2007 ANNUAL SURVEY OF WHOLESALE CUSTOMERS: SUMMARY OF RESULTS





August 2008

RESULTS OF THE 2007 SEATTLE SURVEY OF WHOLESALE CUSTOMERS

Each year, Seattle Public Utilities (SPU) asks its wholesale customers to provide information on their current and forecast water demand (both retail and wholesale), sources of supply (in addition to SPU), and their water and sewer rates. A complete set of this data by wholesale customer and by year is of critical importance in Seattle Public Utilities' efforts to better forecast wholesale demand. Wholesale customers often find the current and historical information provided in this report useful in their own analysis and planning. It also allows them to see how they compare to other wholesale customers and Seattle in a number of areas.

This report summarizes much of the data that was collected in the 2007 wholesale customer survey and is the 14th year the report has appeared in this format. Seattle Public Utilities appreciates the time and effort each wholesale customer has taken in completing and *returning the survey.* Comparative information is presented on water rates, bills and consumption patterns. Questions about this report or the survey data should be directed to Bruce Flory at (206) 684-5859.

Overview

About half the water produced by Seattle Public Utilities is sold directly to consumers in Seattle's direct service area. The rest is sold wholesale to 25 neighboring cities and water districts. These wholesale customers are listed below.

	Cities		Water Districts
•	City of Bellevue ¹	•	Cedar River Water & Sewer District
•	City of Bothell	•	Coal Creek Utility District
•	City of Duvall		Highline Water District
•	City of Edmonds	•	Lake Forest Park Water District
•	City of Kirkland ¹	•	Northshore Utility District
•	City of Mercer Island	•	Olympic View Water & Sewer District
•	City of Redmond ¹	•	Shoreline Water District
•	City of Renton	•	Skyway Water & Sewer Distric t ^{1,2}
•	City of Tukwila ¹	•	Soos Creek Water & Sewer District
		•	Woodinville Water District
		•	Water District No. 20 ³
		•	Water District No. 45
		•	Water District No. 49
		•	Water District No. 90
		•	Water District No. 119
		•	Water District No. 125

Wholesale Customers of Seattle Public Utilities

¹ Bellevue, Kirkland, Redmond, Skyway, and Tukwila are members of the Cascade Water Alliance which signed a block supply contract with SPU effective January 1, 2004.

² Skywav and Bryn Mawr-Lakeridge merged in 1999. The name of the merged utility was changed to Skyway in 2002.

³ Water District 85 was merged with Water District 20 in 2003.

While there are almost 1,500 public water systems in King County and an estimated fourteen thousand private systems, the 45 largest water utilities serve 95% of the county's population. Seattle and its wholesale customers alone provide water to about 74% of the population of King County as well as 43,000 people in the southwest corner of Snohomish County.



Percent of Population Served by Water Providers in King County

Supply: Seattle Public Utilities has two surface water sources and a small ground water source: the Cedar River system, the South Fork Tolt Reservoir, and the Seattle Well Field (used primarily for summer peaking). On average, the Cedar River system provides about 70 percent of total supply, the South Fork Tolt system delivers 29 percent, and the Seattle Well Field delivers 1 percent. With the addition of the Tolt Treatment Facility in 2001, total annual average firm yield from the current system is estimated at 171 mgd.

A number of Seattle's wholesale customers have their own sources of supply, which reduce their demand from Seattle. These utilities and the approximate annual capacity of their sources are listed below:

- Edmonds Purchased all of its water from Alderwood in 2006.
- Highline Wells, 1.9 mgd
- Lake Forest Park Well, 0.4 mgd
- Olympic View Surface Water, 0.5 mgd
- **Redmond** Wells, 2.7 mgd
- **Renton -** Wells, 13.2 mgd.
- Skyway Well, 0.2 mgd
- Water District 90 0.6 mgd

Demand: Seattle and wholesale water demand totaled 147 mgd in 2006, up from 142 mgd in 2005. Of that, 131 mgd came from the SPU supply system and 16 mgd was obtained from wholesale customers' own sources of supply. Various components of Seattle and wholesale demand are shown in the chart, below⁴. Seattle demand was 65 mgd including 5 mgd of non-revenue water. Total wholesale demand of 82 mgd consisted of 66 mgd from Seattle (65 mgd purchased and 1 mgd transmission losses) and 16 mgd obtained from other sources. Included in wholesale demand, but not shown separately on the chart, is about 5 mgd of distribution system non-revenue water.





⁴ Components may not add to total due to rounding.

