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# Appendix K

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## Lake Data

Monitored Lake	ID
Gables .....	82-0082
Ravine^.....	82-0087^
Markgrafs.....	82-0089
Wilmes .....	82-0090
Powers.....	82-0092
Fish .....	82-0093
Colby.....	82-0094
La .....	82-0097
Armstrong.....	82-0116

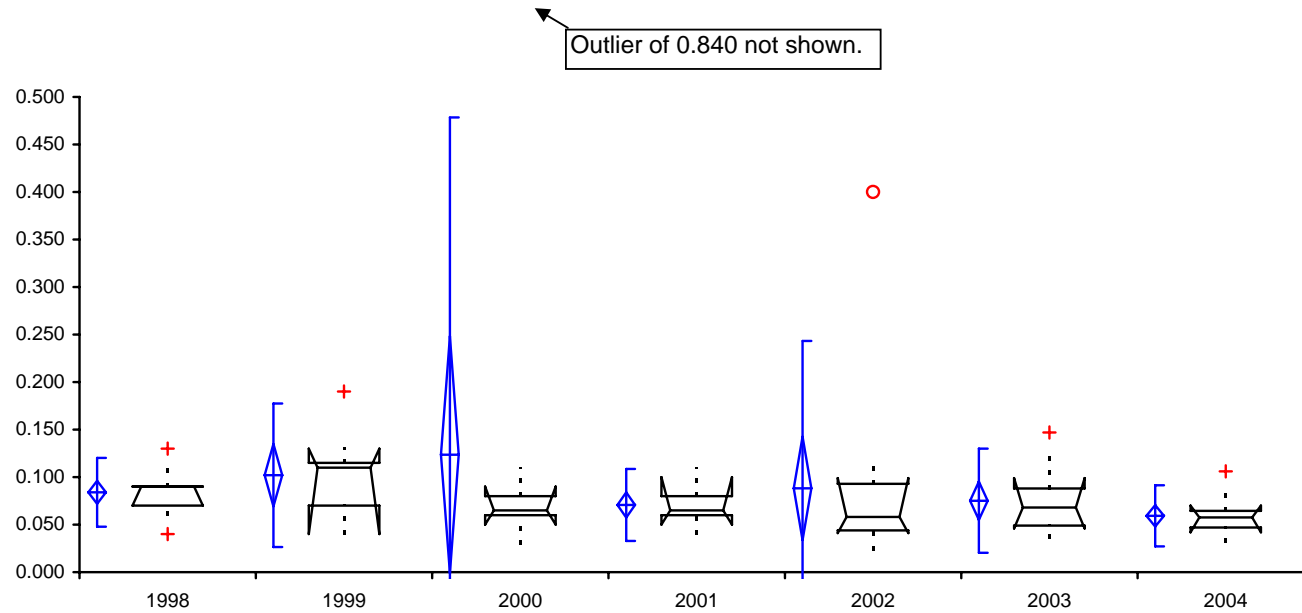
^This is the ID as assigned by the Minnesota DNR. Water quality data for this lake is improperly stored and reported under ID 82-0086.

Monitoring data presented is for entire period of record.  
Box plots are not adjusted for growing season period.

**South Washington Watershed District**

**Parameter** Total Phosphorus (mg/l), Armstrong Lake  
**Performed by** Houston Engineering, Inc

**Date** 2006

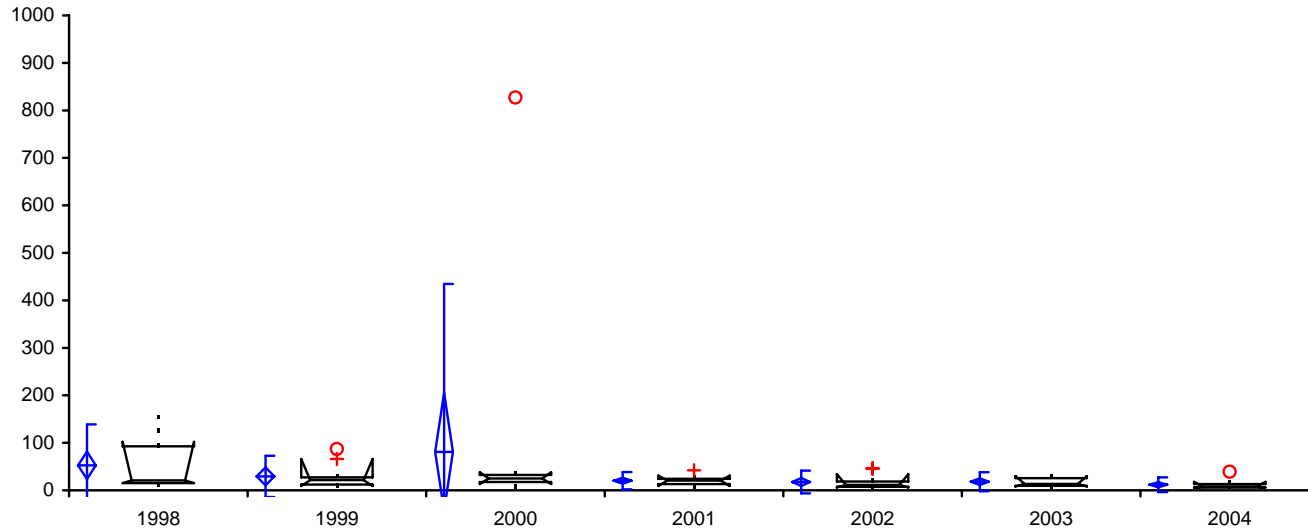


Year	n	Mean	SD	SE	95% CI of Mean	Median	IQR	95% CI of Median
1998	15	0.084	0.022	0.006	0.0718 to 0.0962	0.090	0.020	0.0700 to 0.0900
1999	10	0.102	0.046	0.015	0.0692 to 0.1348	0.110	0.045	0.0400 to 0.1300
2000	14	0.124	0.216	0.058	-0.0010 to 0.2482	0.065	0.020	0.0500 to 0.0900
2001	14	0.071	0.023	0.006	0.0574 to 0.0840	0.065	0.020	0.0500 to 0.1000
2002	14	0.088	0.094	0.025	0.0337 to 0.1426	0.058	0.049	0.0410 to 0.0990
2003	13	0.075	0.033	0.009	0.0550 to 0.0953	0.068	0.039	0.0460 to 0.0990
2004	14	0.059	0.020	0.005	0.0480 to 0.0706	0.058	0.018	0.0420 to 0.0700

**South Washington Watershed District**

**Parameter** Chlorophyll a (ug/l), Armstrong Lake  
**Performed by** Houston Engineering, Inc

**Date** 2006

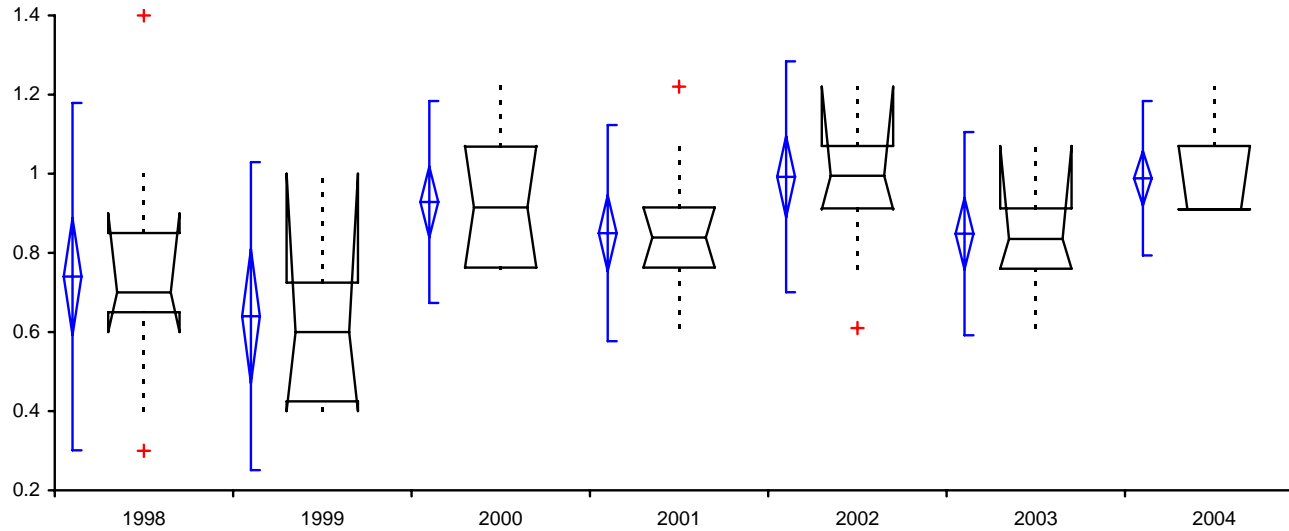


Year	n	Mean	SD	SE	95% CI of Mean	Median	IQR	95% CI of Median
1998	15	52.667	52.4141	13.5333	23.641 to 81.693	21.000	77.500	15.000 to 102.000
1999	10	29.370	26.4668	8.3695	10.437 to 48.303	21.500	15.000	9.100 to 66.000
2000	14	80.914	214.9821	57.4564	-43.213 to 205.041	25.000	14.750	13.000 to 38.000
2001	14	20.243	11.0740	2.9597	13.849 to 26.637	20.500	11.000	9.100 to 31.000
2002	14	17.657	14.5494	3.8885	9.257 to 26.058	11.500	10.950	6.000 to 34.000
2003	14	18.057	12.2413	3.2716	10.989 to 25.125	13.500	16.350	8.000 to 30.000
2004	14	11.829	9.3485	2.4985	6.431 to 17.226	7.700	7.275	5.600 to 18.000

**South Washington Watershed District**

**Parameter** Secchi Disk Depth (meters), Armstrong Lake  
**Performed by** Houston Engineering, Inc

**Date** 2006

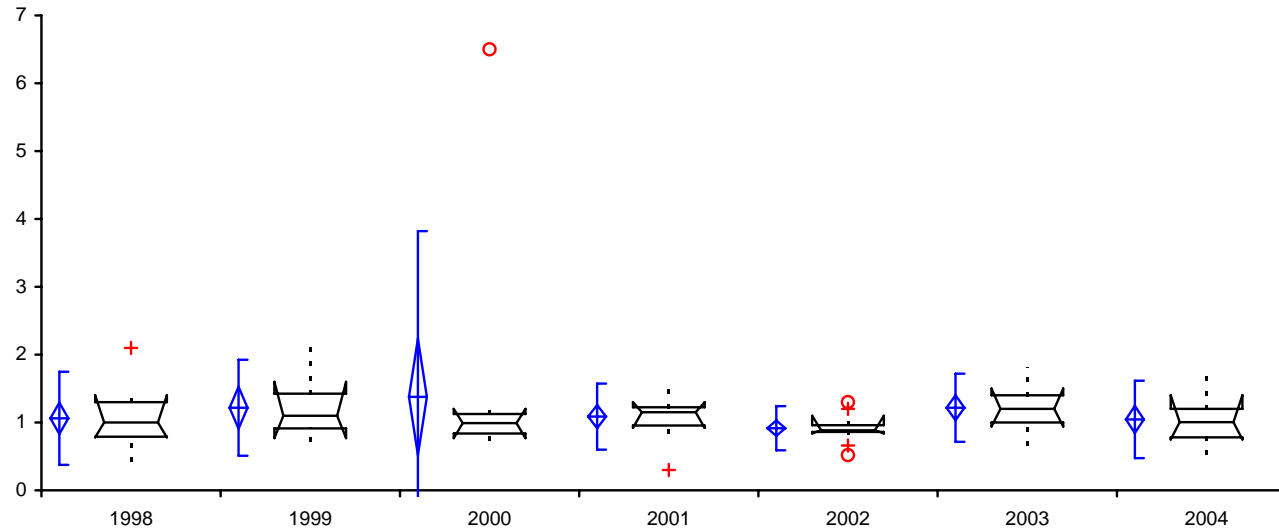


Year	n	Mean	SD	SE	95% CI of Mean	Median	IQR	95% CI of Median
1998	15	0.740	0.2667	0.0689	0.592 to 0.888	0.700	0.200	0.600 to 0.900
1999	10	0.640	0.2366	0.0748	0.471 to 0.809	0.600	0.300	0.400 to 1.000
2000	14	0.929	0.1551	0.0414	0.839 to 1.018	0.915	0.306	0.763 to 1.070
2001	14	0.850	0.1661	0.0444	0.754 to 0.946	0.839	0.152	0.763 to 0.915
2002	14	0.992	0.1774	0.0474	0.890 to 1.095	0.995	0.158	0.910 to 1.220
2003	14	0.849	0.1561	0.0417	0.758 to 0.939	0.835	0.153	0.760 to 1.070
2004	14	0.989	0.1185	0.0317	0.920 to 1.057	0.910	0.160	0.910 to 1.070

**South Washington Watershed District**

**Parameter** Total Kjeldahl Nitrogen (mg/l), Armstrong Lake  
**Performed by** Houston Engineering, Inc

**Date** 2006



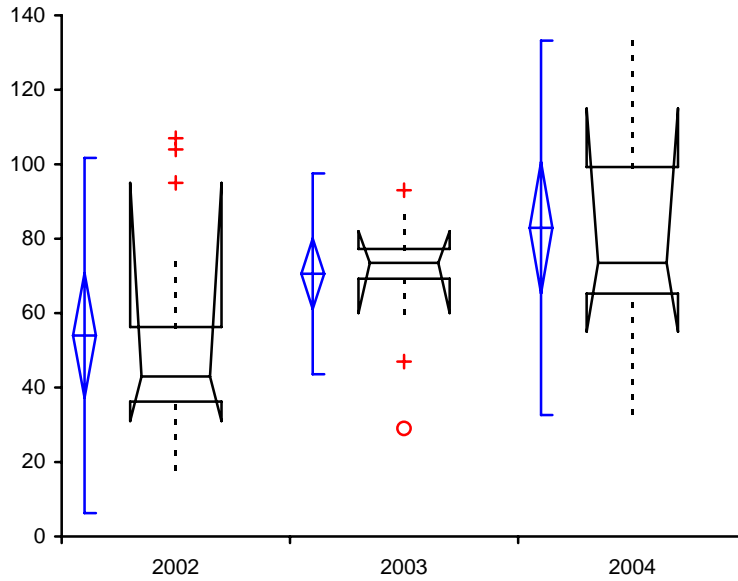
Year	n	Mean	SD	SE	95% CI of Mean	Median	IQR	95% CI of Median
1998	15	1.061	0.4167	0.1076	0.831 to 1.292	1.000	0.510	0.780 to 1.400
1999	10	1.217	0.4304	0.1361	0.909 to 1.525	1.100	0.513	0.770 to 1.600
2000	14	1.377	1.4853	0.3970	0.520 to 2.235	0.990	0.288	0.770 to 1.200
2001	14	1.086	0.2959	0.0791	0.916 to 1.257	1.150	0.270	0.920 to 1.300
2002	14	0.916	0.1976	0.0528	0.802 to 1.030	0.885	0.100	0.840 to 1.100
2003	13	1.217	0.3054	0.0847	1.032 to 1.401	1.200	0.400	0.940 to 1.500
2004	14	1.046	0.3470	0.0927	0.845 to 1.246	1.005	0.420	0.750 to 1.400

**South Washington Watershed District**

**Parameter** Chloride (mg/l), Armstrong Lake

**Performed by** Houston Engineering, Inc

**Date** 2006



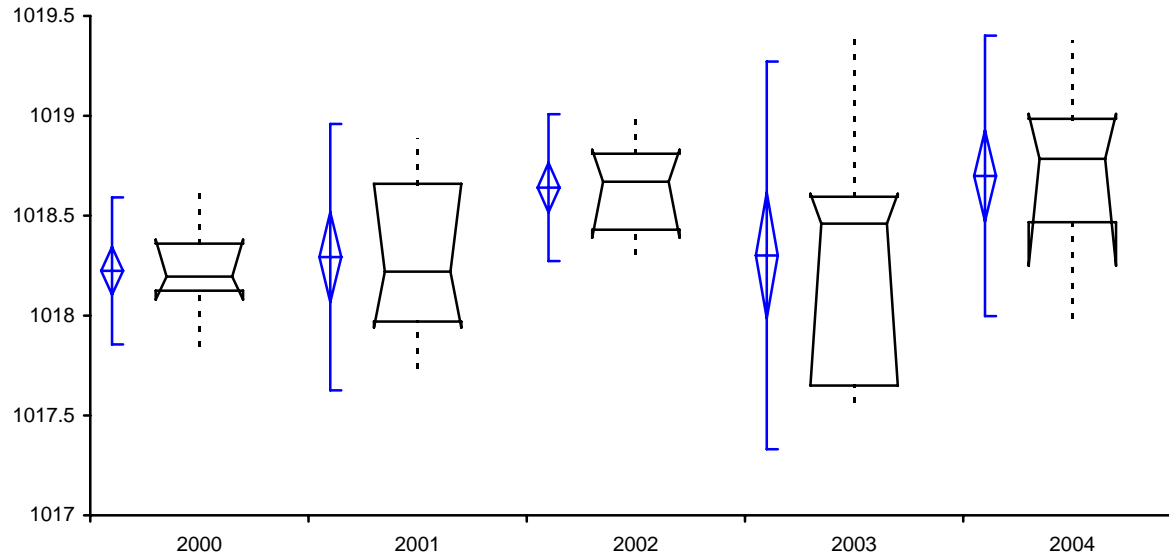
Year	n	Mean	SD	SE	95% CI of Mean	Median	IQR	95% CI of Median
2002	14	54.000	29.0040	7.7516	37.254 to 70.746	43.000	20.000	31.000 to 95.000
2003	14	70.571	16.3975	4.3824	61.104 to 80.039	73.500	8.000	60.000 to 82.000
2004	14	82.929	30.5802	8.1729	65.272 to 100.585	73.500	34.000	55.000 to 115.000

Test | **South Washington Watershed District**

Parameter | Lake Fluctuation, Armstrong Lake

Performed by | Houston Engineering, Inc.

