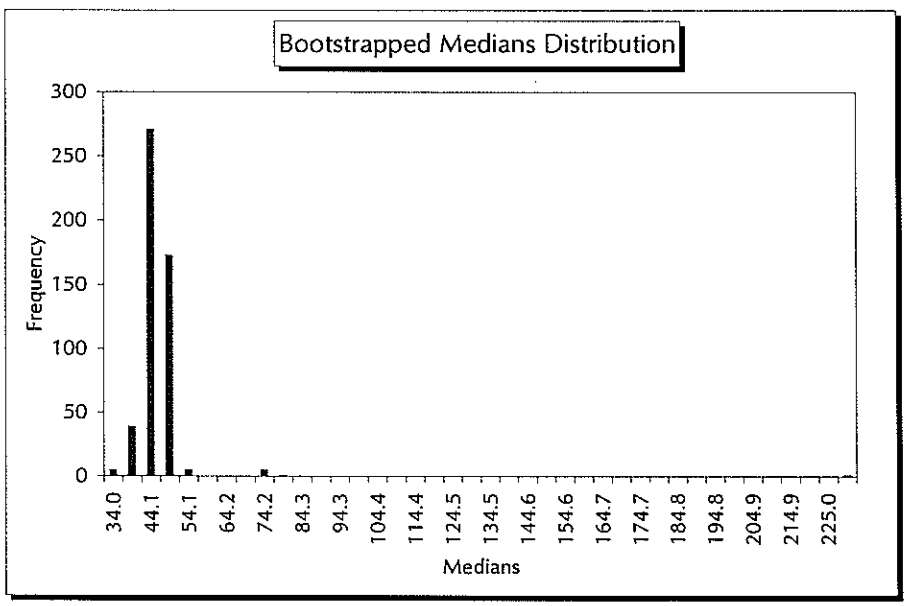


Slurry
Zn
44
22
36
33
36
290
240
230
450
290
72
50
76
45
47
18
42
49
75
43
49
40
25
26
20
32
29

Counter: 500

Bootstrap Sample Size:	27
Number of Iteration:	500
Mean Median	44.36
Standard Deviation Median	9.61

Median	Frequency
34.03	5
39.05	39
44.08	271
49.10	173
54.13	5
59.15	0
64.18	0
69.20	0
74.22	5
79.25	1
84.28	0
89.30	0
94.33	0
99.35	0
104.38	0
109.40	0
114.43	0
119.45	0
124.47	0
129.50	0
134.53	0
139.55	0
144.57	0
149.60	0
154.63	0
159.65	0
164.68	0
169.70	0
174.73	0
179.75	0
184.78	0
189.80	0
194.82	0
199.85	0
204.88	0
209.90	0
214.93	0
219.95	0
224.98	0
230.00	1