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A Comparison of 2007 Residential Rates

	3/4" mtr ch	Includes	Sea	sonal			Incline	d Block		
Purveyor:	per month	Minimum	Winter	Summer*	1st	2nd	3rd	4th	5th	Break Points**
W.D. 20	\$16.75	0	\$1.34	\$2.19	-	-	-	-	-	-
W.D. 45	\$13.50	0	-	-	\$1.75	\$2.75	\$3.75	-	-	5/25
W.D. 49	\$11.00	0	-	-	\$2.00	\$2.45	\$3.30	-	-	5/8
W.D. 90	\$17.75	2.5	-	-	\$2.25	\$2.65	\$3.15	-	-	7.5/12.5
W.D. 119***	\$27.50	0	Block	Block	\$1.95/\$2.44***	\$2.70/\$3.38***	\$3.50/\$4.38***	\$4.31/\$5.39***	-	7/14/21
W.D. 125	\$10.50	0	\$2.20	\$2.60	-	-	-	-	-	-
Bellevue	\$12.02	0	-	-	\$2.39	\$3.31	\$4.25	\$6.32	-	10/15/50
Bothell	\$9.77	0	-	-	\$1.98	\$2.89	\$3.74	\$4.76	\$5.43	5/10/15/25
Cedar River	\$15.00	2.5	-	-	\$1.94	\$3.40	\$3.69	\$5.98	-	5 /15/25
Coal Creek	\$13.30	0	-	-	\$2.12	\$2.76	\$3.52	\$5.05	-	5/15/50
Duvall	\$20.64	2	-	-	\$3.07	\$3.95	\$4.83	\$5.71	\$6.60	4/6/8/10
Edmonds	\$8.51	0	-	-	\$1.77	-	-	-	-	-
Lake Forest Park	\$25.24	0	-	-	\$2.40	-	-	-	-	-
Highline	\$7.00	0	\$2.91	\$3.80	-	-	-	-	-	-
Kirkland	\$13.18	2	-	-	\$3.15	\$4.14	-	-	-	12
Mercer Island***	\$6.50	0	Block	Block	\$1.42	\$2.42	\$2.93/\$3.03***	\$3.94/\$4.24***	-	4/8/12
Northshore	\$13.50	0	-	-	\$1.80	\$2.75	\$3.70	\$4.65	-	6.5/8.5/12.5
Olympic View***	\$11.13	0	Block	Block	\$1.59/\$1.69***	\$2.31/\$2.65***	-	-	-	20
Redmond	\$9.75	0	-	-	\$1.38	\$2.68	\$3.96	\$5.25	-	5/11/20
Renton	\$11.93	0	-	-	\$2.01	\$2.14	-	-	-	10
Shoreline	\$18.69	0	-	-	\$1.78	\$1.92	\$2.37	\$3.03	\$4.20	2/4/7/15
Skyway	\$10.74	0	-	-	\$2.38	\$3.02	\$3.81	\$4.82	-	4/6/12
Soos Creek***	\$8.85	0	Block	Block	\$1.32	\$2.97/\$3.56***	\$3.72/\$4.46***	\$4.25/\$5.10***	-	5/10/15
Tukwila	\$6.00	0	\$2.21	\$3.07	-	-	-	-	-	-
Woodinville	\$11.14	0	-	-	\$2.51	\$3.71	\$4.80	\$5.99	-	6/12/25
Seattle***	\$8.05	0	\$2.53	Block	\$2.88	\$3.35	\$8.55	-	-	5/18

* All utilities with seasonal rates use a 4 month peak season except Soos Creek which has a 3 month peak season.

** Break Points are the number of ccf per month at which the next rate block is attained. For example, W.D. 45 charges \$1.75 per ccf for the first 5 ccf consumed, \$2.75 per ccf for the next 20 ccf per month, and \$3.75 per ccf for all consumption in excess of 25 ccf per month.

*** WD 119, Mercer Island, Olympic View, Soos Creek, and Seattle have both seasonal and block rates. For example, WD 119's 2nd block rate of \$2.30/ccf increases to \$2.86 during the peak season.