Date | 2006

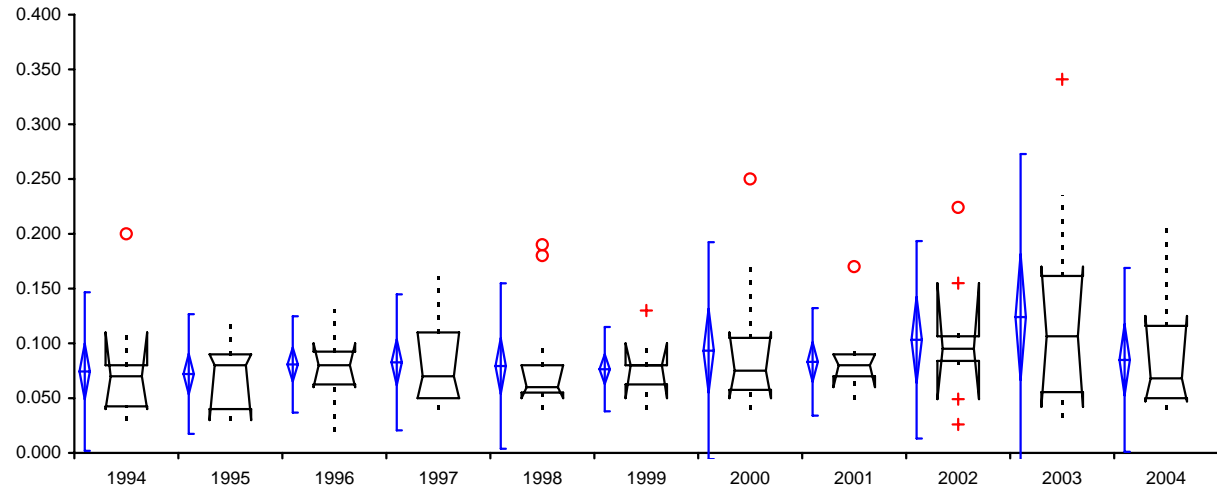


82-0116 by Year	n	Mean	SD	SE	95% CI of Mean	Median	IQR	95% CI of Median
2000	16	1018.224	0.2237	0.0559	1018.105 to 1018.343	1018.195	0.235	1018.080 to 1018.380
2001	15	1018.293	0.4054	0.1047	1018.068 to 1018.517	1018.220	0.690	1017.940 to 1018.660
2002	15	1018.641	0.2235	0.0577	1018.517 to 1018.764	1018.670	0.380	1018.390 to 1018.830
2003	16	1018.301	0.5901	0.1475	1017.987 to 1018.616	1018.460	0.945	1017.650 to 1018.610
2004	16	1018.699	0.4268	0.1067	1018.472 to 1018.927	1018.785	0.518	1018.250 to 1019.010

**South Washington Watershed District**

**Parameter** Total Phosphorus (mg/l), Wilmes Lake  
**Performed by** Houston Engineering, Inc

**Date** 2006



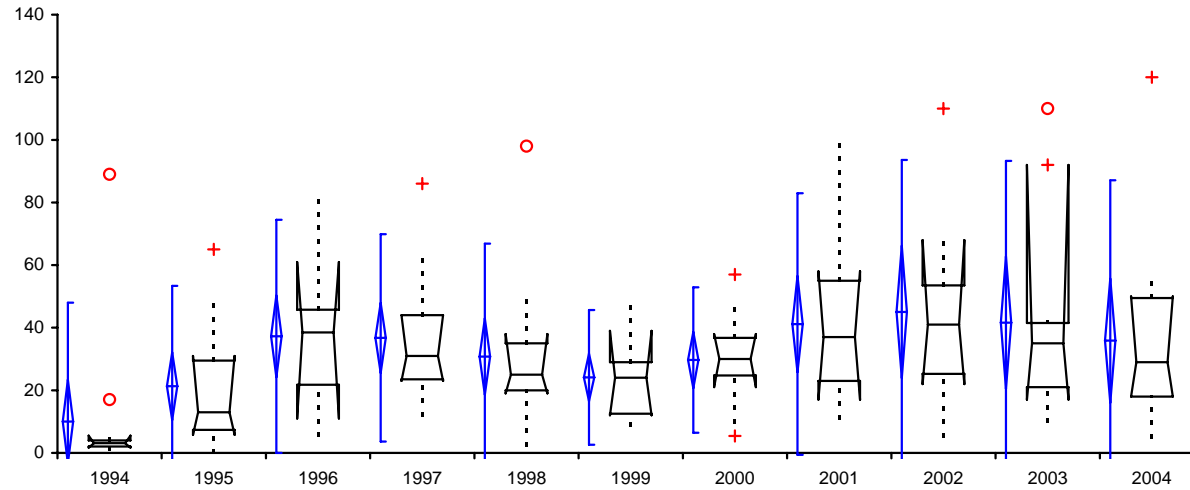
Year	n	Mean	SD	SE	95% CI of Mean	Median	IQR	95% CI of Median
1994	14	0.0743	0.04398	0.01175	0.0489 to 0.0997	0.0700	0.0375	0.0400 to 0.1100
1995	15	0.0720	0.03321	0.00857	0.0536 to 0.0904	0.0800	0.0500	0.0300 to 0.0900
1996	14	0.0807	0.02674	0.00715	0.0653 to 0.0962	0.0800	0.0300	0.0600 to 0.1000
1997	15	0.0827	0.03770	0.00973	0.0618 to 0.1035	0.0700	0.0600	0.0500 to 0.1100
1998	15	0.0793	0.04590	0.01185	0.0539 to 0.1048	0.0600	0.0250	0.0500 to 0.0800
1999	14	0.0764	0.02341	0.00626	0.0629 to 0.0899	0.0800	0.0175	0.0500 to 0.1000
2000	12	0.0933	0.06020	0.01738	0.0551 to 0.1316	0.0750	0.0475	0.0500 to 0.1100
2001	13	0.0831	0.02983	0.00827	0.0651 to 0.1011	0.0800	0.0200	0.0600 to 0.0900
2002	10	0.1032	0.05479	0.01732	0.0640 to 0.1424	0.0950	0.0225	0.0490 to 0.1550
2003	12	0.1239	0.09053	0.02613	0.0664 to 0.1814	0.1065	0.1060	0.0420 to 0.1700
2004	12	0.0849	0.05097	0.01471	0.0525 to 0.1173	0.0680	0.0660	0.0470 to 0.1250



**South Washington Watershed District**

**Parameter** Chlorophyll a (ug/l), Wilmes Lake  
**Performed by** Houston Engineering, Inc

**Date** 2006

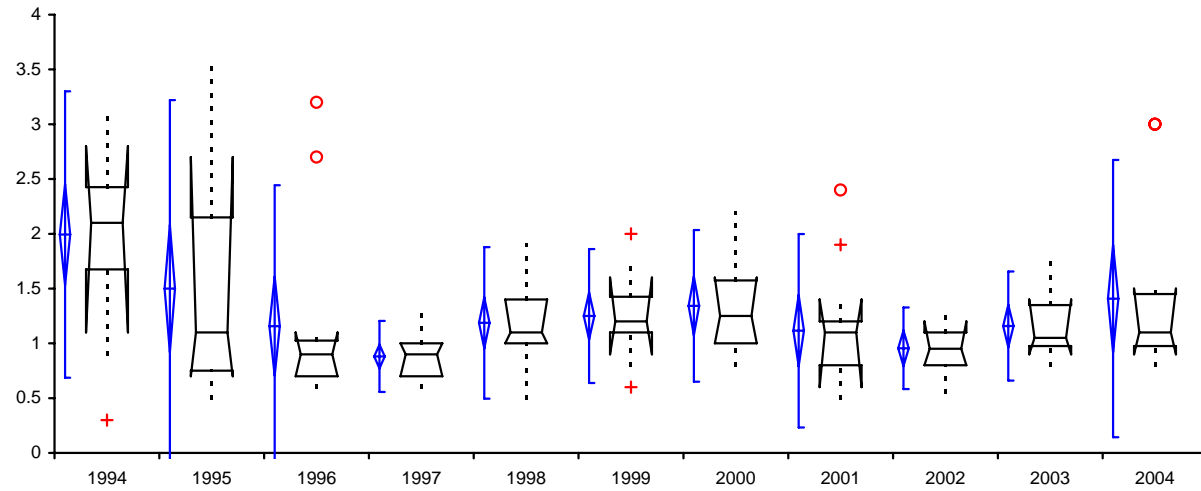


Year	n	Mean	SD	SE	95% CI of Mean	Median	IQR	95% CI of Median
1994	14	10.014	23.0775	6.1677	-3.310 to 23.339	3.100	1.975	1.700 to 5.500
1995	15	21.320	19.4675	5.0265	10.539 to 32.101	13.000	22.150	5.800 to 31.000
1996	14	37.243	22.6321	6.0487	24.175 to 50.310	38.500	24.000	11.000 to 61.000
1997	15	36.733	20.1405	5.2002	25.580 to 47.887	31.000	20.500	23.000 to 44.000
1998	15	30.760	21.9514	5.6678	18.604 to 42.916	25.000	15.000	19.000 to 38.000
1999	14	24.129	13.0734	3.4940	16.580 to 31.677	24.000	16.500	12.000 to 39.000
2000	12	29.683	14.1196	4.0760	20.712 to 38.655	30.000	12.000	21.000 to 38.000
2001	13	41.154	25.3996	7.0446	25.805 to 56.503	37.000	32.000	17.000 to 58.000
2002	10	45.030	29.5110	9.3322	23.919 to 66.141	41.000	28.250	22.000 to 68.000
2003	11	41.627	31.4180	9.4729	20.520 to 62.734	35.000	20.500	17.000 to 92.000
2004	12	35.867	31.1496	8.9921	16.075 to 55.658	29.000	31.500	18.000 to 50.000

**South Washington Watershed District**

**Parameter** Secchi Disk Depth (meters), Wilmes Lake  
**Performed by** Houston Engineering, Inc

**Date** 2006

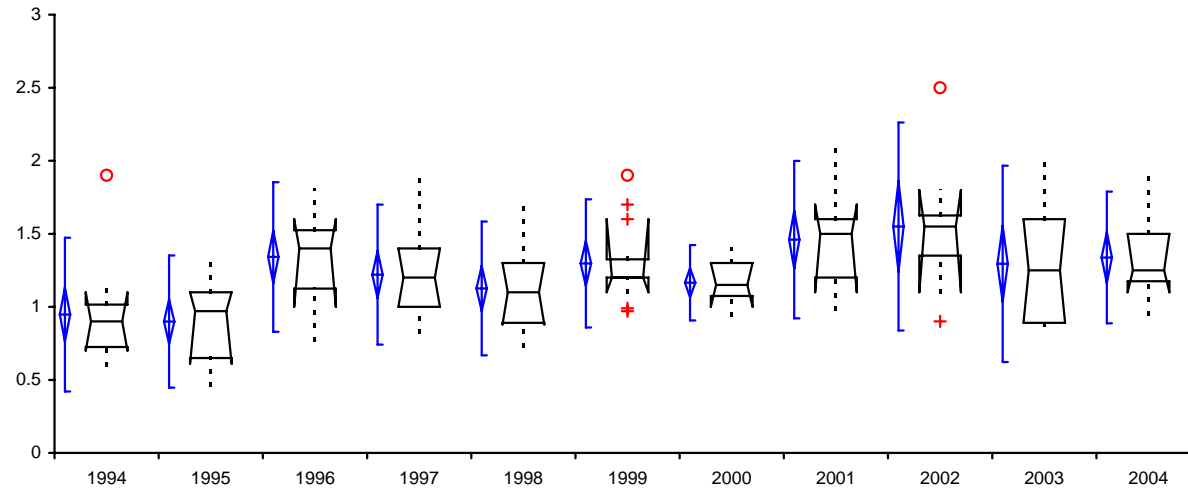


Year	n	Mean	SD	SE	95% CI of Mean	Median	IQR	95% CI of Median
1994	14	1.993	0.7947	0.2124	1.534 to 2.452	2.100	0.750	1.100 to 2.800
1995	15	1.500	1.0461	0.2701	0.921 to 2.079	1.100	1.400	0.700 to 2.700
1996	14	1.157	0.7822	0.2091	0.706 to 1.609	0.900	0.325	0.700 to 1.100
1997	15	0.880	0.1971	0.0509	0.771 to 0.989	0.900	0.300	0.700 to 1.000
1998	15	1.187	0.4207	0.1086	0.954 to 1.420	1.100	0.400	1.000 to 1.400
1999	14	1.250	0.3716	0.0993	1.035 to 1.465	1.200	0.325	0.900 to 1.600
2000	12	1.342	0.4209	0.1215	1.074 to 1.609	1.250	0.575	1.000 to 1.600
2001	13	1.115	0.5367	0.1489	0.791 to 1.440	1.100	0.400	0.600 to 1.400
2002	10	0.955	0.2266	0.0717	0.793 to 1.117	0.950	0.300	0.800 to 1.200
2003	12	1.158	0.3029	0.0874	0.966 to 1.351	1.050	0.375	0.900 to 1.400
2004	12	1.408	0.7692	0.2221	0.920 to 1.897	1.100	0.475	0.900 to 1.500

**South Washington Watershed District**

**Parameter** Total Kjeldahl Nitrogen (mg/l), Wilmes Lake  
**Performed by** Houston Engineering, Inc

**Date** 2006



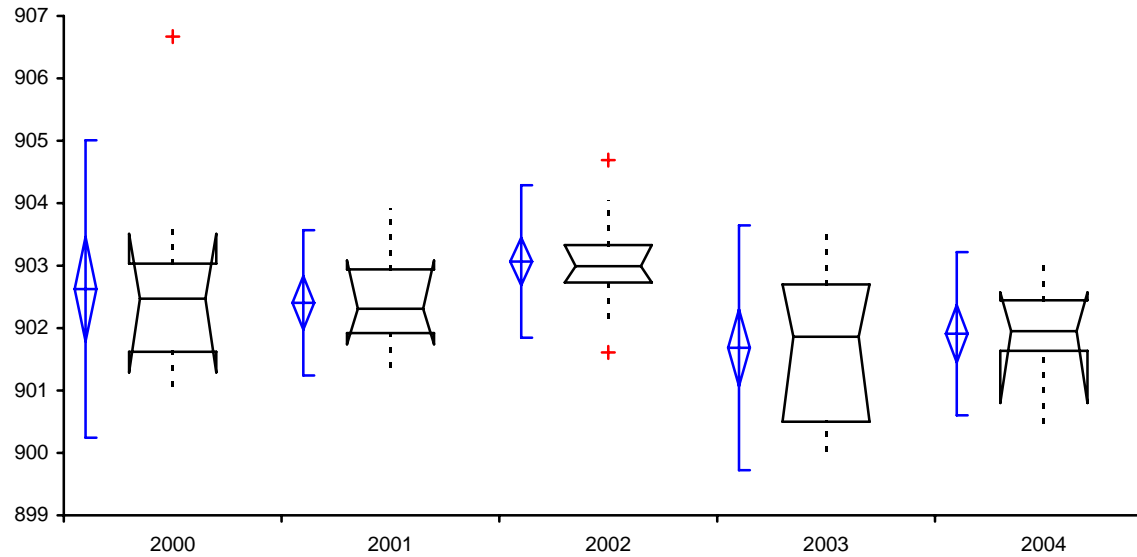
Year	n	Mean	SD	SE	95% CI of Mean	Median	IQR	95% CI of Median
1994	14	0.947	0.3201	0.0856	0.762 to 1.132	0.900	0.290	0.700 to 1.100
1995	15	0.899	0.2750	0.0710	0.747 to 1.052	0.970	0.450	0.610 to 1.100
1996	14	1.341	0.3112	0.0832	1.162 to 1.521	1.400	0.400	1.000 to 1.600
1997	15	1.221	0.2914	0.0752	1.059 to 1.382	1.200	0.400	1.000 to 1.400
1998	15	1.126	0.2786	0.0719	0.972 to 1.280	1.100	0.410	0.880 to 1.300
1999	14	1.297	0.2667	0.0713	1.143 to 1.451	1.200	0.125	1.100 to 1.600
2000	12	1.165	0.1568	0.0453	1.065 to 1.265	1.150	0.225	1.000 to 1.300
2001	13	1.460	0.3278	0.0909	1.262 to 1.658	1.500	0.400	1.100 to 1.700
2002	10	1.550	0.4327	0.1368	1.240 to 1.860	1.550	0.275	1.100 to 1.800
2003	12	1.294	0.4087	0.1180	1.035 to 1.554	1.250	0.710	0.890 to 1.600
2004	12	1.338	0.2740	0.0791	1.163 to 1.512	1.250	0.325	1.100 to 1.500