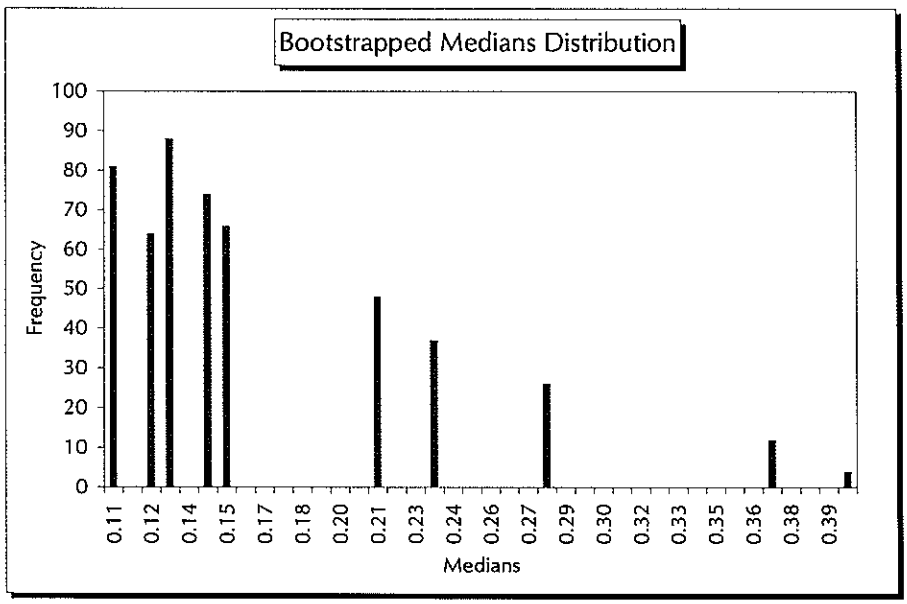


Slurry Cr(VI)
0.77
1.3
0.80
0.40
0.44
<0.10
<0.10
<0.10
<0.10
<0.10
0.28
0.14
0.21
0.23
0.15
0.63
0.12
0.13
0.37
0.37
<0.10
<0.10
<0.10
0.48
<0.10
<0.10
<0.10

Counter: 500

Bootstrap Sample Size:	27
Number of Iteration:	500
Mean Median	0.159
Standard Deviation Median	0.062

Median	Frequency
0.11	81
0.12	0
0.12	64
0.13	88
0.14	0
0.15	74
0.15	66
0.16	0
0.17	0
0.18	0
0.18	0
0.19	0
0.20	0
0.21	0
0.21	48
0.22	0
0.23	0
0.24	37
0.24	0
0.25	0
0.26	0
0.27	0
0.27	0
0.28	26
0.29	0
0.30	0
0.30	0
0.31	0
0.32	0
0.33	0
0.33	0
0.34	0
0.35	0
0.36	0
0.36	0
0.37	12
0.38	0
0.39	0
0.39	0
0.40	4

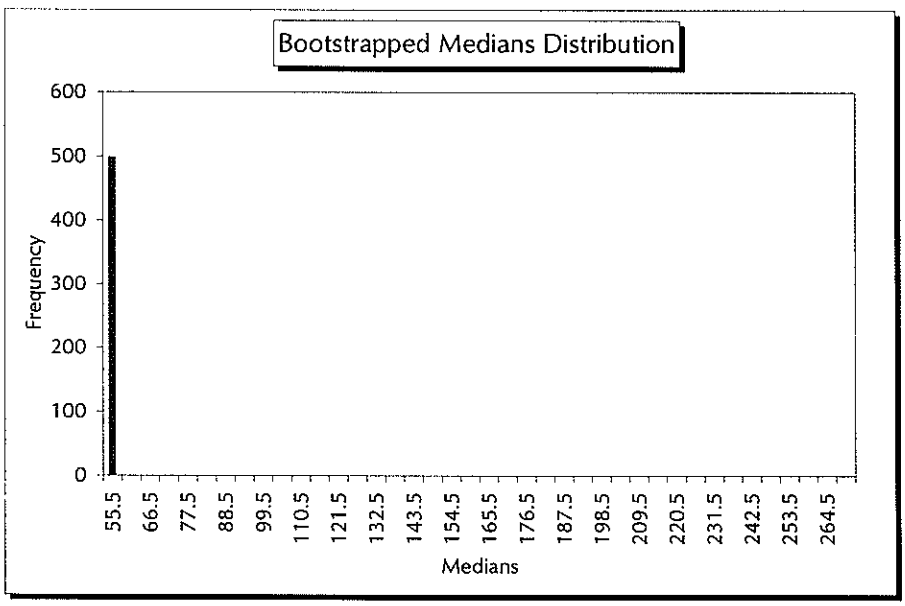


Slurry Oil
540
<50
<50
<50
<50
<50
<50
<50
<50
<50
<50
1300
910
730
<50
<50
<50
<50
<50
<50
820
270
<50
<50
<50
<50
<50

Counter: 500

Bootstrap Sample Size:	27
Number of Iteration:	500
Mean Median	50.44
Standard Deviation Median	9.8388