A Comparison of 2007 Commercial Rates

	2" mtr ch	Includes	Sea	sonal			Incline	d Block		
Purveyor:	per month	Minimum	Winter	Summer*	1st	2nd	3rd	4th	5th	Break Points**
W.D. 20	\$83.75	0	\$1.34	\$2.19	-	-	-	-	-	-
W.D. 45	\$13.50	0	-	-	\$1.75	\$2.75	\$3.75	-	-	5/25
W.D. 49	\$128.00	0	-	-	\$2.20	-	-	-	-	-
W.D. 90	\$51.50	2.5	-	-	\$3.15	-	-	-	-	-
W.D. 119***	\$40.50	0	Block	Block	\$1.95/\$2.44***	\$2.70/\$3.38***	\$3.50/\$4.38***	\$4.31/\$5.39***	-	7/14/21
W.D. 125	\$35.75	0	\$2.20	\$2.60	-	-	-	-	-	-
Bellevue	\$55.31	0	\$2.33	\$3.26	-	-	-	-	-	-
Bothell	\$95.23	0	\$2.30	\$3.94	-	-	-	-	-	-
Cedar River	\$50.58	2.5	-	-	\$1.94	\$3.40	\$3.69	\$5.98	-	5 /15/25
Coal Creek	\$70.75	0	\$2.44	\$3.19	-	-	-	-	-	-
Duvall	\$20.64	2	-	-	\$3.07	\$3.95	\$4.83	\$5.71	\$6.60	4/6/8/10
Edmonds	\$59.08	0	-	-	\$1.77	-	-	-	-	-
Lake Forest Park	\$108.24	0	-	-	\$2.20	-	-	-	-	-
Highline	\$66.00	0	\$2.91	\$3.80	-	-	-	-	-	-
Kirkland	\$53.14	0	-	-	\$3.66	-	-	-	-	-
Mercer Island	\$52.00	0	\$1.50	\$3.75	-	-	-	-	-	-
Northshore	\$73.75	0	-	-	\$2.55	\$2.85	\$3.15	\$3.45	-	34.5/45/66.5
Olympic View***	\$40.49	0	Block	Block	\$1.59/\$1.69***	\$2.31/\$2.65***	-	-	-	160
Redmond	\$52.35	0	\$1.81	\$2.79	-	-	-	-	-	-
Renton	\$33.46	0	-	-	\$2.01	-	-	-	-	-
Shoreline	\$216.22	0	-	-	\$2.39	\$3.63	-	-	-	48
Skyway	\$129.94	0	-	-	\$3.06	\$3.63	-	-	-	\$48.00
Soos Creek***	\$44.40	0	Block	Block	\$1.32	\$2.97/\$3.56***	\$3.72/\$4.46***	\$4.25/\$5.10***	-	5/10/15
Tukwila	\$50.00	0	\$2.86	\$3.94	-	-	-	-	-	-
Woodinville	\$89.85	0	-	-	\$3.05	\$3.35	-	-	-	prior winter avg
Seattle	\$21.00	0	\$2.29	\$3.35	-	-	-	-	-	-

* All utilities with seasonal rates use a 4 month peak season except Soos Creek which has a 3 month peak season.

** Break Points are the number of ccf per month at which the next rate block is attained. For example, W.D. 45 charges \$1.75 per ccf for the first 5 ccf consumed, \$2.75 per ccf for the next 20 ccf per month, and \$3.75 per ccf for all consumption in excess of 25 ccf per month.

*** WD 119, Olympic View, and Soos Creek have both seasonal and block rates. For example, WD 119's 2nd block rate of \$2.30/ccf increases to \$2.86 during the peak season.

Figure 1.1

Average Monthly Residential Bills at 2007 Rates and LOW Consumption

(4 ccf/mo Winter and 6 ccf/mo Summer Consumption)



Figure 1.2

Average Monthly Residential Bills at 2007 Rates and MEDIUM Consumption

(8 ccf/mo Winter and 12 ccf/mo Summer Consumption)



Figure 1.3

Average Monthly Residential Bills at 2007 Rates and HIGH Consumption

(16 ccf/mo Winter and 24 ccf/mo Summer Consumption)



Figure 1.4



Average Monthly Residential Water Bills at Each Utility's Average Consumption

* Belleuve, Redmond, and Tukwila did not provide consumption data for 2006.

AVERAGE ANNUAL, WINTER, AND SUMMER RESIDENTIAL BILLS

with 2007 Rates & Medium Consumption: 8 ccf/mo Winter, 12 ccf/mo Summer Ranked from Highest to Lowest

		Mont	hly Residential	l Bills	Summer/Winter
Rank	Purveyor:	Avg. Annual	Winter	Summer	Differential*
1	Duvall	\$52.55	\$44.34	\$68.96	55.5%
2	W.D. 119	\$49.98	\$43.85	\$62.25	42.0%
3	Lake Forest Park	\$47.64	\$44.44	\$54.04	21.6%
4	Shoreline	\$40.28	\$36.24	\$48.37	33.5%
5	Skyway	\$39.00	\$33.92	\$49.16	44.9%
6	Woodinville	\$38.57	\$33.62	\$48.46	44.1%
7	Highline	\$37.72	\$30.28	\$52.60	73.7%
8	W.D. 49	\$37.65	\$28.35	\$56.25	98.4%
9	Kirkland	\$36.28	\$32.08	\$44.68	39.3%
10	Coal Creek	\$35.86	\$32.18	\$43.22	34.3%
11	Bellevue	\$34.94	\$31.14	\$42.54	36.6%
12	Cedar River	\$34.58	\$30.05	\$43.65	45.3%
13	W.D. 45	\$34.17	\$30.50	\$41.50	36.1%
14	Seattle	\$34.16	\$28.29	\$45.90	62.2%
15	Northshore	\$34.10	\$29.33	\$43.65	48.8%
16	W.D. 90	\$33.86	\$30.33	\$40.93	35.0%
17	Bothell	\$32.76	\$28.34	\$41.60	46.8%
18	W.D. 20	\$32.66	\$27.47	\$43.03	56.6%
19	W.D. 125	\$32.63	\$28.10	\$41.70	48.4%
20	Renton	\$30.78	\$28.01	\$36.31	29.6%
21	Tukwila	\$30.07	\$23.68	\$42.84	80.9%
22	Soos Creek	\$29.80	\$25.68	\$42.17	64.2%
23	Redmond	\$28.69	\$24.69	\$36.69	48.6%
24	Olympic View	\$26.37	\$23.85	\$31.41	31.7%
25	Mercer Island	\$25.90	\$21.86	\$33.98	55.4%
26	Edmonds	\$25.03	\$22.67	\$29.75	31.2%
WHO	LESALE AVERAGE	\$35.27	\$30.60	\$44.79	46.4%