**Test** | South Washington Watershed District

**Variables** | Lake Fluctuation, Wilmes Lake

**Performed by** | Houston Engineering, Inc.

**Date** | 2006

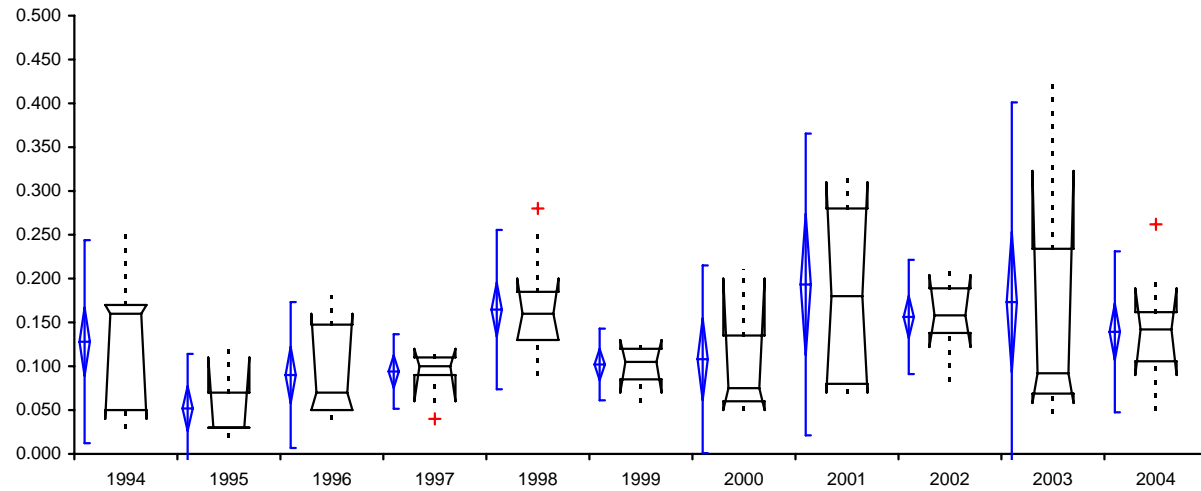


82-0090 by Year	n	Mean	SD	SE	95% CI of Mean	Median	IQR	95% CI of Median
<b>2000</b>	14	902.625	1.4485	0.3871	901.789 to 903.461	902.470	1.413	901.290 to 903.510
<b>2001</b>	13	902.405	0.7072	0.1962	901.977 to 902.832	902.310	1.020	901.740 to 903.080
<b>2002</b>	17	903.066	0.7425	0.1801	902.685 to 903.448	902.990	0.600	902.730 to 903.330
<b>2003</b>	17	901.685	1.1921	0.2891	901.072 to 902.298	901.860	2.200	900.500 to 902.700
<b>2004</b>	14	901.910	0.7945	0.2123	901.451 to 902.369	901.950	0.810	900.800 to 902.570

**South Washington Watershed District**

**Parameter** Total Phosphorus (mg/l), Markgrafs Lake  
**Performed by** Houston Engineering, Inc

**Date** 2006

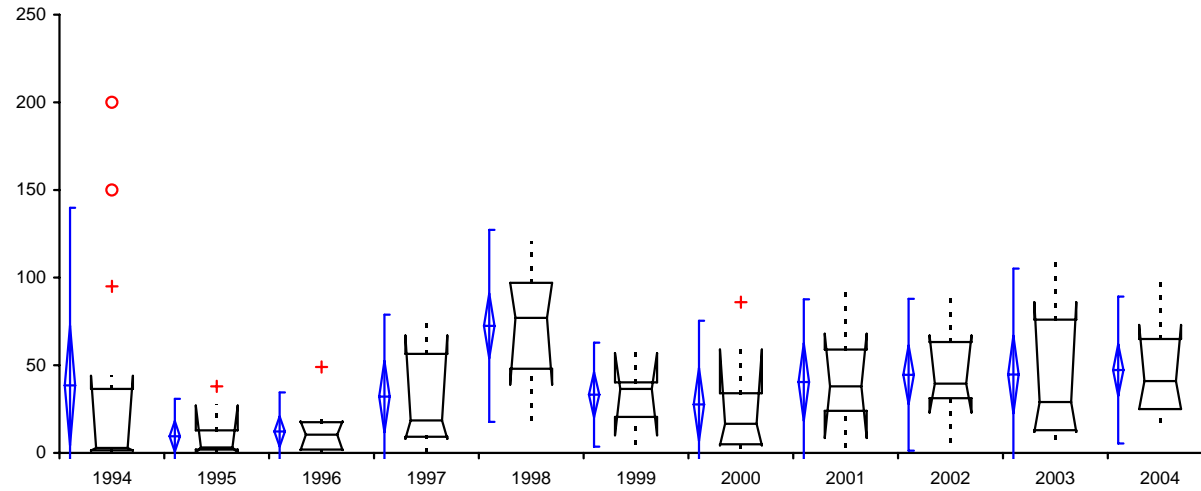


Year	n	Mean	SD	SE	95% CI of Mean	Median	IQR	95% CI of Median
1994	15	0.1280	0.07043	0.01818	0.0890 to 0.1670	0.1600	0.1200	0.0400 to 0.1700
1995	11	0.0518	0.03790	0.01143	0.0264 to 0.0773	0.0300	0.0400	0.0300 to 0.1100
1996	12	0.0900	0.05063	0.01462	0.0578 to 0.1222	0.0700	0.0975	0.0500 to 0.1600
1997	10	0.0940	0.02591	0.00819	0.0755 to 0.1125	0.1000	0.0200	0.0600 to 0.1200
1998	15	0.1647	0.05527	0.01427	0.1341 to 0.1953	0.1600	0.0550	0.1300 to 0.2000
1999	10	0.1020	0.02486	0.00786	0.0842 to 0.1198	0.1050	0.0350	0.0700 to 0.1300
2000	10	0.1080	0.06512	0.02059	0.0614 to 0.1546	0.0750	0.0750	0.0500 to 0.2000
2001	9	0.1933	0.10464	0.03488	0.1129 to 0.2738	0.1800	0.2000	0.0700 to 0.3100
2002	13	0.1563	0.03961	0.01098	0.1324 to 0.1802	0.1580	0.0510	0.1220 to 0.2040
2003	14	0.1733	0.13848	0.03701	0.0933 to 0.2532	0.0920	0.1653	0.0580 to 0.3230
2004	14	0.1393	0.05580	0.01491	0.1071 to 0.1715	0.1420	0.0560	0.0900 to 0.1890

**South Washington Watershed District**

**Parameter** Chlorophyll a (ug/l), Markgrafs Lake  
**Performed by** Houston Engineering, Inc

**Date** 2006

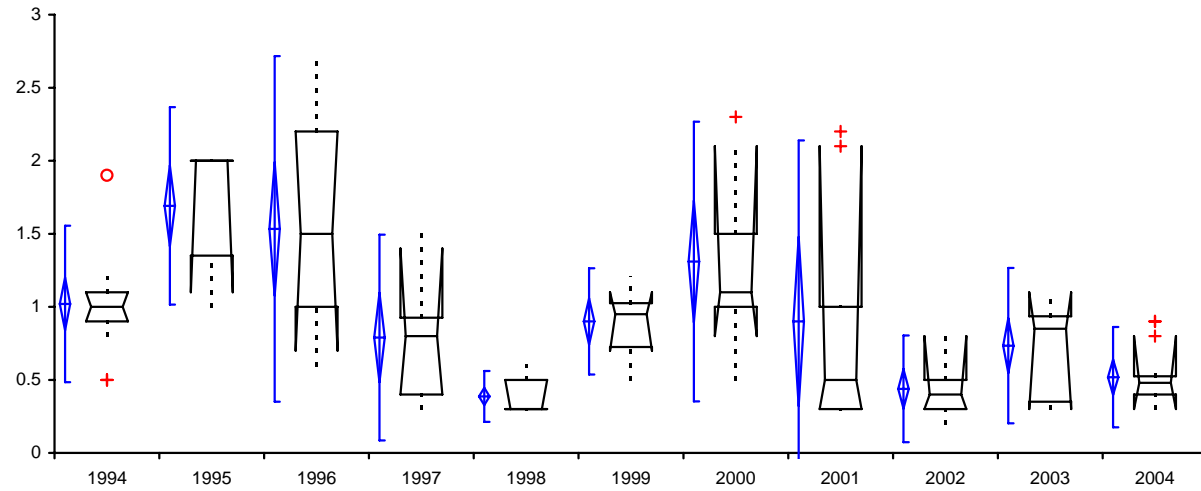


Year	n	Mean	SD	SE	95% CI of Mean	Median	IQR	95% CI of Median
1994	15	38.487	61.6149	15.9089	4.365 to 72.608	2.800	35.050	1.400 to 44.000
1995	11	9.455	12.9963	3.9185	0.724 to 18.186	3.100	10.900	0.100 to 27.000
1996	12	12.258	13.5044	3.8984	3.678 to 20.839	10.400	15.600	1.600 to 18.000
1997	10	32.100	28.4310	8.9907	11.762 to 52.438	18.500	47.250	8.000 to 67.000
1998	15	72.467	33.2885	8.5951	54.032 to 90.901	77.000	49.000	39.000 to 97.000
1999	10	33.240	18.0222	5.6991	20.348 to 46.132	36.500	19.750	10.000 to 57.000
2000	10	27.620	29.0363	9.1821	6.849 to 48.391	16.600	29.100	4.300 to 59.000
2001	9	40.444	28.6895	9.5632	18.392 to 62.497	38.000	35.000	8.500 to 68.000
2002	12	44.583	26.3308	7.6010	27.854 to 61.313	39.500	32.000	23.000 to 67.000
2003	13	44.723	36.7487	10.1922	22.516 to 66.930	29.000	63.000	12.000 to 86.000
2004	14	47.286	25.4783	6.8094	32.575 to 61.996	41.000	40.000	25.000 to 73.000

**South Washington Watershed District**

**Parameter** Secchi Disk Depth (meters), Markgrafs Lake  
**Performed by** Houston Engineering, Inc

**Date** 2006

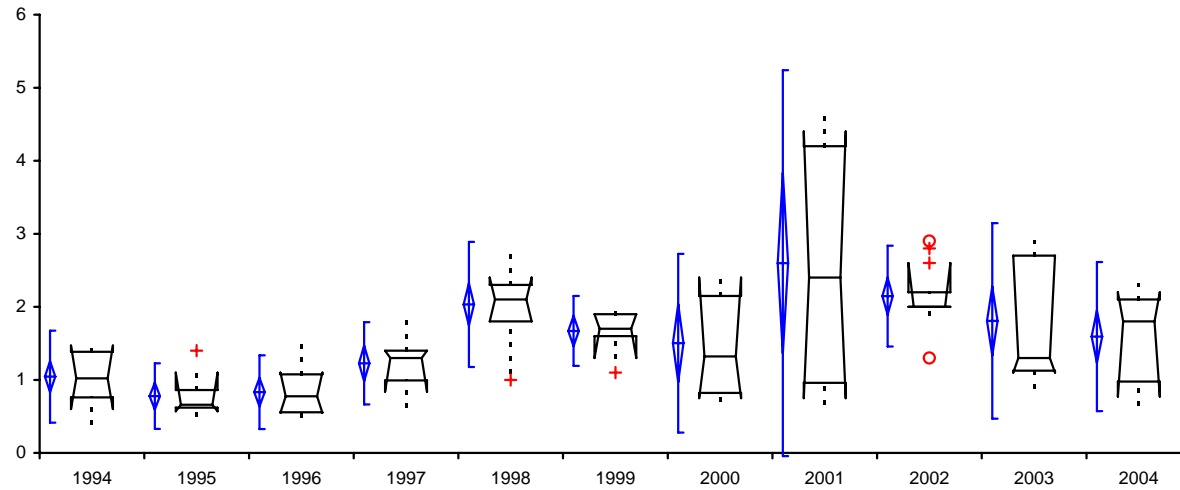


Year	n	Mean	SD	SE	95% CI of Mean	Median	IQR	95% CI of Median
1994	15	1.020	0.3256	0.0841	0.840 to 1.200	1.000	0.200	0.900 to 1.100
1995	11	1.691	0.4110	0.1239	1.415 to 1.967	2.000	0.650	1.100 to 2.000
1996	12	1.533	0.7190	0.2076	1.076 to 1.990	1.500	1.200	0.700 to 2.200
1997	10	0.790	0.4280	0.1354	0.484 to 1.096	0.800	0.525	0.400 to 1.400
1998	15	0.387	0.1060	0.0274	0.328 to 0.445	0.300	0.200	0.300 to 0.500
1999	10	0.900	0.2211	0.0699	0.742 to 1.058	0.950	0.300	0.700 to 1.100
2000	10	1.310	0.5820	0.1841	0.894 to 1.726	1.100	0.500	0.800 to 2.100
2001	9	0.900	0.7533	0.2511	0.321 to 1.479	0.500	0.700	0.300 to 2.100
2002	13	0.438	0.2219	0.0615	0.304 to 0.573	0.400	0.200	0.300 to 0.800
2003	14	0.734	0.3233	0.0864	0.548 to 0.921	0.850	0.585	0.300 to 1.100
2004	14	0.519	0.2088	0.0558	0.398 to 0.639	0.480	0.125	0.300 to 0.800

**South Washington Watershed District**

**Parameter** Total Kjeldahl Nitrogen (mg/l), Markgrafs Lake  
**Performed by** Houston Engineering, Inc

**Date** 2006



Year	n	Mean	SD	SE	95% CI of Mean	Median	IQR	95% CI of Median
1994	15	1.044	0.3828	0.0988	0.832 to 1.256	1.020	0.625	0.600 to 1.470
1995	11	0.777	0.2730	0.0823	0.594 to 0.961	0.660	0.240	0.570 to 1.100
1996	12	0.832	0.3073	0.0887	0.636 to 1.027	0.775	0.518	0.550 to 1.100
1997	10	1.226	0.3422	0.1082	0.981 to 1.471	1.300	0.408	0.840 to 1.400
1998	15	2.033	0.5205	0.1344	1.745 to 2.322	2.100	0.500	1.800 to 2.400
1999	10	1.670	0.2908	0.0920	1.462 to 1.878	1.700	0.300	1.300 to 1.900
2000	10	1.502	0.7442	0.2353	0.970 to 2.034	1.320	1.328	0.750 to 2.400
2001	9	2.599	1.6062	0.5354	1.364 to 3.834	2.400	3.240	0.750 to 4.400
2002	13	2.146	0.4196	0.1164	1.893 to 2.400	2.000	0.200	2.000 to 2.600
2003	14	1.806	0.8136	0.2174	1.337 to 2.276	1.300	1.575	1.100 to 2.700
2004	14	1.592	0.6203	0.1658	1.234 to 1.950	1.800	1.123	0.770 to 2.200

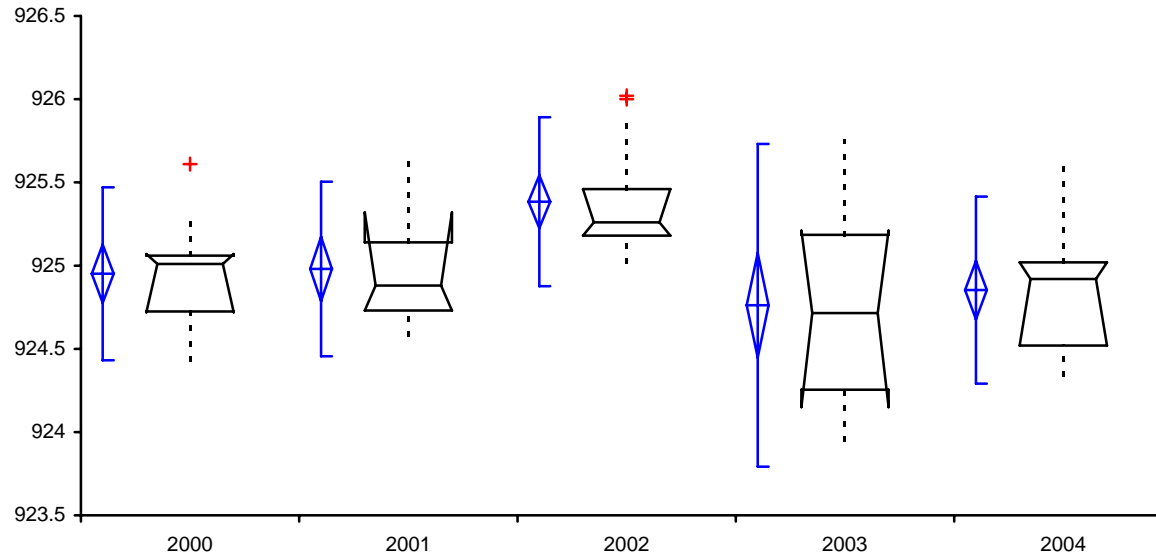


Test | South Washington Watershed District

Variables | Lake Fluctuation, Markgrafs Lake

Performed by | Houston Engineering, Inc.