Median	Frequency
55.50	499
61.00	0
66.50	0
72.00	0
77.50	0
83.00	0
88.50	0
94.00	0
99.50	0
105.00	0
110.50	0
116.00	0
121.50	0
127.00	0
132.50	0
138.00	0
143.50	0
149.00	0
154.50	0
160.00	0
165.50	0
171.00	0
176.50	0
182.00	0
187.50	0
193.00	0
198.50	0
204.00	0
209.50	0
215.00	0
220.50	0
226.00	0
231.50	0
237.00	0
242.50	0
248.00	0
253.50	0
259.00	0
264.50	0
270.00	1

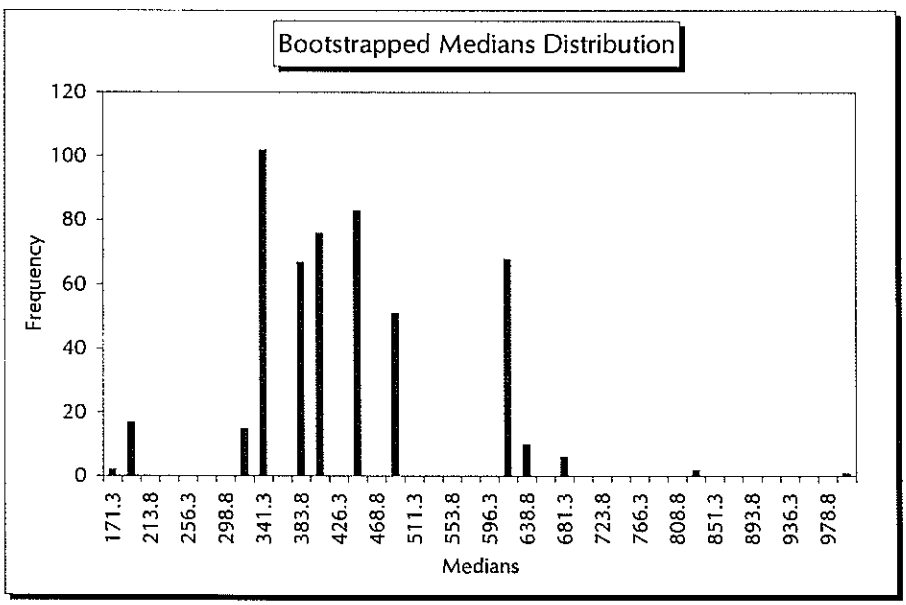


Slurry
O&G
1,000
50
170
180
110
620
610
830
330
320
670
1600
1400
440
120
60
340
400
490
<50
2,500
1100
150
1600
140
380
610

Counter: 500

Bootstrap Sample Size:	27
Number of Iteration:	500
Mean Median	428.4
Standard Deviation Median	112.1

Median	Frequency
171.25	2
192.50	17
213.75	0
235.00	0
256.25	0
277.50	0
298.75	0
320.00	15
341.25	102
362.50	0
383.75	67
405.00	76
426.25	0
447.50	83
468.75	0
490.00	51
511.25	0
532.50	0
553.75	0
575.00	0
596.25	0
617.50	68
638.75	10
660.00	0
681.25	6
702.50	0
723.75	0
745.00	0
766.25	0
787.50	0
808.75	0
830.00	2
851.25	0
872.50	0
893.75	0
915.00	0
936.25	0
957.50	0
978.75	0
1000.00	1