* Note that the summer/winter differential is not the differential in rates but in bills. Most purveyors have a differential of less than 50% even though bills are calculated with 50% more consumption in summer than in winter. This means that the average rate charged per ccf by these purveyors is actually less in the summer than in the winter. This seemingly contradictory result is due to the impact of the meter charge which is spread over a greater number of ccf in the summer.

Ranking of Purveyor Bills from High to Low at Different Levels of Consumption

Ranking at Low Consumption	Ranking at Medium Consumption	Ranking at High Consumption
1 W.D. 119	1 Duvall	1 Duvall
2 Lake Forest Park	2 W.D. 119	2 W.D. 119
3 Duvall	3 Lake Forest Park	3 Skyway
4 Shoreline	4 Shoreline	4 Woodinville
5 W.D. 20	5 Skyway	5 W.D. 49
6 Coal Creek	6 Woodinville	6 Northshore
7 Bellevue	7 Highline	7 Shoreline
8 Woodinville	8 W.D. 49	8 Kirkland
9 W.D. 90	9 Kirkland	9 Seattle
10 Highline	10 Coal Creek	10 Bothell
11 Skyway	11 Bellevue	11 Lake Forest Park
12 W.D. 49	12 Cedar River	12 Highline
13 W.D. 45	13 W.D. 45	13 Soos Creek
14 Northshore	14 Seattle	14 Bellevue
15 Kirkland	15 Northshore	15 Cedar River
16 W.D. 125	16 W.D. 90	16 Redmond
17 Renton	17 Bothell	17 Coal Creek
18 Seattle	18 W.D. 20	18 W.D. 90
19 Cedar River	19 W.D. 125	19 Mercer Island
20 Bothell	20 Renton	20 W.D. 45
21 Olympic View	21 Tukwila	21 W.D. 125
22 Tukwila	22 Soos Creek	22 Tukwila
23 Edmonds	23 Redmond	23 Renton
24 Redmond	24 Olympic View	24 W.D. 20
25 Soos Creek	25 Mercer Island	25 Olympic View
26 Mercer Island	26 Edmonds	26 Edmonds

Definition of Consumption Levels:

	Winter	Summer	Average
Low	4 ccf/mo	6 ccf/mo	4.67 ccf/mo
Medium	8 ccf/mo	12 ccf/mo	9.33 ccf/mo