Date | 2006

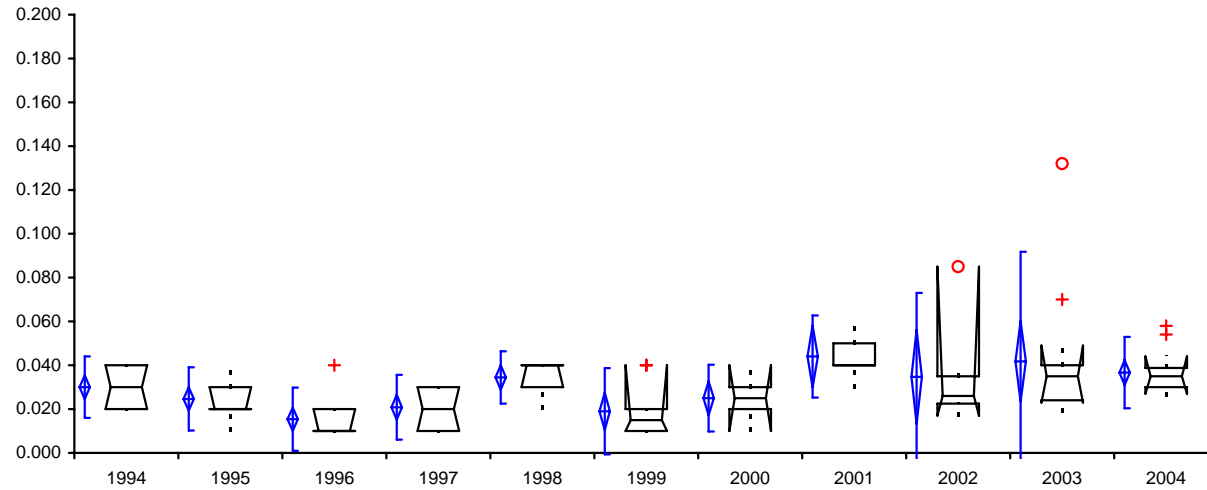


82-0089 by Year	n	Mean	SD	SE	95% CI of Mean	Median	IQR	95% CI of Median
2000	15	924.951	0.3158	0.0815	924.776 to 925.126	925.010	0.335	924.720 to 925.070
2001	13	924.980	0.3186	0.0884	924.787 to 925.173	924.880	0.410	924.730 to 925.320
2002	17	925.384	0.3085	0.0748	925.226 to 925.543	925.260	0.280	925.180 to 925.460
2003	16	924.762	0.5894	0.1473	924.448 to 925.076	924.715	0.930	924.150 to 925.210
2004	17	924.853	0.3415	0.0828	924.677 to 925.029	924.920	0.500	924.520 to 925.020

**South Washington Watershed District**

**Parameter** Total Phosphorus (mg/l), Powers Lake  
**Performed by** Houston Engineering, Inc

**Date** 2006

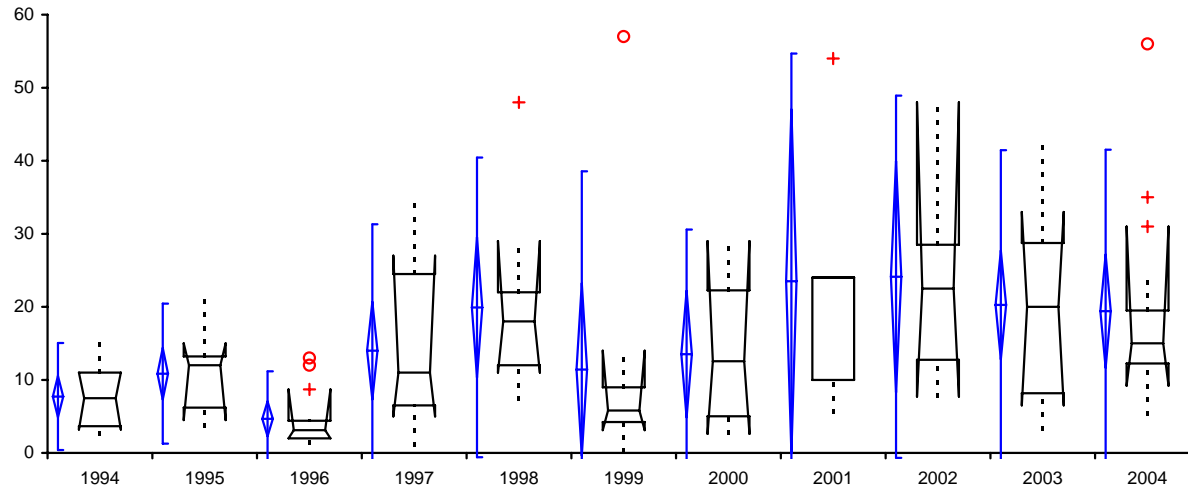


Year	n	Mean	SD	SE	95% CI of Mean	Median	IQR	95% CI of Median
<b>1994</b>	12	0.0300	0.00853	0.00246	0.0246 to 0.0354	0.0300	0.0200	0.0200 to 0.0400
<b>1995</b>	13	0.0246	0.00877	0.00243	0.0193 to 0.0299	0.0200	0.0100	0.0200 to 0.0300
<b>1996</b>	13	0.0154	0.00877	0.00243	0.0101 to 0.0207	0.0100	0.0100	0.0100 to 0.0200
<b>1997</b>	12	0.0208	0.00900	0.00260	0.0151 to 0.0266	0.0200	0.0200	0.0100 to 0.0300
<b>1998</b>	9	0.0344	0.00726	0.00242	0.0289 to 0.0400	0.0400	0.0100	0.0300 to 0.0400
<b>1999</b>	10	0.0190	0.01197	0.00379	0.0104 to 0.0276	0.0150	0.0100	0.0100 to 0.0400
<b>2000</b>	8	0.0250	0.00926	0.00327	0.0173 to 0.0327	0.0250	0.0100	0.0100 to 0.0400
<b>2001</b>	5	0.0440	0.01140	0.00510	0.0298 to 0.0582	0.0400	0.0100	- to -
<b>2002</b>	7	0.0347	0.02327	0.00880	0.0132 to 0.0562	0.0260	0.0125	0.0170 to 0.0850
<b>2003</b>	13	0.0418	0.03039	0.00843	0.0234 to 0.0601	0.0350	0.0160	0.0230 to 0.0490
<b>2004</b>	14	0.0366	0.00990	0.00265	0.0309 to 0.0424	0.0350	0.0088	0.0270 to 0.0440

**South Washington Watershed District**

**Parameter** Chlorophyll a (ug/l), Powers Lake  
**Performed by** Houston Engineering, Inc

**Date** 2006

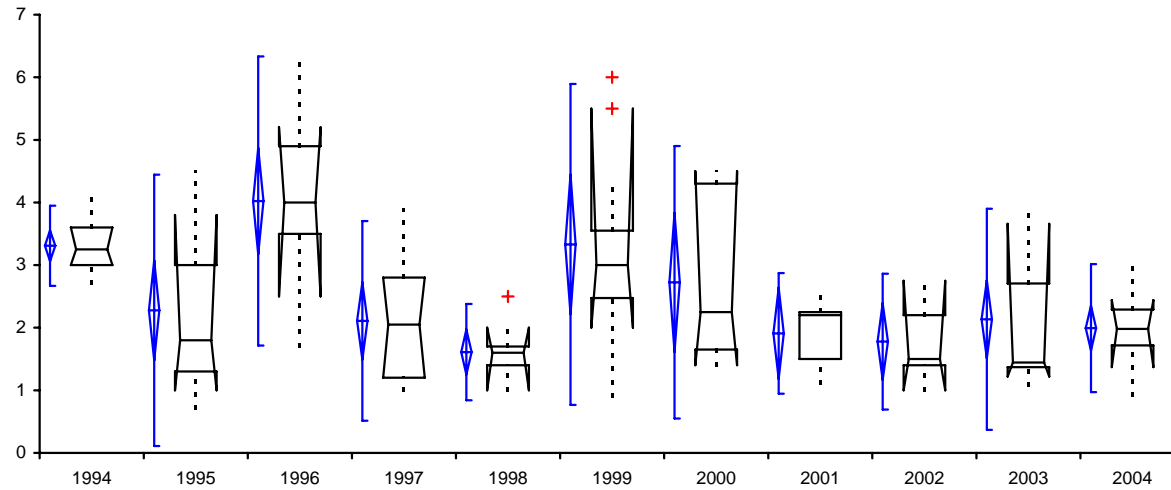


Year	n	Mean	SD	SE	95% CI of Mean	Median	IQR	95% CI of Median
<b>1994</b>	12	7.717	4.4515	1.2850	4.888 to 10.545	7.500	7.350	3.200 to 11.000
<b>1995</b>	13	10.846	5.8272	1.6162	7.325 to 14.367	12.000	7.000	4.500 to 15.000
<b>1996</b>	13	4.669	3.9563	1.0973	2.278 to 7.060	3.100	2.400	2.000 to 8.700
<b>1997</b>	12	14.000	10.5141	3.0351	7.320 to 20.680	11.000	18.000	5.000 to 27.000
<b>1998</b>	9	19.922	12.4661	4.1554	10.340 to 29.505	18.000	10.000	11.000 to 29.000
<b>1999</b>	10	11.420	16.4998	5.2177	-0.383 to 23.223	5.800	4.750	3.100 to 14.000
<b>2000</b>	8	13.525	10.3682	3.6657	4.857 to 22.193	12.550	17.225	2.600 to 29.000
<b>2001</b>	5	23.500	18.9539	8.4764	-0.034 to 47.034	24.000	14.000	- to -
<b>2002</b>	6	24.117	15.0772	6.1552	8.294 to 39.939	22.500	15.750	7.700 to 48.000
<b>2003</b>	14	20.257	12.8827	3.4430	12.819 to 27.695	20.000	20.575	6.500 to 33.000
<b>2004</b>	14	19.407	13.4337	3.5903	11.651 to 27.164	15.000	7.250	9.200 to 31.000

**South Washington Watershed District**

**Parameter** Secchi Disk Depth (meters), Powers Lake  
**Performed by** Houston Engineering, Inc

**Date** 2006

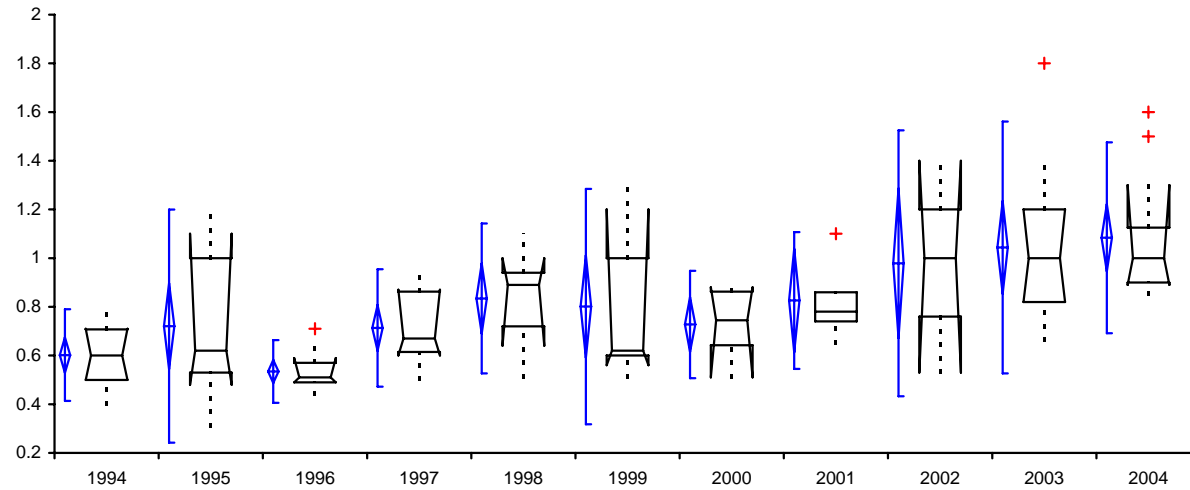


Year	n	Mean	SD	SE	95% CI of Mean	Median	IQR	95% CI of Median
<b>1994</b>	12	3.308	0.3895	0.1125	3.061 to 3.556	3.250	0.600	3.000 to 3.600
<b>1995</b>	13	2.277	1.3179	0.3655	1.481 to 3.073	1.800	1.700	1.000 to 3.800
<b>1996</b>	13	4.023	1.4037	0.3893	3.175 to 4.871	4.000	1.400	2.500 to 5.200
<b>1997</b>	12	2.108	0.9700	0.2800	1.492 to 2.725	2.050	1.600	1.200 to 2.800
<b>1998</b>	9	1.611	0.4676	0.1559	1.252 to 1.971	1.600	0.300	1.000 to 2.000
<b>1999</b>	10	3.330	1.5578	0.4926	2.216 to 4.444	3.000	1.075	2.000 to 5.500
<b>2000</b>	8	2.725	1.3231	0.4678	1.619 to 3.831	2.250	2.650	1.400 to 4.500
<b>2001</b>	5	1.910	0.5857	0.2619	1.183 to 2.637	2.200	0.750	- to -
<b>2002</b>	7	1.779	0.6595	0.2493	1.169 to 2.388	1.500	0.800	1.000 to 2.750
<b>2003</b>	14	2.134	1.0739	0.2870	1.514 to 2.754	1.445	1.338	1.220 to 3.660
<b>2004</b>	14	1.994	0.6210	0.1660	1.635 to 2.352	1.980	0.573	1.370 to 2.440

**South Washington Watershed District**

**Parameter** Total Kjeldahl Nitrogen (mg/l), Powers Lake  
**Performed by** Houston Engineering, Inc

**Date** 2006



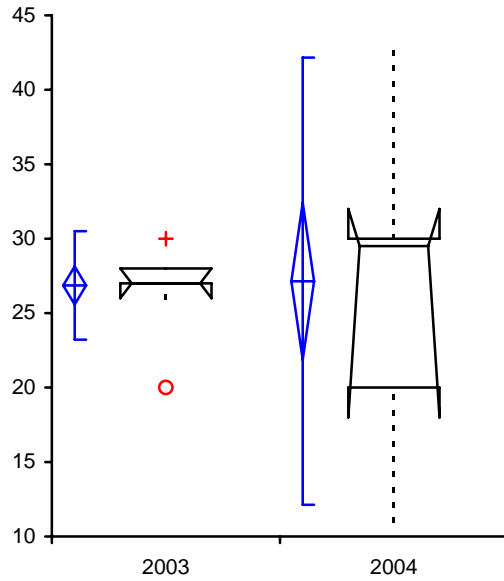
Year	n	Mean	SD	SE	95% CI of Mean	Median	IQR	95% CI of Median
1994	12	0.602	0.1145	0.0330	0.529 to 0.674	0.600	0.208	0.500 to 0.710
1995	13	0.721	0.2910	0.0807	0.545 to 0.897	0.620	0.470	0.480 to 1.100
1996	13	0.535	0.0783	0.0217	0.487 to 0.582	0.510	0.080	0.490 to 0.590
1997	12	0.713	0.1467	0.0424	0.620 to 0.807	0.670	0.248	0.600 to 0.870
1998	9	0.834	0.1872	0.0624	0.691 to 0.978	0.890	0.220	0.640 to 1.000
1999	10	0.801	0.2937	0.0929	0.591 to 1.011	0.620	0.400	0.560 to 1.200
2000	8	0.728	0.1341	0.0474	0.615 to 0.840	0.745	0.220	0.510 to 0.880
2001	5	0.826	0.1708	0.0764	0.614 to 1.038	0.780	0.120	- to -
2002	7	0.979	0.3319	0.1255	0.672 to 1.286	1.000	0.440	0.530 to 1.400
2003	13	1.044	0.3143	0.0872	0.854 to 1.234	1.000	0.380	0.820 to 1.200
2004	14	1.084	0.2383	0.0637	0.946 to 1.221	1.000	0.225	0.890 to 1.300

**South Washington Watershed District**

**Parameter** Chloride (mg/l), Powers Lake

**Performed by** Houston Engineering, Inc

**Date** 2006



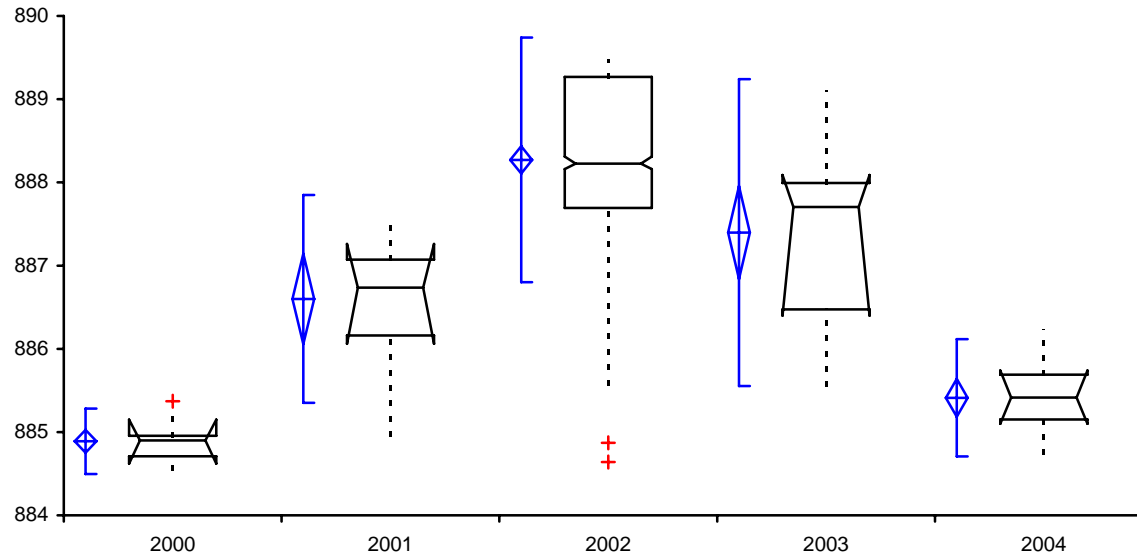
Year	n	Mean	SD	SE	95% CI of Mean	Median	IQR	95% CI of Median
2003	14	26.857	2.2138	0.5917	25.579 to 28.135	27.000	1.000	26.000 to 28.000
2004	14	27.143	9.1303	2.4402	21.871 to 32.415	29.500	10.000	18.000 to 32.000