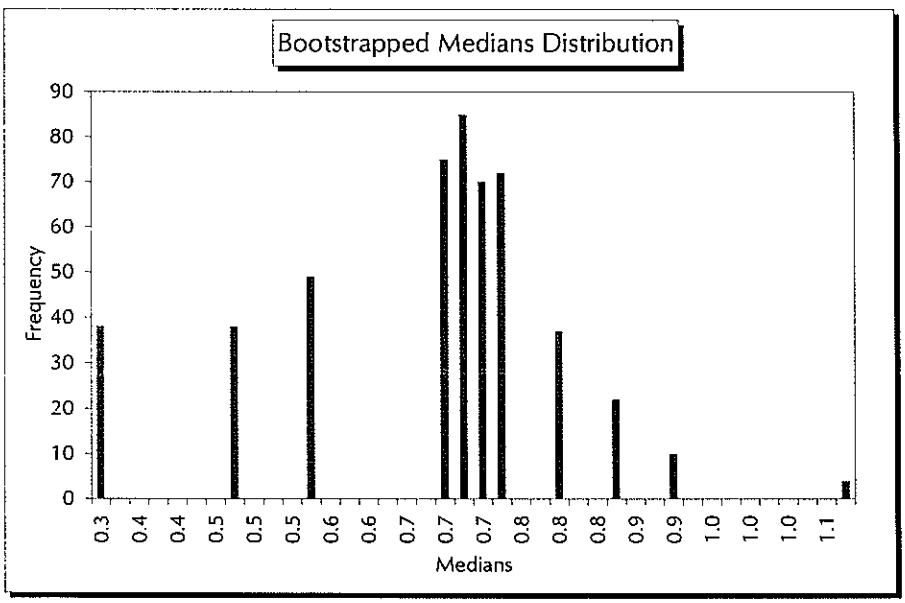


Slurry
DEHP
<0.7
<0.33
<0.33
<0.33
<0.33
1.2
0.73
0.80
<1.1
1.1
<0.33
0.68
<10
<0.33
<0.33
<0.33
0.34
0.47
0.74
<0.33
0.92
0.86
1.1
<6.6
<3.3
0.56
<3.3

Counter: 500

Bootstrap Sample Size:	27
Number of Iteration:	500
Mean Median	0.67
Standard Deviation Median	0.1404

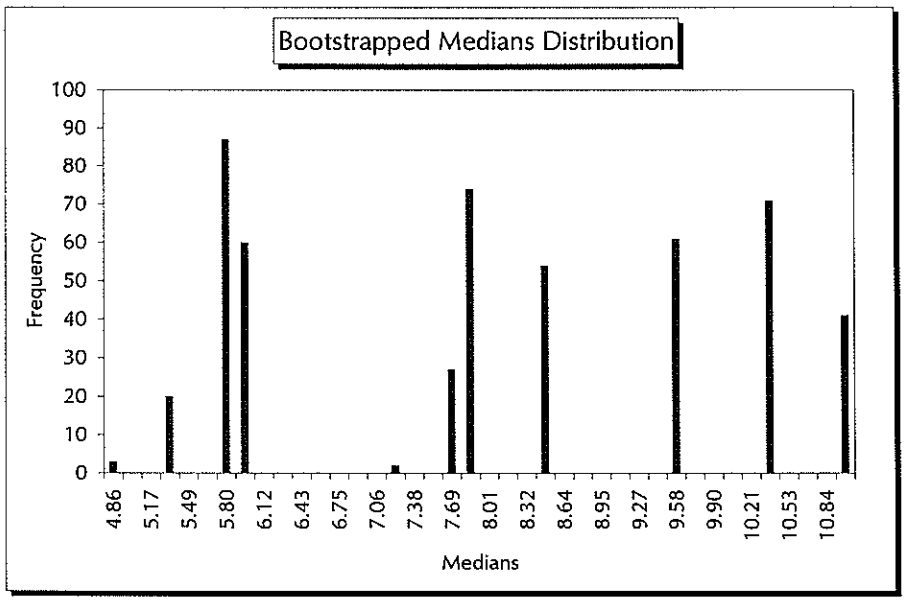
Median	Frequency
0.35	38
0.37	0
0.39	0
0.41	0
0.43	0
0.45	0
0.46	0
0.48	38
0.50	0
0.52	0
0.54	0
0.56	49
0.58	0
0.60	0
0.62	0
0.64	0
0.66	0
0.68	0
0.70	75
0.72	85
0.73	70
0.75	72
0.77	0
0.79	0
0.81	37
0.83	0
0.85	0
0.87	22
0.89	0
0.91	0
0.93	10
0.95	0
0.97	0
0.98	0
1.00	0
1.02	0
1.04	0
1.06	0
1.08	0
1.10	4