Figure 2.1 WHOLESALE CUSTOMERS RANKED BY 2006 ANNUAL PURCHASES FROM SPU



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Purveyor	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Bellevue	7,638,641	6,360,259	6,822,822	7,976,658	7,565,651	7,741,347	7,723,447	8,254,911	8,053,791	8,012,735	7,221,979	7,559,140	8,124,609	8,525,078	7,864,907	8,474,731
Bothell	587,196	449,484	556,791	667,498	725,746	575,987	647,008	731,200	638,894	761,656	720,652	751,322	783,847	790,903	710,804	791,591
Bryn Mawr	56,854	45,164	32,613	37,872	45,330	45,527	54,377	56,648	59,525 I	Merged with S	kyway					
Cedar River	666,248	566,104	603,090	750,800	779,246	831,807	820,126	925,231	841,243	891,413	835,740	912,348	980,516	989,535	985,386	1,071,615
Coal Creek	894,511	750339	829,124	955,727	950,677	1,033,659	966,592	1,101,548	1,110,773	1,124,051	942,044	1,121,178	1,237,310	607,964	525,361	598,753
Duvall	128,148	96,652	124,510	173,669	165,968	168,628	173,831	194,781	193,759	211,270	168,746	202,939	257,645	244,321	236,868	242,851
Edmonds	603,702	191,561	323,409	363,220	482,584	492,976	457,778	467,746	386,147	21,675	7	16	4	1,068	62	-
Highline	3,307,937	3,010,639	3,496,835	3,460,968	3,405,697	3,280,274	3,090,166	2,982,876	3,058,440	3,020,265	2,856,390	2,918,609	3,233,149	2,964,590	2,559,715	2,565,923
Kirkland	3,217,591	2,638,543	2,714,284	3,329,440	3,195,319	2,994,880	2,802,576	2,920,755	2,955,265	3,138,937	2,861,685	2,989,315	3,238,310	3,044,835	2,833,027	3,150,078
Lake Forest Park	4,370	2,067	46	103	25	5	526	12	34	22	186	168	16	0	2	6
Mercer Island	1,211,098	925,746	1,043,369	1,202,145	1,165,843	1,115,339	1,089,467	1,175,902	1,141,068	1,198,242	1,033,318	1,091,347	1,165,501	1,219,866	1,072,336	1,139,931
Northshore	2,887,098	2,328,110	2,197,336	2,831,155	2,927,079	2,857,930	2,728,851	2,872,274	2,716,809	2,833,106	2,547,889	2,833,696	2,983,637	2,838,343	2,556,349	2,698,337
Olympic View	707,997	357,572	504,361	615,810	519,619	444,107	600,267	648,842	462,821	439,561	360,013	382,872	475,345	462,990	414,859	549,538
Redmond	92,992	4	3	0	90,669	117,846	141,407	198,550	169,630	230,796	259,585	385,288	364,646	461,140	471,211	668,574
Renton	21,990	2,003	396	73	94	244	1,177	8,623	125,765	111,747	101,894	69,078	62,364	64,549	51,841	48,314
Shoreline	1,161,302	923,115	964,357	1,119,290	1,065,840	1,043,676	1,044,327	1,047,211	1,001,449	1,053,182	888,156	908,984	968,906	936,967	866,334	917,711
Skyway	185,999	158,355	172,647	183,149	164,235	163,172	162,979	180,418	173,355	203,520	316,097	318,079	326,364	235,574	226,417	212,135
Soos Creek	2,174,701	1,704,398	1,865,929	2,134,666	2,069,831	2,146,459	2,067,796	2,076,737	1,860,482	2,045,482	1,993,363	2,173,499	2,296,099	2,336,428	2,126,144	2,205,083
Tukwila	981,465	713,020	759,306	862,309	880,582	1,183,810	1,241,880	1,143,486	1,198,360	1,096,157	1,095,812	1,119,261	1,092,216	1,136,059	1,069,148	1,068,642
Woodinville	1,993,019	1,447,548	1,482,316	1,909,654	1,843,899	1,955,053	1,859,299	2,189,506	2,077,944	2,197,389	2,040,624	2,070,493	2,371,019	2,243,238	126,416	2,032,328
W.D. 20	1,620,100	1,298,359	1,352,498	1,494,279	1,496,058	1,485,935	1,440,893	1,574,917	1,559,582	1,366,147	1,346,239	1,285,424	1,427,155	1,346,869	603,604	1,416,165
W.D. 45	128,553	111,831	114,626	106,501	105,040	139,241	141,892	150,932	142,361	156,010	105,556	137,852	133,350	127,217	1,325,298	105,832
W.D. 49	752,055	581,401	645,697	700,404	727,103	762,238	689,425	689,310	685,368	673,859	616,296	625,111	611,986	640,512	116,943	599,956
W.D. 85	32,861	27,600	28,038	42,820	34,591	38,259	37,387	35,211	45,286	74,155	34,458	45,048 N	Aerged with WE	20		
W.D. 90	779,377	656,679	679,669	755,466	762,344	740,993	694,136	718,975	708,119	735,758	683,434	538,035	496,043	503,774	587,490	539,675
W.D. 119	84,428	65,916	61,758	89,238	91,726	90,961	99,109	98,828	101,798	117,447	132,490	128,518	139,875	133,744	452,581	131,697
W.D. 125	705,542	542,275	590,909	656,989	751,273	763,424	730,878	698,405	688,626	778,596	560,097	580,052	560,331	646,969	1,873,605	623,262
Total	32,625,775	25,954,744	27,966,739	32,419,903	32,012,069	32,213,777	31,507,597	33,143,835	32,156,694	32,493,178	29,722,750	31,147,672	33,330,243	32,502,533	29,656,708	31,852,728

Table 2.1Annual Water Purchases from SPU by Wholesale Customer: 1991-2006

Figure 2.2 WHOLESALE CUSTOMERS RANKED BY 2006 ANNUAL RETAIL BILLED SALES



* Note that Bellevue, Redmond and Tukwila did not provide consumption data for 2006 and are not included in the total.