**Test** | South Washington Watershed District

**Variables** | Lake Fluctuation, Powers Lake

**Performed by** | Houston Engineering, Inc.

**Date** | 2006

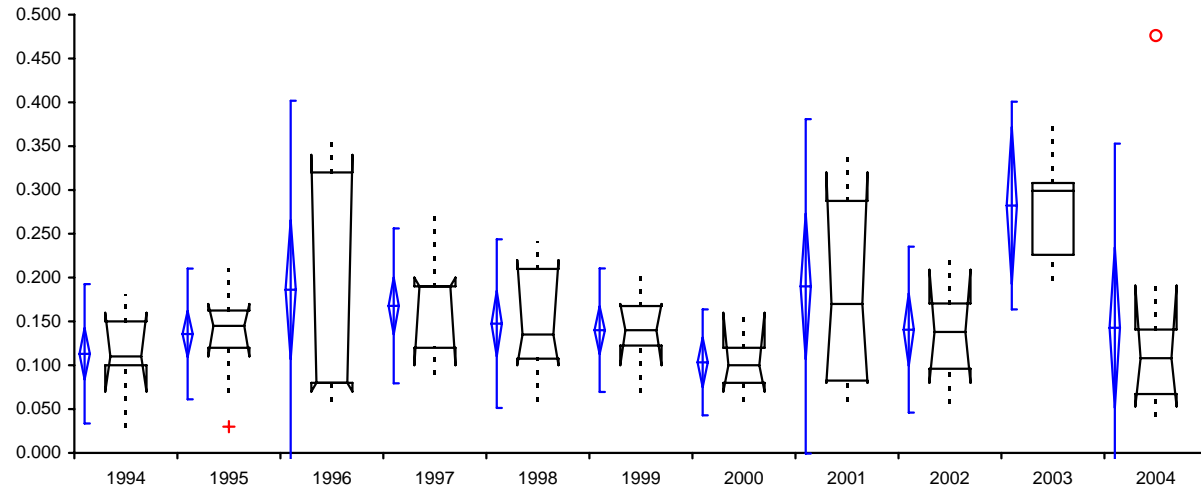


82-0092 by Year	n	Mean	SD	SE	95% CI of Mean	Median	IQR	95% CI of Median
2000	14	884.889	0.2391	0.0639	884.751 to 885.027	884.900	0.245	884.620 to 885.150
2001	10	886.600	0.7593	0.2401	886.057 to 887.143	886.735	0.913	886.060 to 887.260
2002	116	888.270	0.8934	0.0829	888.106 to 888.435	888.225	1.575	888.160 to 888.310
2003	18	887.397	1.1207	0.2641	886.840 to 887.955	887.705	1.518	886.400 to 888.090
2004	16	885.412	0.4284	0.1071	885.184 to 885.640	885.415	0.538	885.100 to 885.740

**South Washington Watershed District**

**Parameter** Total Phosphorus (mg/l), Colby Lake  
**Performed by** Houston Engineering, Inc

**Date** 2006



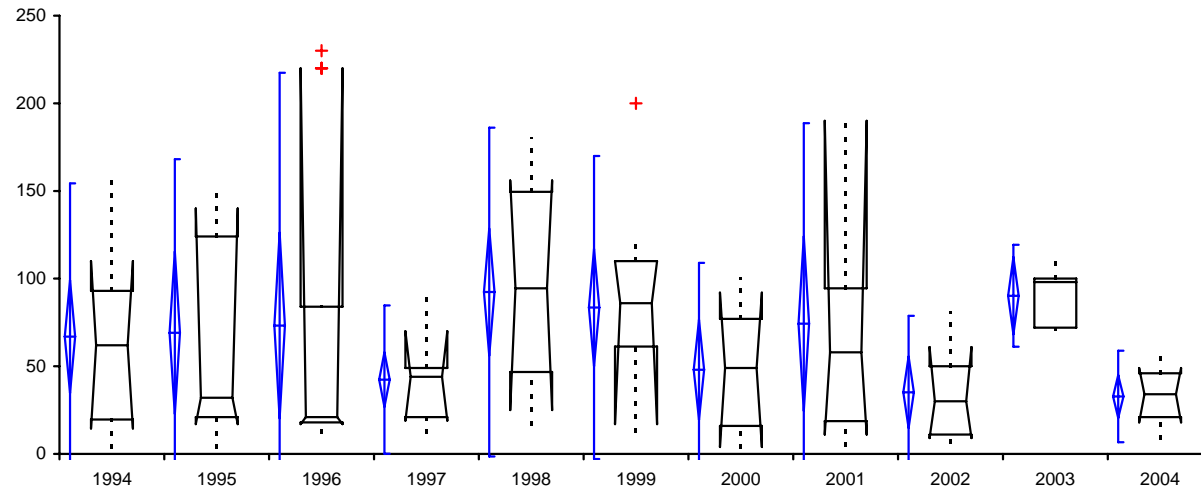
Year	n	Mean	SD	SE	95% CI of Mean	Median	IQR	95% CI of Median
<b>1994</b>	13	0.1131	0.04837	0.01342	0.0838 to 0.1423	0.1100	0.0500	0.0700 to 0.1600
<b>1995</b>	14	0.1357	0.04536	0.01212	0.1095 to 0.1619	0.1450	0.0425	0.1100 to 0.1700
<b>1996</b>	13	0.1862	0.13112	0.03637	0.1069 to 0.2654	0.0800	0.2400	0.0700 to 0.3400
<b>1997</b>	13	0.1677	0.05372	0.01490	0.1352 to 0.2002	0.1900	0.0700	0.1000 to 0.2000
<b>1998</b>	12	0.1475	0.05848	0.01688	0.1103 to 0.1847	0.1350	0.1025	0.1000 to 0.2200
<b>1999</b>	12	0.1400	0.04285	0.01237	0.1128 to 0.1672	0.1400	0.0450	0.1000 to 0.1700
<b>2000</b>	9	0.1033	0.03674	0.01225	0.0751 to 0.1316	0.1000	0.0400	0.0700 to 0.1600
<b>2001</b>	10	0.1900	0.11595	0.03667	0.1071 to 0.2729	0.1700	0.2050	0.0800 to 0.3200
<b>2002</b>	10	0.1406	0.05753	0.01819	0.0994 to 0.1818	0.1380	0.0745	0.0800 to 0.2090
<b>2003</b>	5	0.2822	0.07204	0.03222	0.1927 to 0.3717	0.2990	0.0820	- to -
<b>2004</b>	10	0.1428	0.12773	0.04039	0.0514 to 0.2342	0.1080	0.0735	0.0530 to 0.1910



**South Washington Watershed District**

**Parameter** Chlorophyll a (ug/l), Colby Lake  
**Performed by** Houston Engineering, Inc

**Date** 2006

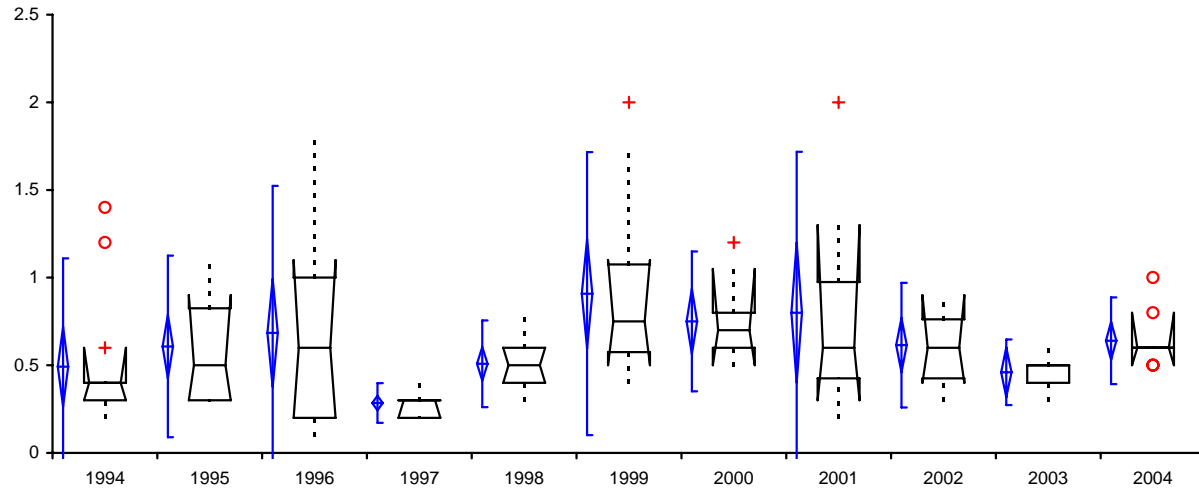


Year	n	Mean	SD	SE	95% CI of Mean	Median	IQR	95% CI of Median
1994	13	66.885	53.1741	14.7478	34.752 to 99.017	62.000	73.400	14.500 to 110.000
1995	9	69.056	60.2082	20.0694	22.775 to 115.336	32.000	103.000	17.000 to 140.000
1996	13	73.231	87.6510	24.3100	20.264 to 126.198	21.000	66.000	17.000 to 220.000
1997	13	42.385	25.7181	7.1329	26.843 to 57.926	44.000	28.000	19.000 to 70.000
1998	12	92.333	56.9965	16.4535	56.119 to 128.547	94.500	102.750	25.000 to 156.000
1999	12	83.500	52.5366	15.1660	50.120 to 116.880	86.000	48.750	17.000 to 110.000
2000	9	48.044	37.0608	12.3536	19.557 to 76.532	49.000	61.000	3.900 to 92.000
2001	10	74.270	69.5619	21.9974	24.508 to 124.032	58.000	75.750	11.000 to 190.000
2002	9	35.178	26.4912	8.8304	14.815 to 55.541	30.000	39.000	9.000 to 61.000
2003	5	90.200	17.6692	7.9019	68.261 to 112.139	98.000	28.000	- to -
2004	9	32.744	15.8820	5.2940	20.536 to 44.952	34.000	25.000	18.000 to 49.000

**South Washington Watershed District**

**Parameter** Secchi Disk Depth (meters), Colby Lake  
**Performed by** Houston Engineering, Inc

**Date** 2006

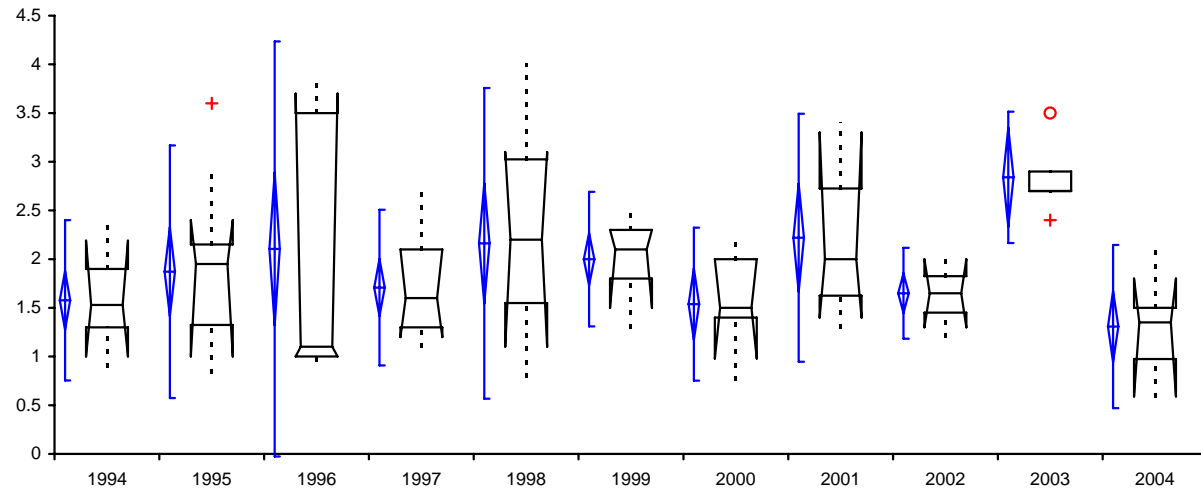


Year	n	Mean	SD	SE	95% CI of Mean	Median	IQR	95% CI of Median
1994	13	0.492	0.3752	0.1041	0.266 to 0.719	0.400	0.100	0.300 to 0.600
1995	14	0.607	0.3149	0.0842	0.425 to 0.789	0.500	0.525	0.300 to 0.900
1996	13	0.685	0.5097	0.1414	0.377 to 0.993	0.600	0.800	0.200 to 1.100
1997	13	0.285	0.0689	0.0191	0.243 to 0.326	0.300	0.100	0.200 to 0.300
1998	12	0.508	0.1505	0.0434	0.413 to 0.604	0.500	0.200	0.400 to 0.600
1999	12	0.908	0.4907	0.1417	0.597 to 1.220	0.750	0.500	0.500 to 1.100
2000	9	0.750	0.2424	0.0808	0.564 to 0.936	0.700	0.200	0.500 to 1.050
2001	10	0.800	0.5578	0.1764	0.401 to 1.199	0.600	0.550	0.300 to 1.300
2002	10	0.615	0.2161	0.0683	0.460 to 0.770	0.600	0.338	0.400 to 0.900
2003	5	0.460	0.1140	0.0510	0.318 to 0.602	0.500	0.100	- to -
2004	10	0.640	0.1506	0.0476	0.532 to 0.748	0.600	0.000	0.500 to 0.800

**South Washington Watershed District**

**Parameter** Total Kjeldahl Nitrogen (mg/l), Colby Lake  
**Performed by** Houston Engineering, Inc

**Date** 2006



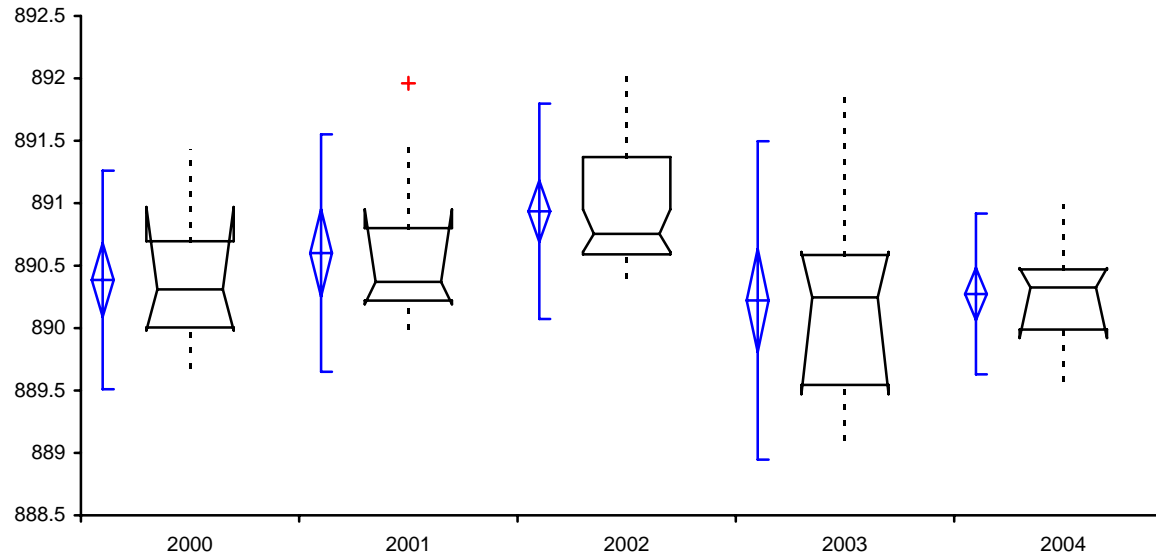
Year	n	Mean	SD	SE	95% CI of Mean	Median	IQR	95% CI of Median
1994	13	1.578	0.5004	0.1388	1.275 to 1.880	1.530	0.600	1.000 to 2.190
1995	14	1.871	0.7886	0.2108	1.415 to 2.326	1.950	0.825	1.000 to 2.400
1996	13	2.105	1.2955	0.3593	1.322 to 2.887	1.100	2.500	1.000 to 3.700
1997	13	1.708	0.4856	0.1347	1.414 to 2.001	1.600	0.800	1.200 to 2.100
1998	12	2.163	0.9699	0.2800	1.546 to 2.779	2.200	1.475	1.100 to 3.100
1999	12	2.000	0.4200	0.1212	1.733 to 2.267	2.100	0.500	1.500 to 2.300
2000	9	1.538	0.4776	0.1592	1.171 to 1.905	1.500	0.600	0.980 to 2.000
2001	10	2.220	0.7743	0.2449	1.666 to 2.774	2.000	1.100	1.400 to 3.300
2002	10	1.650	0.2838	0.0898	1.447 to 1.853	1.650	0.375	1.300 to 2.000
2003	5	2.840	0.4099	0.1833	2.331 to 3.349	2.700	0.200	- to -
2004	10	1.308	0.5096	0.1612	0.943 to 1.673	1.350	0.525	0.590 to 1.800

Test | South Washington Watershed District

Variables | Lake Fluctuation, Colby Lake

Performed by | Houston Engineering, Inc.