Slurry
Nitrate
4.7
11
9.5
11
5.7
5.9

Counter: 500

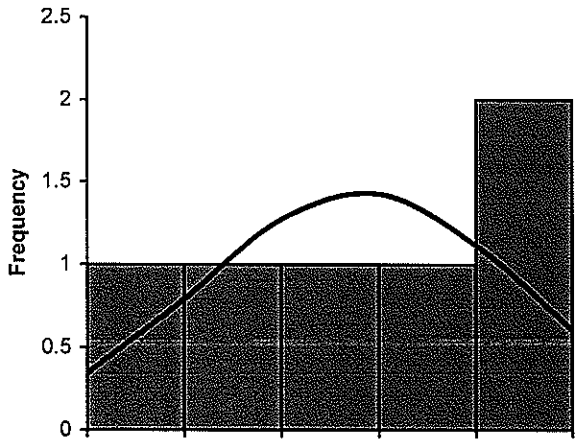
Bootstrap Sample Size:	6
Number of Iteration:	500
Mean Median	7.952
Standard Deviation Median	1.885



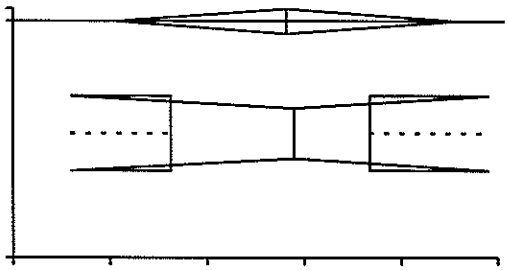
Median	Frequency
4.86	3
5.01	0
5.17	0
5.33	20
5.49	0
5.64	0
5.80	87
5.96	60
6.12	0
6.27	0
6.43	0
6.59	0
6.75	0
6.90	0
7.06	0
7.22	2
7.38	0
7.53	0
7.69	27
7.85	74
8.01	0
8.16	0
8.32	0
8.48	54
8.64	0
8.80	0
8.95	0
9.11	0
9.27	0
9.43	0
9.58	61
9.74	0
9.90	0
10.05	0
10.21	0
10.37	71
10.53	0
10.68	0
10.84	0
11.00	41

analysed with: Analyse-it + General 1.71

Test	**Continuous summary descriptives**
Variable	SO4
Performed by	mgrigorova
Date	28 April 2005

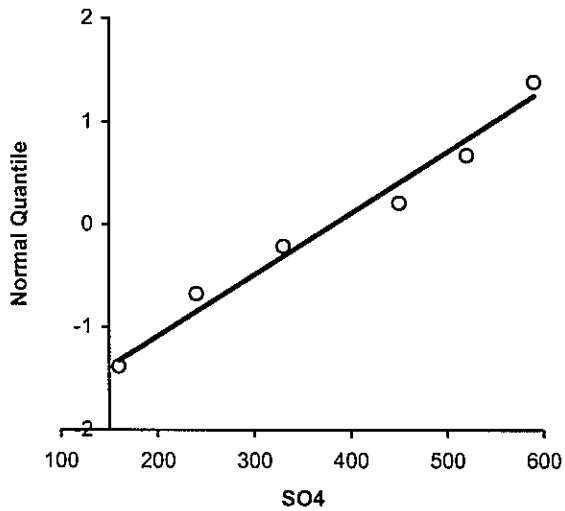


n	6 (cases excluded: 21 due to mi
Mean	381.7
95% CI	206.6 to 556.7
Variance	27816.7
SD	166.8
SE	68.1
CV	44%



Median	390
96.9% CI	160 to 590
Range	430
IQR	205

Percentile	
2.5th	-
25th	262.5
50th	390.0
75th	467.5
97.5th	-



	Coefficient	p
Shapiro-Wilk	0.9614	0.8304
Skewness	-0.1206	-
Kurtosis	-1.6398	-