Table 2.2

Annual Retail Water Sales by Wholesale Customer: 1994-2006

Purveyor	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004*	2005*	2006*
Bellevue*	6,831,423	6,917,700	6,569,687	6,430,842	6,809,415	6,723,028	6,791,413	6,332,424	6,519,723	7,055,800	7,078,453	6,783,981	No Data
Bothell*	613,357	615,555	634,087	642,172	724,060	659,376	739,669	684,621	714,466	760,131	No Data	577,806	656,619
Bryn Mawr	181,830	184,439	186,626	184,553	190,430	185,172			Me	rged with Skyv	vay		
Cedar River	700,900	725,404	765,703	750,953	838,602	791,379	854,728	784,795	858,905	949,620	925,955	855,114	964,037
Coal Creek	949,769	935,974	940,637	927,646	1,075,618	1,056,803	1,070,525	1,013,672	1,084,280	1,219,567	543,762	488,466	563,705
Duvall	152,923	157,615	153,524	164,201	197,891	178,958	191,604	187,714	197,080	231,577	218,230	205,341	223,653
Edmonds	1,530,836	1,500,991	1,441,370	1,467,343	1,508,951	1,390,499	1,456,809	1,334,776	1,421,775	1,512,175	1,465,301	1,406,291	1,504,473
Highline	3,172,396	3,119,713	3,186,456	3,153,323	3,250,553	3,190,115	3,229,719	3,020,857	3,090,006	3,302,253	3,149,274	3,029,761	3,066,659
Kirkland	1,769,978	1,758,480	1,765,124	1,731,510	1,872,837	1,837,946	1,936,149	1,645,395	1,790,609	1,906,772	1,739,111	1,833,509	1,843,186
Lake Forest Park	132,282	104,000	136,852	137,960	132,282	140,077	140,077	102,375	107,268	116,970	105,794	101,256	106,343
Mercer Island	1,137,390	1,069,147	1,037,486	1,019,781	1,129,403	1,064,830	1,104,852	954,551	1,089,710	1,149,546	1,155,137	984,570	996,235
Northshore*	2,779,279	2,687,786	2,669,776	2,585,391	2,754,149	2,674,545	2,665,229	2,831,579	2,630,028	2,808,235	2,676,062	No Data	2,676,062
Olympic View	716,211	678,424	659,387	638,465	694,953	673,260	671,687	607,893	648,736	703,425	699,541	627,376	659,836
Redmond*	2,706,393	2,603,278	2,748,404	2,746,029	3,011,322	2,975,707	2,979,125	2,783,755	2,940,175	3,254,994	No Data	No Data	No Data
Shoreline	939,194	1,000,101	984,836	966,178	940,873	925,532*	956,858	871,251	862,972	914,477	886,232	782,673	814,773
Skyway	154,426	145,953	145,894	142,329	149,880	153,043	356,220	309,537	325,930	329,497	309,832	280,643	292,983
Soos Creek	1,877,871	1,896,870	1,901,225	1,857,564	2,009,017	1,947,093	1,995,096	1,822,072	1,941,211	2,191,349	2,023,063	1,870,978	2,003,456
Tukwila*	690,615	696,646	910,897	953,471	1,024,494	1,040,590	1,030,948	925,230	903,189	938,989	1,000,684	1,043,575	No Data
Woodinville	2,003,864	1,900,675	1,987,758	1,904,444	2,145,836	1,999,930	2,104,568	1,887,481	2,003,091	2,232,174	2,077,734	1,867,062	2,044,244
W.D. 20	1,268,799	1,253,936	1,263,083	1,255,113	1,334,597	1,310,712	1,238,771	1,137,766	1,137,678	1,216,998	1,200,605	1,144,053	1,196,913
W.D. 45	89,216	102,951	139,017	148,574	154,728	131,770	145,677	130,769	138,113	132,207	121,307	108,416	99,325
W.D. 49	722,961	726,946	685,230	689,433	660,912	668,462	653,378	613,239	614,343	645,016	610,845	616,020	620,546
W.D. 85	61,650	64,506	65,403	61,331	63,761	68,419*	69,231	52,480	54,985		Merged wi	th WD 20	
W.D. 90	597,339	600,360	589,946	591,370	559,987	570,985	602,704	555,734	599,564	656,449	665,985	602,173	694,640
W.D. 119	89,517	89,254	93,572	96,432	100,814	102,391	106,602	103,963	108,359	124,407	113,288	105,277	126,326
W.D. 125	681,602	693,299	686,828	693,765	734,486	682,754	729,943	641,283	718,981	678,557	652,703	611,276	636,882
TOTAL*	32,552,021	32,230,004	32,348,808	31,940,173	34,069,851	33,143,376	33,821,582	31,335,212	32,501,177	35,031,184	29,418,898	25,925,617	21,790,896
Seattle	35,925,417	35,216,783	34,532,115	33,771,744	34,741,440	32,994,553	33,581,789	30,325,199	30,829,010	30,422,909	29,994,131	28,340,298	29,114,620

* Consumption data is missing for Bothell in 2004 and Northshore in 2005. Redmond did not provide data for 2004, 2005, and 2006. Bellevue and Tukwila did not provide data for 2006. Total consumption calculated for 2004, 2005 and 2006 excludes these utilities and is therefore less than the actual total.

Figure 2.3



(2003, 2004, & 2005 Non-Revenue Shown in Gray)



* 2006 non-revenue data not available for Bellevue, Lake Forest Park, Redmond, and Tukwila.