Date | 2006



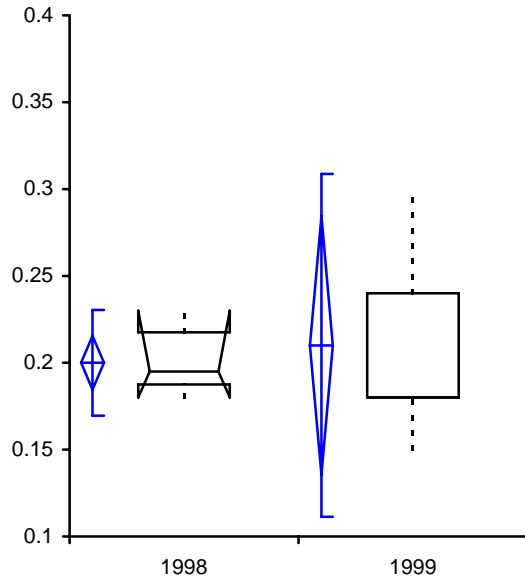
82-0094 by Year	n	Mean	SD	SE	95% CI of Mean	Median	IQR	95% CI of Median
2000	15	890.385	0.5322	0.1374	890.091 to 890.680	890.310	0.690	889.980 to 890.970
2001	13	890.601	0.5780	0.1603	890.252 to 890.950	890.370	0.580	890.190 to 890.950
2002	20	890.936	0.5243	0.1172	890.690 to 891.181	890.755	0.780	890.610 to 890.950
2003	16	890.221	0.7753	0.1938	889.808 to 890.634	890.245	1.040	889.470 to 890.610
2004	16	890.273	0.3919	0.0980	890.064 to 890.482	890.325	0.483	889.920 to 890.480

**South Washington Watershed District**

**Parameter** Total Phosphorus (mg/l), Gables Lake

**Performed by** Houston Engineering, Inc

**Date** 2006



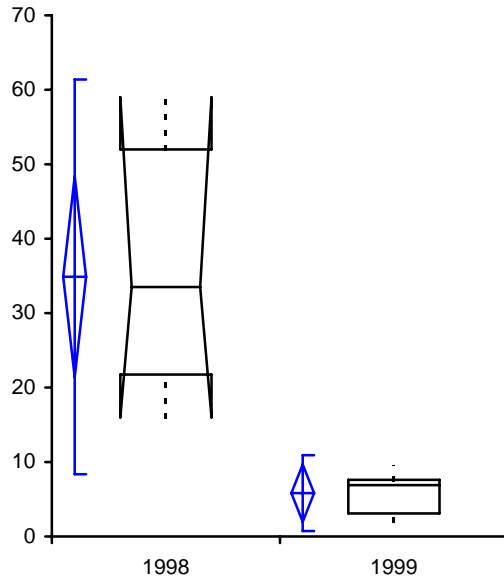
Year	n	Mean	SD	SE	95% CI of Mean	Median	IQR	95% CI of Median
1998	8	0.2000	0.01852	0.00655	0.1845 to 0.2155	0.1950	0.0300	0.1800 to 0.2300
1999	5	0.2100	0.06000	0.02683	0.1355 to 0.2845	0.1800	0.0600	- to -

**South Washington Watershed District**

**Parameter** Chlorophyll a (ug/l), Gables Lake

**Performed by** Houston Engineering, Inc

**Date** 2006



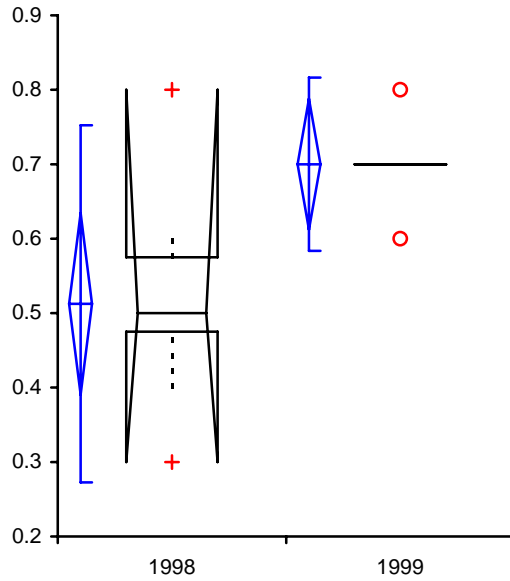
Year	n	Mean	SD	SE	95% CI of Mean	Median	IQR	95% CI of Median
1998	8	34.875	16.1195	5.6991	21.399 to 48.351	33.500	30.250	16.000 to 59.000
1999	5	5.820	3.0979	1.3854	1.973 to 9.667	6.900	4.500	- to -

**South Washington Watershed District**

**Parameter** Secchi Disk Depth (meters), Gables Lake

**Performed by** Houston Engineering, Inc

**Date** 2006



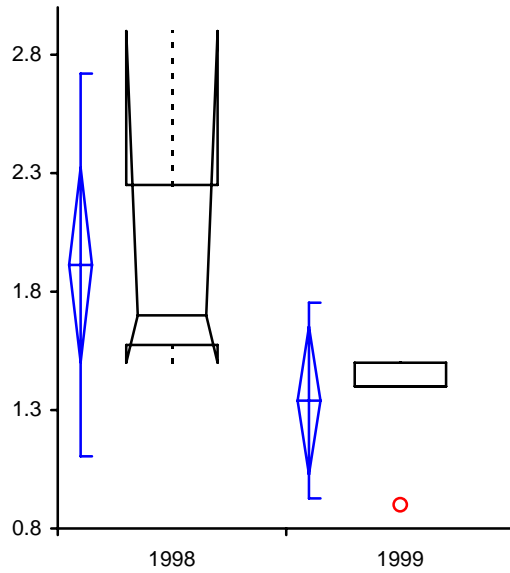
Year	n	Mean	SD	SE	95% CI of Mean	Median	IQR	95% CI of Median
1998	8	0.513	0.1458	0.0515	0.391 to 0.634	0.500	0.100	0.300 to 0.800
1999	5	0.700	0.0707	0.0316	0.612 to 0.788	0.700	0.000	- to -

**South Washington Watershed District**

**Parameter** Total Kjeldahl Nitrogen (mg/l), Gables Lake

**Performed by** Houston Engineering, Inc

**Date** 2006



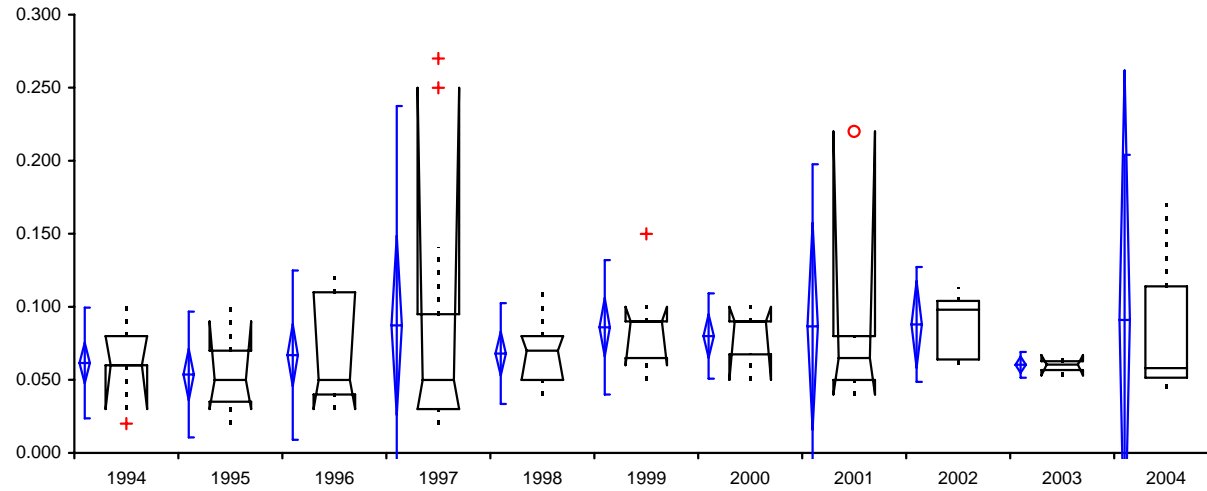
Year	n	Mean	SD	SE	95% CI of Mean	Median	IQR	95% CI of Median
1998	8	1.913	0.4912	0.1737	1.502 to 2.323	1.700	0.675	1.500 to 2.900
1999	5	1.340	0.2510	0.1122	1.028 to 1.652	1.400	0.100	- to -



**South Washington Watershed District**

**Parameter** Total Phosphorus (mg/l), La Lake  
**Performed by** Houston Engineering, Inc

**Date** 2006

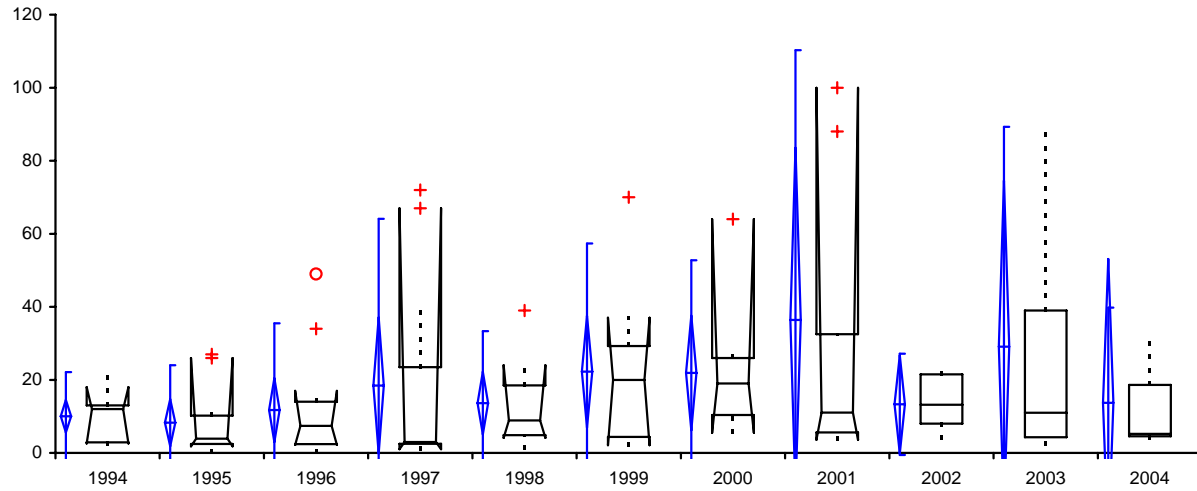


Year	n	Mean	SD	SE	95% CI of Mean	Median	IQR	95% CI of Median
1994	13	0.0615	0.02304	0.00639	0.0476 to 0.0755	0.0600	0.0200	0.0300 to 0.0800
1995	11	0.0536	0.02618	0.00789	0.0360 to 0.0712	0.0500	0.0350	0.0300 to 0.0900
1996	13	0.0669	0.03521	0.00977	0.0456 to 0.0882	0.0500	0.0700	0.0300 to 0.1100
1997	11	0.0873	0.09133	0.02754	0.0259 to 0.1486	0.0500	0.0650	0.0300 to 0.2500
1998	10	0.0680	0.02098	0.00663	0.0530 to 0.0830	0.0700	0.0300	0.0500 to 0.0800
1999	10	0.0860	0.02797	0.00884	0.0660 to 0.1060	0.0900	0.0250	0.0600 to 0.1000
2000	8	0.0800	0.01773	0.00627	0.0652 to 0.0948	0.0900	0.0225	0.0500 to 0.1000
2001	6	0.0867	0.06743	0.02753	0.0159 to 0.1574	0.0650	0.0300	0.0400 to 0.2200
2002	5	0.0880	0.02391	0.01069	0.0583 to 0.1177	0.0980	0.0400	- to -
2003	6	0.0603	0.00535	0.00219	0.0547 to 0.0660	0.0605	0.0060	0.0530 to 0.0670
2004	3	0.0910	0.06872	0.03968	-0.0797 to 0.2617	0.0580	0.0625	- to -

**South Washington Watershed District**

**Parameter** Chlorophyll a (ug/l), La Lake  
**Performed by** Houston Engineering, Inc

**Date** 2006

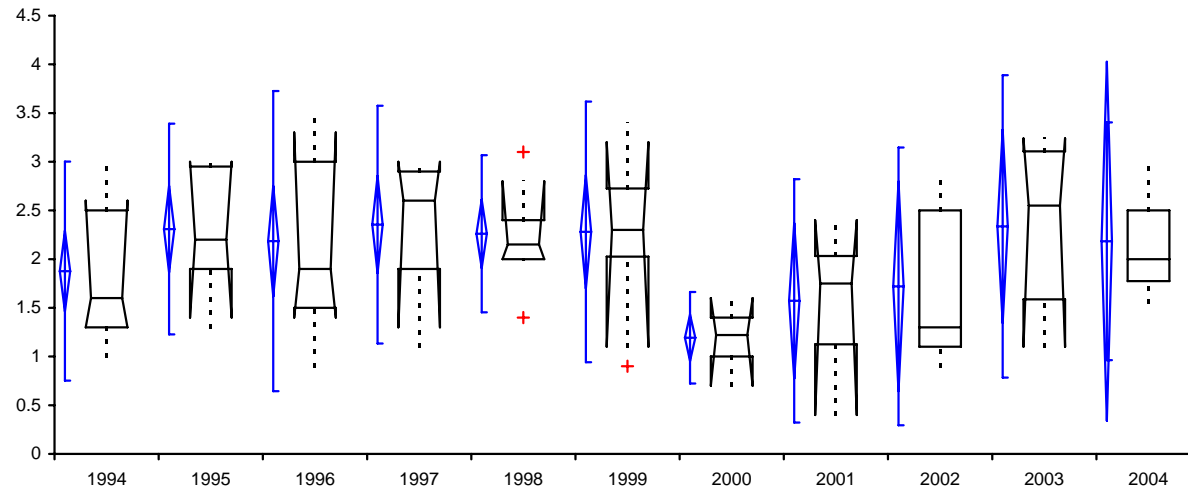


Year	n	Mean	SD	SE	95% CI of Mean	Median	IQR	95% CI of Median
1994	13	10.054	7.3487	2.0381	5.613 to 14.495	12.000	10.100	2.600 to 18.000
1995	11	8.282	9.5715	2.8859	1.852 to 14.712	3.900	7.750	1.800 to 26.000
1996	13	11.731	14.4480	4.0071	3.000 to 20.462	7.400	11.600	2.200 to 17.000
1997	11	18.455	27.7358	8.3626	-0.179 to 37.088	3.000	21.000	1.000 to 67.000
1998	10	13.640	11.9891	3.7913	5.064 to 22.216	8.900	13.625	4.100 to 24.000
1999	10	22.250	21.3480	6.7508	6.979 to 37.521	20.000	24.875	2.100 to 37.000
2000	8	21.888	18.7735	6.6374	6.192 to 37.583	19.000	15.600	5.500 to 64.000
2001	6	36.417	44.9101	18.3345	-10.714 to 83.547	11.050	26.875	3.600 to 100.000
2002	4	13.300	8.4309	4.2154	-0.115 to 26.715	13.200	13.500	- to -
2003	5	29.100	36.5796	16.3589	-16.320 to 74.520	11.000	34.700	- to -
2004	3	13.700	15.8616	9.1577	-25.702 to 53.102	5.200	14.050	- to -

**South Washington Watershed District**

**Parameter** Secchi Disk Depth (meters), La Lake  
**Performed by** Houston Engineering, Inc

**Date** 2006

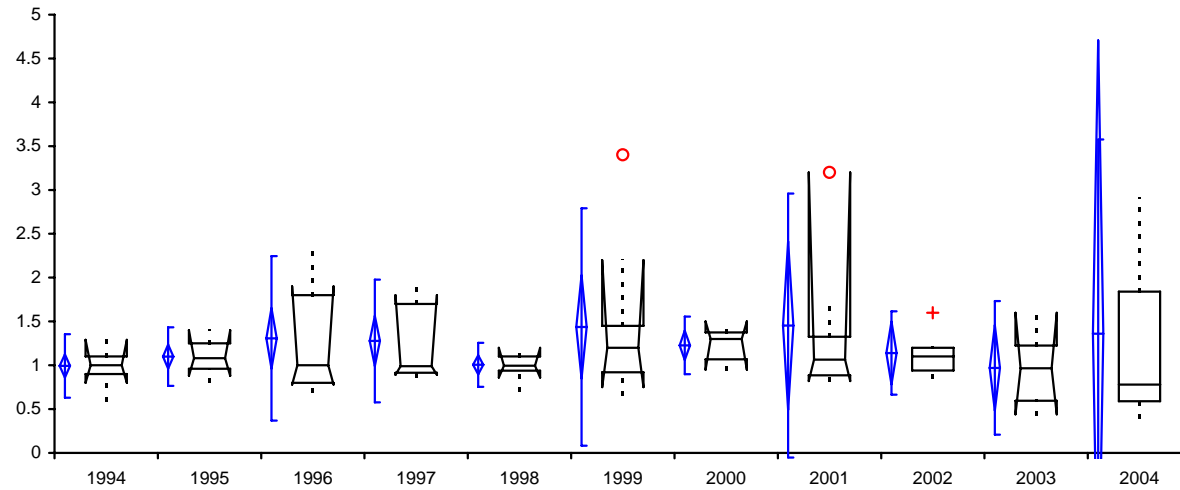


Year	n	Mean	SD	SE	95% CI of Mean	Median	IQR	95% CI of Median
1994	13	1.877	0.6833	0.1895	1.464 to 2.290	1.600	1.200	1.300 to 2.600
1995	11	2.309	0.6580	0.1984	1.867 to 2.751	2.200	1.050	1.400 to 3.000
1996	13	2.185	0.9371	0.2599	1.618 to 2.751	1.900	1.500	1.400 to 3.300
1997	11	2.355	0.7421	0.2238	1.856 to 2.853	2.600	1.000	1.300 to 3.000
1998	10	2.260	0.4904	0.1551	1.909 to 2.611	2.150	0.400	2.000 to 2.800
1999	10	2.280	0.8135	0.2573	1.698 to 2.862	2.300	0.700	1.100 to 3.200
2000	8	1.193	0.2854	0.1009	0.954 to 1.431	1.220	0.400	0.700 to 1.600
2001	6	1.572	0.7597	0.3102	0.774 to 2.369	1.750	0.908	0.400 to 2.400
2002	5	1.720	0.8672	0.3878	0.643 to 2.797	1.300	1.400	- to -
2003	6	2.337	0.9441	0.3854	1.346 to 3.327	2.550	1.520	1.100 to 3.240
2004	3	2.183	0.7422	0.4285	0.340 to 4.027	2.000	0.725	- to -