Table 2.3

Wholesale Customer Distribution System Non-Revenue Water: 1994-2006

	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	Average
Bellevue***	7.6%	2.2%	8.3%	9.3%	10.4%	8.5%	7.8%	4.6%	6.0%	5.0%	8.6%	4.3%	NA	6.9%
Bothell	10.3%	17.7%	-7.9%	5.7%	5.4%	7.9%	7.6%	7.4%	7.1%	6.6%	NA	18.7%	18.8%	8.8%
Bryn Mawr*	5.2%	6.5%	6.4%	6.6%	4.8%	10.4%			Merge	d with Sky	way			6.7%
Cedar River	6.6%	6.9%	8.0%	8.4%	4.4%	7.0%	5.3%	7.0%	6.3%	4.1%	7.3%	14.1%	10.0%	7.3%
Coal Creek	0.6%	1.5%	9.0%	4.0%	2.4%	4.9%	4.8%	-7.6%	3.3%	1.4%	10.6%	7.0%	5.9%	3.7%
Duvall	11.9%	5.0%	8.2%	5.3%	-1.6%	7.6%	9.3%	-11.2%	2.9%	10.1%	10.5%	13.1%	7.7%	6.1%
Edmonds	15.2%	14.0%	14.1%	8.6%	12.6%	10.1%	17.3%	16.4%	18.1%	15.1%	16.5%	9.5%	5.7%	13.3%
Highline	14.4%	16.3%	12.4%	8.6%	3.9%	5.8%	6.6%	4.3%	5.0%	5.7%	10.7%	7.8%	3.2%	8.1%
Kirkland	10.1%	6.2%	3.4%	1.2%	-3.7%	2.7%	-1.3%	7.4%	2.5%	5.0%	9.1%	0.7%	0.9%	3.4%
Lake Forest Park	NA	-5.0%	NA	4.0%	-19.7%	11.0%	NA	14.4%	13.9%	15.4%	21.0%	6.0%	14.3%	7.5%
Mercer Island	2.7%	5.6%	7.0%	6.3%	4.0%	6.7%	7.8%	7.6%	0.1%	1.4%	5.3%	8.2%	7.4%	5.4%
Northshore	1.2%	7.5%	5.7%	4.2%	4.1%	0.0%	4.4%	-12.0%	6.4%	4.8%	5.0%	NA	2.5%	2.8%
Olympic View	7.1%	6.7%	-0.6%	12.5%	13.4%	7.3%	7.3%	2.0%	-1.4%	-6.2%	2.6%	7.8%	8.5%	5.1%
Redmond***	-9.3%	6.3%	-2.6%	-1.7%	-3.7%	1.7%	3.5%	2.6%	6.5%	3.4%	NA	NA	NA	0.7%
Renton	NA	NA	NA	NA	NA	NA	NA	13.5%	13.2%	12.1%	13.1%	14.3%	17.0%	13.9%
Shoreline	9.3%	6.2%	13.2%	7.2%	4.4%	NA	9.1%	1.9%	0.8%	5.6%	5.4%	5.9%	11.2%	6.7%
Skyway*	11.4%	7.3%	6.6%	6.9%	11.7%	7.3%	3.4%	7.7%	2.7%	4.3%	13.9%	20.0%	7.6%	8.5%
Soos Creek	12.0%	8.4%	11.2%	10.2%	3.3%	-4.7%	2.5%	8.7%	10.7%	4.6%	13.4%	12.0%	9.1%	7.8%
Tukwila***	19.9%	20.9%	22.5%	23.2%	10.9%	13.5%	6.6%	16.7%	20.0%	14.8%	11.9%	2.4%	NA	15.3%
Woodinville	-4.9%	-3.1%	-1.9%	-2.4%	2.0%	5.4%	4.2%	7.5%	3.3%	5.9%	7.4%	0.3%	-0.6%	1.8%
W.D. 20**	5.4%	7.7%	6.0%	4.3%	5.6%	8.3%	7.1%	6.2%	0.6%	7.6%	3.1%	5.5%	7.6%	5.8%
W.D. 45	16.2%	2.0%	0.2%	-4.7%	-2.5%	7.4%	6.6%	-23.9%	-0.2%	0.9%	4.6%	7.3%	6.1%	1.5%
W.D. 49	-1.2%	2.0%	11.8%	1.3%	5.3%	3.4%	3.3%	0.6%	1.7%	-5.4%	4.6%	-4.9%	-3.4%	1.5%
W.D. 85**	-2.3%	8.4%	10.7%	7.5%	4.2%	NA	13.7%	10.8%	41.0%		Merged with	h WD 20		11.8%
W.D. 90	20.9%	21.2%	20.4%	14.8%	22.1%	19.4%	18.1%	18.7%	9.3%	9.2%	11.3%	11.4%	7.7%	15.7%
W.D. 119	0.1%	3.1%	-2.5%	3.1%	-1.7%	-0.3%	9.5%	21.7%	16.0%	11.4%	15.5%	17.0%	4.4%	7.5%
W.D. 125	8.6%	20.4%	18.6%	14.2%	8.1%	7.7%	9.4%	14.3%	6.5%	15.4%	13.5%	14.4%	12.7%	12.6%
Purveyor Average	7.0%	7.6%	7.7%	6.7%	5.3%	5.8%	6.2%	6.1%	6.8%	6.1%	9.4%	7.3%	7.0%	6.9%

* Formerly Bryn Mawr-Lakeridge Water & Sewer District. Skyway Water & Sewer District merged with Bryn Mawr-Lakeridge as of June 1, 1999 and the name was changed back to Sky ** Water District 85 merged with Water District 20 in 2003.