**South Washington Watershed District**

**Parameter** Total Kjeldahl Nitrogen (mg/l), La Lake  
**Performed by** Houston Engineering, Inc

**Date** 2006



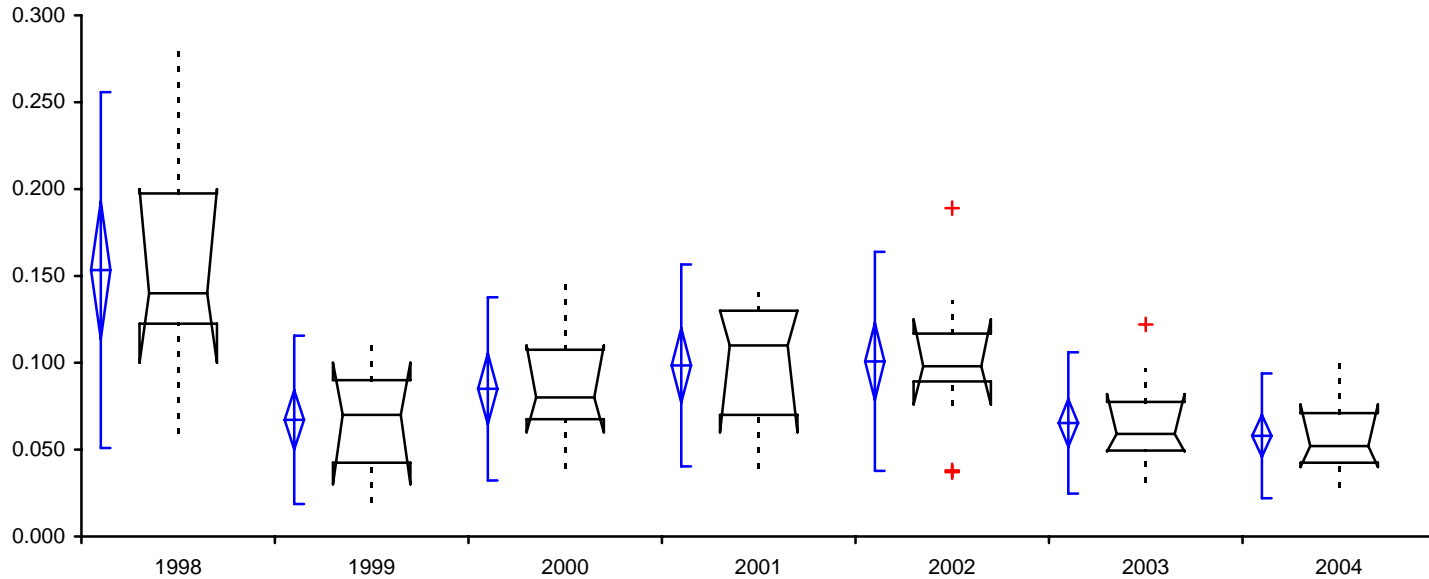
Year	n	Mean	SD	SE	95% CI of Mean	Median	IQR	95% CI of Median
1994	13	0.992	0.2200	0.0610	0.859 to 1.125	1.000	0.200	0.800 to 1.290
1995	11	1.099	0.2030	0.0612	0.963 to 1.236	1.080	0.290	0.880 to 1.400
1996	13	1.307	0.5707	0.1583	0.962 to 1.652	1.000	1.000	0.780 to 1.900
1997	11	1.277	0.4253	0.1282	0.992 to 1.563	0.990	0.785	0.890 to 1.800
1998	10	1.005	0.1528	0.0483	0.896 to 1.114	0.995	0.163	0.860 to 1.200
1999	10	1.437	0.8231	0.2603	0.848 to 2.026	1.200	0.530	0.750 to 2.200
2000	8	1.228	0.1998	0.0706	1.060 to 1.395	1.300	0.308	0.950 to 1.500
2001	6	1.453	0.9155	0.3738	0.493 to 2.414	1.065	0.440	0.820 to 3.200
2002	5	1.140	0.2895	0.1295	0.781 to 1.499	1.100	0.260	- to -
2003	6	0.970	0.4634	0.1892	0.484 to 1.456	0.965	0.630	0.440 to 1.600
2004	3	1.360	1.3471	0.7778	-1.986 to 4.706	0.780	1.250	- to -

**South Washington Watershed District**

**Parameter** Total Phosphorus (mg/l), Ravine Lake

**Performed by** Houston Engineering, Inc

**Date** 2006

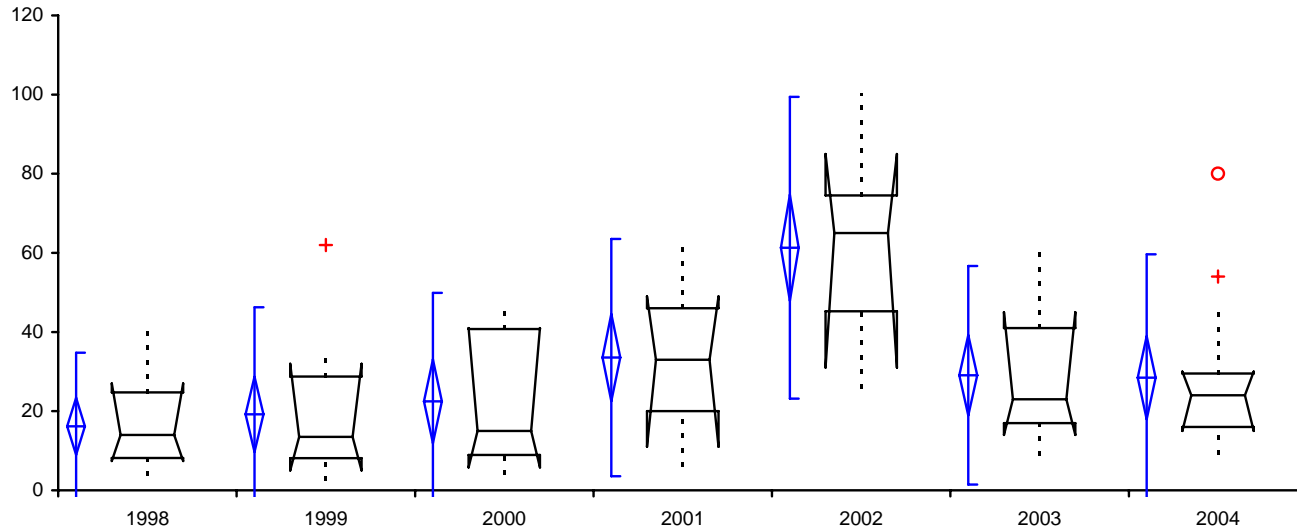


Year	n	Mean	SD	SE	95% CI of Mean	Median	IQR	95% CI of Median
1998	12	0.1533	0.06228	0.01798	0.1138 to 0.1929	0.1400	0.0750	0.1000 to 0.2000
1999	14	0.0671	0.02946	0.00787	0.0501 to 0.0842	0.0700	0.0475	0.0300 to 0.1000
2000	12	0.0850	0.03205	0.00925	0.0646 to 0.1054	0.0800	0.0400	0.0600 to 0.1100
2001	13	0.0985	0.03532	0.00980	0.0771 to 0.1198	0.1100	0.0600	0.0600 to 0.1300
2002	14	0.1008	0.03832	0.01024	0.0787 to 0.1229	0.0980	0.0275	0.0760 to 0.1250
2003	15	0.0653	0.02472	0.00638	0.0516 to 0.0790	0.0590	0.0280	0.0490 to 0.0820
2004	15	0.0579	0.02182	0.00563	0.0458 to 0.0700	0.0520	0.0285	0.0400 to 0.0760

**South Washington Watershed District**

**Parameter** Chlorophyll a (ug/l), Ravine Lake  
**Performed by** Houston Engineering, Inc

**Date** 2006

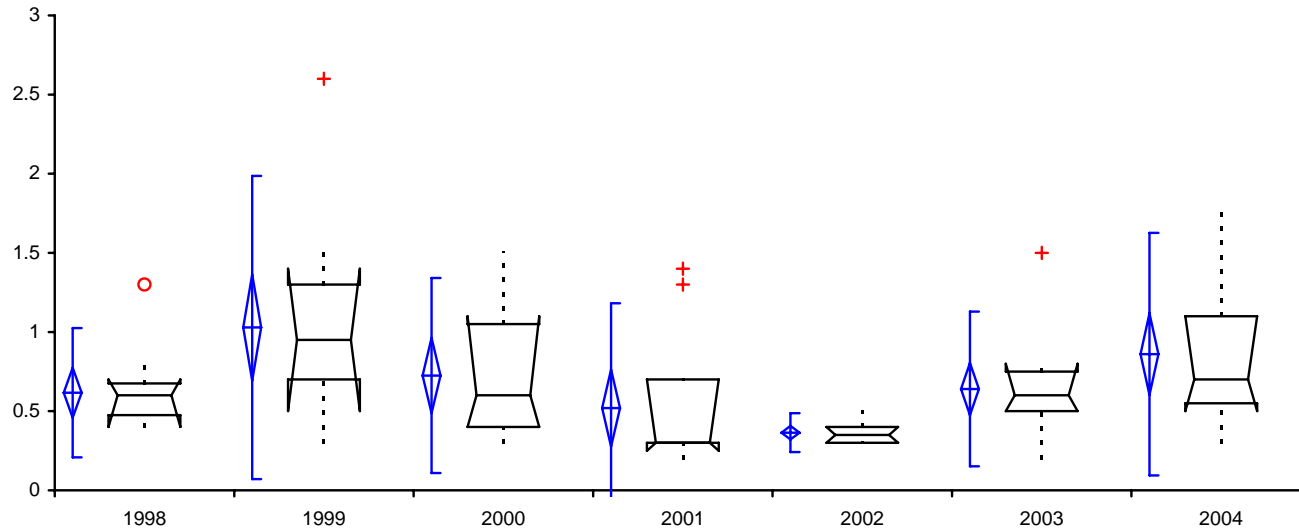


Year	n	Mean	SD	SE	95% CI of Mean	Median	IQR	95% CI of Median
1998	12	16.167	11.3152	3.2664	8.977 to 23.356	14.000	16.600	7.400 to 27.000
1999	14	19.193	16.4540	4.3975	9.693 to 28.693	13.500	20.625	5.000 to 32.000
2000	12	22.500	16.6528	4.8072	11.919 to 33.081	15.000	31.800	5.800 to 41.000
2001	13	33.546	18.2290	5.0558	22.530 to 44.562	33.000	26.000	11.000 to 49.000
2002	14	61.286	23.1763	6.1941	47.904 to 74.667	65.000	29.250	31.000 to 85.000
2003	13	29.077	16.7902	4.6568	18.931 to 39.223	23.000	24.000	14.000 to 45.000
2004	15	28.453	18.9640	4.8965	17.951 to 38.955	24.000	13.500	15.000 to 30.000

**South Washington Watershed District**

**Parameter** Secchi Disk Depth (meters), Ravine  
**Performed by** Houston Engineering, Inc

**Date** 2006

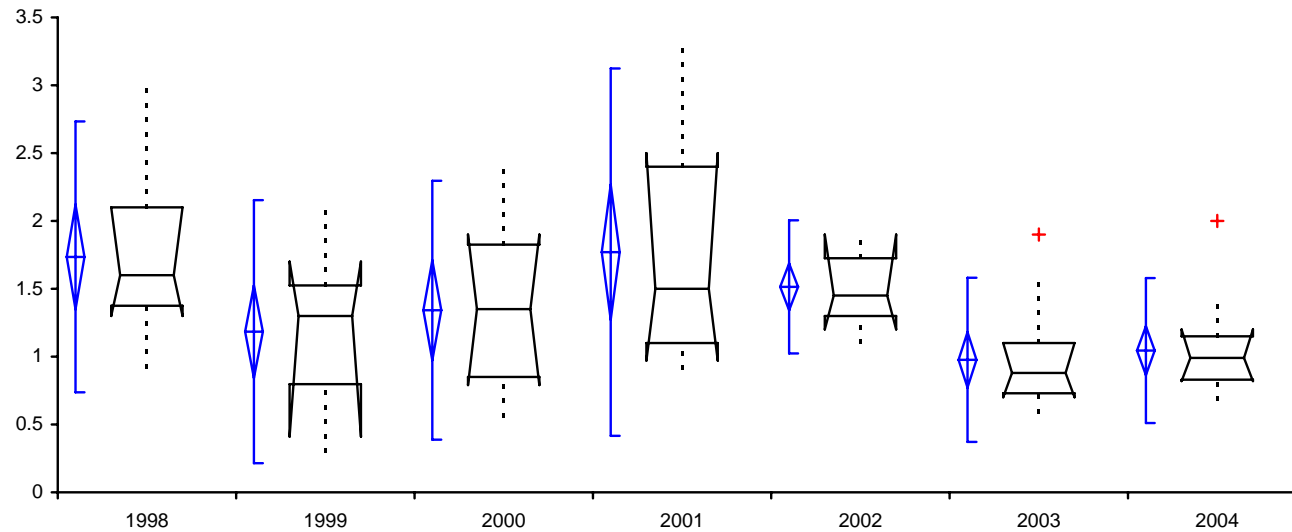


Year	n	Mean	SD	SE	95% CI of Mean	Median	IQR	95% CI of Median
1998	12	0.617	0.2480	0.0716	0.459 to 0.774	0.600	0.200	0.400 to 0.700
1999	14	1.029	0.5823	0.1556	0.692 to 1.365	0.950	0.600	0.500 to 1.400
2000	12	0.725	0.3745	0.1081	0.487 to 0.963	0.600	0.650	0.400 to 1.100
2001	13	0.519	0.4029	0.1117	0.276 to 0.763	0.300	0.400	0.250 to 0.700
2002	14	0.364	0.0745	0.0199	0.321 to 0.407	0.350	0.100	0.300 to 0.400
2003	15	0.640	0.2971	0.0767	0.475 to 0.805	0.600	0.250	0.500 to 0.800
2004	15	0.860	0.4657	0.1202	0.602 to 1.118	0.700	0.550	0.500 to 1.100

**South Washington Watershed District**

**Parameter** Total Kjeldahl Nitrogen (mg/l), Ravine  
**Performed by** Houston Engineering, Inc

**Date** 2006



Year	n	Mean	SD	SE	95% CI of Mean	Median	IQR	95% CI of Median
1998	12	1.735	0.6071	0.1752	1.349 to 2.121	1.600	0.725	1.300 to 2.100
1999	14	1.184	0.5894	0.1575	0.843 to 1.524	1.300	0.728	0.410 to 1.700
2000	12	1.342	0.5800	0.1674	0.973 to 1.710	1.350	0.975	0.790 to 1.900
2001	13	1.770	0.8229	0.2282	1.273 to 2.267	1.500	1.300	0.970 to 2.500
2002	14	1.514	0.2983	0.0797	1.342 to 1.687	1.450	0.425	1.200 to 1.900
2003	15	0.977	0.3678	0.0950	0.773 to 1.180	0.880	0.370	0.700 to 1.100
2004	15	1.045	0.3247	0.0838	0.865 to 1.225	0.990	0.320	0.820 to 1.200

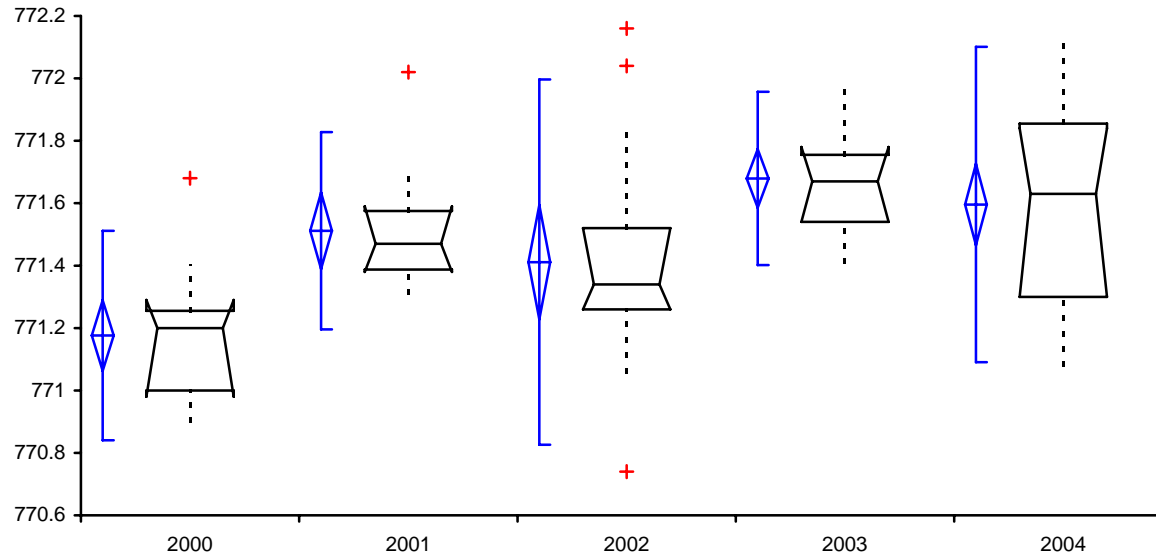


**Test** | South Washington Watershed District

**Variables** | Lake Fluctuation, Ravine Lake

**Performed by** | Houston Engineering, Inc.

**Date** | 2006



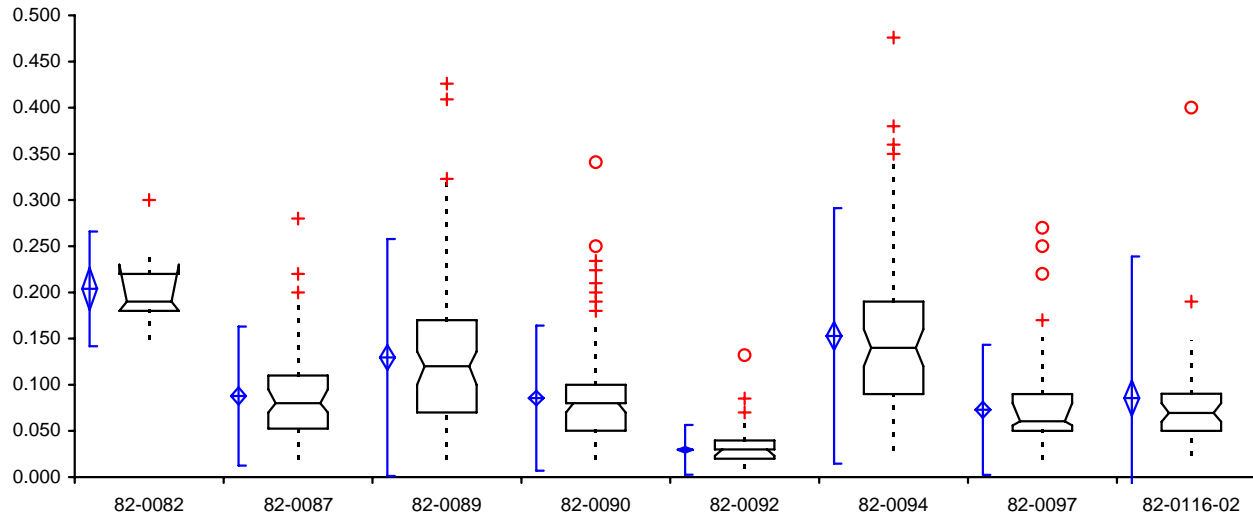
82-0086 by Year	n	Mean	SD	SE	95% CI of Mean	Median	IQR	95% CI of Median
<b>2000</b>	15	771.176	0.2039	0.0527	771.063 to 771.289	771.200	0.255	770.980 to 771.290
<b>2001</b>	12	771.512	0.1922	0.0555	771.390 to 771.634	771.470	0.188	771.380 to 771.590
<b>2002</b>	17	771.411	0.3558	0.0863	771.228 to 771.594	771.340	0.260	771.260 to 771.520
<b>2003</b>	15	771.679	0.1687	0.0436	771.586 to 771.773	771.670	0.215	771.540 to 771.780
<b>2004</b>	24	771.596	0.3073	0.0627	771.466 to 771.726	771.630	0.555	771.300 to 771.840

**South Washington Watershed District**

**Parameter** Total Phosphorus (mg/l) by Lake ID  
**Performed by** Houston Engineering, Inc.

**Date** 2006

Outlier of 0.840 not shown.