*** Bellevue, Redmond, and Tukwila did not provide consumption data for 2006.

Figure 2.4 2006 Measures of Consumption per Unit





* Note that Bellevue, Redmond and Tukwila did not provide consumption data for 2006.

Table 2.4

	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Bellevue	10.4	10.0	9.8	9.4	10.0	9.6	9.7	8.9	9.1	9.7	10.4	8.5	No Data
Bothell	8.5	7.9	8.1	7.9	8.4	7.6	8.0	7.5	7.6	8.0	No Data	5.7	5.7
Bryn Mawr	NA	NA	NA	NA	NA	7.5			Mergeo	d with Sk	yway		
Cedar River	9.9	9.7	9.7	9.1	9.6	8.9	9.5	8.0	8.6	9.1	8.6	7.8	8.5
Coal Creek	10.1	9.5	9.4	9.2	9.9	9.1	9.1	8.0	8.6	9.3	9.4	8.2	8.9
Duvall	NA	8.6	8.3	8.9	9.7	8.1	8.8	7.1	7.2	8.4	7.6	6.8	7.4
Edmonds	9.9	9.7	8.6	8.1	9.5	8.6	10.2	8.5	8.8	9.5	9.0	8.1	8.4
Highline	9.2	9.0	8.6	9.0	8.8	8.3	8.5	7.6	8.1	8.2	7.9	7.5	7.6
Kirkland	8.8	8.6	8.5	8.5	8.6	8.2	9.3	7.5	8.0	8.9	7.8	10.4	7.8
Lake Forest Park	NA	NA	11.4	12.8	10.7	12.2	12.2	9.9	10.4	11.3	10.3	9.8	10.2
Mercer Island	NA	10.7	9.9	9.8	11.0	10.0	10.5	9.2	10.0	10.6	10.5	9.9	9.8
Northshore	9.6	9.2	9.0	8.6	9.8	8.7	8.5	8.1	8.4	8.9	8.4	No Data	8.4
Olympic View	9.9	9.8	9.5	8.9	9.5	9.0	9.3	8.1	9.0	9.7	9.2	8.3	9.0
Redmond	9.4	9.0	9.1	8.7	9.1	8.6	8.3	7.7	7.7	8.2	No Data	No Data	No Data
Shoreline	8.3	7.9	7.8	7.5	7.9	NA	7.7	6.7	7.0	7.4	7.0	6.5	6.5
Skyway	7.5	7.2	7.3	7.0	7.2	6.8	7.8	6.3	7.0	7.1	6.7	6.0	6.3
Soos Creek	8.7	8.4	8.4	7.7	8.2	7.8	7.8	7.0	7.5	8.5	8.1	6.8	6.9
Tukwila	7.5	6.4	7.7	7.4	7.4	7.2	7.0	7	7	7	6	6	No Data
Woodinville	12.0	11.1	11.3	10.5	11.7	10.7	11.1	10.8	10.4	11.6	10.4	9.1	10.2
W.D. 20	8.3	8.2	8.0	7.7	8.5	8.1	7.9	7.0	7.1	7.7	7.4	6.9	7.2
W.D. 45	NA	8.9	NA	NA	NA	6.8	7.5	6.8	7.6	6.9	6.4	6.2	6.4
W.D. 49	9.1	9.6	8.7	8.5	8.4	8.2	7.9	7.2	7.7	8.1	7.7	7.2	8.0
W.D. 85	NA	NA	NA	NA	NA	9.9	9.7	6.9	7.2		Merged w	ith WD 20	
W.D. 90	NA	NA	NA	NA	NA	8.4	9.5	8.5	8.8	8.7	8.5	7.5	8.2
W.D. 119	NA	NA	NA	NA	NA	8.1	8.2	7.7	8.1	9.1	8.2	7.5	9.0
W.D. 125	8.4	8.3	8.3	8.2	8.3	8.1	8.3	8.5	9.4	8.5	8.1	7.8	8.0
WHOLESALE AVERAGE	9.7	9.4	9.2	8.9	9.5	8.9	9.1	8.1	8.4	9.0	8.7	7.9	8.0
SEATTLE	7.9	7.6	7.4	7.1	7.1	7.1	7.3	6.5	6.7	6.6	6.4	6.0	6.2

Single Family Residential Consumption per Household by Wholesale Customer: 1994-2006 (in CCF per Household per Month)

Bellevue, Redmond, and Tukwila did not provide consumption data for 2006.



Figure 2.5