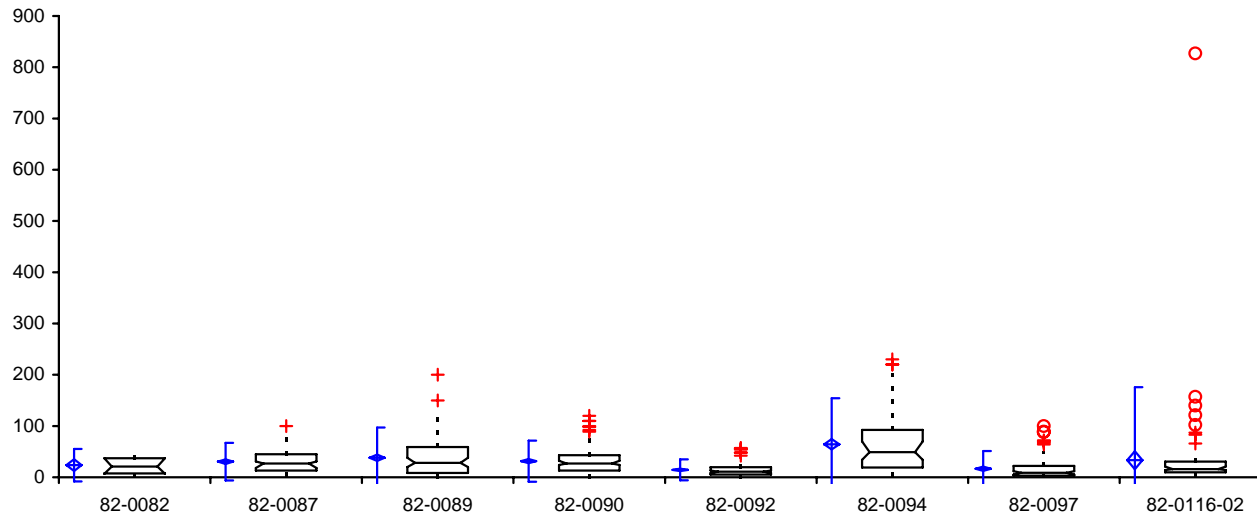


Lake ID Number	n	Mean	SD	SE	95% CI of Mean	Median	IQR	95% CI of Median
<b>82-0082</b>	13	0.204	0.038	0.010	0.1810 to 0.2267	0.190	0.040	0.1800 to 0.2300
<b>82-0087</b>	95	0.088	0.046	0.005	0.0785 to 0.0971	0.080	0.058	0.0700 to 0.0950
<b>82-0089</b>	133	0.130	0.078	0.007	0.1162 to 0.1429	0.120	0.100	0.1000 to 0.1360
<b>82-0090</b>	146	0.086	0.048	0.004	0.0777 to 0.0933	0.080	0.050	0.0700 to 0.0800
<b>82-0092</b>	112	0.030	0.016	0.002	0.0265 to 0.0326	0.030	0.020	0.0230 to 0.0300
<b>82-0094</b>	121	0.153	0.084	0.008	0.1377 to 0.1680	0.140	0.100	0.1200 to 0.1600
<b>82-0097</b>	96	0.073	0.043	0.004	0.0642 to 0.0815	0.061	0.040	0.0560 to 0.0800
<b>82-0116-02</b>	94	0.086	0.093	0.010	0.0664 to 0.1046	0.070	0.040	0.0600 to 0.0800

South Washington Watershed District

Parameter Chlorophyll a (ug/l), by Lake  
 Performed by Houston Engineering, Inc

Date 2006

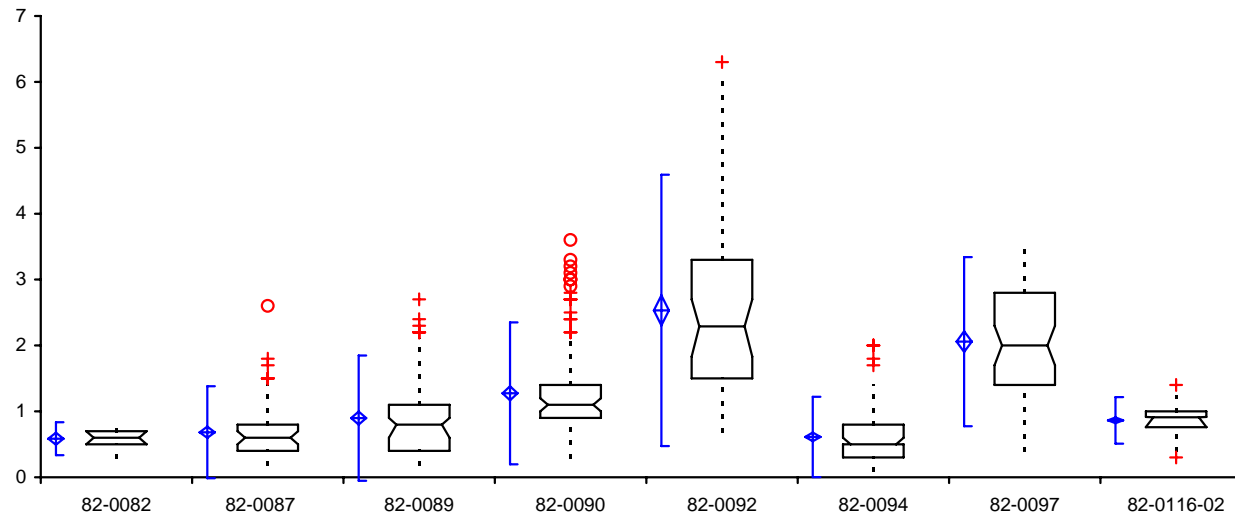


Lake ID Number	n	Mean	SD	SE	95% CI of Mean	Median	IQR	95% CI of Median
82-0082	13	23.700	19.2674	5.3438	12.057 to 35.343	21.000	29.400	6.900 to 37.000
82-0087	93	30.447	22.3286	2.3154	25.849 to 35.046	27.000	32.000	18.000 to 31.000
82-0089	131	38.072	35.9228	3.1386	31.862 to 44.281	28.000	50.500	20.000 to 38.000
82-0090	145	31.458	24.4309	2.0289	27.448 to 35.468	27.000	30.000	24.000 to 32.000
82-0092	116	14.496	12.3941	1.1508	12.216 to 16.775	11.000	14.375	8.300 to 13.200
82-0094	114	64.398	54.6363	5.1172	54.260 to 74.536	49.000	73.100	34.000 to 70.000
82-0097	94	16.698	21.0676	2.1730	12.383 to 21.013	8.650	19.250	5.200 to 12.000
82-0116-02	95	33.321	86.6677	8.8919	15.666 to 50.976	16.000	20.900	14.000 to 21.000

South Washington Watershed District

Parameter Secchi Disk Depth (meters) by Lake  
 Performed by Houston Engineering, Inc

Date 2006

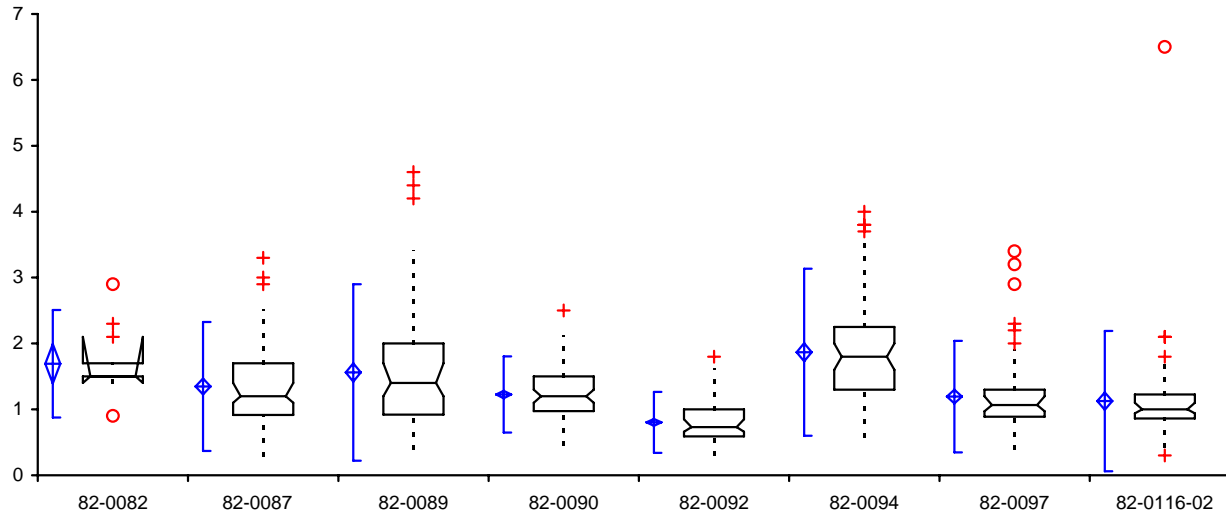


Lake ID Number	n	Mean	SD	SE	95% CI of Mean	Median	IQR	95% CI of Median
82-0082	13	0.585	0.1519	0.0421	0.493 to 0.676	0.600	0.200	0.500 to 0.700
82-0087	95	0.683	0.4244	0.0435	0.596 to 0.769	0.600	0.400	0.500 to 0.700
82-0089	133	0.898	0.5778	0.0501	0.799 to 0.997	0.800	0.700	0.600 to 0.900
82-0090	146	1.274	0.6545	0.0542	1.167 to 1.381	1.100	0.500	1.000 to 1.200
82-0092	117	2.532	1.2524	0.1158	2.303 to 2.762	2.290	1.800	1.830 to 2.700
82-0094	121	0.612	0.3705	0.0337	0.546 to 0.679	0.500	0.500	0.500 to 0.600
82-0097	96	2.059	0.7801	0.0796	1.901 to 2.217	2.000	1.400	1.700 to 2.300
82-0116-02	95	0.863	0.2145	0.0220	0.820 to 0.907	0.910	0.240	0.763 to 0.915

South Washington Watershed District

Parameter Total Kjeldahl Nitrogen (mg/l) by Lake  
 Performed by Houston Engineering, Inc

Date 2006

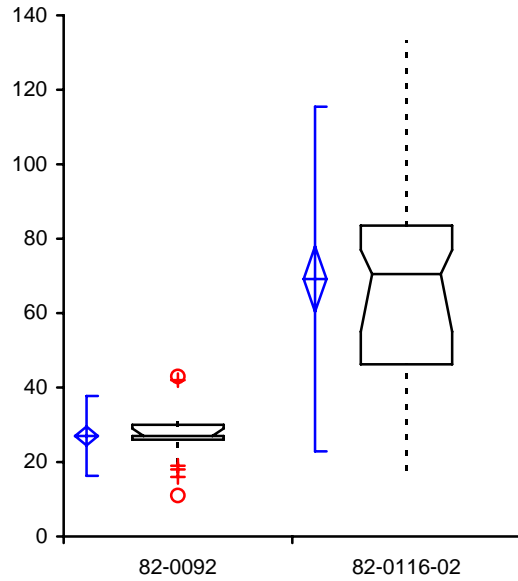


Lake ID Number	n	Mean	SD	SE	95% CI of Mean	Median	IQR	95% CI of Median
82-0082	13	1.692	0.4958	0.1375	1.393 to 1.992	1.500	0.200	1.400 to 2.100
82-0087	95	1.348	0.5948	0.0610	1.226 to 1.469	1.200	0.785	1.100 to 1.400
82-0089	133	1.560	0.8145	0.0706	1.421 to 1.700	1.400	1.080	1.200 to 1.700
82-0090	146	1.226	0.3510	0.0291	1.168 to 1.283	1.200	0.528	1.100 to 1.300
82-0092	116	0.803	0.2812	0.0261	0.751 to 0.855	0.730	0.410	0.660 to 0.850
82-0094	121	1.868	0.7706	0.0701	1.729 to 2.007	1.800	0.950	1.600 to 2.000
82-0097	96	1.194	0.5146	0.0525	1.089 to 1.298	1.065	0.413	0.970 to 1.200
82-0116-02	94	1.126	0.6474	0.0668	0.994 to 1.259	1.000	0.363	0.940 to 1.100

**South Washington Watershed District**

**Parameter** Chloride (mg/l) by Lake  
**Performed by** Houston Engineering, Inc

**Date** 2006



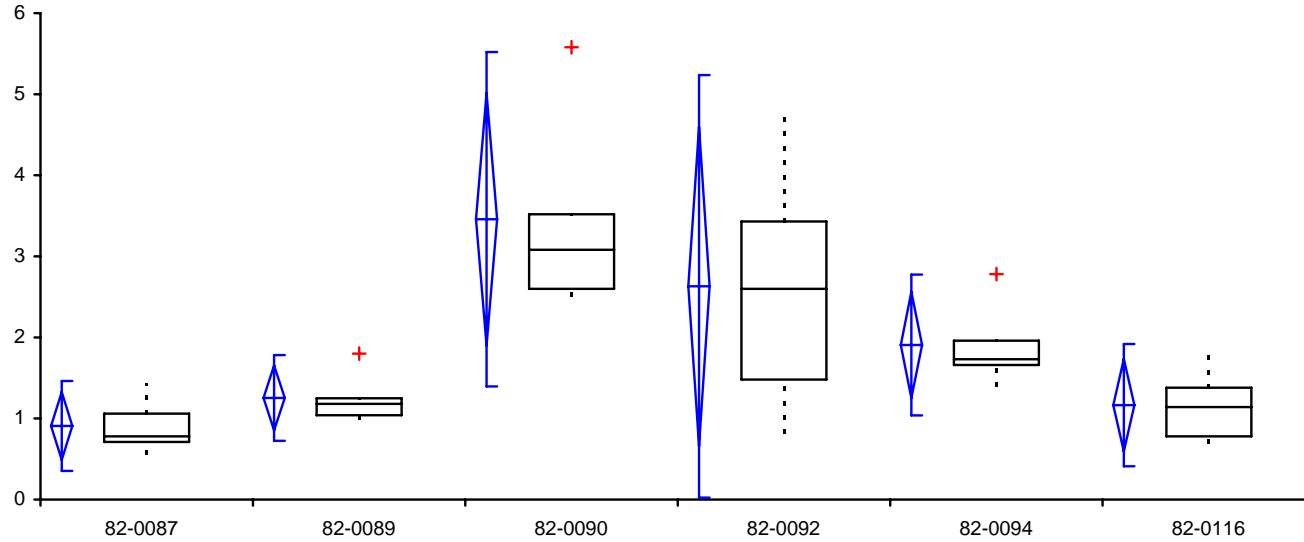
Lake ID Number	n	Mean	SD	SE	95% CI of Mean	Median	IQR	95% CI of Median
82-0092	28	27.000	6.5206	1.2323	24.472 to 29.528	27.000	4.000	27.000 to 29.000
82-0116-02	42	69.167	28.1494	4.3435	60.395 to 77.939	70.500	37.250	55.000 to 77.000

Test | **South Washington Watershed District**

Parameter | Range of Fluctuation by Lake

Performed by | Houston Engineering, Inc.

Date | 2006



Range of Fluctuation	n	Mean	SD	SE	95% CI of Mean	Median	IQR	95% CI of Median
82-0087	5	0.908	0.3373	0.1508	0.489 to 1.327	0.780	0.350	- to -
82-0089	5	1.254	0.3217	0.1439	0.855 to 1.653	1.180	0.210	- to -
82-0090	5	3.458	1.2534	0.5606	1.902 to 5.014	3.080	0.920	- to -
82-0092	5	2.630	1.5840	0.7084	0.663 to 4.597	2.600	1.950	- to -
82-0094	5	1.906	0.5278	0.2360	1.251 to 2.561	1.730	0.300	- to -
82-0116	5	1.164	0.4583	0.2050	0.595 to 1.733	1.140	0.600	- to -